THE WATER WORKS BOARD OF THE CITY OF AUBURN 2023 CONSUMER CONFIDENCE REPORT

OUR WATER RESOURCES

The Water Works Board of the City of Auburn (AWWB) is proud to present the 2023 Consumer Confidence Report. In compliance with Federal and State laws, the AWWB routinely monitors for numerous contaminants in your drinking water. The tables in this report present the results of water quality monitoring for the calendar year 2023. Your drinking water met all water quality standards in 2023. This is the 27th issue in a series of water quality reports made available to customers annually, as required by the United States Environmental Protection Agency (EPA). Reports are published mid-year for the previous year's monitoring results.

The AWWB's main water supply comes from Lake Ogletree (pictured above), which is located just southeast of Auburn. Lake Ogletree is approximately 300 acres and is fed primarily by Chewacla and Nash Creeks. The total watershed area contributing to the lake is 33 square miles. Lake Ogletree was used to produce 43.18% of your drinking water in 2023. The AWWB also operates two groundwater wells to meet increasing water demand. These wells draw water from the Chewacla Marble and Hollis Quartzite aquifers. Well #4 contributed 28.37% of your drinking water in 2023. In addition to these sources, the AWWB purchases drinking water from Opelika Utilities, which receives its raw water from Saugahatchee Lake and the Halawakee Creek Embayment on Lake Harding. Drinking water in 2023. Total water use from all sources was 2.89 billion gallons (7.92 million gallons per day), which is the 2nd highest on record for the AWWB.

Most drinking water contaminants originate from surface water runoff from natural deposits, vehicles, industry, construction, farming, and wildlife. In addition to mandatory monitoring of its treatment and distribution system, the AWWB voluntarily performs year-round source water monitoring within the Lake Ogletree watershed for nutrients, bacteria, and taste & odor causing compounds. The City of Auburn also helps protect and manage the Lake Ogletree watershed by both regulating development density within its jurisdiction, and working with property owners to encourage best management practices to manage pollutant runoff. Information on the AWWB's various monitoring programs and reports is available for review at the Bailey-Alexander Water and Sewer Complex, located at 1501 W. Samford Avenue, or online at https://www.auburnalabama.org/water-resource-management. Please call (334) 501-3060 for more information.



Above: Lake Ogletree experienced an extreme drought in 1954. Alabama Polytechnic Institute (later Auburn University) cancelled classes during a week in October due to the water shortage. *Photo credit: Pictorial History of the Loveliest Village by Mickey Logue and Jack Simms, 3rd edition, 2013.*

Below: The Bailey-Alexander Water and Sewer Complex houses field operations, administration, and billing services.



TABLE OF PRIMARY CONTAMINANTS

At high levels some primary contaminants are known to pose health risks to humans. The table below provides a quick glance of primary contaminants monitored for in 2023, and the results of monitoring if contaminants were detected.

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	Bacteriological	MCL	Highest Detected Level	Synthetic Organic Chemicals	MCL	Highest Detected				
Total Coli	form Bacteria	5%	< 5%	2,4,5-TP (Silvex)	50 ppb	ND				
	Radiological	MCL	Highest Detected Level	2,4-D	70 ppb	ND				
Gross Alpha		15 pCi/L	0.353	Alachlor (Lasso)	2 ppb	ND				
Radium-2	228	5 pCi/L	0.674	Atrazine	3 ppb	ND				
	Turbidity	MCL	Highest Detected Level	Benzo(A)Pyrene	200 ppt	ND				
Turbidity	-	TT (NTU)	0.28	Carbofuran	40 ppb	ND				
	Inorganic Chemicals	MCL	Highest Detected Level	Chlordane	2 ppb	ND				
Antimony	1	6 ppb	0.16	Dalapon	200 ppb	ND				
Arsenic		10 ppb	ND	1,2 Dibromo-3-Chloropropane (DBCP)	200 ppt	ND				
Barium		2 ppm	0.0214†	Di(2-Ethylhexl)Adipate	400 ppb	ND				
Beryllium	I	4 ppb	ND	Di(2-Ethylhexl)Phthalate	6 ppb	ND				
Cadmium)	5 ppb	ND	Dinoseb	7 ppb	ND				
Chlorine		4 ppm MRDL	1.56****	Diquat	20 ppb	ND				
Chromiur	n	100 ppb	0.86	Endothall	100 ppb	ND				
Copper		AL = 1.3 ppm	90th percentile value = 0.21	Ethylene Dibromide (EDB)	50 ppt	ND				
Cyanide		200 ppb	ND	Endrin	2 ppb	ND				
Fluoride		4 ppm	1.4	Glyphosate	700 ppb	ND				
Lead		AL = 15 ppb	90th percentile value = 0.865	Heptachlor	400 ppt	ND				
Mercury		2 ppb	ND	Heptachlor Epoxide	200 ppt	ND				
Nickel		100 ppb	0.77†	Hexachlorobenzene (HCB)	1 ppb	ND				
Nitrate		10 ppm	0.532	Hexachlorocyclopentadiene	50 ppb	ND				
Nitrite		1 ppm	ND	Lindane	200 ppt	ND				
Selenium		50 ppb	ND	Methoxychlor	40 ppb	ND				
Thallium		2 ppb	ND	Oxamyl (Vydate)	200 ppb	ND				
Di	sinfection By-products	MCL	Highest Detected Level	Polychlorinated Biphenyls (PCB)	500 ppt	ND				
	alomethanes (TTHMs)	80 ppb	61.00**	Pentachlorphenol	1 ppb	ND				
Haloacoti	ic acids (HAA5)	60 ppb	31.28**	Picloram	500 ppb	ND				
naioaceti		00 ppp		FICIDIAIII	300 pp5					
Chlorite		1 ppm	0.733*** †	Simazine	4 ppb	ND				
	Organic Chemicals		0.733*** + Highest Detected Level							
Chlorite		1 ppm	0.733*** +	Simazine Toxaphene Volatile Organic Chemicals	4 ppb 3 ppb MCL	ND				
Chlorite Total Org	Organic Chemicals anic Carbon LEGEND FO	1 ppm MCL TT (ppm) R TABLES	0.733*** + Highest Detected Level 1.74****	Simazine Toxaphene Volatile Organic Chemicals 1,1,1-trichloroethane	4 ppb 3 ppb MCL 200 ppb	ND ND Highest Detected ND				
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TABLE OF DETECTED CONTAMINANTS

PRIMARY STANDARDS - Mandatory standards set by the Safe Drinking Water Act used to protect public health. These apply to all public water systems.

Contaminant	Units	MCL	MCLG	Highest Detected Level	Range of Detected Levels	Test Dates	Likely Sources		
Turbidity	NTU	тт	N/A	0.28	0.01 - 0.28	Daily	Soil runoff.		
Inorganic Chemicals	Units	MCL	MCLG	Highest Detected Level	Range of Detected Levels	Test Dates	Likely Sources		
Antimony	ppb	6	6	0.16	ND† - 0.16	3/15, 8/15/2023	Discharge from petroleum refineries; fire retardants; ceramics; electronics; solder		
Barium	ppm	2	2	0.0214†	0.0132† - 0.0214†	3/15, 8/15/2023	Discharge of drilling wastes; discharge from metal refineries; erosion of natural deposits.		
Chromium	ppb	100	100	0.86	0.60† - 0.86	3/15, 8/15/2023	Erosion of natural deposits; discharge from steel and pulp mills.		
Chlorine	ppm	MRDL=4	MRDLG=4	1.56****	(Monthly Average) 1.4 - 1.7	70 samples per month	Water additive used to control microbes.		
Copper	ppm	AL = 1.3	1.3	90th percentile value = 0.21	0.0078 - 0.395	July - August	Corrosion of household plumbing systems; erosion of natural deposits.		
Fluoride	ppm	4	4	1.4	ND - 1.4	Daily	Erosion of natural deposits; water additive which promotes strong teeth; discharge from fertilizer and aluminum factories.		
Lead	ppb	AL = 15	0	90th percentile value = 0.865	ND - 1.1	July - August	Corrosion of household plumbing systems; erosion of natural deposits.		
Nitrate	ppm	10	10	0.532	ND† - 0.532	3/15, 8/15/2023	Runoff from fertilizer use; leaching from septic tanks, sewage; erosion of natural deposits.		
Nickel	ppb	100	100	0.77†	0.24† - 0.77†	3/15, 8/15/2023	Corrosion of household plumbing systems; erosion of natural deposits.		
Disinfection Byproducts	Units	MCL	MCLG	Highest Detected Level	Range of Detected Levels	Test Dates	Likely Sources		
Total Trihalomethanes (TTHMs)	ppb	80	N/A	61.00**	27.73** - 61.00**	Quarterly	By-product of drinking water disinfection.		
Haloacetic acids (HAA5)	ppb	60	N/A	31.28**	18.70** - 31.28**	Quarterly	By-product of drinking water disinfection.		
Chlorite	ppm	1	0.8	0.733*** †	0.33† - 0.92†	Monthly	By-product of drinking water disinfection.		
Radiological	Units	MCL	MCLG	Highest Detected Level	Range of Detected Levels	Test Dates	Likely Sources		
Gross Alpha	pCi/L	15	0	0.353	-0.599 - 0.353	3/15, 5/16, 8/16, 10/18/2023	Erosion of natural deposits.		
Radium 228	pCi/L	5	0	0.674	0.0752 - 0.674	3/15, 5/16, 8/16, 10/18/2023	Erosion of natural deposits.		
AWWR NEWS AND PUBLIC INFORMATION									

AWWB NEWS AND PUBLIC INFORMATION

The AWWB continuously strives to provide the highest quality drinking water services for the City's increasing population of 80,006 (2022 U.S. Census Estimate). The AWWB encourages the public to participate in the monthly Board meetings. Board meetings are typically held at 4:00 P.M. on the Thursday following the third Tuesday of each month in the AWWB Conference Room at the Bailey-Alexander Complex located at 1501 W. Samford Avenue. The Water Board members are Brad Wilson (Chair), Bernard Hill, Ph. D. (Vice Chair), David Reaves (Secretary), Thomas Sparrow, and Celeste Norris. If you have any questions concerning public participation or water quality, please call the Water Resource Management Office at (334) 501-3060. If you have questions about setting up an account, water service changes, or billing inquiries, please contact the Utility Billing Office at (334) 501-3050. For additional information, please visit us online at https://www.auburnalabama.org/water-resource-management.

IMPORTANT HEALTH INFORMATION FROM EPA

All drinking water, including bottled water, may be reasonably expected to contain at least small amounts of contaminants. The presence of contaminants does not necessarily indicate that the water poses a health risk. More information about contaminants and potential health effects can be obtained by calling the United States EPA Safe Drinking Water Hotline at 1-800-426-4791. 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 land or through the ground, it dissolves naturally occurring minerals and radioactive material, and can pick up substances resulting from the presence of animals or human activity.

Some people may be more vulnerable to contaminants in drinking water than the general population. Individuals with compromised immune systems such as cancer patients undergoing chemotherapy, organ transplant recipients, individuals who have AIDS or who are HIV-positive, individuals with immune system disorders, elderly persons and infants can be particularly at risk from infections. People at risk should seek advice about drinking water from their health care providers. EPA and the Centers for Disease Control (CDC) guidelines for the appropriate means to lessen the risk of infection by Cryptosporidium and other microbiological contaminants are available from the Safe Drinking Water Hotline at 1-800-426-4791.

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 AWWB 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 https://www.epa.gov/ground-water-and-drinking-water/basic-information-about-lead-drinking-water.

TABLE OF DETECTED CONTAMINANTS

SECONDARY STANDARDS - non-mandatory standards established as guidelines to assure good aesthetic qualities such as taste, color, and odor.

Inorganic Chemicals	Units	MCL	MCLG	Highest Detected Level or Annual Average (*)	Range of Detected Levels	Test Dates	Likely Sources			
Chloride	ppm	250	N/A	12.8†	5.75 - 12.8†	3/15, 8/15/2023	By-product of drinking water disinfection.			
Iron	ppb	300	N/A	70	ND - 70	Daily	Erosion of natural deposits.			
Manganese	ppb	50	N/A	40	0.37† - 40	Daily	Erosion of natural deposits; runoff from landfills.			
Sulfate	ppm	500	N/A	26.2†	ND† - 26.2†	3/15, 8/15/2023	Erosion of natural deposits.			
Total Dissolved Solids	ppm	500	N/A	110†	75.6 - 110†	3/15, 8/15/2023	Erosion of natural deposits.			
Zinc	ppm	5	N/A	0.137	0.005†-0.137	3/15, 8/15/2023	Corrosion inhibitor.			
рН	units	6.5-8.5	N/A	7.27*	6.60 - 7.50	Daily	Natural deposits; treatment at water plant.			
Aluminum (see note below)	ppm	0.2	N/A	0.214†	ND - 0.214†	3/15, 8/15/2023	Erosion of natural deposits.			
Opelike Water had a Secondary MCL exceedance for Aluminum in August 2022 Aluminum was retected in Sectomber 2022 and the result was below the MCL (0.122 nnm)										

Opelika Water had a Secondary MCL exceedance for Aluminum in August, 2023. Aluminum was retested in September, 2023, and the result was below the MCL (0.132 ppm).

Chemicals	Units	MCL	MCLG	Highest Detected Level or Annual Average (*)	Range of Detected Levels	Test Dates	Likely Sources
Calcium	ppm	N/A	N/A	11.7	3.48† - 11.7	3/15, 8/15/2023	Natural deposits; treatment at water plant.
Specific Conductance	μS/cm	N/A	N/A	176†	118 - 176†	3/15, 8/15/2023	Natural deposits.
Carbon Dioxide	ppm	N/A	N/A	13.12*	7 - 28.2†	Daily	Natural deposits.
Magnesium	ppm	N/A	N/A	4.75	1.95† - 4.75	3/15, 8/15/2023	Natural deposits.
Sodium	ppm	N/A	N/A	28.1†	4.7 - 28.1†	3/15, 8/15/2023	Natural deposits.
Alkalinity	ppm	N/A	N/A	57.58*	28† - 88	Daily	Natural deposits.
Total Hardness	ppm	N/A	N/A	48.8	16.7† - 48.8	3/15, 8/15/2023	Natural deposits.
Unregulated Organic Chemicals	Units	MCL	MCLG	Highest Detected Level	Range of Detected Levels	Test Dates	Likely Sources
Total Organic Carbon	ppm	Π	N/A	1.74****	1.49***** - 1.74*****	Monthly	Naturally present in the environment.

PER & POLYFLUOROALKYL COMPOUNDS (PFAS) - a group of manufactured chemicals used in a variety of industries and products since the 1940s. PFAS compounds are found in a wide range of consumer goods, and there is evidence that exposure to high levels of PFAS may lead to adverse health outcomes. The EPA recently announced new MCL's and MCLG's for PFAS compounds in drinking water. More information is available from the EPA at <u>https://www.epa.gov/pfas</u>.

PFAS Compound	Units	Highest Detected Level	Range of Detected Levels	Test Dates
	Onics	Tighest Detected Level	hange of Detected Levels	
11 CI-PF3OUdS	ppt	ND	ND	3/15, 4/19, 8/2, 10/18/2023
9CI-PF3ONS	ppt	ND	ND	3/15, 4/19, 8/2, 10/18/2023
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	ppt	ND	ND	3/15, 4/19, 8/2, 10/18/2023
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ppt	ND	ND	3/15, 4/19, 8/2, 10/18/2023
N-EtFOSAA	ppt	ND	ND	3/15, 4/19, 8/2, 10/18/2023
N-MeFOSAA	ppt	ND	ND	3/15, 4/19, 8/2, 10/18/2023
Perfluorobutanesulfonic acid (PFBS)	ppt	2.9	ND - 2.9	3/15, 4/19, 8/2, 10/18/2023
Perfluorodecanoic acid (PFDA)	ppt	ND	ND	3/15, 4/19, 8/2, 10/18/2023
Perfluorohexanoic acid (PFHxA)	ppt	6.4†	ND - 6.4†	3/15, 4/19, 8/2, 10/18/2023
Perfluorododecanoic acid (PFDoDa)	ppt	ND	ND	3/15, 4/19, 8/2, 10/18/2023
Perfluoroheptanoic acid (PFHpA)	ppt	3.29	ND - 3.29	3/15, 4/19, 8/2, 10/18/2023
Perfluorohexanesulfonic acid (PFHxS)	ppt	2.41	ND - 2.41	3/15, 4/19, 8/2, 10/18/2023
Perfluorononanoic acid (PFNA)	ppt	ND	ND	3/15, 4/19, 8/2, 10/18/2023
Perfluorooctanesulfonic acid (PFOS)	ppt	8.4†	1.4 - 8.4†	3/15, 4/19, 8/2, 7/18, 10/18/2023
Perfluorooctanoic acid (PFOA)	ppt	9.8†	ND† - 9.8†	3/15, 4/19, 8/2, 7/18, 10/18/2023
Perflourotetradecanoic acid (PFTeDA)	ppt	ND	ND	3/15, 4/19, 8/2, 10/18/2023
Perfluorotridecanoic acid (PFTrDA)	ppt	ND	ND	3/15, 4/19, 8/2, 10/18/2023
Perfluoroundecanoic acid (PFUnA)	ppt	ND	ND	3/15, 4/19, 8/2, 10/18/2023

UNREGULATED CONTAMINANTS - EPA uses the Unregulated Contaminant Monitoring Rule (UCMR-5) to collect data for contaminants that are suspected to be present in drinking water but do not have health-based standards set under the Safe Drinking Water Act. The results below were collected in 2023 in water purchased from Opelika Water before entering the AWWB distribution system. The AWWB is scheduled to collect UCMR-5 data from its own distribution system in 2025.

UCMR-5 Contaminant	Units	Highest Detected Level	Range of Detected Levels	Test Dates	UCMR-5 Contaminants Tested For, But Not Detected		
PFBS	ppt	2.4†	ND† - 2.4†	Quarterly	11Cl-PF3OUdS	PFDA	PFUnA
PFHxA	ppt	5.6†	ND† - 5.6†	Quarterly	4:2 FTS	PFEESA	NEtFOSAA
PFBA	ppt	3.3†	ND† - 3.3†	Quarterly	6:2 FTS	PFHps	NMeFOSAA
PFPeA	ppt	6.4†	ND† - 6.4†	Quarterly	8:2 FTS	PFMBA	PFTA
PFHpA	ppt	2.8†	ND† - 2.8†	Quarterly	9CI-PF3ONS	PFMPA	PFTrDA
PFHxS	ppt	1.7†	ND† - 1.7†	Quarterly	ADONA	PFPeS	Lithium
PFOS	ppt	6.4†	ND† - 6.4†	Quarterly	HFPO-DA	PFDoA	
PFOA	ppt	11.0†	ND† - 11.0†	Quarterly	NFDHA	PFNA	

WATER TREATMENT PROCESS

Water is pumped from Lake Ogletree to the James Estes Water Treatment Plant. At the plant, a staff of highly trained employees are responsible for the proper maintenance and operation of the various equipment and treatment infrastructure to ensure that your water is consistently treated to levels that meet or exceed Federal and State water quality standards. Below is a diagram outlining this process.

