

## 2025 Annual Water Quality Report (Testing performed January through December 2024)

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**CHILTON WATER AUTHORITY**  
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Phone: 205-646-3300

Physical Address:  
19246 US HWY 31  
Clanton, AL 35045

We are pleased to present to you this year's Annual Water Quality Report. This report includes important information on our water sources, results of water analyses, plain language definitions, and other important information about water and health. Please share this report with anyone who drinks this water but may not have received the report directly. We work diligently to provide high quality water that meets or exceeds State and Federal drinking water standards. We want you to understand the efforts we make to continually improve the water treatment process and protect our water resources.

<b>Water Sources</b>	9 groundwater wells producing from the Coker Aquifer, Jemison Chert, Ordovician Knox Group, and Newala Limestone*
<b>Water Treatment</b>	<i>South Treatment Plant:</i> Aeration, coagulation, flocculation, sedimentation, gravity sand filtration, disinfection. Use polymer, lime, chlorine. <i>Kewish Plant:</i> Aeration. No filtration needed. Use lime, chlorine. <i>Gulf States Plant:</i> Aeration. No filtration needed. Use chlorine.
<b>Storage Capacity</b>	11 storage tanks with a total capacity of 4.65 million gallons
<b>Inter-connections</b>	Sell water continuously to Maplesville and Montevallo water systems Also connected to Autauga County, Billingsley, Clanton, Jemison, Marbury, North Dallas, Thorsby and Wilton water systems
<b>Service Connections</b>	Approximately 10,500
<b>Water Board Members</b>	Jeff Williams, Chairman
	Regina Respass, Vice-Chairman
	Harry Benson, Member
	Elbert Simon, Member
	Julius Kelley, Member
<b>Manager/Operator</b>	Jason Smith

\* The Jemison Chert well and plant serves customers located North of Highway 22, west from Clanton, and North of Cargile Creek, east of Clanton. The Coker aquifer and wells Roebuck, Osborne, Miller, Sellers, Chambers and Adams serve customers south of Highway 22 and west of Clanton and south of Cargile Creek. The Ordovician and Newala Limestone plant serves customers located west of US 31 and north of Highway 22.

### Source Water Assessment

In compliance with the Alabama Department of Environmental Management (ADEM), Chilton Water Authority developed a Source Water Assessment plan that will assist in protecting our water sources. This plan provides additional information such as potential sources of contamination. It includes a susceptibility analysis, which classifies potential contaminants as high, moderate, or non-susceptible to contaminating the water source. The plan was completed and approved by ADEM, and a copy of the report is available in our office for review during normal business hours, or you may purchase a copy upon request for a nominal reproduction fee.

Please help us make this effort worthwhile by protecting our source water. Carefully follow instructions on pesticides and herbicides you use for your lawn and garden, and properly dispose of household chemicals, paints and waste oil.

### Questions?

If you have any questions about this report or concerning your water utility, please contact Jason Smith at 205-646-3300. We want our valued customers to be informed about their water utility. If you want to learn more, please attend any of our regularly scheduled meetings. They are held on the third Thursday of the month at 4 p.m. at the water board office at 19246 US HWY 31 Clanton, AL.

More information about contaminants to drinking water and potential health effects can be obtained by calling the EPA's Safe Drinking Water Hotline at (1-800-426-4791).

## General Information

All drinking water, including bottled drinking water, may be reasonably expected to contain at least small amounts of some contaminants. The presence of contaminants does not necessarily indicate that water poses a health risk. MCL's, defined in a List of Definitions in this report, are set at very stringent levels. To understand the possible health effects described for many regulated constituents, 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.

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. Contaminants that may be present in source water include:

- Microbial contaminants, such as viruses and bacteria, which may come from sewage treatment plants, septic systems, agricultural livestock operations, and wildlife.
- Inorganic contaminants, such as salts and metals, which can be naturally occurring or result from urban storm water run-off, industrial or domestic wastewater discharges, oil and gas production, mining, or farming.
- Pesticides and herbicides, which may come from a variety of sources such as agriculture, storm water run-off, and residential uses.
- Organic chemical contaminants, including synthetic and volatile organic chemicals, which are by-products of industrial processes and petroleum production, and can also come from gas stations, urban storm water runoff, and septic systems.
- 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, EPA prescribes regulations which limit the levels of certain contaminants in water provided by public water systems. Food and Drug Administration (FDA) regulations establish limits for contaminants in bottled water.

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).

## Health Information about Lead

*As required by ADEM, we conducted a Lead Service Line Inventory during 2024, and it was confirmed that our distribution system contains no Lead service lines or galvanized materials.* This report is available for review in our office upon request.

Lead is rarely found in source water but is primarily from corrosion of materials and components associated with home plumbing. Your water system is responsible for providing high quality drinking water but cannot control the variety of materials used in plumbing components.

If present, elevated levels of lead can cause serious health problems, especially for pregnant women and young children. The Environmental Protection Agency (EPA) and the Center for Disease Control (CDC) make the following recommendations:

- Before using any tap water for drinking or cooking, flush your water system by running the kitchen tap (or any other tap you take drinking or cooking water from) on COLD for 1–2 minutes. Flushing can minimize the potential for lead exposure, especially if the water has been sitting undisturbed for several hours, as in overnight.
- In all situations, especially for making baby formula, drink or cook only with water that comes out of the cold tap. Warm or hot tap water is more likely to cause lead to leach from plumbing materials. Boiling will NOT reduce the amount of lead in your water.
- Also, periodically remove the aerator on the tip of the faucet and wash out any debris such as metal particles.

The actions recommended above are very important to the health of your family. They are likely to be effective in reducing lead levels because most of the lead in household water usually comes from the plumbing in your house, not from the local water supply. 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 [www.epa.gov/safewater](http://www.epa.gov/safewater) or by calling the EPA Safe Drinking Water Hotline at 1-800-426-4791.

## Monitoring Schedule and Results

Our water system monitors for contaminants according to a schedule assigned to us by the Alabama Department of Environmental Management (ADEM), using EPA approved methods and a State certified laboratory. This report contains results from the most recent monitoring which was performed in accordance with the State and Federal regulatory schedule. *Note:* ADEM allows us to monitor for some contaminants less than once per year because the concentrations of these contaminants do not change frequently.

Based on a study conducted by ADEM with the approval of the EPA a statewide waiver for the monitoring of asbestos and dioxin was issued. Thus, monitoring for these contaminants was not required.

Constituent Monitored	Date Monitored
Inorganic Contaminants	2022
Lead/Copper	2023
Microbiological Contaminants	monthly
Nitrates	2024
Radioactive Contaminants	2019
Synthetic Organic Contaminants (including pesticides and herbicides)	2022
Volatile Organic Contaminants	2023
Disinfection By-products (DBPs)	2024
Unregulated Contaminant Rule 5 (UCMR5) Contaminants	2024
PFAS Contaminants	2022

As you can see by the table below, our system had no MCL violations. We have learned through our monitoring and testing that some constituents have been detected. We are pleased to report that our drinking water meets or exceeds federal and state requirements.

TABLE OF DETECTED DRINKING WATER CONTAMINANTS						
Contaminants	Violation Y/N	Levels Detected	Unit Msmt	MCLG	MCL	Likely Source of Contamination
Chlorine Residual	NO	Kewish 1.76-2.17	ppm	MRDLG=4	MRDL=4	Water additive used to control microbes
		Gulf States 1.67-2.18				
		South 1.91-2.31				
Turbidity, highest	NO	Kewish 1.00	NTU	n/a	TT	Soil runoff
		Gulf States 1.10				
		South 0.24				
Alpha emitters	NO	1.8	PCi/l	0	15	Erosion of natural deposits
Radium-228	NO	1.1	PCi/l	0	5 combined radium	Erosion of natural deposits
Barium	NO	0.02-0.14	ppm	2	2	Discharge of drilling wastes; discharge from metal refineries; erosion of natural deposits
Copper	NO	0.092 *	ppm	1.3	AL=1.3	Plumbing corrosion; erosion of natural deposits; leaching from preservatives
Fluoride	NO	ND-0.30	ppm	4	4	Erosion; water additive which promotes strong teeth
Nitrate (as Nitrogen)	NO	ND-0.48	ppm	10	10	Runoff from fertilizer use; leaching from septic tanks, sewage; erosion of natural deposits
TTHM [Total trihalomethanes]	NO	Highest LRAA 24.8 (ND-36.0)	ppb	0	80	By-product of drinking water chlorination
HAA5 [Haloacetic acids]	NO	Highest LRAA 3.55 (ND-6.60)	ppb	0	60	By-product of drinking water chlorination
<b>Secondary Contaminants</b>						
Aluminum	NO	ND-0.04	ppm	n/a	0.2	Erosion; treatment with water additives
Chloride	NO	3.3-10.1	ppm	n/a	250	Naturally occurring or from runoff
Hardness	NO	53.2-154	ppm	n/a	n/a	Naturally occurring or from water additives
Iron	NO	ND-0.06	ppm	n/a	0.30	Naturally occurring; erosion; leaching from pipes
Manganese	NO	ND-0.05	ppm	n/a	0.05	Erosion of natural deposits; leaching from pipes
pH	NO	7.3-7.7	S.U.	n/a	n/a	Naturally occurring or from water additives
Sodium	NO	2.3-4.8	ppm	n/a	n/a	Naturally occurring in the environment
Sulfate	NO	5.3-11.9	ppm	n/a	250	Naturally occurring in the environment or from runoff
Total Dissolved Solids	NO	72.0-149	ppm	n/a	500	Naturally occurring in the environment or from runoff

\* Figure shown is the 90<sup>th</sup> percentile and number of sites above Action Level = 0

**Unregulated Contaminant Rule 5 (UCMR5) Contaminants:** The Fifth Unregulated Contaminant Monitoring Rule (UCMR5) requires monitoring by certain water systems for 30 unregulated contaminants during 2022 - 2026 on assigned schedules. UCMR 5 specifies monitoring for 29 PFAS and one metal (lithium). The table below contains the results of sampling during 2024.

Detected UCMR5 Contaminants (ppb)		
Contaminants	Range of Detections	Average of Detections
Lithium	ND-21.8	1.08

For more information, including the full list of UCMR 5 contaminants we monitored, see [www.epa.gov/dwucmr](http://www.epa.gov/dwucmr).

**PFAS:** U.S. Environmental Protection Agency (EPA) has not established national primary drinking water regulations for PFAS substances. Below is a list of PFAS contaminants for which our system monitored in 2022 and the results of that monitoring. PFAS was *not detected* in our drinking water.

PFAS CONTAMINANTS					
Contaminant	Unit Msmt	Levels Detected	Contaminant	Unit Msmt	Levels Detected
11-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	ppb	ND	Perfluoroheptanoic acid	ppb	ND
9-chlorohexadecafluoro-3-oxanone-1-sulfonic acid	ppb	ND	Perfluorohexanesulfonic acid	ppb	ND
4,8-dioxa-3H-perfluorononanoic acid	ppb	ND	Perfluorononanoic acid	ppb	ND
Hexafluoropropylene oxide dimer acid	ppb	ND	Perfluorooctanesulfonic acid	ppb	ND
N-ethylperfluorooctanesulfonamidoacetic acid	ppb	ND	Perfluorooctanoic acid	ppb	ND
N-methylperfluorooctanesulfonamidoacetic acid	ppb	ND	Perfluorotetradecanoic acid	ppb	ND
Perfluorobutanesulfonic acid	ppb	ND	Perfluorotridecanoic acid	ppb	ND
Perfluorodecanoic acid	ppb	ND	Perfluoroundecanoic acid	ppb	ND
Perfluorohexanoic acid	ppb	ND	Total PFAS	ppb	ND
Perfluorododecanoic acid	ppb	ND			

For more information on PFAS contaminants, please refer to [www.epa.gov/pfas](http://www.epa.gov/pfas).

#### Plain Language Definitions

**Action Level (AL)**- the concentration of a contaminant that, if exceeded, triggers treatment or other requirements.

**Coliform Absent (ca)**- Laboratory analysis indicates that the contaminant is not present.

**Disinfection byproducts (DBPs)**- are formed when disinfectants react with bromide and/or natural organic matter (i.e., decaying vegetation) present in the source water. Disinfection byproducts for which regulations have been established include trihalomethanes (TTHM), haloacetic acids (HAA5), bromate, and chlorite.

**Maximum Contaminant Level-** The Maximum Allowed (MCL) is 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-** The Goal (MCLG) is 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 (MRDL)**-the highest level of a disinfectant allowed in drinking water

**Micrograms per liter (ug/L)** – Equivalent to parts per billion (ppb) since one liter of water is equal in weight to one billion micrograms.

**Milligrams per liter (mg/L)** – Equivalent to parts per million

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

**Nephelometric Turbidity Unit (NTU)**-a measure of the clarity of water. Turbidity in excess of 5 NTU is just noticeable to the average person.

**Not Detected (ND)**- laboratory analysis indicates that the constituent is not present above detection limits of lab equipment.

**Not Reported (NR)**-laboratory analysis, usually Secondary Contaminants, not reported by water system. EPA recommends secondary standards to water systems but does not require systems to comply.

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

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

**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.

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

**Running Annual Average (RAA)**-yearly average of all the DPB results at each specific sampling site in the distribution system. The RAA, along with a range, is reported in the Table of Detected Contaminants.

**Standard Units (S.U.)**-pH of water measures the water's balances of acids and bases and is affected by temperature and carbon dioxide gas. Water with less than 6.5 could be acidic, soft, and corrosive. A pH greater than 8.5 could indicate that the water is hard.

**Treatment Technique (TT)**- a required process intended to reduce the level of a contaminant in drinking water.

**Variations & Exemptions (V&E)**-State or EPA permission not to meet an MCL or a treatment technique under certain conditions.

Below is a table of contaminants for which the Environmental Protection Agency and the Alabama Department of Environmental Management require testing. These contaminants were not detected in your drinking water unless they are also listed in the Detected Drinking Water Contaminants table elsewhere in this report.

STANDARD LIST OF PRIMARY DRINKING WATER CONTAMINANTS					
Contaminant	MCL	Unit of Msmt	Contaminant	MCL	Unit of Msmt
<b>Bacteriological Contaminants</b>			trans-1,2-Dichloroethylene	100	ppb
Total Coliform Bacteria	<5%	present/absent	Dichloromethane	5	ppb
Fecal Coliform and E. coli	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
<b>Radiological Contaminants</b>			Dinoseb	7	ppb
Beta/phonon 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
<b>Inorganic Chemicals</b>			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
<b>Organic Contaminants</b>			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
Benzene	5	ppb	1,1,1-Trichloroethane	200	ppb
Benzo(a)pyrene [PAHs]	200	ppt	1,1,2-Trichloroethane	5	ppb
Carbofuran	40	ppb	Trichloroethylene	5	ppb
Carbon tetrachloride	5	ppb	Vinyl Chloride	2	ppb
Chlordane	2	ppb	Xylenes	10	ppm
Chlorobenzene	100	ppb	<b>Disinfectants &amp; Disinfection Byproducts</b>		
Dalapon	200	ppb	Chlorine	4	ppm
Dibromochloropropane	200	ppt	Chlorine Dioxide	800	ppb
1,2-Dichlorobenzene	1000	ppb	Chloramines	4	ppm
1,4-Dichlorobenzene (para)	75	ppb	Bromate	10	ppb
o-Dichlorobenzene	600	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
cis-1,2-Dichloroethylene	70	ppb			
<b>LIST OF SECONDARY CONTAMINANTS</b>					
Alkalinity, Total (as CA, Co <sub>3</sub> )	Alkalinity, Total (as CA, Co <sub>3</sub> )	Alkalinity, Total (as CA, Co <sub>3</sub> )	Alkalinity, Total (as CA, Co <sub>3</sub> )	Alkalinity, Total (as CA, Co <sub>3</sub> )	Alkalinity, Total (as CA, Co <sub>3</sub> )
Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
Calcium, as Ca	Calcium, as Ca	Calcium, as Ca	Calcium, as Ca	Calcium, as Ca	Calcium, as Ca
Chloride	Chloride	Chloride	Chloride	Chloride	Chloride
Color	Color	Color	Color	Color	Color
<b>LIST OF UNREGULATED CONTAMINANTS</b>					
Aldicarb	Chloroethane	Hexachlorobutadiene	Propachlor		
Aldicarb Sulfone	Chloroform	3-Hydroxycarbofuran	N-Propylbenzene		
Aldicarb Sulfoxide	Chloromethane	Isopropylbenzene	Propachlor		
Aldrin	O-Chlorotoluene	p-Isopropyltoluene	1,1,1,2-Tetrachloroethane		
Bromoacetic Acid	P-Chlorotoluene	M-Dichlorobenzene	1,1,2,2-Tetrachloroethane		
Bromobenzene	Dibromochloromethane	Methomyl	Tetrachloroethene		
Bromochloromethane	Dibromomethane	Methomyl	Trichloroacetic Acid		
Bromodichloromethane	1,1-Dichloroethane	Methylene chloride	1,2,3-Trichlorobenzene		
Bromoform	1,3-Dichloropropane	Methyl tert-butyl ether	Trichloroethene		
Bromomethane	2,2-Dichloropropane	Metolachlor	Trichlorofluoromethane		
Butachlor	1,1-Dichloropropene	Metribuzin	1,2,3-Trichloropropane		
N-Butylbenzene	1,3-Dichloropropene	MTBE	1,2,4-Trimethylbenzene		
Sec-Butylbenzene	Dicamba	Naphthalene	1,3,5-Trimethylbenzene		
Tert - Butylbenzene	Dichlorodifluoromethane	1-Naphthol			
Carbaryl	Dieldrin	Paraquat			