Munford, AL 36268 76 Railroad Street P.O. Box 92 Munford Water Authority, Inc.

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 Munford Water Authority, Inc. works 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.

<u>nc.</u>

uthority,

ater

Munford

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. 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. Munford Water Authority, 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 2023

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.

We're pleased to present to you this year's Annual Drinking 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 majority of your water comes from our Carter Street well, which produces 150 gallons per minute and our new Stephens Street well at 550 gallons per minute. The Knox Aquifer is the source for both wells. Oxford Water is from the Knox Group, Shady Dolomite Aquifer. We are both required to add chlorine for disinfecting. Both Munford and Oxford have provided water testing data.

BOARD OF DIRECTORS & Staff

Jimmy D. Mann, Chairman —2027 Jimmy Nelson, Vice Chairman —2028

Gary Carter, Board Member —2028

Duane Stephens, Board Member —2025

Jeff Stephens, Board Member —2027

Andrew S. Collett – General Manager Dina V. Bazor – Administrative Assistant Erika H. Brown-Office Clerk Jacob T. Adams-Grade II Operator Jared C. Gable-Maintenance/Trainee

Important Drinking Water Definitions:

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

Non-Detects (ND) - laboratory analysis indicates that the constituent is not present.

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

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

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 the average

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

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 contamina

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.

The Munford Water Authority, 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, 2023. 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 Munford Water Authority, Inc. utilizes a Bacteriological Monitoring Plan, and a Cross Connection Policy is in place to insure good safe drinking water for our customers. The Munford Water Authority, Inc. has completed a Source Water Assessment Plan which is available for review at their office. A Source Water Assessment Plan provides information about potential sources of contamination and is set up to help protect our source.

Any Questions?

Please attend our regularly scheduled meetings for 2024!

January 18, March 21, May 16, July 18, September 19, November 21. All meetings are held at 6:30 pm in the MWA office.

Table of Primary Contaminants

					•						
	At high le	vels some prima	ary contaminant	s are known to pose a health risks to	humans.	This table provi	des a quick gla	nce of any primary contaminant detecti	ons.		
CONTAMINANT	MCL	Munford	Oxford	CONTAMINANT	MCL	Munford	Oxford	CONTAMINANT	MCL	Munford	Oxford
Bacteriological				Selenium(ppb)	50	ND	ND	Epichlorohydrin	TT	ND	ND
Total Coliform Bacteria	< 5%	ND	ND	Thallium(ppb)	2	ND	ND	Ethylbenzene(ppb)	700	ND	ND
Turbidity	TT	ND	0.08	Organic Chemicals				Ethylene dibromide(ppt)	50	ND	ND
Fecal Coliform & E. coli	0	ND	ND	Acrylamide	TT	ND	ND	Glyphosate(ppb)	700	ND	ND
Radiological				Alachlor(ppb)	2	ND	ND	Haloacetic Acids(ppb)	60	ND	18.00
Beta/photon emitters (mrem/yr)	4	ND	ND	Atrazine(ppb)	3	ND	ND	Heptachlor(ppt)	400	ND	ND
Alpha emitters (pci/l)	15	ND	ND	Benzene(ppb)	5	ND	ND	Heptachlor epoxide(ppt)	200	ND	ND
Combined radium (pci/l)	5	ND	ND	Benzo(a)pyrene[PHAs](ppt)	200	ND	ND	Hexachlorobenzene(ppb)	1	ND	ND
Uranium(pci/l)	30	ND	ND	Carbofuran(ppb)	40	ND	ND	Hexachlorocyclopentadiene(ppb)	50	ND	ND
Inorganic				Carbon Tetrachloride(ppb)	5	ND	ND	Lindane(ppt)	200	ND	ND
Antimony (ppb)	6	ND	ND	Chlordane(ppb)	2	ND	ND	Methoxychlor(ppb)	40	ND	ND
Arsenic (ppb)	10	ND	ND	Chlorobenzene(ppb)	100	ND	ND	Oxamyl [Vydate](ppb)	200	ND	ND
Asbestos (MFL)	7	ND	ND	2,4-D	70	ND	ND	Pentachlorophenol(ppb)	1	ND	ND
Barium (ppm)	2	ND	0.92	Dalapon(ppb)	200	ND	ND	Picloram(ppb)	500	ND	ND
Beryllium (ppb)	4	ND	ND	Dibromochloropropane(ppt)	200	ND	ND	PCBs(ppt)	500	ND	ND
Bromate(ppb)	10	ND	ND	0-Dichlorobenzene(ppb)	600	ND	ND	Simazine(ppb)	4	ND	ND
Cadmium (ppb)	5	ND	ND	p-Dichlorobenzene(ppb)	75	ND	ND	Styrene(ppb)	100	ND	ND
Chloramines(ppm)	4	ND	ND	1,2-Dichloroethane(ppb)	5	ND	ND	Tetrachloroethylene(ppb)	5	ND	ND
Chlorine(ppm)	4	1.80	1.71	1,1-Dichloroethylene(ppb)	7	ND	ND	Toluene(ppm)	1	ND	ND
Chlorine dioxide(ppb)	800	ND	ND	Cis-1,2-Dichloroethylene(ppb)	70	ND	ND	TOC	TT	ND	1.20
Chlorite(ppm)	1	ND	ND	trans-1,2-Dichloroethylene(ppb)	100	ND	ND	TTHM(ppb)	80	7.00	25.00
Chromium (ppb)	100	ND	ND	Dichloromethane(ppb)	5	ND	ND	Toxaphene(ppb)	3	ND	ND
Copper (ppm)	AL=1.3	0.07	0.09	1,2-Dichloropropane(ppb)	5	ND	ND	2,4,5-TP (Silvex)(ppb)	50	ND	ND
Cyanide (ppb)	200	ND	ND	Di-(2-ethylhexyl)adipate(ppb)	400	ND	ND	1,2,4-Trichlorobenzene(ppb)	70	ND	ND
Fluoride (ppm)	4	ND	ND	Di(2-ethylhexyl)phthlates(ppb)	6	ND	ND	1,1,1-Trichloroethane(ppb)	200	ND	ND
Lead (ppb)	AL=15	ND	ND	Dinoseb(ppb)	7	ND	ND	1,1,2-Trichloroethane(ppb)	5	ND	ND
Mercury (ppb)	2	ND	ND	Dioxin[2,3,7,8-TCDD](ppq)	30	ND	ND	Trichloroethylene(ppb)	5	ND	0.55
Nitrate (ppm)	10	1.18	1.00	Diquat(ppb)	20	ND	ND	Vinyl Chloride(ppb)	2	ND	ND
Nitrite (ppm)	1	ND	ND	Endothall(ppb)	100	ND	ND	Xylenes(ppm)	10	ND	ND
Total Nitrate & Nitrite	10	1.18	1.00	Endrin(ppb)	2	ND	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 Munfords 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.

CONTAMINANT	MCL	Munford	Oxford	CONTAMINANT	MCL	Munford	Oxford	CONTAMINANT	MCL	Munford	Oxford
											ND
Chloride	250	ND		Iron	0.3	ND	ND	Sulfate	70	ND	ND
Color (PCU)	15	ND		Magnesium	75	ND		Total Dissolved Solids	500	ND	139.00
Copper	1	ND	ND	Odor (T.O.N.)	5	ND	ND	Zinc	5	ND	ND
					Special	177	0.00	T . (0.00	27/1	177	177
Calcium Carbon Dioxide	N/A N/A	ND ND		pH (SU) Sodium	N/A	ND ND	8.00 4.10	Temperature (*C)	N/A	ND ND	ND ND
					N/A			Total Alkalinity	N/A	ND ND	ND 131.00
Manganese	e 0.05 ND ND Specific Conductance (umhos) <500 ND ND Total Hardness (as CaCO3) N/A Unregulated							ND	131.00		
1,1 - Dichloropropene	N/A	ND	ND	Bromobenzene	N/A	ND	ND	Hexachlorobutadiene	N/A	ND	ND
1.1.2.2-Tetrachloroethane	N/A	ND		Bromochloromethane	N/A	ND	ND	Isoprpyibenzene	N/A	ND	ND
1.1-Dichloroethane	N/A	ND		Bromodichloromethane	N/A	ND	1.75	M-Dichlorobenzene	N/A	ND	ND
1,2,3 - Trichlorobenzene	N/A	ND	ND	Bromoform	N/A	ND	ND	Methomyl	N/A	ND	ND
1,2,3 - Trichloropropane	N/A	ND	ND	Bromomethane	N/A	ND	ND	Metolachlor	N/A	ND	ND
1,2,4 - Trimethylbenzene	N/A	ND	ND	Butachlor	N/A	ND	ND ND Metribuzin N/A		N/A	ND	ND
1,2,4-Trichlorobenzene	N/A	ND	ND	Carbaryl	N/A	ND	ND	MTBE	N/A	ND	ND
1,3 - Dichloropropane	N/A	ND	ND	Chloroethane	N/A	ND		N - Butylbenzene	N/A	ND	ND
1,3 - Dichloropropene	N/A	ND		Chlorodibromomethane	N/A	ND	0.55	Naphthalene	N/A	ND	ND
1,3,5 - Trimethylbenzene	N/A	ND		Chloroform	N/A	ND		N-Propylbenzene	N/A	ND	ND
2,2 - Dichloropropane	N/A	ND		Chloromethane		N/A ND ND O-Chlorotoluene N/A		ND	ND		
3-Hydroxycarbofuran	N/A	ND	ND	Dibromochloromethane	N/A	ND		P-Chlorotoluene	N/A	ND	ND
Aldicarb	N/A	ND	ND	Dibromomethane	N/A	ND	ND	P-Isopropyltoluene N/A		ND	ND
Aldicarb Sulfone	N/A	ND	ND	Dichlorodifluoromethane	N/A	ND	ND	Propachlor N/A		ND	ND
Aldicarb Sulfoxide	N/A	ND		Dieldrin	N/A	ND ND Sec - Butylbenzene N/A		ND	ND		
Aldrin	N/A	ND	ND	Fluorotrichloromethan	N/A	ND	ND	Tert - Butylbenzene	N/A	ND	ND
				PFAS (Compou	nds					
CONTAMINANT RI		RESULTS	UNITS	CONTAMINANT		RESULTS	UNITS	CONTAMINANT		RESULTS	UNITS
11CI-PF3OUdS		BMRL	ug/L	Perfluorodecanoic Acid		BMRL	ug/L	Perfluorooctanoic Acid		0.003	ug/L
9CI-PF3ONS B		BMRL	ug/L	Perfluorohexanoic Acid		0.002	ug/L	Perfluorotetradecanoic Acid		BMRL	ug/L
ADONA E		BMRL	ug/L	Perfluorododecanoic Acid		BMRL ug/L		Perfluorotridecanoic Acid			ug/L
HFPO-DA		BMRL	ug/L	Perfluoroheptanoic Acid		BMRL ug/L		Perfluoroundecanoic Acid		BMRL	ug/L
NEIFOSAA [BMRL	ug/L	Perfluorohexanesulfonic Acid		0.004 ug/L		Total PFAs		0.011	ug/L
NMeFOSAA BMRL ug/L		Perfluorononanoic Acid		BMRL ug/L					ug/L		
Perfluorobutanesulfonic	0.002	ug/L	Perfluorooctanesulfonic	0.023	ug/L				ug/L		

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 Contaminants											
									Amount	Likely Source of		
	CONTAMINANT	MCLG	MCL	ilil	8-		Munford uary - Dece	Oxford	Detected	Contamination		
	Turbidity	0	ter fological	Contamina	its Jan	ND	0.08	NTU	Soil runoff			
]	norganic Co	ontaminants	Janua	ry - Decemb	er				
				ND		ND	ND	0.92		Discharge of drilling wastes;		
	Barium	2	2		-			0.52	ppm	discharge from metal refineries; erosion of natural deposits		
	Chlorine	MRDLG 4	MRDL 4	1.15	-	1.80	1.80	1.71	ppm	Water additive used to control microbes		
			40 Sites	No. of S	ites above act 0	ion level	0.07	0.09		Corrosion of household plumbing systems; erosion of natural deposits; leaching from		
	Copper (2016)	0	AL=1.3 10 Sites AL=15	No. of Sites above action level 0		ND	ND	ppm	wood preservatives Corrosion of household plumbing systems, erosion of natural deposits			
	Nitrate (as N)	10	10	0.74	_	1.18	1.18	1.00	ррт	Runoff from fertilizer use; leaching from septic tanks, sewage; erosion of natural deposits		
	Total Nitrate & Nitrite	10	10	0.74	_	1.18	1.18	1.00	ppm	Runoff from fertilizer use; leaching from septic tanks, sewage; erosion of natural deposits		
				Organic Co	ntaminants	Januar	y - Decemb	er	FF			
	Haloacetic Acids (HAA5)	0	60	ND	-	ND	ND	18.00	ppb	By-product of drinking water chlorination		
iter	Total Organic Carbon (TOC)	N/A	TT	ND	-	ND	ND	1.20	TT	Naturally present in the environment		
	Total trihalomethanes (TTHM)	0	80	ND	-	7.00	7.00	25.00	ppb	By-product of drinking water chlorination		
	Trichloroethylene (TCE)	0	5	ND	-	ND	ND	0.55	ppb	Discharge from metal degreasing sites and other factories		
			5	Secondary C	ontaminants	Janua	ry - Decem	ber				
	Chloride	N/A	250	ND	-	ND	ND	6.00	ppm	Naturally occurring in the environment or as a result of agricultural runoff		
	Total Dissolved Solids	N/A	500	ND	-	ND	ND	139.00	ppm	Erosion of natural deposits		
				Special Cor	ntaminants	Januar	y - Decembe	r				
	pH	N/A	N/A	ND	-	ND	ND	8.00	SU	Naturally occurring in the environment or as a result of treatment with water additives		
	Sodium	N/A	N/A	ND	-	ND	ND	4.10	ppm	Naturally occurring in the environment		
	Total Hardness (as CaCO3)	N/A	N/A	ND	-	ND	ND	131.00	ppm	Naturally occurring in the environment or as a result of treatment with water additives		
_	Unregulated Contaminants January - December									Naturally occurring in the		
	Bromodichloromethane	N/A	N/A	ND	-	ND	ND	1.75	ppb	environment or as a result of industrial discharge or agricultural runoff; by-product of chlorination		
	Chlorodibromomethane	N/A	N/A	ND	ı	ND	ND	0.55	ppb	Naturally occurring in the environment or as a result of industrial discharge or agricultural runoff; by-product of chlorination		
	Chloroform	N/A	N/A	ND	-	ND	ND	3.50	ppb	Naturally occurring in the environment or as a result of industrial discharge or agricultural runoff; by-product of chlorination		