Childersburg Water and Sewer Board

117 6th Avenue Southwest; Childersburg, Alabama 35044

PWSID: AL0001228

2024 Consumer Confidence Report (For the 2023 Drinking Water Period)

The U.S. Environmental Protection Agency (EPA) wants you to know:

The EPA prescribes regulations that limit the amounts of certain contaminants in water provided by public water systems. Food and Drug Administration (FDA) regulations establish limits for contaminants in bottled water that must provide the same protection for public health. 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 Drinking Water Hotline (800-426-4791). 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, may come from sewage treatment plants, septic systems, agricultural livestock operations, and wildlife. *Inorganic contaminants*, such as salts and metals, can be naturally occurring or result from urban storm water runoff, 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, urban storm water runoff, and residential uses. *Organic chemical contaminants*, including synthetic and volatile organic chemicals, 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.

Important Information on Lead:

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 Childersburg Water and Sewer Board 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 Drinking Water Hotline or at http://www.epa.gov/safewater/lead.

Notes:
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 microbial contaminants are available from the Drinking Water Hotline (1-800-426-4791).

Turbidity is a measure of the cloudiness of the water. We monitor it because it is a good indicator of water quality. High turbidity can hinder the effectiveness of disinfectants.

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.

The state allows us to monitor some contaminants less than once per year because the concentrations of these contaminants do not change frequently. Some of our data, though accurate, are more than one year old. This report contains results from the most recent monitoring which was performed in accordance with the regulatory schedule.

Contaminants Monitored	Date Monitored
Inorganic Compounds	2022
Lead and Copper	2022
Microbiological Contaminants	Current
Nitrates	2023
Radioactive Contaminants	2017-2019
Synthetic Organic Contaminants (including herbicides and pesticides)	2022
Volatile Organic Contaminants	2021-2023
Disinfection By-products (TTHM and HAA5)	2023

Table of Primary Drinking Water Contaminants

CONTAMINANT	MCL	Amount Detected	CONTAMINANT	MCL	Amount Detected
Bacteriological			Endothall	100 ppb	ND
Total Coliform Bacteria	< 5%	ND	Endrin	2 ppb	ND
Turbidity	TT	2.67	Epichlorohydrin	TT	ND
Radiological			Glyphosate	700 ppb	ND
Beta/photon emitters (mrem/yr)	4	ND	Heptachlor	400 ppt	ND
Alpha emitters (pCi/L)	15	1.6	Heptachlor epoxide	200 ppt	ND
Combined radium (pCi/L)	5	ND	Hexachlorobenzene	1 ppb	ND
Inorganic			Lindane	200 ppt	ND
Antimony	6 ppb	ND	Methoxychlor	40 ppb	ND
Arsenic	10 ppb	ND	Oxamyl [Vydate]	200 ppb	ND
Barium	2 ppm	0.025	PCBs	500 ppt	ND
Beryllium	4 ppb	ND	Pentachlorophenol	1 ppb	ND
Cadmium	5 ppb	ND	Picloram	500 ppb	ND
Chromium	100 ppb	ND	Simazine	4 ppb	ND
Copper *	AL=1.3 ppm	0.005	Toxaphene	3 ppb	ND
Cyanide	200 ppb	ND	Benzene	5 ppb	ND
Fluoride	4 ppm	1.69	Carbon Tetrachloride	5 ppb	ND
Lead *	AL=15 ppb	ND	Chlorobenzene	100 ppb	ND
Mercury	2 ppb	ND	Dibromochloropropane	200 ppt	ND
Nitrate	10 ppm	1.24	0-Dichlorobenzene	600 ppb	ND
Nitrite	1 ppm	ND	p-Dichlorobenzene	75 ppb	ND
Selenium	50 ppb	ND	1,2-Dichloroethane	5 ppb	ND
Thallium	2 ppb	ND	1,1-Dichloroethylene	7 ppb	ND
***90th percentile of the most recent sampling event.**			Cis-1,2-Dichloroethylene	70 ppb	ND
Organic Chemicals			trans-1,2-Dichloroethylene	100 ppb	ND
2,4-D	70 ppb	ND	Dichloromethane	5 ppb	ND
2,4,5-TP (Silvex)	50 ppb	ND	1,2-Dichloropropane	5 ppb	ND
Acrylamide	TT	ND	Ethylbenzene	700 ppb	ND
Alachlor	2 ppb	ND	Ethylene dibromide	50 ppt	ND
Atrazine	3 ppb	ND	Styrene	100 ppb	ND
Benzo(a)pyrene[PAHs]	200 ppt	ND	Tetrachloroethylene	5 ppb	0.0037
Carbofuran	40 ppb	ND	1,2,4-Trichlorobenzene	70 ppb	ND
Chlordane	2 ppb	ND	1,1,1-Trichloroethane	200 ppb	ND
Dalapon	200 ppb	ND	1,1,2-Trichloroethane	5 ppb	ND
Di-(2-ethylhexyl)adipate	400 ppb	ND	Trichloroethylene	5 ppb	ND
Di-(2-ethylhexyl)phthalates	6 ppb	ND	TTHM	80 ppb	11.4
Dinoseb	7 ppb	ND	Toluene	1 ppm	ND
Diquat	20 ppb	ND	Vinyl Chloride	2 ppb	ND
Chloramines	4 ppm	ND	Xylenes	10 ppm	ND
Chlorite	1 ppm	ND	TOC	TT	0.4
HAA5	60 ppb	5.8	Chlorine	4 ppm	2.72

Table of Unregulated Drinking Water Contaminants

CONTAMINANT	Low Result, PPM	High Result, PPM	CONTAMINANT, PPM	Low Result, PPM	High Result, PPM
1,1 - Dichloropropene	ND	ND	Chloroform	ND	0.0013
1,1,1,2-Tetrachloroethane	ND	ND	Chloromethane	ND	ND
1,1,2,2-Tetrachloroethane	ND	ND	Dibromochloromethane	ND	ND
1,1-Dichloroethane	ND	ND	Dibromomethane	ND	ND
1,2,3 - Trichlorobenzene	ND	ND	Dicamba	ND	ND
1,2,3 - Trichloropropane	ND	ND	Dichlorodifluoromethane	ND	ND
1,2,4 - Trimethylbenzene	ND	ND	Dieldrin	ND	ND
1,3 - Dichloropropane	ND	ND	Hexachlorobutadiene	ND	ND
1,3 - Dichloropropene	ND	ND	p-Isoprpylbenzene	ND	ND
1,3,5 - Trimethylbenzene	ND	ND	M-Dichlorobenzene	ND	ND
2,2 - Dichloropropane	ND	ND	Methomyl	ND	ND
3-Hydroxycarbofuran	ND	ND	MTBE	ND	ND
Aldicarb	ND	ND	Metolachlor	ND	ND
Aldicarb Sulfone	ND	ND	Metribuzin	ND	ND
Aldicarb Sulfoxide	ND	ND	N - Butylbenzene	ND	ND
Aldrin	ND	ND	Naphthalene	ND	ND
Bromobenzene	ND	ND	N-Propylbenzene	ND	ND
Bromochloromethane	ND	ND	O-Chlorotoluene	ND	ND
Bromodichloromethane	ND	ND	P-Chlorotoluene	ND	ND
Bromoform	ND	ND	P-Isopropyltoluene	ND	ND
Bromomethane	ND	ND	Propachlor	ND	ND
Butachlor	ND	ND	Sec - Butylbenzene	ND	ND
Carbaryl	ND	ND	Tert - Butylbenzene	ND	ND
Chloroethane	ND	ND	Trichlorfluoromethane	ND	ND

Table of Secondary Drinking Water Contaminants									
Parameters	**MCLG**	**MCL**	**Low Result**	**High Result**	**Parameters (mg/L)**	**MCLG**	**MCL**	**Low Result**	**High Result**
pH	7	Monitored	7.1	7.9	Aluminum	0	0.2	0.003	0.055
Color, APHA (units)	N/A	15	ND	ND	Copper	N/A	1	0.002	0.005
Odor	N/A	3	ND	ND	Iron	0	0.3	ND	0.02
Foaming Agents	N/A	0.5	ND	ND	Manganese	0	0.05	ND	ND
TDS	0	500	152	228	Silver	0	0.1	ND	ND
Fluoride	N/A	2.0	ND	1.19	Zinc	0	5	ND	ND
Sulfate	0	250	1.41	6.47	Total Hardness	0	Monitored	120	216
Chloride	N/A	250	2.54	3.79	Corrosivity	N/A	N/A	Non-Corrosive	Non-Corrosive

Table of Detected Primary Drinking Water Contaminants

CONTAMINANT	MCLG	MCL	Range Detected			Likely Source of Contamination and Health Affects
Turbidity	N/A	TT	0.05	-	2.67	Soil Runoff
Copper	1.3	AL= 1.3 ppm	ND	-	0.005	Corrosion of household plumbing systems; erosion of natural deposits; leaching from wood preservatives
Fluoride	4	4 ppm	ND	-	1.69	Erosion of natural deposits; Discharge from fertilizer and aluminum factories
Barium	2	2 ppm	0.01	-	0.025	Discharge of drilling wastes; discharge of metal refineries; erosion of natural deposits
Nitrate	10	10 ppm	0.14	-	1.24	Runoff from fertilizer use; leaching from septic tanks, sewage; erosion of natural deposits
Alpha Emitters	0	15 pCi/L	ND	-	1.6	Erosion of natural deposits
Tetrachloroethylene	0	0.0050 ppm	ND	-	0.0037	Discharge from factories and dry cleaners
TTHM	80	80 ppb	ND	-	11.4	By-Product of drinking water chlorination
HAA5	60	60 ppb	ND	-	5.8	By-Product of drinking water chlorination
TOC	N/A	TT	0.2	-	0.4	Naturally present in the environment
Chlorine	MRDLG=4	MRDL= 4 ppm	0.97	-	2.72	Water additive used to control microbes

Definitions

Maximum Contaminant Level (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 (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 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.

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.

Action Level (or AL): The concentration of a contaminant that triggers treatment or other requirement, a water system shall follow.

Treatment Technique (or TT): A required process intended to reduce the level of a contaminant in drinking water.

Nephelometric Turbidity Units (NTU): A measure of clarity.

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

Non-Detect (ND): Not detectable at testing limits.

Parts per Million (PPM): milligrams per liter (mg/l). One part per million corresponds to a single penny in $10,000.

Parts per Billion (PPB): micrograms per liter (ug/l). One part per billion corresponds to a single penny in $10,000,000.

Parts per Trillion (PPT): nanograms per liter (nanograms/l). One part per trillion corresponds to a single penny in $10,000,000,000.

Picocuries per Liter (pCi/L): A measure of radioactivity.

Millirems per Year (mrem/yr): Measure of radiation absorbed by the body.

Standard Units (S.U.): pH of water measures the water's balances of acids and bases. 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.

N/A: Not applicable

FDA: Food and Drug Administration.

CDC: Centers for Disease Control.

EPA: Environmental Protection Agency.

ADEM: Alabama Department of Environmental Management

Water Systems are selected by The Environmental Protection Agency (EPA) to participate in the Unregulated Contaminant Monitoring (UCMR) program to collect nationally representative data for contaminants suspected to be present in drinking water. These contaminants do not have regulatory standards. The monitoring period is between 2018 – 2020. This monitoring is used by the EPA to understand the frequency and level of occurrence of unregulated contaminants in the nation's public water systems. Every five years the EPA develops a new list of UCMR contaminants, largely based on the Contaminant Candidate List (CCL). The detection of a UCMR contaminant does not represent cause for concern, in and of itself.

Childersburg Water and Sewer Board has completed additional testing for PFAS in 2023, as required by Alabama Department of Environmental Management (ADEM). Those results are also included in this table.

Table of Detected UCMR 4 Contaminants and PFAS						
Contaminant	**Minimum Reporting Level (MRL/ug/L)**	**Reference Concentration (ug/L)**	**Range Detected**			**Additional Information**
Perfluoroctanesulfonic Acid (PFOS)	NA	NA	ND	-	0.019	Interim health advisory limit for PFOS is 0.00002 ug/L.
Perfluorooctanoic Acid (PFOA)	NA	NA	ND	-	0.0041	Interim health advisory limit for PFOA is 0.000004 ug/L.
Perfluorohexanesulfonic Acid (PFHS)	NA	NA	ND	-	0.007	No Health Advisory Limit Established.
Perfluoroheptanoic Acid (PFHA)	NA	NA	ND	-	0.0056	No Health Advisory Limit Established.
Perfluorobutanesulfonic Acid (PFBS)	NA	NA	ND	-	0.0037	Final Health Advisory Limit for PFBS is 2.0 ug/L
Perfluorohexanoic Acid (PFHA)	NA	NA	ND	-	0.01	No Health Advisory Limit Established.

Note: EPA has introduced interim health advisory limits for PFOA and PFOS. The interim health advisory limit for PFOS is 0.00002 ug/L. The interim health advisory limit for PFOA is 0.000004 ug/L. The new health advisory limits are lower than the amount which can be detected with current laboratory technology.

UCMR Definitions:

UCMR Minimum Reporting Level (MRL): The minimum concentration that may be reported by a laboratory as a quantified value for a method analyte following analysis. The MRLs were established based on the capability of the analytical method, not based on a level established as "significant" or "harmful".

UCMR Reference Concentration: The reference concentrations are based on publicly-available health information found in the following EPA resources: 2018 Edition of the Drinking Water Standards and Health Advisories Tables [i.e., Health advisories (HA)] and the CCL 4 Contaminant Information Sheets {i.e., Health Reference Levels (HRLs)]. The primary sources of the health information used to derive the guideline values in the resources referenced above are peer-reviewed assessments from EPA or other governmental agencies. The reference concentrations are subject to change as new health assessments are completed. Reference Concentrations are not legally enforceable federal standards.

Health Reference Levels (HRL): The CCL process derives HRLs for screening purposes using available data and can be used in the Regulatory Determination process as risk-derived concentrations against which to evaluate the occurrence data to determine if contaminants may occur at levels of public health concern. HRLs are not final determinations about the level of a contaminant in drinking water that is necessary to protect any particular population and, in some cases, are derived prior to development of a complete exposure assessment using the best available data. HRLs are not legally enforceable federal standards

Health Advisories (HA): Has provide information on contaminants that can cause human health effects and are known or anticipated to occur in drinking water. EPA's health advisories are non-enforceable and non-regulatory and provide technical information to State agencies and other public health officials on health effects, analytical methodologies, and treatment technologies to assist with risk management decisions.

Childersburg Water and Sewer Board
PWSID: AL0001228
256-378-6063

2024 Consumer Confidence Report (CCR)
(For the 2023 Drinking Water Period)

What's the Quality of My Water?

The Childersburg Water and Sewer Board provides clean water to your community and helps to keep you and your family healthy. We take this mission very seriously. Our constant goal is to provide you with a secure and dependable supply of drinking water. Each year, the U.S. Environmental Protection Agency (EPA) and the state of Alabama require all water suppliers to prepare reports like this one. This report covers January 1 through December 31, 2023.

Our water source is groundwater pumped from five wells. We treat your water with chlorination for disinfection and fluoride for dental health.

At the Childersburg Water and Sewer Board, we 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. Please feel free to visit us during our working hours or call if you have questions regarding the contents of this report.

We have learned through our monitoring and testing that some constituents have been detected. The constituents which have been detected are included in this report.

We want our valued customers to be informed about their water quality. If you have any questions about this report or concerning your water quality or our monitoring, please attend any of the regularly scheduled Board meetings. These meetings are held on the second Tuesday of each month at 4:00 pm at our office located at 117 6th Avenue Southwest -- Childersburg, Alabama 35044.

Board Members:
Billy Atkinson, Jr., Chairman
Ken Wesson, Member
Mack Lee, Member
Wesley Allen, Member
Ron Webster, Member
Marquis Marbury, Member

Employees:
Travis Mizzell, General Manager/Water Operator
Howard L. Smith, Assistant General Manager
David Martin, Foreman
Lynn Carpenter, Water Operator
Brandon Martin, Water Operator
Michael Carpenter, Water Operator

As stated above, your water comes from five wells located in the Cambro-Ordovician Limestone/Dolomite Aquifer. The Childersburg Water and Sewer Board has completed a Source Water Assessment for all our water sources. This plan will aid in protecting our water sources. The Source Water Assessment Plan may be reviewed at the Childersburg Water Works and Sewer Board office located at 117 6th Avenue Southwest, Childersburg, Alabama 35044.