

Seminole County Annual Drinking Water Quality Report 2015



Seminole County Environmental Services is pleased to present you with the 2015 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. 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 proud to share this report which is based on water quality testing through December 2015; you will find that we supply water that meets or exceeds all federal and state water quality regulations.

Our Water Quality Report format has been changed and our now being offered 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 Williams

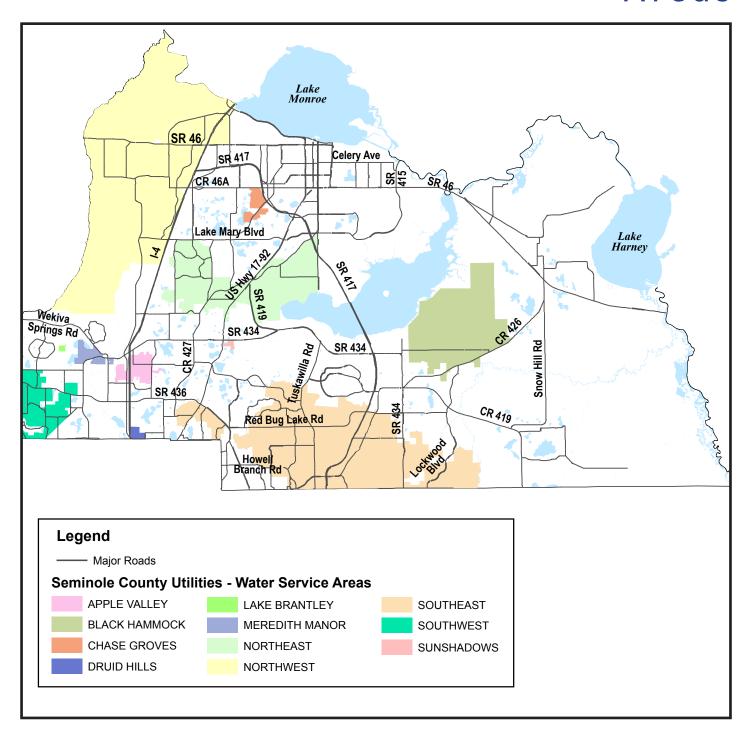
Chief Compliance Operator

Water Operations

Seminole County Environmental Services



Map of Water Service Areas





Drinking Water Quality Report-Apple Valley Service Area 2015



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 Apple Valley 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, 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.

Source Water Assessment Plan

In 2015 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 stormwater runoff, industrial or domestic wastewater discharges, oil and gas production, mining, or farming.
- **(C)** Pesticides and herbicides, which may come from a variety of sources such as agriculture, urban stormwater runoff, and residential uses.
- **(D)** Organic chemical contaminants, including synthetic and volatile organic chemicals, which are by-products of industrial processes and petroleum production, and can also come from gas stations, urban stormwater runoff, and septic systems.
- **(E)** Radioactive contaminants, which can be naturally occurring or be the result of oil and gas production and mining activities.

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



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 for Next Page:

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



Apple Valley Service Area

WATER QUALITY RESULTS

	Apple Valley Water System										
				Inorganic Conta	aminants						
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)	03/14	N	0.0071	0.0070-0.0071	2	2	Discharge of drilling wastes; discharge from metal refineries; erosion of natural deposits				
Fluoride (ppm)	03/14	N	0.74	0.67-0.74	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				
Lead (point of entry) (ppb)	03/14	N	0.35	0.22-0.35	NA	15	Residue from man-made pollution such as auto emissions and paint; lead pipe, casing, and solder				
Nickel (ppb)	03/14	N	0.89	0.78-0.89	NA	100	Pollution from mining and refining operations; Natural occurrence in soil				
Nitrate (as Nitrogen) (ppm)	2/15	N	0.051	0.051	10	10	Runoff from fertilizer use; leaching from septic tanks, sewage; erosion of natural deposits				
Nitrite (as Nitrogen) (ppm)	2/15	N	0.053	0.053	1	1	Runoff from fertilizer use; leaching from septic tanks, sewage; erosion of natural deposits				
Selenium (ppb)	03/14	N	2.37	1.21-2.37	50	50	Discharge from petroleum and metal refineries, erosion of natural deposits; discharge from mines				
Sodium (ppm)	03/14	N	12	9.0-12.0	N/A	160	Salt water intrusion, leaching from soil				
Thallium (ppb)	03/14	N	0.42	ND-0.42	0.5	2	Leaching from ore-processing sites, discharge from electronics, glass and drug factories				
			Synthetic Organi	c Contaminants inclu	ding Pesticide	s and Herbecid					
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				
Dalapon (ppb)	03/14	N	1.2	ND-1.2	200	200	Runoff from herbecide used on rights of way				
Di(2-ethylhexyl)phthalate (ppb)	03/14	N	0.44	ND-0.44	0	6	Discharge from rubber and chemical factories				
			Stag	e 2 Disinfectant/Disir	nfection By-Pro	oduct					
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)	2015	N	0.61 (annual average)	0.2-1.02	MRDLG = 4	MRDL = 4.0	Water additive used to control microbes				
Haloacetic Acids (five) (HAA5) (ppb)	7/15	N	26.12	25.94-26.12	NA	MCL = 60	By-product of drinking water disinfection				
TTHM [Total trihalomethanes] (ppb)	7/15	N	58.58	24.88-58.58	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)	7/15	N	0.18	0	1.3	1.3	Corrosion of household plumbing systems; erosion of natural deposits; leaching from wood preservatives				
Lead (tap water) (ppb)	7/15	N	0.61	0	0	15	Corrosion of household plumbing systems, erosion of natural deposits				

The Third Unregulated Contaminant Monitoring Rule (UCMR3)

Purpose: To collect occurrence data for contaminants suspected to be present in drinking water but that do not have health-based standards set under the Safe Drinking Water Act (SDWA). Southeast Regional Water Treatment Plant has been monitoring these unregulated contaminants as part of a study to help the US Environmental Protection Agency determine whether or not these contaminants need to be regulated. The UCMR program is the primary source of drinking water contaminant occurence data used by EPA in regulatory determinations. If you would like more information on the EPA's Unregulated Contaminants Monitoring Rule, please call the Safe Drinking Water Hotline at (800) 426-4791

Contaminant and Unit of Measurement	Maximum Level	Average Level	Range of Results	Likely Source of Contamination
Molybdenum (ppb)	4.4	2.8	1.1 - 4.4	Naturally-occuring element, used in making steel and other alloys; chromium-3 or -6 forms are used for chrome plating, dyes and pigments, leather tanning, and wood preservation
Strontium (ppb)	96	88.5	81 - 96	Agricultural defoliant or desiccant; disinfection byproduct; and used in production of chlorine dioxide
Hexavalent Chromium (ppb)	0.03	ND	ND-0.03	Naturally-occuring element, found in ores and present in plants, animals and bacteria; commonly used form molybdenum trioxide used as a chemical reagent
Chlorate (ppb)	380	308	250 - 380	Cylic alipathic ether; used as a solvent or solvent stabilizer in manufacture and processing of paper, cotton, textile products, automotive coolant, cosmetics and shampoos



Drinking Water Quality Report-Black Hammock Service Area 2015

Service Area 2015

We are pleased to present you this year's Annual Water Quality Report. This report is designed to inform you about the

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 and 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

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County Environmental Services at 407-665-2110.

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Black Hammock Service Area

			Black I	Hammock W	ater Sys	stem	
			M	licrobiological Cor	ntaminants		
Contaminant and Unit of Measurement	Date of Sampling (mo/yr)	MCL Violation Y/N	Highest Monthly Percentage / Number	MCLG	М	CL	Likely Source of Contamination
Total Coliform Bacteria	01/15-12/15	N	0	0	at least 40 s month: pr coliform ba	as collecting samples per resence of acteria in 5% by samples	Naturally present in the environment
				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)	03/14	N	0.013	0.013	2	2	Discharge of drilling wastes; discharge from metal refineries; erosion of natural deposits
Fluoride (ppm)	03/14	N	0.13	0.13	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)	03/14	N	38.0	38	NA	160	Salt water intrusion, leaching from soil
Nitrate (as Nitrogen) (ppm)	08/15	N	0.14	0.14	10	10	Runoff from fertilizer use; leaching from septic tanks, sewage; erosion of natural deposits
			Stage 1	L Disinfectant/Disinfe	ction By-Prod	uct	
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)	01/15-12/15	N	2.33 (Average)	1.2-3.4	MRDLG = 4	MRDL = 4.0	Water additive used to control microbes
			Stage 2	2 Disinfectant/Disinfe	ction By-Prod	uct	
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)	8/14/15	N	16.91	15.59-16.91	NA	MCL = 60	By-product of drinking water disinfection
TTHM [Total trihalomethanes] (ppb)	8/14/15	N	20.05	17.36-20.05	NA	MCL = 80	By-product of drinking water disinfection
				Lead 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)	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)	09/15	N	3	0	0	15	Corrosion of household plumbing systems, erosion of natural deposits
Southeast Regional Water T these contaminants need to	reatment Plant be regulated.	has been monito The UCMR progra	ected to be present ring these unregula Im is the primary sou	ted contaminants as purce of drinking wate	that do not ha part of a study r contaminant	ave health-base to help the US occurence data	ed standards set under the Safe Drinking Water Act (SDWA). Environmental Protection Agency determine whether or not used by EPA in regulatory determinations. If you would like
	nore information Date of	on on the EPA's U	nregulated Contami	nants Monitoring Rul	e, please call t	në Safë Drinkir	ng Water Hotline at (800) 426-4791
Contaminant and Unit of Measurement	Sampling (mo/yr)	Level Dectected	Range of Results			Likely Sou	rce of Contamination
Chromium-6 (ppb)	11/14/13	0.21	0.21-0.25		-	-	teel and other alloys; chromium-3 or -6 forms are used for nts, leather tanning, and wood preservation
Chlorate (ppb)	11/14/13	505	499-505				on byproduct; and used in production of chlorine dioxide
Strontium (ppb)	11/14/13	216	207-216	Naturally-occuring		•	resent in plants, animals and bacteria; commonly used form ide used as a chemical reagent



Drinking Water Quality Report-Chase Groves Consecutive Service Area 2015



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 Chase Groves Consecutive Service Area is obtained from ground water wells and 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.

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EPA Would Like You to Know

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Chase Groves Service Area

		VV /\		e Groves Wa			7 3
			Cilasi	Radioactive Contain		CIII	
	Date of			Radioactive Contai	minants		
Contaminant and Unit of Measurement	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)	2015	N	1.9	0-1.90	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)	06/14	N	0.017	0.010-0.017	2	2	Discharge of drilling wastes; discharge from metal refineries; erosion of natural deposits
Fluoride (ppm)	06/14	N	0.75	0.63-0.75	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)	05/15	N	0.27	0.21-0.27	10	10	Runoff from fertilizer use; leaching from septic tanks, sewage; erosion of natural deposits
Sodium (ppm)	06/14	N	26	20.7-26.0	N/A	160	Salt water intrusion, leaching from soil
			Stage 1	Disinfectant/Disinfe	ction By-Produ	icts	
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)	1/15-12/15	N	3	0-18.0	MCLG = 0	MCL = 10	By-product of drinking water disinfection
			Stage 2	2 Disinfectant/Disinfe	ction By-Prod	uct	
Chlorine (ppm)	2015	N	1.08	0.23-1.90	MRDLG = 4	MRDL = 4.0	Water additive used to control microbes
Haloacetic Acids (five) (HAA5) (ppb)	01/15-12/15	N	23.207	12.32-32.98	NA	MCL = 60	By-product of drinking water disinfection
TTHM [Total trihalomethanes] (ppb)	01/15-12/15	N	73.437	40.54-103.25	NA	MCL = 80	By-product of drinking water disinfection
				Lead 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)	8/2014	N	0.12	1	1.3	1.3	Corrosion of household plumbing systems; erosion of natural deposits; leaching from wood preservatives
Lead (tap water) (ppb)	8/2014	N	1.30	0	0	15	Corrosion of household plumbing systems, erosion of natural deposits
			The Third Unreg	gulated Contaminant	Monitoring Ru	le (UCMR3)	
Southeast Regional Water T these contaminants need to	reatment Plant o be regulated.	has been monito The UCMR progra	oring these unregula am is the primary so	ited contaminants as urce of drinking wate	part of a study r contaminant	to help the US occurence data	ed standards set under the Safe Drinking Water Act (SDWA). Environmental Protection Agency determine whether or not a used by EPA in regulatory determinations. If you would like ng Water Hotline at (800) 426-4791
Contaminant and Unit of Measurement	Date of Sampling (mo/yr)	Average Level Dectected	Range of Results			Likely Sou	urce of Contamination
Chromium (ppb)	03/13-09/13	0.29	0.25-0.39			Naturally-occu	ring element found in soil
Molybdenum (ppb)	03/13-09/13	9.4	0.34-11.7	Naturally-occuring			resent in plants, animals and bacteria; commonly used form tide used as a chemical reagent
Strontium (ppb)	03/13-09/13	248	219-280	Naturally-occuring			mercial use of strontium has been in the faceplate glass of evisions to block x-ray emissions
Vanadium (ppb)	03/13-09/13	0.23	0.17-0.27	Naturally-occurin	g elemental m	etal; used as v	anadium pentoxide which is a chemical intermediate and a catalyst.
Chromium (Hexavalent) (ppb)	03/13-09/13	0.03	0.010-0.047			Naturally-occu	ring element found in soil
Chlorate (ppb)	03/13-09/13	268	21.5-597	Agricultural def	oliant or desic	cant; disinfecti	on byproduct; and used in production of chlorine dioxide
1,4 Dioxane (ppb)	03/13-09/13	0.41	0-0.41	Cylic alipathic ethe			nt stabilizer in manufacture and processing of paper, cotton, tive coolant, cosmetics and shampoos



Drinking Water Quality Report-Druid Hills Consecutive Service Area 2015



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.

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, 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.

Source Water Assessment Plan

In 2015 the Department of Environmental Protection performed a Source Water Assessment on our system. The assessment was conducted to provide information about any potential sources of contamination in the vicinity of our wells. There are no (0) potential sources of contamination identified for this system. 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 stormwater runoff, industrial or domestic wastewater discharges, oil and gas production, mining, or farming.
- **(C)** Pesticides and herbicides, which may come from a variety of sources such as agriculture, urban stormwater runoff, and residential uses.
- (D) Organic chemical contaminants, including synthetic and volatile organic chemicals, which are by-products of industrial processes and petroleum production, and can also come from gas stations, urban stormwater runoff, and septic systems.
- **(E)** Radioactive contaminants, which can be naturally occurring or be the result of oil and gas production and mining activities.

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

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 **http://www.epa.gov/safewater/lead.**









Terms and Abbreviations for Next Page:

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



Druid Hills Service Area

			Dr	uid Hills Wa	ater Syst	tem				
				Radioactive Cor	ntaminants					
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			
Alpha emitters (pCi/L)	7/15	N	2.5	2.5	0	15	Erosion of natural deposits			
Radium 226 + 228 or combined radium (pCi/L)	7/15	N	1.7	0.8-0.9	0	5	Erosion of natural deposits			
Inorganic Contaminants										
Contaminant and Unit of Measurement (mo/yr) Y/N Level Detected Range of Results MCLG MCL Likely Source of Contamination										
Arsenic (ppb)	7/15	N	0.39	0.39	N/A	10	Erosion of natural deposits; runoff from orchards; runoff from glass and electronics production wastes			
Barium (ppm)	7/15	N	0.0048	0.0048	2	2	Discharge of drilling wastes; discharge from metal refineries erosion of natural deposits			
Fluoride (ppm)	7/15	N	0.24	0.24	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)	2/15	N	0.051	0.051	10	10	Runoff from fertilizer use; leaching from septic tanks, sewage; erosion of natural deposits			
Nitrite (as Nitrogen) (ppm)	2/15	N	0.0530	0.0530	1	1	Runoff from fertilizer use; leaching from septic tanks, sewage; erosion of natural deposits			
Nickel (ppb)	7/15	N	2.9	2.9	N/A	100	Pollution from mining and refining operations; Natural occurrence in soil			
Selenium (ppb)	7/15	N	2.90	2.9	50	50	Discharge from petroleum and metal refineries, erosion of natural deposits; discharge from mines			
Sodium (ppm)	7/15	N	15	15	N/A	160	Salt water intrusion, leaching from soil			
			Stag	ge 2 Disinfectant/Disi	nfection By-Pr	oduct				
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)	2015	N	0.91 (annual average)	0.48-1.69	MRDLG = 4	MRDL = 4.0	Water additive used to control microbes			
Haloacetic Acids (five) (HAA5) (ppb)	7/15	N	-	21.94-26.96	N/A	MCL = 60	By-product of drinking water disinfection			
TTHM [Total trihalomethanes] (ppb)	7/15	N	-	47.18-81.32	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)	7/15	N	0.3	0	1.3	1.3	Corrosion of household plumbing systems; erosion of natural deposits; leaching from wood preservatives			
Lead (tap water) (ppb)	7/15	N	0.61	0	0	15	Corrosion of household plumbing systems, erosion of natural deposits			



Drinking Water Quality Report-Lake Brantley Consecutive Service Area 2015



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 Lake Brantley 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, 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.

Source Water Assessment Plan

In 2015 the Department of Environmental Protection performed a Source Water Assessment on Sanlando Utilities, 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 **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 stormwater runoff, industrial or domestic wastewater discharges, oil and gas production, mining, or farming.
- **(C)** Pesticides and herbicides, which may come from a variety of sources such as agriculture, urban stormwater runoff, and residential uses.
- **(D)** Organic chemical contaminants, including synthetic and volatile organic chemicals, which are by-products of industrial processes and petroleum production, and can also come from gas stations, urban stormwater runoff, and septic systems.
- **(E)** Radioactive contaminants, which can be naturally occurring or be the result of oil and gas production and mining activities.

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



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 for Next Page:

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



Lake Brantley Service Area

	Lake Brantley Water System										
				Radioactive Contai	minants						
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				
Alpha emitters (pCi/L)	03/14	N	2	1.1-2.0	0	15	Erosion of natural deposits				
Radium 226 + 228 or combined radium (pCi/L)	03/14	N	3.2	0.8 - 3.2	0	5	Erosion of natural deposits				
				Inorganic Contarr	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)	3/14	N	0.0391	0.0056-0.0391	2	2	Discharge of drilling wastes; discharge from metal refineries; erosion of natural deposits				
Fluoride (ppm)	3/14	N	0.201	0-0.201	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)	3/14	N	14.9	8.82-14.9	N/A	160	Salt water intrusion, leaching from soil				
			Stage :	2 Disinfectant/Disinfe	ection By-Prod	uct					
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)	2015	N	1.54	0.30-2.66	MRDLG = 4	MRDL = 4.0	Water additive used to control microbes				
Haloacetic Acids (five) (HAA5) (ppb)	7/2015	N	18.70	18.70	N/A	MCL = 60	By-product of drinking water disinfection				
TTHM [Total trihalomethanes] (ppb)	7/2015	N	48.13	48.13	N/A	MCL = 80	By-product of drinking water disinfection				
				Lead 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)	8/15	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)	8/15	N	2.1	0	0	15	Corrosion of household plumbing systems, erosion of natural deposits				



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Drinking Water Quality Report-Meredith Manor Service Area 2015 Service Area Map

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We are committed to ensuring the quality of your water. The drinking water for the Meredith Manor 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, 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.

Source Water Assessment Plan

In 2015 the Department of Environmental Protection performed a Source Water Assessment on Sanlando Utilities, 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 stormwater runoff, industrial or domestic wastewater discharges, oil and gas production, mining, or farming.
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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 for Next Page:

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.

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Meredith Manor Service Area

	Meredith Manor Water System										
				Radioactive Co	ntaminants						
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				
Alpha emitters (pCi/L)	03/14	N	2	1.1-2.0	0	15	Erosion of natural deposits				
Radium 226 + 228 or combined radium (pCi/L)	03/14	N	3.2	0.8 - 3.2	0	5	Erosion of natural deposits				
				Inorganic Cor	taminants						
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)	3/14	N	0.0391	0.0056-0.0391	2	2	Discharge of drilling wastes; discharge from metal refineries; erosion of natural deposits				
Fluoride (ppm)	3/14	N	0.201	0-0.201	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)	3/14	N	14.9	8.82-14.9	N/A	160	Salt water intrusion, leaching from soil				
			Stag	ge 2 Disinfectant/Dis	sinfection By-F	Product					
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)	2015	N	1.81(annual average)	0.80-20.82	MRDLG = 4	MRDL = 4.0	Water additive used to control microbes				
Haloacetic Acids (five) (HAA5) (ppb)	7/15	N	20.98	11.36-20.98	NA	MCL = 60	By-product of drinking water disinfection				
TTHM [Total trihalomethanes] (ppb)	7/15	N	35.29	24.38-35.29	NA	MCL = 80	By-product of drinking water disinfection				
				Lead and Coppe	r (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)	8/15	N	0.19	0	1.3	1.3	Corrosion of household plumbing systems; erosion of natural deposits; leaching from wood preservatives				
Lead (tap water) (ppb)	8/15	N	0.61	0	0	15	Corrosion of household plumbing systems, erosion of natural deposits				



Drinking Water Quality Report-Northeast Service Area 2015



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 Northeast Service Area is obtained from ground water wells and 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, 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.

Source Water Assessment Plan

In 2015 the Department of Environmental Protection performed a Source Water Assessment on our system. The assessment was conducted to provide information about any potential sources of contamination in the vicinity of our wells. There are no (0) potential sources of contamination identified for this system. 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 stormwate runoff, industrial or domestic wastewater discharges, oil and gas production, mining, or farming.
- **(C)** Pesticides and herbicides, which may come from a variety of sources such as agriculture, urban stormwater runoff, and residential uses.
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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.



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



Northeast Service Area

			No	ortheast Wat	ter Syste	em	
				Radioactive Con	taminants		
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
Alpha emitters (pCi/L)	02/14	N	2.69	0.958-2.69	o	15	Erosion of natural deposits
Radium 226 + 228 or combined radium (pCi/L)	02/14	N	1.49	1.45-1.49	0	5	Erosion of natural deposits
				Inorganic Conta	minants		
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)	02/14	N	0.5	0-0.50	0	10	Erosion of natural deposits; runoff from orchards; runoff from glass and electronics production wastes
Barium (ppm)	02/14	N	0.0092	0.0080-0.0092	2	2	Discharge of drilling wastes; discharge from metal refineries; erosion of natural deposits
Fluoride (ppm)	02/14	N	1.7	0.15-1.7	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)	02/15	N	0.095	0.083-0.095	10	10	Runoff from fertilizer use; leaching from septic tanks, sewage; erosion of natural deposits
Nitrite (as Nitrogen) (ppm)	02/15	N	0.053	0.053	1	1	Runoff from fertilizer use; leaching from septic tanks, sewage; erosion of natural deposits
Sodium (ppm)	02/14	N	16.1	14.7-16.1	N/A	160	Salt water intrusion, leaching from soil
			Synthetic Organi	c Contaminants inclu	ding Pesticide	s and Herbecide	es
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
Dalapon (ppb)	2/14-1/15	N	1.15	1.0-1.6	200	200	Runoff from herbecide used on rights of way
			Stage	e 2 Disinfectant/Disin	fection By-Pro	duct	
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)	1/15-12/15	N	1.306 (annual average)	0.35-2.21	MRDLG=4	MRDL=4	Water additive used to control microbes
Haloacetic Acids (five) (HAA5) (ppb)	1/15-12/15	N	21.57	8.49-26.71	NA	MCL = 60	By-product of drinking water disinfection
TTHM [Total Trihalomethanes] (ppb)	1/15-12/15	N	34.025	7.74-39.31	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)	08/14	N	1	2	1.3	1.3	Corrosion of household plumbing systems; erosion of natural deposits; leaching from wood preservatives
Lead (tap water) (ppb)	08/14	N	3.5	0	0	15	Corrosion of household plumbing systems, erosion of natural deposits



Drinking Water Quality Report-Northwest Service Area 2015



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 and 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, 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.

Source Water Assessment Plan

In 2015 the Department of Environmental Protection performed a Source Water Assessment on our system. The assessment was conducted to provide information about any potential sources of contamination in the vicinity of our wells. There are four (4) potential sources of contamination identified for this system with low or moderate susceptibility levels. 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 stormwater runoff, industrial or domestic wastewater discharges, oil and gas production, mining, or farming.
- **(C)** Pesticides and herbicides, which may come from a variety of sources such as agriculture, urban stormwater runoff, and residential uses.
- **(D)** Organic chemical contaminants, including synthetic and volatile organic chemicals, which are by-products of industrial processes and petroleum production, and can also come from gas stations, urban stormwater runoff, and septic systems.
- **(E)** Radioactive contaminants, which can be naturally occurring or be the result of oil and gas production and mining activities.

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



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 for Next Page:

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 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.

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Northwest Service Area

			Nor	thwest V	Vater S	ystem					
				Radioactive	Contaminar	its					
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				
Alpha emitters (pCi/L)	02/14	N	2.84	2.65-2.84	0	15	Erosion of natural deposits				
Radium 226 + 228 or combined radium (pCi/L)	02/14	N	1.61	1.396-1.61	0	5	Erosion of natural deposits				
Inorganic Contaminants											
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)	02/14	N	0.5	0.5	0	10	Erosion of natural deposits; runoff from orchards; runoff from glass and electronics production wastes				
Barium (ppm)	02/14	N	0.011	0.0078-0.011	2	2	Discharge of drilling wastes; discharge from metal refineries; erosion of natural deposits				
Fluoride (ppm)	02/14	N	0.12	0.088-0.12	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				
Lead (point of entry) (ppb)	02/14	N	0.5	0.5	MCLG = 0	15	Residue from man-made pollution such as auto emissions and paint; lead pipe, casing, and solder				
Nickel (ppb)	02/14	N	2.5	2.5	N/A	100	Pollution from mining and refining operations. Natural occurrence in soil				
Nitrate (as Nitrogen) (ppm)	01/15	N	0.051	0.051	10	10	Runoff from fertilizer use; leaching from septic tanks, sewage; erosion of natural deposits				
Nitrite (as Nitrogen) (ppm)	01/15	N	0.053	0.053	1	1	Runoff from fertilizer use; leaching from septic tanks, sewage; erosion of natural deposits				
Selenium (ppb)	02/14	N	0.5	0.005	50	50	Discharge from petroleum and metal refineries; erosion of natural deposits; discharge from mines				
Sodium (ppm)	02/14	N	24.5	17.4-24.5	N/A	160	Salt water intrusion, leaching from soil				
			Stage 1	L Disinfectant/I	Disinfection	By-Products					
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)	1/15-12/15	N	0.96 (annual average)	0.25-1.82	MRDLG = 4	MRDL = 4.0	Water additive used to control microbes				
Bromate (ppb)	1/15-12/15	N	2.73 (annual average)	0-22.00	MCLG = 0	MCL = 10	By-product of drinking water disinfection				
			Stage 2	2 Disinfectant/I	Disinfection	By-Products					
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)	1/15-12/15	N	22.86	9.57-31.77	N/A	MCL = 60	By-product of drinking water disinfection				
TTHM [Total trihalomethanes] (ppb)	1/15-12/15	N	76.418	46.38-99.13	N/A	MCL = 80	By-product of drinking water disinfection				



Northwest Service Area (cont'd)

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)	08/14	N	0.48	0	1.3	1.3	Corrosion of household plumbing systems; erosion of natural deposits; leaching from wood preservatives			
Lead (tap water) (ppb)	08/14	N	1.4	0	0	15	Corrosion of household plumbing systems, erosion of natural deposits			

Stage 2 Disinfectant/Disinfection By-Product Extension Notice:

In 2013 the Environmental Protection Agency (EPA) extended the compliance date for the Stage 2 Disinfectants and Disinfection Byproducts Rule (DPBR) for the Seminole County Southeast service area from October 1, 2013, to April 1, 2015, due to on-going capital improvements at the Markham Regional Water Treatment Facility. We are currently conducting quarterly monitoring at the required Stage 2 DBP locations and reporting our results as a system-wide running annual average (RAA) instead of a location specific running annual average (RAA), as required by the Stage 2 DPBR. Once the extension period is over, we will continue to conduct quarterly monitoring at the required Stage 2 DBP locations and begin reporting our results as a location specific RAA.



Drinking Water Quality Report-Southeast Service Area 2015



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.

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, 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.

Source Water Assessment Plan

In 2015 the Department of Environmental Protection performed a Source Water Assessment on our system. The assessment was conducted to provide information about any potential sources of contamination in the vicinity of our wells. There are no (0) potential sources of contamination identified for this system. 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 stormwater runoff, industrial or domestic wastewater discharges, oil and gas production, mining, or farming.
- **(C)** Pesticides and herbicides, which may come from a variety of sources such as agriculture, urban stormwater runoff, and residential uses.
- **(D)** Organic chemical contaminants, including synthetic and volatile organic chemicals, which are by-products of industrial processes and petroleum production, and can also come from gas stations, urban stormwater runoff, and septic systems.
- **(E)** Radioactive contaminants, which can be naturally occurring or be the result of oil and gas production and mining activities.

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



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 for Next Page:

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.

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



Southeast Service Area

			Sc	outheast Wa	ter Syste	em						
				Radioactive Con	taminants							
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					
Alpha emitters (pCi/L)	02/14	N	2.74	2.24-274	0	15	Erosion of natural deposits					
Radium 226 + 228 or combined radium (pCi/L)	02/14	N	1.575	1.221-1.575	0	5	Erosion of natural deposits					
(4-7-7-				Inorganic Conta	minants							
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)	02/14	N	0.5	0.5	0	10	Erosion of natural deposits; runoff from orchards; runoff from glass and electronics production wastes					
Barium (ppm)	02/14	N	0.0097	0.0066-0.0097	2	2	Discharge of drilling wastes; discharge from metal refineries erosion of natural deposits					
Fluoride (ppm)	02/14	N	0.96	0.18-0.96	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)	2/15	N	0.10	0.051-0.10	10	10	Runoff from fertilizer use; leaching from septic tanks, sewage; erosion of natural deposits					
Nitrite (as Nitrogen) (ppm)	2/15	N	0.053	0.053	1	1	Runoff from fertilizer use; leaching from septic tanks, sewage; erosion of natural deposits					
Selenium (ppb)	02/14	N	0.5	0.50	50	50	Discharge from petroleum and metal refineries; erosion of natural deposits; discharge from mines					
Sodium (ppm)	02/14	N	12.3	11.3-12.3	NA	160	Salt water intrusion, leaching from soil					
			Synthetic Organi	c Contaminants inclu	ding Pesticide	and Herbecide	25					
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					
Dalapon (ppb)	2/14-1/15	N	1.15	1.0-1.6	200	200	Runoff from herbecide used on rights of way					
Di(2-ethylhexyl)phthalate (ppb)	2/14-1/15	N	1.5	1.5	0	6	Discharge from rubber and chemical factories					
Stage 1 Disinfectant/Disinfection By-Products												
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)	1/15-12/15	N	1.49 (annual average)	0.20-2.29	MRDLG = 4	MRDL = 4.0	Water additive used to control microbes					
Bromate (ppb)	1/15-12/15	N	1.33	0-12.00	MCLG = 0	MCL = 10	By-product of drinking water disinfection					
			Stage	e 2 Disinfectant/Disir	fection By-Pro	duct						
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)	1/15-12/15	N	34.548	25.79-44.20	NA	MCL = 60	By-product of drinking water disinfection					
TTHM [Total trihalomethanes] (ppb)	1/15-12/15	N	67.025	51.44-94.28	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)	08/14	N	0.78	0	1.3	1.3	Corrosion of household plumbing systems; erosion of natural deposits; leaching from wood preservatives					
Lead (tap water) (ppb)	08/14	N	1.4	0	0	15	Corrosion of household plumbing systems, erosion of natural deposits					
Durnoss - To sellent	urronce detect	contaminant		egulated Contamina			th based standards set updat the Safa British West					
(SDWA). Southeast Region	al Water Treatm	ent Plant has b	een monitoring t	hese unregulated co	ntaminants as	part of a study	th-based standards set under the Safe Drinking Water Act to help the US Environmental Protection Agency determine					
							ontaminant occurence data used by EPA in regulatory call the Safe Drinking Water Hotline at (800) 426-4791					
Contaminant and Unit of Measurement	Date of Sampling (mo/yr)	Level Dectected	Range of Results	- Garaca contamili			arce of Contamination					
Chromium-6 (ppb)	8/14 & 3/15	0.13	0.03-0.13		_	_	teel and other alloys; chromium-3 or -6 forms are used for nts, leather tanning, and wood preservation					
Chlorate (ppb)	8/14 & 3/15	620	219.58-620	Agricultural def	oliant or desic	cant; disinfection	on byproduct; and used in production of chlorine dioxide					
Molybdenum (ppb)	8/14 & 3/15	3.256	1-3.256	Naturally-occuring		-	resent in plants, animals and bacteria; commonly used form ide used as a chemical reagent					
1,4 Dioxane (ppb)	8/14 & 3/15	0.07	0.07	Cylic alipathic ethe			t stabilizer in manufacture and processing of paper, cotton, ive coolant, cosmetics and shampoos					
					textile products, automotive coolant, cosmetics and shampoos							



Drinking Water Quality Report-Southwest Service Area 2015



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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 Southwest Service Area is obtained from ground water wells and 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.

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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 stormwater runoff, industrial or domestic wastewater discharges, oil and gas production, mining, or farming.
- **(C)** Pesticides and herbicides, which may come from a variety of sources such as agriculture, urban stormwater runoff, and residential uses.
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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.









Terms and Abbreviations for Next Page:

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Parts per billion (ppb) or Micrograms per liter (μg/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 sample. Picocurie per liter (pCi/L): measure of the radioactivity in water.



Southwest Service Area WATER QUALITY RESULTS

	N	ATE	= R Q	UALI	<u>T Y</u>	RE	SULTS			
			Sou	thwest W	ater S	system	ı			
				Radioactive Co	ontaminan	its				
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			
Alpha emitters (pCi/L)	02/14	N	2.42	2.42	0	15	Erosion of natural deposits			
Radium 226 + 228 or combined radium (pCi/L)	02/14	N	1.403	1.403	0	5	Erosion of natural deposits			
Inorganic Contaminants										
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)	02/14	N	0.5	0.5	0	10	Erosion of natural deposits, run off from glass and electronics producion wastes			
Barium (ppm)	02/14	N	0.0056	0.0056	2	2	Discharge of drilling wastes; discharge from metal refineries; erosion of natural deposits			
Fluoride (ppm)	02/14	N	0.18	0.18	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)	02/14	N	2.5	2.5	N/A	100	Pollution from mining and refining operations. Natural occurrence in soil			
Nitrate (as Nitrogen) (ppm)	02/15	N	0.051	0.051	10	10	Runoff from fertilizer use; leaching from septic tanks, sewage; erosion of natural deposits			
Nitrite (as Nitrogen) (ppm)	02/15	N	0.053	0.053	1	1	Runoff from fertilizer use; leaching from septic tanks, sewage; erosion of natural deposits			
Sodium (ppm)	02/14	N	13	13	N/A	160	Salt water intrusion, leaching from soil			
			Stage 2	Disinfectant/Dis	sinfection	By-Produc	ts			
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)	1/15-12/15	N	1.21 (annual average)	0.35-2.21	MRDLG =	MRDL = 4.0	Water additive used to control microbes			
Haloacetic Acids (five) (HAA5) (ppb)	1/15-12/15	N	17.98	8.09-28.44	N/A	MCL = 60	By-product of drinking water disinfection			
TTHM [Total trihalomethanes] (ppb)	1/15-12/15	N	37.06	21.12-45.88	N/A	MCL = 80	By-product of drinking water disinfection			
				Lead and Coppe	er (Tap Wa	ter)				
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)	08/14	N	0.42	0	1.3	1.3	Corrosion of household plumbing systems; erosion of natural deposits; leaching from wood preservatives			
Lead (tap water) (ppb)	08/14	N	5.3	0	0	15	Corrosion of household plumbing systems, erosion of natural deposits			



Drinking Water Quality Report-Sun Shadows Consecutive Service Area 2015



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, 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.

Source Water Assessment Plan

In 2015 the Department of Environmental Protection performed a Source Water Assessment on City of Casselberry, 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 stormwater runoff, industrial or domestic wastewater discharges, oil and gas production, mining, or farming.
- **(C)** Pesticides and herbicides, which may come from a variety of sources such as agriculture, urban stormwater runoff, and residential uses.
- **(D)** Organic chemical contaminants, including synthetic and volatile organic chemicals, which are by-products of industrial processes and petroleum production, and can also come from gas stations, urban stormwater runoff, and septic systems.
- **(E)** Radioactive contaminants, which can be naturally occurring or be the result of oil and gas production and mining activities.

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



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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

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Sunshadows Service Area

WATER QUALITY RESULTS

			Sun	Shadows W	ater Sys	stem			
				Microbiological Co	ntaminants				
Contaminant and Unit of Measurement	Date of Sampling (mo/yr)	MCL Violation Y/N	Highest Monthly Percentage / Number	MCLG	N	ICL	Likely Source of Contamination		
Total Coliform Bacteria	9/15	N	1.0	0	fewer than 4 month: p coliform bi sample colle	ns collecting 0 samples per resence of acteria in >1 ected during a inth.	Naturally present in the environment		
				Radioactive Cont	aminants				
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		
Alpha Emitters (pCi/L)	5/14	N	2.5	1.0-2.5	0	15	Erosion of natural deposits		
Radium 226 + 228 or combined radium (pCi/L)	5/14	N	2.5	0.6-2.5	0	5	Erosion of natural deposits		
Inorganic Contaminants									
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)	5/14	N	0.017	0.009-0.017	2	2	Discharge of drilling wastes; discharge from metal refineries erosion of natural deposits		
Cadmium (ppb)	5/14	N	0.38	ND-0.38	5	5	Corrosion of galvanized pipes; erosion of natural deposits; discharge from metal refineries, runoff from waste batterie and paints		
Chromium (ppb)	5/14	N	0.6	ND-06	100	100	Discharge from steel and pulp mills; erosion of natural depos		
Fluoride (ppm)	5/14	N	0.15	0.10-0.15	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)	5/14	N	1.7	1.2-1.7	NA	100	Pollution from mining and refining operations. Natural occurrence in soil		
Sodium (ppm)	5/14	N	13	13.0	N/A	160	Salt water intrusion, leaching from soil		
			Stage	2 Disinfectant/Disin	fection By-Pro	duct			
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)	2015	N	1.42 (annual average)	0.28-2.04	MRDLG = 4	MRDL = 4.0	Water additive used to control microbes		
Haloacetic Acids (five) (HAA5) (ppb)	8/15	N	29.39	27.99-29.39	NA	MCL = 60	By-product of drinking water disinfection		
TTHM [Total trihalomethanes] (ppb)	8/15	N	63.20	50.23-63.20	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)	7/15	N	0.32	0	1.3	1.3	Corrosion of household plumbing systems; erosion of natur deposits; leaching from wood preservatives		
Lead (tap water) (ppb)	7/15	N	1.8	0	0	15	Corrosion of household plumbing systems, erosion of natur deposits		
			The Third Unr	egulated Contaminar	nt Monitoring F	Rule (UCMR3)			

Purpose: To collect occurrence data for contaminants suspected to be present in drinking water but that do not have health-based standards set under the safe Unriking Water Act (SDWA). Southeast Regional Water Treatment Plant has been monitoring these unregulated contaminants as part of a study to help the US Environmental Protection Agency determine whether or not these contaminants need to be regulated. The UCMR program is the primary source of drinking water contaminant occurrence data used by EPA in regulatory determinations. If you would like more information on the EPA's Unregulated Contaminants Monitoring Rule, please call the Safe Drinking Water Hotline at (800) 426-4791

Contaminant and Unit of Measurement	Date of Sampling (mo/yr)	Level Dectected	Range of Results	Likely Source of Contamination	
Strontium (ppb)	3/15, 9/15 &	211.3	132.4-211.3	Naturally-occuring element; historically, commercial use of strontium has been in the faceplate glass of cathode-	
	11/15			ray tube televisions to block x-ray emissions	
Molybdenum (ppb)	3/15 & 9/15	2.6	1.4-2.6	Naturally-occuring element, found in ores and present in plants, animals and bacteria; commonly used form	
				molybdenum trioxide used as a chemical reagent	
Chromium-6 (ppb)	3/15 & 9/15	0.08	ND-0.8	Naturally-occuring element, used in making steel and other alloys; chromium-3 or -6 forms are used for chrome	
				plating, dyes and pigments, leather tanning, and wood preservation	
Chlorate (ppb)	03/15 & 09/15	910	170-910	Agricultural defoliant or desiccant; disinfection byproduct; and used in production of chlorine dioxide	
1,4 Dioxane (ppb)	03/15	0.09	ND-0.9	Cylic alipathic ether; used as a solvent or solvent stabilizer in manufacture and processing of paper, cotton, text products, automotive coolant, cosmetics and shampoos	
Vanadium (ppb)	09/15	0.2	ND-0.2	Naturally-occuring elemental metal; used as vanadium pentoxide which is a chemical intermediate and a catalyst.	