
Mobile County Water, Sewer & Fire Protection Authority

Annual Drinking Water



Quality Report 2019



Issue 21

It is time again for our Annual Drinking Water Report and Authority Newsletter. This report is designed to inform you about the quality of water and services we deliver to you daily. The Authority continues adding and upgrading infrastructure and facilities to stay ahead of growth within our service area. Please make sure you read the back of this report for important tips should a hurricane threaten our area this year.

The Authority currently has 13,098 customers. Our distribution system has 300 miles of water lines. Theodore, Tillman's Corner, Cypress Shores, Dawes, Fowl River, Mon Luis Island and Coden are only some of the areas served by the Authority. Our Board of Directors are as follows:

Jim White, Chairman
George Callahan, Vice-Chairman
Michael Burdine, Treasurer
Audie Tillman, Secretary
Jack Boatman, Member

In 1974 the Safe Drinking Water Act (SDWA) was signed into law requiring all water systems that serve the public to meet national standards for water quality. These standards established limits for certain contaminants and required all public water systems to monitor for these contaminants. Mobile County Water, Sewer and Fire Protection Authority routinely tests for these contaminants in your drinking water according to federal and state laws.

The tables in this report show the monitoring results beginning January 1, 2018 thru December 31, 2018. If you have any questions concerning water quality please contact our System Operator, Mr. Andy Ladner or our General Manager, Mr. Joe Summersgill at (251)653-7346, Monday thru Thursday from 7 am to 5 pm. You may also attend the monthly board meeting held on the third Thursday of each month at 12:00 pm at the water office located at 5780 Theodore Dawes Rd. Please call to be placed on the agenda 1 week prior to the meeting. This meeting is subject to change.

Now available to Mobile County Water Customers is online bill payment at www.mocowater.org and the convenience of paying your bill by phone just call 1(866)514-4924.

For your convenience, we offer bank draft services. Save money on gas and or postage. Become a bank draft customer today.

Sources of Water

Operating under permit by the Alabama Department of Environmental Management, Mobile County Water, Sewer and Fire Protection Authority operates 8 groundwater wells. All of our wells draw water from the Pliocene-Miocene aquifer. These wells together have a total permitted pumping capacity of 7,168,320 gallons a day. We currently have 6 storage tanks with a capacity of 3,950,000 gallons. A.D.E.M. regulations require that all public water supply systems disinfect their water supplies. Water from our wells is treated with chlorine for disinfection, Aqua Mag (for corrosion control) and sodium hydroxide (50% solution) at Well 6 & 8 for ph adjustment.

Source Water Assessment

Mobile County Water, Sewer and Fire Protection Authority in conjunction with O'Donnell & Associates, Inc., a Professional Hydrogeologic and Environmental Consulting firm, has completed an extensive source water assessment that identifies potential contaminant sites. Anyone wishing to view this report should contact this office at (251)653-7346.

MOBILE COUNTY WATER & FIRE PROTECTION AUTHORITY
2019 Annual Water Quality Report Tables
(Testing Performed January through December 2018)

Mobile County Water & Fire Protection Authority *routinely* monitors for constituents in your drinking water according to Federal and State laws. This report contains results from the most recent monitoring which was performed in accordance with the regulatory schedule.

Constituent Monitored	Date Monitored
Inorganic Contaminants	2016
Lead/Copper	2016
Microbiological Contaminants	current
Nitrates	2018
Radioactive Contaminants	2018
Synthetic Organic Contaminants (including pesticides and herbicides)	Partial 2018
Volatile Organic Contaminants	2016
Disinfection By-products	2018
DSE Disinfection By-products	2018
Unregulated Contaminant Monitoring Rule 4 (UCMR4) contaminants	2018

DETECTED DRINKING WATER CONTAMINANTS						
Contaminants	Violation Y/N	Level Detected	Unit Msmt	MCLG	MCL	Likely Source of Contamination
Alpha emitters	NO	9.8 ± 1.9	PCi/l	0	15	Erosion of natural deposits
Combined radium	NO	2.3 ± 0.8	PCi/l	0	5	Erosion of natural deposits
Copper *	NO	0.504*	ppm	1.3	AL=1.3	Corrosion of household plumbing systems; erosion of natural deposits; leaching from wood preservatives
Fluoride	NO	ND-0.66	ppm	4	4	Erosion of natural deposits; water additive which promotes strong teeth; discharge from factories
Nitrate (as Nitrogen)	NO	ND-0.20	ppm	10	10	Runoff from fertilizer use; leaching from septic tanks, sewage; erosion of natural deposits
TTHM [Total trihalomethanes]	YES**	LRAA 71.2 (16.6-97.5)	ppb	0	80	By-product of drinking water chlorination
HAA5 [Total haloacetic acids]	NO	LRAA 25.7 (7.30-31.3)	ppb	0	60	By-product of drinking water chlorination
Unregulated Contaminants						
Chloroform	NO	ND-5.42	ppb	n/a	n/a	Naturally occurring in the environment or from runoff
Bromodichloromethane	NO	ND-4.57	ppb	n/a	n/a	Naturally occurring in the environment or from runoff
Chlorodibromomethane	NO	ND-2.83	ppb	n/a	n/a	Naturally occurring in the environment or from runoff
Secondary Contaminants						
Chloride	NO	8.06-146	ppm	n/a	250	Naturally occurring in environment or from runoff
Hardness	NO	1.74-33.4	ppm	n/a		Naturally occurring in environment or from water treatment
Manganese	NO	ND-0.04	ppm	n/a	0.05	Erosion of natural deposits; leaching from pipes
pH	NO	7.35-7.75	S.U.	n/a	n/a	Naturally occurring in environment or from water treatment
Sodium	NO	9.56-172	ppm	n/a	n/a	Naturally occurring in the environment
Sulfate	NO	0.67-6.01	ppm	n/a	250	Naturally occurring in the environment or from runoff
Total Dissolved Solids	NO	60.0-488	ppm	n/a	500	Naturally occurring in the environment or from runoff

* Level detected is 90th percentile and # of sites above action level (1.3 ppm) = 0

** MCL violation occurred on TTHMs in the the 1st quarter of 2018. See Monitoring Violation section in this report.

Detected DSE Disinfection Byproducts			
Contaminants	Level Detected	Unit Msmt.	Likely Source of Contamination
TTHM [Total trihalomethanes]	24.5-89.4	ppb	By-product of drinking water chlorination
HAA5 [Total haloacetic acids]	10.9-31.2	ppb	By-product of drinking water chlorination

Detected UCMR4 Contaminants					
Contaminant	Unit Msmt	Level Detected	Contaminant	Unit Msmt	Level Detected
Germanium	ppb	ND-0.54	Tribufos	ppb	ND
Manganese	ppb	ND-26.4	1-butanol	ppb	ND
Alpha-hexachlorocyclohexane	ppb	ND	2-methoxyethanol	ppb	ND
Chlorpyrifos	ppb	ND	2-propen-1-ol	ppb	ND
Dimethipin	ppb	ND	Butylated hydroxyanisole	ppb	ND
Ethoprop	ppb	ND	O-toluidine	ppb	ND
Oxyfluorfen	ppb	ND	Quinoline	ppb	ND-0.072
Profenofos	ppb	ND	Total organic carbon (TOC)	ppb	ND
Tebuconazole	ppb	ND	Bromide	ppb	ND-145
Total permethrin (cis- & trans-)	ppb	ND			
Bromochloroacetic Acid	ppb	2.14-7.74	Monobromoacetic Acid	ppb	ND-0.33
Bromodichloroacetic Acid	ppb	4.97-12.7	Monochloroacetic Acid	ppb	ND
Chlorodibromoacetic Acid	ppb	2.79-6.69	Tribromoacetic Acid	ppb	ND
Dibromoacetic Acid	ppb	0.93-4.44	Trichloroacetic Acid	ppb	7.22-14.0
Dichloroacetic Acid	ppb	2.93-9.12			

MCL Violation 2018

Our water system recently violated a drinking water standard. Although this is not an emergency, as our customers you have a right to know what happened, what you should do, and what we are doing to correct this situation. We routinely monitor for the presence of drinking water contaminants. Testing results we received for the January through March 2018 monitoring period showed that our system exceeded the average Maximum Contaminant Level (MCL) for total trihalomethanes (TTHM) at one sample site. The MCL for TTHM is 80 mg/L. The chart below lists the location, contaminant, and level that exceeded the MCL.

Location	Contaminant	Running Annual Average
2901 Baywoods Drive	TTHM (total trihalomethanes)	84.0 ppb

This is not an immediate risk. If it had been, you would have been notified immediately. However, some people who drink water containing trihalomethanes in excess of the MCL over many years may experience problems with their liver, kidneys, or central nervous system and may have an increased risk of getting cancer. However, if you have specific health concerns, consult your doctor.

Please share this information with all the other people who drink this water, especially those who may not have received this notice directly (for example, people in apartments, nursing homes, schools, and businesses). You can do this by posting this notice in a public place or distributing copies by hand or mail.

Mobile County Water Authority will continue to monitor for these constituents on a quarterly basis and is working to reduce levels of TTHM in your drinking water. If you have any questions about this violation or our monitoring requirements, please contact Mr. Andy Ladner at 5780 Theodore Dawes Rd, Mobile, AL 36582, or you may call us at 251-653-7346.

Following is a list of *Primary Drinking Water Contaminants* and a list of *Unregulated Contaminants* for which our water system routinely monitors. These contaminants were *not* detected in your drinking water unless they are listed in the *Table of Detected Drinking Water Contaminants*.

STANDARD LIST OF PRIMARY DRINKING WATER CONTAMINANTS					
Contaminant	MCL	Unit of Msmt	Contaminant	MCL	Unit of
Bacteriological Contaminants			cis-1,2-Dichloroethylene	70	ppb
Total Coliform Bacteria	<5%	present/absent	trans-1,2-Dichloroethylene	100	ppb
Fecal Coliform and E. coli	0	present/absent	Dichloromethane	5	ppb
Fecal Indicators	0	present/absent	1,2-Dichloropropane	5	ppb
Turbidity	TT	NTU	Di (2-ethylhexyl)adipate	400	ppb
Cryptosporidium	TT	Calc.organisms/l	Di (2-ethylhexyl)phthalate	6	ppb
Radiological Contaminants			Dinoseb	7	ppb
Beta/photon emitters	4	mrem/yr	Dioxin [2,3,7,8-TCDD]	30	ppq
Alpha emitters	15	pCi/l	Diquat	20	ppb
Combined radium	5	pCi/l	Endothall	100	ppb
Uranium	30	pCi/l	Endrin	2	ppb
Inorganic Chemicals			Epichlorohydrin	TT	TT
Antimony	6	ppb	Ethylbenzene	700	ppb
Arsenic	10	ppb	Ethylene dibromide	50	ppt
Asbestos	7	MFL	Glyphosate	700	ppb
Barium	2	ppm	Heptachlor	400	ppt
Beryllium	4	ppb	Heptachlor epoxide	200	ppt
Cadmium	5	ppb	Hexachlorobenzene	1	ppb
Chromium	100	ppb	Hexachlorocyclopentadiene	50	ppb
Copper	AL=1.3	ppm	Lindane	200	ppt
Cyanide	200	ppb	Methoxychlor	40	ppb
Fluoride	4	ppm	Oxamyl [Vydate]	200	ppb
Lead	AL=15	ppb	Polychlorinated biphenyls	0.5	ppb
Mercury	2	ppb	Pentachlorophenol	1	ppb
Nitrate	10	ppm	Picloram	500	ppb
Nitrite	1	ppm	Simazine	4	ppb
Selenium	.05	ppm	Styrene	100	ppb
Thallium	.002	ppm	Tetrachloroethylene	5	ppb
Organic Contaminants			Toluene	1	ppm
2,4-D	70	ppb	Toxaphene	3	ppb
Acrylamide	TT	TT	2,4,5-TP (Silvex)	50	ppb
Alachlor	2	ppb	1,2,4-Trichlorobenzene	.07	ppm
Atrazine	3	ppb	1,1,1-Trichloroethane	200	ppb
Benzene	5	ppb	1,1,2-Trichloroethane	5	ppb
Benzo(a)pyrene [PAHs]	200	ppt	Trichloroethylene	5	ppb
Carbofuran	40	ppb	Vinyl Chloride	2	ppb
Carbon tetrachloride	5	ppb	Xylenes	10	ppm
Chlordane	2	ppb	Disinfectants & Disinfection		
Chlorobenzene	100	ppb	Chlorine	4	ppm
Dalapon	200	ppb	Chlorine Dioxide	800	ppb
Dibromochloropropane	200	ppt	Chloramines	4	ppm
o-Dichlorobenzene	600	ppb	Bromate	10	ppb
p-Dichlorobenzene	75	ppb	Chlorite	1	ppm
1,2-Dichloroethane	5	ppb	HAA5 [Total haloacetic acids]	60	ppb
1,1-Dichloroethylene	7	ppb	TTHM [Total trihalomethanes]	80	ppb
UNREGULATED CONTAMINANTS					
1,1 – Dichloropropene	Aldicarb Sulfone	Chloroform	N - Butylbenzene		
1,1,1,2-Tetrachloroethane	Aldicarb Sulfoxide	Chloromethane	Naphthalene		
1,1,2,2-Tetrachloroethane	Aldrin	Dibromomethane	N-Propylbenzene		
1,1-Dichloroethane	Atrazine	Dicamba	O-Chlorotoluene		
1,2,3 - Trichlorobenzene	Bromobenzene	Dichlorodifluoromethane	P-Chlorotoluene		
1,2,3 - Trichloropropane	Bromochloromethane	Dieldrin	P-Isopropyltoluene		
1,2,4 - Trimethylbenzene	Bromodichloromethane	Hexachlorobutadiene	Propachlor		
1,3 – Dichloropropane	Bromoform	Isopropylbenzene	Sec - Butylbenzene		
1,3 – Dichloropropene	Bromomethane	M-Dichlorobenzene	Tert - Butylbenzene		
1,3,5 - Trimethylbenzene	Butachlor	Methomyl	Trichlorofluoromethane		
2,2 – Dichloropropane	Carbaryl	MTBE			
3-Hydroxycarbofuran	Chlorodibromomethane	Metolachlor			
Aldicarb	Chloroethane	Metribuzin			