



Seminole County Environmental Services is pleased to present you with the 2017 Annual Drinking Water Quality Report. This report is designed to inform you about the quality water and services that we deliver to you every day. These results did not happen without the committed and dedicated team of licensed water operators whose goal is and always has been to provide to you 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 proud to share this report, which is based on water quality testing through December 2017; you will find that we supply water that meets or exceeds all federal and state water quality regulations.

In an effort to reduce paper consumption and minimize the impact on our environment, we offer Our Water Quality Report electronically to all our customers. This report is divided into a service area map and 11 individual drinking water service area water quality reports. To determine your drinking water service area, please utilize the attached service area map and find the vicinity of your address; use the color-coded legend to determine your service area and go directly to that part of the report. Or, feel free to peruse the water quality data for all drinking water service areas served by Seminole County. If you would like a printed copy of this report mailed to your address, please contact Environmental Services Customer Service office at 407-665-2110, to request your copy.

Sincerely,

Elisa M. Williams
Interim Water Operations

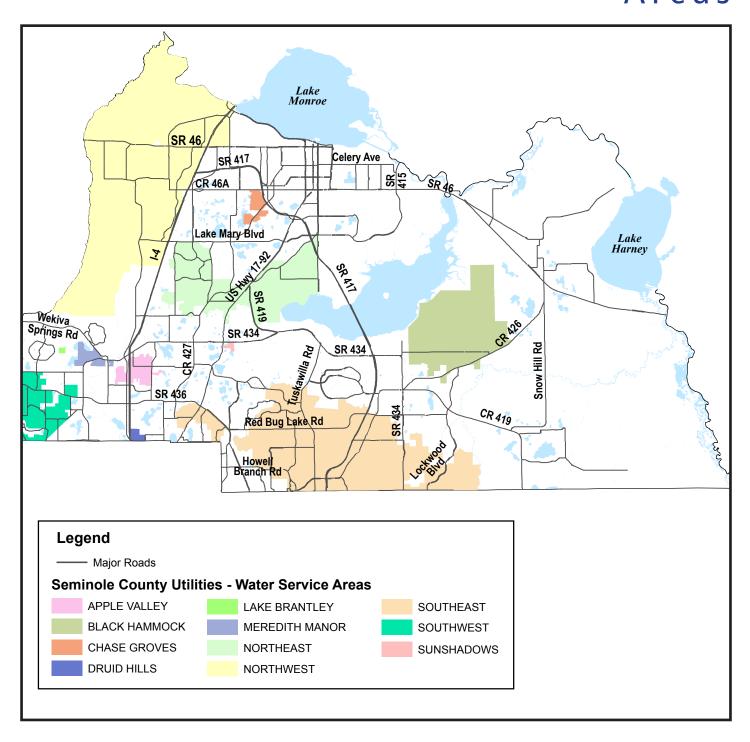
Manager/Chief Compliance Operator

Water Operations

Seminole County Environmental Services



Map of Water Service Areas





Drinking Water Quality Report-Apple Valley Service Area 2017



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Seminole County Environmental Services Department 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, 2017. Data obtained before January 1, 2017, and presented in this report are from the most recent testing done in accordance with the laws, rules and regulations.

Source Water Assessment Plan

In 2017, the Department of Environmental Protection performed a Source Water Assessment on the City of Altamonte Springs, from whom we purchase your drinking water. The assessment was conducted to provide information about any potential sources of contamination in the vicinity of their wells. The assessment results are available on the FDEP Source Water Assessment and Protection Program website at www.dep.state.fl.us/swapp.

EPA Would Like You to Know

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 storm water 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 storm water 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 storm water 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.



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).

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. Seminole County Environmental Services 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.







WATERING RESTRICTION SCHEDULE EVEN HOUSE #'S THURSDAY AND SUNDAY ODD HOUSE #'S WEDNESDAY AND SATURDAY NON-RESIDENTIAL TUESDAY AND FRIDAY RECLAIM CUSTOMERS TWO DAYS PER WEEK

Terms and Abbreviations

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

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Maximum residual disinfectant 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.

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

Parts per billion (ppb) or Micrograms per liter ($\mu g/I$): 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/I): one part by weight of analyte to 1 million parts by weight of the water sample.

Picocurie per liter (pCi/L): measure of the radioactivity in water.



Apple Valley Service Area

WATER QUALITY RESULTS

		VV	AILN	QUALII			13
		Apple V	alley Conse	cutive Water	System	- PWS I	D# 3590039
				Inorganic Con	taminants		
Results in the Level Detected							es and herbicides, and volatile organic contaminants are the highest g on the sampling frequency.
Contaminant and Unit of Measurement	Date of Sampling (mo/yr)	MCL Violation Y/N	Level Detected	Range of Results	MCLG	MCL	Likely Source of Contamination
Barium (ppm) City of Altamonte Springs	03/17	N	0.009	0.0062 - 0.009	2	2	Discharge of drilling wastes; discharge from metal refineries; erosion of natural deposits
Fluoride (ppm) City of Altamonte Springs	03/17	N	0.66	0.58 - 0.66	4	4	Erosion of natural deposits; discharge from fertilizer and aluminum factories. Water additive which promotes strong teeth when at optimum level of 0.7 ppm
Sodium (ppm) City of Altamonte Springs	03/17	N	15.0	10.3 - 15.0	N/A	160	Salt water intrusion, leaching from soil
			Stage 2 [Disinfectants/Disi	nfection By	-Products	
					s collected duri	ng the past year.	es collected. The Range of Results is the range of results of all the
				all monitoring location as the highest locationa	s. I running annual		of Results is the range of individual sample results (lowest to highest) Range of Results is the range of individual samples results (lowest to
Contaminant and Unit of	Date of Sampling	MCL Violation	Level Detected	highest for all monito	MCLG or	MCL or MRDL	Likely Source of Contamination
Measurement	(mo/yr)	Y/N			MRDLG		,
Chlorine (ppm) Seminole County City of Altamonte Springs	01/17 - 12/17 2017	N N	0.959 * 1.1	0.20 - 1.46 0.2 - 2.1	MRDLG = 4	MRDL = 4.0	Water additive used to control microbes
Haloacetic Acids (five) (HAA5) (ppb) Seminole County City of Altamonte Springs	07/2017 2017	N N	22.55 ** 26.20 ***	18.61 - 22.55 9.97 - 30.30	NA	MCL = 60	By-product of drinking water disinfection
Total Trihalomethanes (TTHM) (ppb) Seminole County City of Altamonte Springs	07/2017 2017	N N	62.18 ** 52.70 ***	40.75 - 62.18 21.3 - 72.3	NA	MCL = 80	By-product of drinking water disinfection
				Lead and Copper	(Tap Water)	
Contaminant and Unit of Measurement	Date of Sampling (mo/yr)	AL Violation Y/N	90th Percentile Result	Number of sampling sites exceeding the AL	MCLG	AL	Likely Source of Contamination
Copper (tap water) (ppm) Seminole County	07/15	N	0.18	0	1.3	1.3	Corrosion of household plumbing systems; erosion of natural deposits; leaching from wood preservatives



Drinking Water Quality Report-Black Hammock Service Area 2017



We are pleased to present you this year's Annual 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. The drinking water for the Black Hammock Consecutive Service Area is obtained from ground water wells, is chloraminated for disinfection purposes, and then fluoridated for dental health purposes. If you have any questions about this report or concerning your water utility, please contact Seminole County Environmental Services at 407-665-2110.



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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).

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. Seminole County Environmental Services 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.







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Picocurie per liter (pCi/L): measure of the radioactivity in water.

Seminole County



Black Hammock Service Area

WATER QUALITY RESULTS

		WA	TER Q	UALIT	YRE	SULT	T S				
	Bla	ack Hamm	ock Conse	cutive Water	System	(PWS IE	0# 3594186)				
				Inorganic Contarr	inants						
Results in the Level Detected							and herbicides, and volatile organic contaminants are the highest the sampling frequency.				
Contaminant and Unit of Measurement	Date of Sampling (mo/yr)	MCL Violation Y/N	Level Detected	Range of Results	MCLG	MCL	Likely Source of Contamination				
Arsenic (ppb) City of Oviedo	04/17	N	0.0003	0.0003	0	10	Erosion of natural deposits; runoff from orchards; runoff from glass and electronics production wastes				
Barium (ppm) City of Oviedo	04/17	N	0.017	0.013	2	2	Discharge of drilling wastes; discharge from metal refineries; erosion of natural deposits				
Fluoride (ppm) City of Oviedo	04/17	N	0.4	0.4	4	4	Erosion of natural deposits; discharge from fertilizer and aluminum factories. Water additive which promotes strong teeth when at optimum level of 0.7 ppm				
Nickel (ppb) City of Oviedo	04/17	N	0.0001	0.0001	NA	100	Pollution from mining and refining operations. Natural occurrence in soil.				
Lead (point of entry) (ppb) City of Oviedo	04/17	N	0.0005	0.0005	0	15	Residue from man-made pollution such as auto emissions and paint; lead pipe, casing and solder				
Sodium (ppm) City of Oviedo	04/17	N	39.0	39.0	NA	160	Salt water intrusion, leaching from soil				
Nitrate (as Nitrogen) (ppm) City of Oviedo	04/17	N	0.22	0.22	10	10	Runoff from fertilizer use; leaching from septic tanks, sewage; erosion of natural deposits				
Stage 1 Disinfectant/Disinfection By-Product											
For bromate, chloramines, or	chlorine, the level o	detected is the high		erage (RAA), computed q dual samples collected o			all samples collected. The range of results is the range of results of				
Contaminant and Unit of Measurement	Date of Sampling (mo/yr)	MCL Violation Y/N	Level Detected	Range of Results	MCLG or MRDLG	MCL or MRDL	Likely Source of Contamination				
Chloramines (ppm) Seminole County City of Oviedo	01/17 - 12/17 01/17 - 12/17	N N	1.26 (annual ave.) 2.05 (Average)	0.71 - 2.88 0.80 - 3.0	MRDLG = 4	MRDL = 4.0	Water additive used to control microbes				
			Stage 2 Di	sinfectants/Disinfe	ction By-Pro	ducts					
				all monitoring locations	ning annual ave		lts is the range of individual sample results (lowest to highest) for ge of Results is the range of individaul samples results (lowest to				
Contaminant and Unit of Measurement	Date 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 (five) (HAA5) (ppb) Seminole County City of Oviedo	08/10/17 05/04/17	N N	17.51 * 8.26	14.62 - 17.51 7.95 - 8.26	NA	MCL = 60	By-product of drinking water disinfection				
Total Trihalomethanes (TTHM) (ppb) Seminole County City of Oviedo	08/10/17 05/04/17	N N	25.71 * 14.67	20.68 - 25.71 14.47 - 14.67	NA	MCL = 80	By-product of drinking water disinfection				
			L	ead and Copper (Ta	p Water)						
Contaminant and Unit of Measurement	Date of Sampling (mo/yr)	AL Violation Y/N	90th Percentile Result	Number of sampling sites exceeding the AL	MCLG	AL	Likely Source of Contamination				
Copper (tap water) (ppm) Seminole County	09/15	N	0.37	0	1.3	1.3	Corrosion of household plumbing systems; erosion of natural deposits; leaching from wood preservatives				
Lead (tap water) (ppb) Seminole County	09/15	N	13	1	0	15	Corrosion of household plumbing systems, erosion of natural deposits				

natural deposits



Drinking Water Quality Report-Chase Groves Consecutive Service Area 2017



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- (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 storm water runoff, and septic systems.
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Chase Groves Service Area

WATER QUALITY RESULTS

	CI	hase Grov	es Consecu	utive Water	Svstem -	PWS ID	0# 3594214				
				Radioactive Contar							
Results in the Level Detected column for radioactive contaminants, inorganic contaminants, synthetic organic contaminants including pesticides and herbicides, and volatile organic contaminants are the highest average at any of the sampling points or the highest detected level at any sampling point, depending on the sampling frequency.											
Contaminant and Unit of Measurement	Date of Sampling (mo/yr)	MCL Violation Y/N	Level Detected	Range of Results	MCLG	MCL	Likely Source of Contamination				
Radium 226 + 228 or combined radium (pCi/L) City of Sanford	02/17-12/17	N	2.18	ND - 2.18	0	5	Erosion of natural deposits				
				Inorganic Contam	inants						
Contaminant and Unit of Measurement	Date of Sampling (mo/yr)	MCL Violation Y/N	Level Detected	Range of Results	MCLG	MCL	Likely Source of Contamination				
Barium (ppm) City of Sanford	09/28/2017	N	0.023	0.0097 - 0.023	2	2	Discharge of drilling wastes; discharge from metal refineries; erosion of natural deposits				
Fluoride (ppm) City of Sanford	09/28/2017	N	0.6	0.57 - 0.6	4	4	Erosion of natural deposits; discharge from fertilizer and aluminum factories. Water additive which promotes strong teeth when at optimum level of 0.7 ppm				
Nitrate (as Nitrogen) (ppm) City of Sanford	09/28/2017	N	0.26	0.03 - 0.26	10	10	Runoff from fertilizer use; leaching from septic tanks, sewage; erosion of natural deposits				
Sodium (ppm) City of Sanford	09/28/2017	N	32.7	27.9 - 32.7	N/A	160	Salt water intrusion, leaching from soil				
			Stage 1 Dis	sinfectants/Disinfe	ction By-Prod	lucts					
For bromate, chloramines, or ch	lorine, the level det	ected is the highes		ge (RAA), computed qua al samples collected du			samples collected. The range of results is the range of results of all				
Contaminant and Unit of Measurement	Date of Sampling (mo/yr)	MCL Violation Y/N	Level Detected	Range of Results	MCLG or MRDLG	MCL or MRDL	Likely Source of Contamination				
Bromate (ppb) City of Sanford	01/17-12/17	N	1.1	ND - 4.8	MCLG = 0	MCL = 10	By-product of drinking water disinfection				
Chlorine (ppm) Seminole County City of Sanford	01/17 - 12/17 01/17 - 12/17	N N	1.226 1.3	0.31 - 2.20 0.3 - 2.5	MRDLG = 4	MRDL = 4.0	Water additive used to control microbes				
			Stage 2 Dis	sinfectants/Disinfe	ction By-Prod	lucts					
			all moni e level detected is the	toring locations.	ing annual avera		ts is the range of individual sample results (lowest to highest) for e of Results is the range of individual samples results (lowest to				
Contaminant and Unit of Measurement	Date 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 (five) (HAA5) (ppb) Seminole County City of Sanford	01/17 - 12/17 02/17 - 11/17	N N	22.4025 ** 22.98 **	17.87 - 26.72 1.95 - 25.14	NA	MCL = 60	By-product of drinking water disinfection				
Total Trihalomethanes (TTHM) (ppb) Seminole County City of Sanford	01/17 - 12/17 02/17 - 11/17	N Y	80.43** (highest LRAA @ site 1) 80.94 **	67.82 - 85.43 4.84 - 83.94	NA	MCL = 80	By-product of drinking water disinfection				
had a TTHM result of 83.83, 8	35.43, and 81.72 ppl	b respectively, whi	ch exceeds the MCL methanes in excess of	of 80 ppb. However, th	ne system did n s may experien	ot incur an MCL	the 2nd Quarter of 2017 (2999 Greenwood Springs Loop, April) wolation, because all annual average results at all sites were at the their liver, kidneys, or central nervous systems, and may have				
TTHM Monitoring Re	sults (ppb)	1st Quarter 2017	2nd Quarter 2017	3rd Quarter 2017	4th Qu	arter 017					
Site 1 ** CG-5 2999 Greenwood Sprii Quarterly Results Site 1 **	ngs Loop	83.83	81.72	79.88	72	.14					
CG-5 2999 Greenwood Sprin		76.04	79.48	80.43		.39					
CG-9 2874 Snowy Owl Ct. C Site 2 ** CG-9 2874 Snowy Owl Ct.	-	85.43 65.59	70.61 68.01	73.14		.82					
* Reported LRAA for quarters ** Pursuant to 26-550.730(1)(b)	1-3 are based on re		quarters not reporte			.25					

Number of

sampling sites

exceeding the AL

0

MCLG

1.3

AL

1.3

Likely Source of Contamination

Corrosion of household plumbing systems; erosion of

natural deposits; leaching from wood preservatives

Corrosion of household plumbing systems, erosion of

natural deposits

Date of

Sampling

(mo/yr)

07/2017

07/2017

AL Violation

Result

0.029

Contaminant and Unit of

Copper (tap water) (ppm)

Seminole County

Seminole County

Measurement



Drinking Water Quality Report-Druid Hills Consecutive Service Area 2017



We are pleased to present you this year's Annual 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. The drinking water for the Druid Hills Service Area is obtained from ground water wells and is chlorinated for disinfection purposes. If you have any questions about this report or concerning your water utility, please contact Seminole County Environmental Services at 407-665-2110.



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Source Water Assessment Plan

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EPA Would Like You to Know

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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 storm water 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 storm water 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 storm water 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.



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).

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. Seminole County Environmental Services 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.







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

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Maximum residual disinfectant 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.

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Druid Hills Service Area

WATER QUALITY RESULTS

Druid Hills Water System - PWS ID# 3590111 **Radioactive Contaminants** Results in the Level Detected column for radioactive contaminants, inorganic contaminants, synthetic organic contaminants including pesticides and herbicides, and volatile organic contaminants are the highest at any sampling point, depending on the sampling frequency. Date of Contaminant and Unit of Sampling Violation Level Detected Range of Results MCLG MCL **Likely Source of Contamination** Measurement Y/N (mo/yr) Radium 226 + 228 or 07/15 N 0.9 Erosion of natural deposits combined radium (pCi/L) **Inorganic Contaminants** MCL Date of Contaminant and Unit of Range of Results MCLG MCL Likely Source of Contamination Sampling Violation Level Detected Measurement (mo/yr) Y/N Discharge from petroleum refineries; fire retardants; Antimony (ppb) 07/15 0.24 0.24 6 6 ceramics: electronics: solder Discharge of drilling wastes; discharge from metal 07/15 Barium (ppm) Ν 0.0048 0.0048 2 2 refineries; erosion of natural deposits Erosion of natural deposits; discharge from fertilizer and 07/15 Fluoride (ppm) Ν 0.24 0.24 4 aluminum factories. Water additive which promotes strong teeth when at optimum level of 0.7 ppm Pollution from mining and refining operations; Natural Nickel (ppb) 07/15 2.9 2.9 N/A 100 occurrence in soil Sodium (ppm) 07/15 Ν 15 15 N/A Salt water intrusion, leaching from soil

Stage 2 Disinfectants/Disinfection By-Products

- the individual samples collected during the past year.

 ** For Haloacetic Acids (HAAS) or Total Trihalomethanes (TTHM), the level detected is the highest detected level at any sampling point. Range of Results is the range of individual sample results (lowest to
- highest) for all monitoring locations.

 *** For Haloacetic Acids (HAA5) or Total Trihalomethanes (TTHM), the level detected is the highest) locational running annual average (LRAA). Range of Results is the range of individaul samples results (lowest to highest for all monitoring locations.

Contaminant and Unit of Measurement	Date of Sampling (mo/yr)	MCL Violation Y/N	Level Detected	Range of Results	MCLG or MRDLG	MCL or MRDL	Likely Source of Contamination
Chlorine (ppm)	01/17-12/17	N	1.394 (annual average)	0.44 - 2.16	MRDLG = 4	MRDL = 4.0	Water additive used to control microbes
Haloacetic Acids (five) (HAA5) (ppb)	07/17 - 10/17	N		20.01 - 40.16	N/A	MCL = 60	By-product of drinking water disinfection
TTHM [Total trihalomethanes] (ppb)	07/17 - 10/17	N		46.65 - 101.12	N/A	MCL = 80	By-product of drinking water disinfection

One sample during 2017 annual collection (1215 Trinity Way, July) had a TTHM result of 101.12 ppb, which exceeds the MCL of 80 ppb. However, the system did not incur an MCL violation, because all annual average results at all sites were at or below the MCL. Some people who drink water containing trihalomethanes in excess of MCL over many years may experience problems with their liver, kidneys, or central nervous systems, and may have an increased risk of getting cancer.

Lead and Copper (Tap Water)										
Contaminant and Unit of Measurement	Date of Sampling (mo/yr)	AL Violation Y/N	90th Percentile Result	Number of sampling sites exceeding the AL	MCLG	AL	Likely Source of Contamination			
Copper (tap water) (ppm)	07/2015	N	0.3	0	1.3	1.3	Corrosion of household plumbing systems; erosion of natural deposits; leaching from wood preservatives			



Drinking Water Quality Report-Lake Brantley Consecutive Service Area 2017



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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. Seminole County Environmental Services 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.







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Lake Brantley Service Area WATER QUALITY RESULTS

		W A	IER G	UALIT	YRE	SULI	l S
	L	ake Brant	tley Consec	cutive Water	System	- PWS ID	D# 3590685
				Radioactive Conta	minants		
Results in the Level Detected							and herbicides, and volatile organic contaminants are the highest hthe sampling frequency.
Contaminant and Unit of Measurement	Date of Sampling (mo/yr)	MCL Violation Y/N	Level Detected	Range of Results	MCLG	MCL	Likely Source of Contamination
Radium 226 + 228 or combined radium (pCi/L) Utilities Inc Sanlando	02/17	N	2.3	0.7 - 2.3	0	5	Erosion of natural deposits
				Inorganic Contar	ninants		
Contaminant and Unit of Measurement	Date of Sampling (mo/yr)	MCL Violation Y/N	Level Detected	Range of Results	MCLG	MCL	Likely Source of Contamination
Barium (ppm) Utilities Inc Sanlando	02/17	N	0.0135	0.0064 - 0.0135	2	2	Discharge of drilling wastes; discharge from metal refineries; erosion of natural deposits
Sodium (ppm) Utilities Inc Sanlando	02/17	N	16.9	11.1 - 16.9	N/A	160	Salt water intrusion, leaching from soil
			Stage 2 [Disinfectants/Disinf	ection By-Pro	oducts	
*** For Haloacetic Acids (HAAA Contaminant and Unit of Measurement	Date of Sampling (mo/yr)	methanes (TTHM), t MCL Violation Y/N	he level detected is th	nonitoring locations. The highest locational rushighest for all monitoring range of Results		erage (LRAA). Ran	ge of Results is the range of individaul samples results (lowest to
Chlorine (ppm) Seminole County Utilities Inc - Sanlando	01/17 - 12/17 01/17 - 12/17	N N	1.585 2.26	0.89 - 2.28 0.5 - 3.5	MRDLG = 4	MRDL = 4.0	Water additive used to control microbes
Haloacetic Acids (five) (HAA5) (ppb) Seminole County Utilities Inc - Sanlando	07/2017 02/17 - 11/17	N N	8.95 ** 31.5 **	8.95 21.0 - 31.5	N/A	MCL = 60	By-product of drinking water disinfection
Total Trihalomethanes (TTHM) (ppb) Seminole County Utilities Inc - Sanlando	07/2017 02/17 - 11/17	N N	19.79** 43.0 **	19.79 32.7 - 43.0	N/A	MCL = 80	By-product of drinking water disinfection
			١	Lead and Copper (T	ap Water)		
Contaminant and Unit of Measurement	Date of Sampling (mo/yr)	AL Violation Y/N	90th Percentile Result	Number of sampling sites exceeding the AL	MCLG	AL	Likely Source of Contamination
Copper (tap water) (ppm) Seminole County	08/15	N	0.05	0	1.3	1.3	Corrosion of household plumbing systems; erosion of natural deposits; leaching from wood preservatives
Lead (tap water) (ppb)				1			Corrosion of household plumbing systems, erosion of



Drinking Water Quality Report-Meredith Manor Service Area 2017



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Meredith Manor Service Area

WATER QUALITY RESULTS

				culive vvaler	System	- PWS I	D# 3590823				
Radioactive Contaminants											
Results in the Level Detected							and herbicides, and volatile organic contaminants are the highest the sampling frequency.				
Contaminant and Unit of Measurement	Date of Sampling (mo/yr)	MCL Violation Y/N	Level Detected	Range of Results	MCLG	MCL	Likely Source of Contamination				
Radium 226 + 228 or combined radium (pCi/L) Utilities Inc Sanlando	02/17	N	2.3	0.7 - 2.3	0	5	Erosion of natural deposits				
				Inorganic Contan	ninants						
Contaminant and Unit of Measurement	Date of Sampling (mo/yr)	MCL Violation Y/N	Level Detected	Range of Results	MCLG	MCL	Likely Source of Contamination				
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Sodium (ppm) Utilities Inc Sanlando	02/17	N	16.9	1.1 - 16.9	N/A	160	Salt water intrusion, leaching from soil				
	Stage 2 Disinfectants/Disinfection By-Products										
	individual samples collected during the past year. ** For Haloacetic Acids (HAA5) or Total Trihalomethanes (TTHM), the level detected is the highest detected level at any sampling point. Range of Results is the range of individual sample results (lowest to highest) for all monitoring locations. *** For Haloacetic Acids (HAA5) or Total Trihalomethanes (TTHM), the level detected is the highest) locational running annual average (LRAA). Range of Results is the range of individual samples results (lowest to highest for all monitoring locations.										
		methanes (TTHM), t	he level detected is th	e highest) locational ru		erage (LRAA). Ran	ge of Results is the range of individaul samples results (lowest to				
Contaminant and Unit of Measurement	Date of Sampling (mo/yr)	methanes (TTHM), t MCL Violation Y/N	he level detected is th	e highest) locational ru		erage (LRAA). Ran	ge of Results is the range of individaul samples results (lowest to Likely Source of Contamination				
	Date of Sampling	MCL Violation	he level detected is th	e highest) locational ru highest for all monitorir	MCLG or	_					
Measurement Chlorine (ppm) Seminole County	Date of Sampling (mo/yr)	MCL Violation Y/N	Level Detected 1.838 *	e highest) locational ru highest for all monitoring Range of Results	MCLG or MRDLG	MCL or MRDL	Likely Source of Contamination				
Measurement Chlorine (ppm) Seminole County Utilities Inc - Sanlando Haloacetic Acids (five) (HAAS) (ppb) Seminole County	Date of Sampling (mo/yr) 01/17 - 12/17 01/17 - 12/17	MCL Violation Y/N N N	Level Detected 1.838 * 2.26	e highest) locational ruhighest for all monitorin Range of Results 0.87 - 2.42 0.5 - 3.5	MCLG or MRDLG MRDLG = 4	MCL or MRDL MRDL = 4.0	Likely Source of Contamination Water additive used to control microbes				
Measurement Chlorine (ppm) Seminole County Utilities Inc - Sanlando Haloacetic Acids (five) (HAAS) (ppb) Seminole County Utilities Inc - Sanlando Total Trihalomethanes (TTHM) (ppb) Seminole County	Date of Sampling (mo/yr) 01/17 - 12/17 01/17 - 12/17 07/2017 02/17 - 11/17	MCL Violation Y/N N N N N	1.838 * 2.26 14.05 ** 31.50 **	e highest) locational ruhighest for all monitorin Range of Results 0.87 - 2.42 0.5 - 3.5	MCLG or MRDLG MRDLG = 4 N/A	MCL or MRDL MRDL = 4.0 MCL = 60	Likely Source of Contamination Water additive used to control microbes By-product of drinking water disinfection				
Measurement Chlorine (ppm) Seminole County Utilities Inc - Sanlando Haloacetic Acids (five) (HAAS) (ppb) Seminole County Utilities Inc - Sanlando Total Trihalomethanes (TTHM) (ppb) Seminole County	Date of Sampling (mo/yr) 01/17 - 12/17 01/17 - 12/17 07/2017 02/17 - 11/17	MCL Violation Y/N N N N N	1.838 * 2.26 14.05 ** 31.50 **	e highest) locational ruhighest for all monitoring Range of Results 0.87 - 2.42 0.5 - 3.5 14.05 21.0 - 31.50 28.59 32.7 - 43.0	MCLG or MRDLG MRDLG = 4 N/A	MCL or MRDL MRDL = 4.0 MCL = 60	Likely Source of Contamination Water additive used to control microbes By-product of drinking water disinfection				



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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. Seminole County Environmental Services 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.







WATERING RESTRICTION SCHEDULE EVEN HOUSE #'S THURSDAY AND SUNDAY ODD HOUSE #'S WEDNESDAY AND SATURDAY NON-RESIDENTIAL TUESDAY AND FRIDAY RECLAIM CUSTOMERS TWO DAYS PER WEEK

Terms and Abbreviations

Action Level (AL): The concentration of a 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.

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Maximum residual disinfectant 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.

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"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 (m g/l): one part by weight of analyte to 1 million parts by weight of the water sample.

Picocurie per liter (pCi/L): measure of the radioactivity in water.



Northeast Service Area

WATER QUALITY RESULTS

Northeast Water System - PWS ID# 3590473

Water Quality Testing Results Table

Inorganic Contaminants

Results in the Level Detected column for radioactive contaminants, inorganic contaminants, synthetic organic contaminants including pesticides and herbicides, and volatile organic contaminants are the highest average at any of the sampling points or the highest detected level at any sampling point, depending on the sampling frequency.

Contaminant and Unit of Measurement	Date of Sampling (mo/yr)	MCL Violation Y/N	Level Detected	Range of Results	MCLG	MCL	Likely Source of Contamination
Barium (ppm)	02/17	N	0.007	0.007	2	2	Discharge of drilling wastes; discharge from metal refineries; erosion of natural deposits
Fluoride (ppm)	02/17	N	0.25	0.25	4	4	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
Nitrate (as Nitrogen) (ppm)	02/17	N	0.25	0.25	10	10	Runoff from fertilizer use; leaching from septic tanks, sewage; erosion of natural deposits
Arsenic (ppb)	02/17	N	0.1	0.1	0	10	Erosion of natural deposits; runoff from orchards; runoff from glass and electronics production wastes.
Sodium (ppm)	02/17	N	7.8	7-Jan	N/A	160	Salt water intrusion, leaching from soil

Stage 1 Disinfectants/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. The range of results is the range of results of all individual samples collected during the past year.

(Contaminant and Unit of Measurement	Date of Sampling (mo/yr)	MCL Violation Y/N	Level Detected	Range of Results	MCLG or MRDLG	MCL or MRDL	Likely Source of Contamination
	Bromate (ppb)	01/17-12/17	N	0.00 (annual average)	0.00	MCLG = 0	MCL = 10	By-product of drinking water disinfection
	Chlorine (ppm)	01/17-12/17	N	1.234 (annual average)	0.25 - 1.89	MRDLG=4	MRDL=4	Water additive used to control microbes

Stage 2 Disinfectants/Disinfection By-Products

* For Haloacetic Acids (HAA5) or Total Trihalomethanes (TTHM), the level detected is the highest detected level at any sampling point. Range of Results is the range of individual sample results (lowest to highest)
for all monitoring locations.

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Contaminant and Unit of Measurement	Date 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)	11/2017	N	13.38 *	12.43 - 13.38	NA	MCL = 60	By-product of drinking water disinfection
Total Trihalomethanes (TTHM) (ppb)	11/2017	N	35.11 *	33.30 - 35.11	NA	MCL = 80	By-product of drinking water disinfection

Lead and Copper (Tap Water)

Contaminant and Unit of Measurement	Date of Sampling (mo/yr)	AL Violation Y/N	90th Percentile Result	Number of sampling sites exceeding the AL	MCLG	AL	Likely Source of Contamination
Copper (tap water) (ppm)	01/17 - 02/17	N	0.71	2	1.3	1.3	Corrosion of household plumbing systems; erosion of natural deposits; leaching from wood preservatives
Lead (tap water) (ppb)	01/17 - 02/17	N	2.20	0	0	15	Corrosion of household plumbing systems, erosion of natural deposits



Drinking Water Quality Report-Northwest Service Area 2017



We are pleased to present you this year's Annual 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. The drinking water for the Northwest Service Area is obtained from ground water wells. The water is treated with ion exchange, and ozone. It is chlorinated for disinfection purposes and then fluoridated for dental health purposes. If you have any questions about this report or concerning your water utility, please contact Seminole County Environmental Services at 407-665-2110.



Seminole County Environmental Services Department 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, 2017. Data obtained before January 1, 2017, and presented in this report are from the most recent testing done in accordance with the laws, rules and regulations.

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In 2017, the Department of Environmental Protection performed a Source Water Assessment on the City of Altamonte Springs, from whom we purchase your drinking water. The assessment was conducted to provide information about any potential sources of contamination in the vicinity of their wells. The assessment results are available on the FDEP Source Water Assessment and Protection Program website at www.dep.state.fl.us/swapp.

EPA Would Like You to Know

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 storm water 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 storm water 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 storm water runoff, and septic systems.
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Picocurie per liter (pCi/L): measure of the radioactivity in water.



Northwest Service Area

WATER QUALITY RESULTS

Northwest Water System - PWS ID# 3594107

Water Quality Testing Results Table

Radioactive Contaminants

Results in the Level Detected column for radioactive contaminants, inorganic contaminants, synthetic organic contaminants including pesticides and herbicides, and volatile organic contaminants are the highest average at any of the sampling points or the highest detected level at any sampling point, depending on the sampling frequency.

Contaminant and Unit of Measurement	Date of Sampling (mo/yr)	MCL Violation Y/N	Level Detected	Range of Results	MCLG	MCL	Likely Source of Contamination
Radium 226 (pCi/L)	02/17	N	1.3	1.3	0	5	Erosion of natural deposits
Gross Alpha (incl Radon & Uranium) (pCi/L)	02/17	N	7.8	7.8	0	15	Erosion of natural deposits

Inorganic Contaminants

Results in the Level Detected column for radioactive contaminants, inorganic contaminants, synthetic organic contaminants including pesticides and herbicides, and volatile organic contaminants are the highest average at any of the sampling points or the highest detected level at any sampling point, depending on the sampling frequency.

Contaminant and Unit of Measurement	Date of Sampling (mo/yr)	MCL Violation Y/N	Level Detected	Range of Results	MCLG	MCL	Likely Source of Contamination
Barium (ppm)	02/17	N	0.0094	0.0094	2	2	Discharge of drilling wastes; discharge from metal refineries; erosion of natural deposits
Fluoride (ppm)	02/17	N	0.42	0.42	4	4	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
Nitrate (as Nitrogen) (ppm)	02/17	N	0.17	0.17	10	10	Runoff from fertilizer use; leaching from septic tanks, sewage; erosion of natural deposits
Sodium (ppm)	02/17	N	33.0	33.0	N/A	160	Salt water intrusion, leaching from soil

Stage 1 Disinfectants/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. The range of results is the range of results of all individual samples collected during the past year.

Contaminant and Unit of Measurement	Date of Sampling (mo/yr)	MCL Violation Y/N	Level Detected	Range of Results	MCLG or MRDLG	MCL or MRDL	Likely Source of Contamination
Chlorine (ppm)	01/17-12/17	N	1.186	0.27 - 1.85	MRDLG = 4	MRDL = 4.0	Water additive used to control microbes
Bromate (ppb)	01/17-12/17	N	3.720	1.60 - 15.00	MCLG = 0	MCL = 10	By-product of drinking water disinfection

Stage 2 Disinfectants/Disinfection By-Products

For Haloacetic Acids (HAA5) or Total Trihalomethanes (TTHM), the level detected is the highest detected level at any sampling point. Range of Results is the range of individual sample results (lowest to highest) for all monitoring locations.

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Contaminant and Unit of Measurement	Date 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)	01/17-12/17	N	12.8625 **	6.45 - 13.52	N/A	MCL = 60	By-product of drinking water disinfection
Total Trihalomethanes (TTHM) (ppb)	01/17-12/17	N	74.3658**	31.88 - 88.77	N/A	MCL = 80	By-product of drinking water disinfection

One sample during 2017 (1924 Bridgewater Drive, July) had a TTHM result of 88.77 ppb, which exceeds the MCL of 80 ppb. However, the system did not incur an MCL violation, because all annual average results at all sites were at or below the MCL. Some people who drink water containing trihalomethanes in excess of MCL over many years may experience problems with their liver, kidneys, or central nervous systems, and may have an increased risk of getting cancer.

Lead and Copper (Tap Water)

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Contaminant and Unit of Measurement	Date of Sampling (mo/yr)	AL Violation Y/N	90th Percentile Result	Number of sampling sites exceeding the AL	MCLG	AL	Likely Source of Contamination					
Copper (tap water) (ppm)	07/2017	N	0.27	0	1.3	1.3	Corrosion of household plumbing systems; erosion of natural deposits; leaching from wood preservatives					
Lead (tap water) (ppb)	07/2017	N	3.00	0	0	15	Corrosion of household plumbing systems, erosion of natural deposits					



Drinking Water Quality Report Southeast Service Area 2017



We are pleased to present you this year's Annual 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. The drinking water for the Southeast Service Area is obtained from ground water wells. The water is ozonated, filtered with granular activated carbon and chlorinated for disinfection purposes. We then fluoridate for dental health purposes. If you have any questions about this report or concerning your water utility, please contact Seminole County Environmental Services at 407-665-2110.



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Source Water Assessment Plan

In 2017, the Department of Environmental Protection performed a Source Water Assessment on the City of Altamonte Springs, from whom we purchase your drinking water. The assessment was conducted to provide information about any potential sources of contamination in the vicinity of their wells. The assessment results are available on the FDEP Source Water Assessment and Protection Program website at www.dep.state.fl.us/swapp.

EPA Would Like You to Know

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.
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EVEN HOUSE #'S THURSDAY AND SUNDAY
ODD HOUSE #'S WEDNESDAY AND SATURDAY
NON-RESIDENTIAL TUESDAY AND FRIDAY
RECLAIM CUSTOMERS
TWO DAYS PER WEEK

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Southeast Service Area

WATER QUALITY RESULTS

Southeast Water System - PWS ID# 3590571

Water Quality Testing Results Table

Inorganic Contaminants

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Contaminant and Unit of Measurement	Date of Sampling (mo/yr)	MCL Violation Y/N	Level Detected	Range of Results	MCLG	MCL	Likely Source of Contamination
Arsenic (ppb)	02/17	N	0.13	0.13	0	10	Erosion of natural deposits; runoff from orchards; runoff from glass and electronics production wastes
Barium (ppm)	02/17	N	0.0097	0.0072 - 0.0097	2	2	Discharge of drilling wastes; discharge from metal refineries; erosion of natural deposits
Fluoride (ppm)	02/17	N	0.59	0.55 - 0.59	4	4	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
Nitrate (as Nitrogen) (ppm)	02/17	N	0.3	0.25 - 0.3	10	10	Runoff from fertilizer use; leaching from septic tanks, sewage; erosion of natural deposits
Selenium (ppb)	02/17	N	1.0	1	50	50	Discharge from petroleum and metal refineries; erosion of natural deposits; discharge from mines
Sodium (ppm)	02/17	N	15.0	11.0 - 15.0	NA	160	Salt water intrusion, leaching from soil

Stage 1 Disinfectants/Disinfection By-Products

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Contaminant and Unit of Measurement	Date of Sampling (mo/yr)	MCL Violation Y/N	Level Detected	Range of Results	MCLG or MRDLG	MCL or MRDL	Likely Source of Contamination
Chlorine (ppm)	01/17-12/17	N	1.272	0.30 - 2.38	MRDLG = 4	MRDL = 4.0	Water additive used to control microbes
Bromate (ppb)	01/17-12/17	N	1.00	0 - 12.00	MCLG = 0	MCL = 10	By-product of drinking water disinfection

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Haloacetic Acids (HAA5) (ppb)	01/17-12/17	N	27.3825 **	18.90 - 34.06	NA	MCL = 60	By-product of drinking water disinfection
Total Trihalomethanes (TTHM) (ppb)	01/17-12/17	N	62.9075 **	48.91 - 76.90	NA	MCL = 80	By-product of drinking water disinfection

Lead and Copper (Tap Water) Date of AL 90th Contaminant and Unit of Sampling Violation Percentile sampling sites MCLG AL Likely Source of Contamination Measurement (mo/yr) Y/N Result exceeding the AL Corrosion of household plumbing systems; erosion of 07/2017 1.3 1.3 Copper (tap water) (ppm) N 0.2 0 natural deposits; leaching from wood preservatives Corrosion of household plumbing systems, erosion of Lead (tap water) (ppb) 07/2017 5.40 0 15 1 natural deposits



Drinking Water Quality Report-Southwest Service Area 2017



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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. **"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 (m g/l): one part by weight of analyte to 1 million parts by weight of the water sample.

Picocurie per liter (pCi/L): measure of the radioactivity in water.



Southwest Service Area

WATER QUALITY RESULTS

Southwest Water System - PWS ID# 3590785

Water Quality Testing Results Table

Inorganic Contaminants

Results in the Level Detected column for radioactive contaminants, inorganic contaminants, synthetic organic contaminants including pesticides and herbicides, and volatile organic contaminants are the highest average at any of the sampling points or the highest detected level at any sampling point, depending on the sampling frequency.

Contaminant and Unit of Measurement	Date of Sampling (mo/yr)	MCL Violation Y/N	Level Detected	Range of Results	MCLG	MCL	Likely Source of Contamination
Barium (ppm)	02/17	N	0.0091	0.0091	2	2	Discharge of drilling wastes; discharge from metal refineries; erosion of natural deposits
Fluoride (ppm)	02/17	N	0.65	0.65	4	4	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
Sodium (ppm)	02/17	N	8.6	8.6	N/A	160	Salt water intrusion, leaching from soil

Stage 2 Disinfectant/Disinfection By-Products

- * For Bromate and Chlorine, the level detected is the highest running annual average (RAA), computed quarterly, of monthly averages of all samples collected. The Range of Results is range of results of all the individual samples collected during the past year.

 * For Haloacetic Acids (HAAS) or Total Trihalomethanes (TTHM), the level detected is the highest detected level at any sampling point. Range of Results is the range of individual sample results (lowest to highest) for all monitoring locations.

 ** For Haloacetic Acids (HAAS) or Total Trihalomethanes (TTHM), the level detected is the highest locational running annual average (LRAA). Range of Results is the range of individual samples results (lowest to highest) for all monitoring locations.

Contaminant and Unit of Measurement	Date of Sampling (mo/yr)	MCL Violation Y/N	Level Detected	Range of Results	MCLG or MRDLG	MCL or MRDL	Likely Source of Contamination
Chlorine (ppm)	01/17-12/17	N	1.664*	0.62 - 2.72	MRDLG = 4	MRDL = 4.0	Water additive used to control microbes
Haloacetic Acids (HAA5) (ppb)	01/17	N	11.47 *	9.50 - 11.47	N/A	MCL = 60	By-product of drinking water disinfection
Total Trihalomethanes (TTHM) (ppb)	01/17	N	32.26 *	30.23 - 32.36	N/A	MCL = 80	By-product of drinking water disinfection

Lead and Copper (Tap Water)

Contaminant and Unit of Measurement	Date of Sampling (mo/yr)	AL Violation Y/N	90th Percentile Result	Number of sampling sites exceeding the AL	MCLG	AL	Likely Source of Contamination
Copper (tap water) (ppm)	07/2017	N	0.45	0	1.3	1.3	Corrosion of household plumbing systems; erosion of natural deposits; leaching from wood preservatives
Lead (tap water) (ppb)	07/2017	N	2.10	1	0	15	Corrosion of household plumbing systems, erosion of natural deposits



Drinking Water Quality Report-Sun Shadows Consecutive Service Area 2017



We are pleased to present you this year's Annual 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. The drinking water for the Sun Shadows Consecutive Service Area is obtained from ground water wells and is chlorinated for disinfection purposes. If you have any questions about this report or concerning your water utility, please contact Seminole County Environmental Services at 407-665-2110.



Seminole County Environmental Services Department 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, 2017. Data obtained before January 1, 2017, and presented in this report are from the most recent testing done in accordance with the laws, rules and regulations.

Source Water Assessment Plan

In 2017, the Department of Environmental Protection performed a Source Water Assessment on the City of Altamonte Springs, from whom we purchase your drinking water. The assessment was conducted to provide information about any potential sources of contamination in the vicinity of their wells. The assessment results are available on the FDEP Source Water Assessment and Protection Program website at www.dep.state.fl.us/swapp.

EPA Would Like You to Know

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 storm water 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 storm water 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 storm water 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.



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).

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. Seminole County Environmental Services 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.









Terms and Abbreviations

sample.

Action Level (AL): The concentration of a 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 risk to health. MCLGs allow for a margin of safety.

Maximum residual disinfectant 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. "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 1 million parts by weight of the water

Picocurie per liter (pCi/L): measure of the radioactivity in water.



Sunshadows Service Area

WATER QUALITY RESULTS

Sun Shadows Consecutive Water System - PWS ID# 3594216 **Radioactive Contaminants** Results in the Level Detected column for radioactive contaminants, inorganic contaminants, synthetic organic contaminants including pesticides and herbicides, and volatile organic contaminants are the highest average at any of the sampling points or the highest detected level at any sampling point, depending on the sampling frequency. Date of MCL Contaminant and Unit of Sampling Violation Level Detected Range of Results MCIG MCI Likely Source of Contamination Measurement (mo/yr) Y/N Alpha Emitters (pCi/L) 05/14 N 2.5 1.0 - 2.5 0 15 **Erosion of natural deposits** City of Casselberry Radium 226 + 228 or combined radium (pCi/L) 05/14 N 2.5 0.6 - 2.5 0 5 Erosion of natural deposits City of Casselberry **Inorganic Contaminants** Date of MCL Contaminant and Unit of Violation Level Detected Range of Results MCLG MCL Sampling **Likely Source of Contamination** Measurement (mo/yr) Y/N Barium (ppm) Discharge of drilling wastes; discharge from metal refineries; 05/17 N 0.017 0.009 - 0.017 2 2 City of Casselberry erosion of natural deposits Erosion of natural deposits: discharge from fertilizer and Fluoride (ppm) 0.27 - 0.29 4 aluminum factories. Water additive which promotes strong 05/17 Ν 0.29 4 teeth when at optimum level of 0.7 ppm Nitrate (as Nitrogen) Runoff from fertilizer use; leaching from septic tanks, sewage; 05/17 Ν 0.29 ND - 0.29 10 10 erosion of natural deposits City of Casselberry Sodium (ppm) Salt water intrusion, leaching from soil N 8.9 - 13.0 City of Casselberry Stage 2 Disinfectants/Disinfection By-Products * For Bromate and Chlorine, the level detected is the highest running annual average (RAA), computed quarerly, of monthly averages of all samples collected. The Range of Results is the range of results of all the individual samples collected during the past year. ** For Haloacetic Acids (HAAS) or Total Trihalomethanes (TTHM), the level detected is the highest detected level at any sampling point. Range of Results is the range of individual sample results (lowest to highest) for all monitoring locations. *** For Haloacetic Acids (HAAS) or Total Trihalomethanes (TTHM), the level detected is the highest locational running annual average (LRAA). Range of Results is the range of individual samples results (lowest to highest for all monitoring locations. Date of MCL Contaminant and Unit of MCLG or Sampling Violation Level Detected Range of Results MCL or MRDL **Likely Source of Contamination** MRDLG Measurement (mo/yr) Y/N Chlorine (ppm) 0.71 - 1.83 MRDLG = 4 MRDL = 4.0 1.268 Water additive used to control microbes Seminole County 01/17 - 12/17 N N 1.05 0.23 - 1.91 City of Casselberry 01/17 - 12/17 Haloacetic Acids (five) (HAA5) (ppb) MCL = 60 NA By-product of drinking water disinfection 25.49 - 30.72 08/17 - 11/17 Seminole County 32.10 *** 02/17 - 11/17 16.45 - 30.58 City of Casselberry **Total Trihalomethanes** (TTHM) (ppb) NA MCL = 80 By-product of drinking water disinfection 22.00 - 81.43** 66.30 *** 29.37 - 83.68 City of Casselberry 02/17 - 11/17 One sample during 2017 annual collection (Sunbranch Ln @ HWY 17-92, August) had a TTHM result of 81.43 ppb, which exceeds the MCL of 80 ppb. However, the system did not incur an MCL violation, because all annual average results at all sites were at or below the MCL. Some people who drink water containing trihalomethanes in excess of MCL over many years may experience problems with their liver, kidneys, or central nervous systems, and may have an increased risk of getting cancer.

Lead and Copper (Tap Water)									
Contaminant and Unit of Measurement	Sampling			Number of sampling sites exceeding the AL	MCLG	AL	Likely Source of Contamination		
Copper (tap water) (ppm)	07/15	N	0.32	0	1.3	1.3	Corrosion of household plumbing systems; erosion of natural deposits; leaching from wood preservatives		