Polk City Water Plant 2016 Water Quality Report Polk City

We are committed to ensuring the quality of your water and want you to be informed about the water services delivered to you. Our goal is to provide dependable supply of healthy drinking water. Therefore we are pleased to provide our Annual Water Report that describes the quality of the water you drink every day. Information about the contaminants found in your water and how this may relate to your health. The presence of a moderate amount contaminants in drinking water within regulated standards is normal and does not indicate that the water poses a health risk. Should there be any reason for health concerns with you water, we would notify you immediately.

Where does your water come from?

Polk City draws water from wells drilled into the Floridian aquifer. The sources of drinking water include rivers, lakes streams, ponds, reservoirs, springs, and wells. As water travels over the surface of the land or through the grounds, it dissolves naturally occurring minerals and radioactive material and on pick up substances resulting from human or animal activity.

Why must our water have Chlorine?

Drinking water, including bottled water, may reasonably be expected to contain very small amounts some contaminants. The presence of containments does not necessarily mean that water require disinfection, so chlorine is added and a minimum contact time of fifteen minutes is provided to destroy living organisms before being delivered to you.

Have more questions?

If you have any questions about this

report or concerns about your water utility, or want to obtain a copy of the report, please contact Kevin Burge at (772) 708-7946. We encourage our valued customers to information about their water utility.





Special Health Concerns

More information about contaminants and potential health effects can be obtained by calling the Environmental Protection Agency (The EPA's) Safety Drinking Water Hot Line at (800) 426-4791 or on-line at their website:

http://www.epa.gov/safewater



Want to learn more about Florida water?

Please visit the Florid Department of Environmental Protection (DEP) website at: http://www.myflorida.com Find an agency, Environmental Protection, Water, and drinking water.

We are proud to report that in 2016 our drinking water met all federal and state water quality standards.

Possible dangerous contaminants?

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 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, byproducts 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.





Protecting your water

Florida's Department of Environmental Protection has conducted a Source Water Assessment (SWA), for all public water systems in Florida, to identify and assesses any potential sources of contamination in the vicinity of your water supply. A SWA conducted for this system in 2009 found that the system's wells are at moderate risk for contamination due to the wells being located within an area of known agriculture ground water contamination, designated as a "Delineated Area" within Florida, for petroleum storage tanks and for hazardous waste. SWA report for Polk City is available at the DEP SWAPP website:

www.dep.state.fl.us/swapp or they can be obtained from Kevin Burge at (772) 708-7946.

Vulnerable Populations

Some people may be more vulnerable contaminants in drinking water that the general population. Immunocompromised 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. US EPA/Center by Disease Control guidelines on appropriate mean to lessen the risk of infection by cryptosporidium and other microbiological contaminants are available on the web at:

<u>www.epa.gov/safewater</u> or telephone the Safe Drinking Water Hotline (800) 426-4791 for any drinking water issue.

We are required to monitor the drinking water for specific contaminants on a regular basis. In the year 2016 a nitrate/nitrite sample from a plant was inadvertently missed. It was sampled as soon as the oversight was noticed. The results came back well under acceptable for nitrate and undetected for nitrite. No adverse health are believed to have resulted from the incident. There is nothing you need to do and you may continue to drink the water.

Attention Landlords/Property Managers!

If you are a landlord or property manager, please provide this water quality report to your residents/tenants.

What Water Quality Acronyms and Terms To Know

In our line of work, we use a lot of acronyms. Here are some of the most common ones.

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

LRAA (Locational Running Annual Average): The average of sample analytical results for samples taken at a particular monitoring location during the previous four calendar quarters.

MCL (Maximum Containment Level): The maximum allowed is the highest level of a contaminant that is allowed in drinking water. MCL's are set as close to the MCLG'S as feasible using the best available treatment technology.

MRDL (Maximum Residual Disinfection 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. MCLG's allow for a margin of safety.

MCLG (Maximum Contaminant Level Goal): The goal is 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.

ND (Non Detects): Means not detected and indicates that the substance was not found by laboratory analysis.

PCi/L (Picocuries Per Liter): A measure of the radioactivity in water.

PPB (Parts Per Billion): Means one part by weight of analyte to 1 billion parts by weight of the water sample.

PPM (Parts Per Million): Means one part by weight of analyte to 1 million parts by weight of the water sample.



Florida ID # 6531424 2016 TEST RESULTS TABLE Polk City

Radioactive Contaminants Contaminant and Unit of Measurement		MCL Violation Yes / No	**Level Detected		Range of Results	MCLG	MCL	Monitoring Period Month / Year	Likely Source of Contamination
Alpha emitters Radium 226 + Radium	pCi/L pCi/L	No No	2.2 0.7		<u>1.8 – 2.5</u> 0.7 – 0.8	0	15 5	Jan – Dec 2015 Jan – Dec 2015	Erosion of natural deposits Erosion of natural deposits
228 [combined Radium] Jranium	Pg/L	No	1.9	5	1.8 – 2.1	0	30	Jan – Dec 2015	Erosion of natural deposits
norganic Contaminants	5			-					
Arsenic	ppb	No	3.05		3.0 – 3.1	n/a	10	Jan – Dec 2015	Erosion of natural deposits; runoff from orchards; runoff from glass and electronics production wastes.
Fluoride	ррb	No	0.275		ND - 0.55	N/A	2	Jan – Dec 2015	Leaching from ore-processing sites; discharge from electronics, glass, and drug factories.
Antimony	ppb	No 0.44		4	0.35 – 0.52	6	6	Jan – Dec 2015	Natural weathering of rock, industrial production, municipal waste disposal, and manufacturing processes.
Barium	ppm	No	No 0.0053		0.0050 - 0.0055	2	2	Jan – Dec 2015	Discharge of drilling wastes; discharge from metal refineries; erosion of natural deposits
Nitrate	ppm	No	0.47		0.47	10	10	Jan – Dec 2016	Run off from fertilizer, leaking septic tanks, sewage, and erosion from natural deposits
Nickel	ppb	No	0.8		ND – 1.5	N/A	100	Jan – Dec 2015	Pollution from mining and refining operations. Natural occurrence in soil.
Sodium	ppm	No	7.6		6.5 – 8.7	N/A	160	Jan – Dec 2015	Salt water intrusion, leaching from soil.
During the 2016 sampling	year nitrate	e samples from	both WT	P were I	required. A sample	from Comm	onwealth wa	as inadvertently overl	looked. A sample was immediately taking. Th
esults came back as 0.26	pm, well w	vithin acceptabl	e limits.			1			
Synthetic Organic Conta	minants i	ncludina Pest	icides ar	nd Hert	picides				
Synanous organic conta						,			Runoff from herbicide use
Glyphosphate	ppb	No	27		ND - 27	700	700	Jan – Dec 2015	
Contaminant and Unit of Measurement			Dates of MC sampling (mo. / Viola yr.) Yes /		on Detected	Range of Results	MCLG or MRDLG	MCL or MRDL	Likely Source of Contamination
Chlorine	ppm	Jan – Dec 2			1.0	0.6 – 1.8	MRDLG = 4	MRDL = 4.0	Water additive used to control microbes
Total Trihalomethanes [TTHM]	ppb		/ – Sept 2016 No		5.8	5.8	n/a	MCL = 80	By-product of drinking water disinfection
Haloacetic Acids (HAA5) (ppb)	ppb	July – Sept 2016 No		No	ND	ND	n/a	MCL = 60	By-product of drinking water disinfection
ead and Copper (Tap V	Vater)								
Contaminant and Jnit of Measurement		Action Level Violation Yes / No	90 th Percentile Result		Number of Sampling Sites Exceeding the Action Level	MCGL	Action Level	Monitoring Period Month / Year	Likely Source of Contamination
Copper (tap water)	ppm	No	0.084		0	1.3	AL= 1.3	June – Sept 2015	Corrosion of household plumbing systems erosion of natural deposits; leaching from wood preservatives.
Lead (tap water)	ррb	No	0.0014		0	15	AL = 15	June – Sept 2015	Corrosion of household plumbing systems public water systems, and erosion of natur deposits.
components associated with blumbing components. Whe using water form drinking or and steps you can take to n Why is Drinking Water n order to ensure that top v	f lead can n service lin en your wat cooking. I ninimize ex Regulate vater is saf	cause serious h nes and home j ter has been sit f you are conce cposure is availa cd? e to drink, the [nealth pro plumbing tting for s erned abo able from DEP and	blems, Polk C everal h but lead the Saf	especially for preg ity is responsible fo ours, you can mini in your water, you e Drinking Water F escribe regulations	nant women or providing I mize the pot may wish to lotline or at I and standar	and young of high quality of ential for lea have your w http://www.ep	children. Lead in drini drinking water, but ca d exposure by flushir rater tested. Informat pa.gov/safewater/lea g the amount of certa	ead in your water: king water is primarily from materials and innot control the variety of material used in ng your tap for 30 seconds to 2 minutes befo ion on lead in drinking water, testing method: