12147 **PERMIT #1** U.S. POSTAGE PAID PRSRT STD Sterrett, Alabama 35147 P.O. Box 220 System, Inc. Sterrett-Vandiver Water

MCL's are set at very stringent levels. To understand the possible health effects described for many regulated contaminants, a person would have to drink 2 liters of water every day at the MCL level for a lifetime to have a one-in-a -million chance of having the described health effect

A MESSAGE FROM THE BOARD

Thank you for allowing us to continue providing your family with clean, quality water this year. In order to maintain a safe and dependable water supply we sometimes need to make improvements that will benefit all of our customers. These improvements are sometimes reflected as rate structure adjustments. Thank you for understanding. We at The Sterrettvandiver Water System, Inc. work

around the clock to provide top quality water to every tap. We ask that all our customers help us protect our water sources, which are the heart of our community, our way of life and our children's future.

Sincerely,

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Your Board of Directors

Consumer Confidence Report Prepared By The Alabama Rural Water Association

General Information

As you can see by the tables, our system had no monitoring violations of allowable limits of contaminants in drinking water. We're proud that your drinking water meets or exceeds all Federal and State requirements. We have learned through our monitoring and testing that some contaminants have been detected. The EPA has determined that your water IS SAFE at these levels.

Total Coliform: The Total Coliform Rule requires water systems to meet a stricter limit for coliform bacteria. Coliform bacteria are usually harmless, but their presence in water can be an indication of disease-causing bacteria. When coliform bacteria are found, special follow-up tests are done to determine if harmful bacteria are present in the water supply. If this limit is exceeded, the water supplier must notify the public by newspaper, television or radio. To comply with the stricter regulation, we have increased the average amount of chlorine in the distribution system. 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 radioactive material, and it can pick up substances resulting from the presence of animals or from human activity.

Some people may be more vulnerable to contaminants in drinking water than the general population. People who are immuno-compromised such as cancer patients undergoing chemotherapy, organ transplant recipients, HIV/AIDS positive or other immune system disorders, some elderly, and infants can be particularly at risk from infections. People at risk 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. The Sterrett-Vandiver Water System, Inc. 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.

Annual Drinking Water Quality Report January—December 2017

Last year, as in years past, your tap water met all U.S. Environmental Protection Agency (EPA) and the Alabama Department of Environmental Management (ADEM) drinking water health standards. Your Local Water officials vigilantly safeguard its water supplies and once again we are proud to report that our system has not violated a maximum contaminant level or any other water quality standards. Our water sources are The Shelby County Water Services and the New London Water Authority. The water from the Shelby County Water Service is produced from the Coosa River and The New London Water Authority has ground water wells. The water we supply to our customers requires no specialized treatment. However, Chlorine is added to the water as disinfectant and the required residual is maintained to protect your drinking water from any possible outside

BOARD OF DIRECTORS

Mary Roensch, President Nolen Clinkscales, Vice-President **Barry Brasher**

> **Anne Shealy Marion Watson**

Important Drinking Water Definitions:

Disinfection Byproducts – contaminants formed when chlorine is used as a disinfectant.

Parts per million (ppm) or Milligrams per liter (mg/l) - one part per million corresponds to one minute in two years or a single penny in \$10,000.

Parts per billion (ppb) or Micrograms per liter - one part per billion corresponds to one minute in 2,000 years, or a single penny in \$10,000,000.

Parts per trillion (ppt) or Nanograms per liter (nanograms/l) - one part per trillion corresponds to one minute in 2,000,000 years, or a single penny in \$10,000,000,000.

Parts per quadrillion (ppq) or Picograms per liter (picograms/l) - one part per quadrillion corresponds to one minute in 2,000,000,000 years or one penny in \$10,000,000,000,000.

Picocuries per liter (pCi/L) - picocuries per liter is a measure of the radioactivity in water.

Millirems per year (mrem/yr) - measure of radiation absorbed by the body.

Nephelometric Turbidity Unit (NTU) - nephelometric turbidity unit is a measure of the clarity of water. Turbidity in excess of 5 NTU is just noticeable to

Variances & Exemptions - ADEM or EPA permission not to meet an MCL or a treatment technique under certain conditions.

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 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 Residual Disinfectant Level Goal or MRDLG - The level of a drinking water disinfectant below which there is no known or expected risk to Maximum Residual Disinfectant Level Goal or MRDLG - The level of a drinking water disinfectant below which there is no known or expected risk to Maximum Residual Disinfectant Level Goal of MRDLG - The level of a drinking water disinfectant below which there is no known of expected rishealth. MRDLGs do not reflect the benefits of the use of disinfectants to control microbial contaminants.

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.

Variances and Exemptions - The Department or EPA permission not to meet an MCL or a treatment technique under certain conditions

Treatment Technique - A required process intended to reduce the level of a contaminant in drinking water.

Action Level - The concentration of a contaminant that triggers treatment or other requirement a water system shall follow.

Action Level - The concentration of a contaminant that triggers treatment or other requirement a water system shall follow.

Unregulated contaminants are those for which EPA has not established drinking water standards. The purpose of unregulated contaminant monitoring is to assist EPA in determining the occurrence of unregulated contaminants in drinking water and whether future regulation is warranted.

The Sterrett-Vandiver Water System, Inc. routinely monitors for contaminants in your drinking water according to Federal and State laws. This table shows the results of our monitoring for the period of January 1st to December 31st, 2017. All drinking water, including bottled water, may reasonably be expected to contain at least small amounts of some contaminants. The presence of contaminants does not necessarily indicate that water poses a health risk. More information about contaminants and potential health effects can be obtained by calling the Environmental Protection Agency's Safe Drinking Water Hotline (800-426-4791).

The Sterrett-Vandiver Water System, Inc. utilizes a Bacteriological Monitoring Plan, and a Cross Connection Policy is in place to insure good safe drinking water for our customers.

Any Questions?

Please attend our regularly scheduled meetings!

Every 3rd Tuesday of each month at 6:30 p.m. at the Sterrett -Vandiver Water Office located at 35 Old Mill Road

Hope to See You There!

Table of Primary Contaminants

At high levels some primary contaminants are known to pose a health risks to humans. This table provides a quick glance of any primary contaminant detections

At high levels sor	ne primary o	contaminants are	known to pose a nealth risks to numans	s. This tabl	e provides a quick	glance of any primary contaminant dete	ctions.		1
		AMOUNT			AMOUNT			AMOUNT	ĺ
CONTAMINANT	MCL	DETECTED	CONTAMINANT	MCL	DETECTED	CONTAMINANT	MCL	DETECTED	
Bacteriological			Selenium(ppb)	50	1.50	Epichlorohydrin	TT	ND	l
Total Coliform Bacteria	< 5%	ND	Thallium(ppb)	2	0.14	Ethylbenzene(ppb)	700	ND	1
Turbidity	TT	0.64	Organic Chemicals			Ethylene dibromide(ppt)	50	ND	(
Fecal Coliform & E. coli	0	ND	Acrylamide	TT	ND	Glyphosate(ppb)	700	ND	
Radiological			Alachlor(ppb)	2	ND	Haloacetic Acids(ppb)	60	28.60	1
Beta/photon emitters (mrem/yr)	4	ND	Atrazine(ppb)	3	ND	Heptachlor(ppt)	400	ND	╠
Alpha emitters (pci/l)	15	0.80	Benzene(ppb)	5	ND	Heptachlor epoxide(ppt)	200	ND	
Combined radium (pci/l)	5	1.14	Benzo(a)pyrene[PHAs](ppt)	200	ND	Hexachlorobenzene(ppb)	1	ND	
Uranium(pci/l)	30	ND	Carbofuran(ppb)	40	ND	Hexachlorocyclopentadiene(ppb)	50	ND	L
Inorganic			Carbon Tetrachloride(ppb)	5	ND	Lindane(ppt)	200	ND	1
Antimony (ppb)	6	ND	Chlordane(ppb)	2	ND	Methoxychlor(ppb)	40	ND	E
Arsenic (ppb)	10	ND	Chlorobenzene(ppb)	100	ND	Oxamyl [Vydate](ppb)	200	ND	r
Asbestos (MFL)	7	ND	2,4-D	70	ND	Pentachlorophenol(ppb)	1	ND	1/2
Barium (ppm)	2	ND	Dalapon(ppb)	200	ND	Picloram(ppb)	500	ND	-
Beryllium (ppb)	4	0.78	Dibromochloropropane(ppt)	200	ND	PCBs(ppt)	500	ND	1
Bromate(ppb)	10	ND	0-Dichlorobenzene(ppb)	600	ND	Simazine(ppb)	4	ND	L
Cadmium (ppb)	5	ND	p-Dichlorobenzene(ppb)	75	ND	Styrene(ppb)	100	ND	1
Chloramines(ppm)	4	ND	1,2-Dichloroethane(ppb)	5	ND	Tetrachloroethylene(ppb)	5	ND	1
Chlorine(ppm)	4	2.70	1,1-Dichloroethylene(ppb)	7	ND	Toluene(ppm)	1	ND	1
Chlorine dioxide(ppb)	800	700.00	Cis-1,2-Dichloroethylene(ppb)	70	ND	TOC	TT	2.30	В
Chlorite(ppm)	1000	970.00	trans-1,2-Dichloroethylene(ppb)	100	ND	TTHM(ppb)	80	37.00	ΙT
Chromium (ppb)	100	0.48	Dichloromethane(ppb)	5	ND	Toxaphene(ppb)	3	ND	c
Copper (ppm)	AL=1.3	0.00	1,2-Dichloropropane(ppb)	5	ND	2,4,5-TP (Silvex)(ppb)	50	ND	F
Cyanide (ppb)	200	ND	Di-(2-ethylhexyl)adipate(ppb)	400	ND	1,2,4-Trichlorobenzene(ppb)	70	ND	1
Fluoride (ppm)	4	1.17	Di(2-ethylhexyl)phthlates(ppb)	6	ND	1,1,1-Trichloroethane(ppb)	200	ND	F
Lead (ppb)	AL=15	0.14	Dinoseb(ppb)	7	0.08	1,1,2-Trichloroethane(ppb)	5	ND	1
Mercury (ppb)	2	ND	Dioxin[2,3,7,8-TCDD](ppq)	30	ND	Trichloroethylene(ppb)	5	ND	C
Nitrate (ppm)	10000	440.00	Diquat(ppb)	20	0.38	Vinyl Chloride(ppb)	2	ND	ſ
Nitrite (ppm)	1	ND	Endothall(ppb)	100	ND	Xylenes(ppm)	10	ND	c
Total Nitrate & Nitrite	10000	440.00	Endrin(ppb)	2	ND				╚

Table of Secondary and Unregulated Contaminants

Secondary Drinking Water Standards are guidelines regulating contaminants that may cause cosmetic effects (such as skin or tooth discoloration) or aesthetic effects (such as taste, odor, or color) in drinking water. ADEM has Secondary Drinking Water Standards established in state regulations applicable to water systems required to monitor for the various components. Unregulated contaminants are those for which EPA has not established drinking water standards. The purpose of unregulated contaminant monitoring is to assist EPA in determining the occurance of unregulated contaminants in drinking water and whether future regulation is warranted.

drinking water and whether future regulation is warranted.									
CONTAMINANT MCL DETECT CONT		CONTAMINANT	MCL	DETECT	CONTAMINANT	MCL	DETECT		
Secondary									
		Foaming Agents	0.5	ND	Silver	7	ND		
Chloride	250 11.40 Iron		0.3	ND	Sulfate	70	38.6		
Color (PCU)	15	ND	Magnesium	75	5.61	Total Dissolved Solids	500	112	
Copper	1	ND	Odor (T.O.N.)	5	ND	Zinc	5	2.65	
			Special						
Calcium N/A 22.80 pH (SU) N/A 7.66 Temperatu					Temperature (*C)	N/A	25.00		
Carbon Dioxide	on Dioxide N/A 1.7 Sodium		N/A	8.92	Total Alkalinity	N/A	120		
Manganese	0.05	ND	Specific Conductance (umhos)	< 500	207.90	Total Hardness (as CaCO3)	N/A	104	
			Unregulat	ted		_			
1,1 - Dichloropropene	N/A	ND	Bromobenzene	N/A	ND	Hexachlorobutadiene	N/A	ND	
1,1,2,2-Tetrachloroethane	Tetrachloroethane N/A ND Bromochloromethane		N/A	ND	Isoprpylbenzene	N/A	ND		
1,1-Dichloroethane	loroethane N/A ND Bromodichloromethane		N/A	ND	M-Dichlorobenzene	N/A	ND		
1,2,3 - Trichlorobenzene	chlorobenzene N/A ND Bromoform		N/A	ND	Methomyl	N/A	ND		
1,2,3 - Trichloropropane	hloropropane N/A ND Bromomethane		N/A	ND	Metolachlor	N/A	ND		
1,2,4 - Trimethylbenzene	thylbenzene N/A ND Butachlor		N/A	ND	Metribuzin	N/A	ND		
1,2,4-Trichlorobenzene	enzene N/A ND Carbaryl		N/A	ND	MTBE	N/A	ND		
1,3 - Dichloropropane	N/A ND Chloroethane		N/A	ND	N - Butylbenzene	N/A	ND		
1,3 - Dichloropropene	ropene N/A ND Chlorodibromomethane		N/A	ND	Naphthalene	N/A	ND		
1,3,5 - Trimethylbenzene	imethylbenzene N/A ND Chloroform		N/A	ND	N-Propylbenzene	N/A	ND		
2,2 - Dichloropropane	loropropane N/A ND Chloromethane		N/A	ND	O-Chlorotoluene	N/A	ND		
3-Hydroxycarbofuran	arbofuran N/A ND Dibromochloromethane		N/A	ND	P-Chlorotoluene	N/A	ND		
Aldicarb	N/A ND Dibromomethane		N/A	ND	P-Isopropyltoluene	N/A	ND		
Aldicarb Sulfone	N/A	ND	Dichlorodifluoromethane	N/A	ND	Propachlor	N/A	ND	
Aldicarb Sulfoxide	N/A	ND	Dieldrin	N/A	ND	Sec - Butylbenzene	N/A	ND	
Aldrin	N/A ND Fluorotrichloromethan		N/A	ND	Tert - Butylbenzene	N/A	ND		

Unregulated Contaminant Monitoring Rule Phase III (UCMR3)

As required by the USEPA, monitoring of the following unregulated contaminants was accomplished 2015. Unregulated contaminants are those that don't yet have a drinking water standard set by the USEPA. The purpose of monitoring for these contaminants is to help USEPA decide whether the contaminants should have a standard.

	Detection		Detection		Detection
Contaminant	Level	Contaminant	Level	Contaminant	Level
Perfluorobutanesulfonic acid (PFBS)	ND	1,2,3-trichloropropane	ND	Chromium-6 (ug/L)	0.06-0.07
Perfluoroheptanoic acid (PFHpA)	ND	1,3 butadiene	ND	Chromium (total) (ug/L)	0.3
Perfluorohexanesulfonic acid (PFHxS)	ND	Bromochloromethane	ND	Cobalt	ND
Perfluorononanoic acid (PFNA)	ND	Bromomethane	ND	Molybdenum	ND
Perfluorooctanoic acid (PFOA)	ND	Chlorodifluoromethane	ND	Strontium (ug/L)	39-40
Perfluoroctanesulfonic Acid (PFOS)	ND	Chloromethane	ND	Vanadium	0.3-0.5
1,1-dichloroethane	ND	1,4 dioxane	0.09	Chlorate	350

The table below lists all of the drinking water contaminants that we detected during the calendar year of this report. The presence of contaminants in the water does not necessarily indicate that the water poses a health risk. Unless otherwise noted, the data presented in this table is from testing done in the calendar year of the report. The EPA or ADEM requires us to monitor for certain contaminants less than once per year because the concentrations of these contaminants do not change frequently.

			Table of	Detected	Drinking	Water C	ontomino	nto				
	Table of Detected Drinking Water Contaminants CONTAMINANT MCLG MCL Range Amount Detected Likely Source of Contamination											
	CONTAMINANT							Amount Detected Likely Source of Contamination nuary - December 2017				
	Turbidity	0	TT	gicai Contai	illilants	January - 1	0.64	NTU	Soil runoff			
\dashv i	Turolany	Ü	11				0.01	1110	John Tullon			
\dashv												
			Radiolog	ical Contam	inants	January - D	ecember 201	17				
							ND		Decay of natural and man-made			
	Beta particle and photon	0	4					mrem/yr	deposits			
	Alpha emitters	0	15				0.80	pCi/L	Erosion of natural deposits			
_	Combined Radium 226 & 228	0	5				1.14	pCi/L	Erosion of natural deposits			
Inorganic Contaminants January - December 2016-2017												
			· ·						Discharge from metal refineries and coal-			
				ND		ND	ND		burning factories; discharge from			
	Beryllium	4	4		_			ppb	electrical, aerospace, and defense industries			
	Berymani							PPO	Water additive used to control			
	Chlorine	MRDLG 4	MRDL 4	2.62	-	2.70	2.70	ppm	microbes			
\dashv				ND		970.00	970.00		By-product of drinking water			
_	Chlorite	0.8	1	ND	-	970.00	970.00	ppm	chlorination			
		MRDLG		ND		700.00	700.00	_	Water additive used to control			
.	Chlorine Dioxide	800	MRDL 800		-	, , , , , , ,	, , , , , ,	ppb	microbes			
\dashv	Chromium	100	100	ND	_	ND	ND	ppb	Discharge from steel and pulp mills erosion of natural deposits			
	Cinomium	100	100	No. of S	lites above act	ion level		PPO	Corrosion of household plumbing			
					0		0.002		systems; erosion of natural deposits;			
.	Copper	1.3	AL=1.3		Т	1		ppm	leaching from wood preservatives			
n nts									Water additive which promotes strong teeth; erosion of natural deposits;			
in				0.85		1.17	1.17		discharge from fertilizer and aluminum			
Г	Fluoride	4	4		-			ppm	factories			
			10 Sites	No. of S	ites above act	ion level	0.14		Corrosion of household plumbing			
	Lead	0	AL=15		0		0.11	ppb	systems, erosion of natural deposits Runoff from fertilizer use; leaching from			
				340.00		440.00	440.00		septic tanks, sewage; erosion of natural			
	Nitrate (as N)	10000	10000	340.00	-	140.00	440.00	ppb	deposits			
									Runoff from fertilizer use; leaching from			
	Tatal Nitura e Nituita	10000	10000	340.00		440.00	440.00	1.	septic tanks, sewage; erosion of natural			
	Total Nitrate & Nitrite	10000	10000		-			ppb	deposits Discharge from petroleum and metal			
				ND		1.50	1.50		refineries; erosion of natural deposits;			
\dashv .	Selenium	50	50		-			ppb	discharge from mines			
							0.4.4		Leaching from ore-processing sites;			
	Thallium	0.5	2	ND	_	0.14	0.14	ppb	discharge from electronics, glass, and drug factories			
\dashv	Thairium	0.5		c Contamin	ants J:	anuary - Dec	ember 2017	рро	urug ractories			
			O I g.i.i.						Discharge from rubber and chemical			
	Di(2-ethylhexyl)phthlates	0	6	ND	-	0.08	0.08	ppb	factories			
\dashv	Diquat	20	20	ND	-	0.38	0.38	ppb	Runoff/leaching from herbicide use			
		_		5.00		0.20	28.60	_	By-product of drinking water			
114	Haloacetic Acids (HAA5)	0	60 TT		-			ppb	chlorination			
	Total Organic Carbon (TOC) Total trihalomethanes	N/A	11	1.20	-	2.30	2.30	TT	Naturally present in the environment By-product of drinking water			
	(TTHM)	0	80	0.00	_	0.80	37.00	ppb	chlorination			
	(111111)	J		ry Contami	nants .	January - De	cember 2017		VIII.01 III.WIO11			
ľ				•								
	Chloride	N/A	250	8.61	-	11.40	11.40	ppm	Naturally occurring in the environment			
									or as a result of agricultural runoff			
n .	Magnesium	N/A	0.05	4.98	-	12.30	12.30	ppm	Erosion of natural deposits			
7	Sulfate Total Dissolved Solids	N/A	250 500	29.70 104.00	-	38.60	38.60	ppm	Naturally occurring in the environment			
\dashv	Total Dissolved Solids	N/A		104.00 l Contamina	nts Io	112.00 nuary - Dece	112.00	ppm	Erosion of natural deposits			
			эресіа	. Containill	ints Ja	maary - Deco	2017		Naturally occurring in the environment			
\dashv	рН	N/A	N/A	6.50	_	7.66	7.66	SU	or as a result of treatment with water			
\dashv	- 					<u></u>			additives			
	Sodium	N/A	N/A	5.31	-	8.92	8.92	ppm	Naturally occurring in the environment			