



Best Operated Award - 2014, 2018, 2019, 2020 Award of Excellence - 2013, 2015, 2016, 2017

SCOTTSBORO WATERWORKS, SEWER AND GAS BOARD SCOTTSBORO, ALABAMA 2022 WATER QUALITY REPORT

We are once again proud to provide this water quality report for the customers of the Scottsboro Waterworks, Sewer and Gas Board. This is a summary report for hundreds of water samples taken between January 1, 2022 and December 31, 2022. This report meets the Federal Safe Drinking Water Act (SDWA) requirement for "Consumer Confidence Reports" and contains information on the source of our water, its constituents, and the health risks associated with any contaminants. Safe water is a vital part of our community. Please read this report carefully and, if you have questions, call the numbers listed below. We would be pleased to hear your thoughts on the information in this report.

Scottsboro Waterworks, Sewer and Gas Board's drinking water meets or surpasses all federal and state drinking water standards.

Call us for information about the next opportunity for public participation in decisions about our drinking water at 256.574.1515. More information is available on the World Wide Web at www.epa.gov/drink or the Safe Drinking Water Hotline at 800.426.4791. The Scottsboro Waterworks, Sewer and Gas Board of Directors are Mr. William J. Parks, Chairman; Mr. Reid Henshaw, Vice-Chairman; Mr. Tommy Crumbly, Member; Mrs. Elna Matthews, Member; Mr. Charles Yarbrough, Member, and Mr. Jimmy Green, Secretary/Treasurer. Regular scheduled meetings are every second Tuesday of each month at 4:00 PM held at the Board's business office located at 404 East Willow Street, Scottsboro, Alabama. You are welcome to attend.

Water Source

Scottsboro Waterworks, Sewer and Gas Board is supplied by surface water from the Tennessee River and Lake Guntersville Reservoir. The Jones Water Filtration Plant is located at 3001 Veterans Drive (Highway 35) and North Sauty Creek Water Treatment Plant is located at 5800 Alabama Highway 79.

An Explanation of the Water Quality Data Table

This report is based upon tests conducted in the year 2022 by the Scottsboro Waterworks, Sewer and Gas Board. Terms used in the Water Quality Table and in other parts of this report are defined here.

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 the best available treatment technology.

Maximum Contaminant Level Goal or MCLG: The level of a contaminant in a drinking water below which there is no known or expected risk to health. MCLGs allow for a margin of safety.

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

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

DEFINITIONS

AL = Action Level

CP = Total Coliform Present

MCLG = Maximum Contaminant Level Goal

mrem/year = millirems per year

pCi/l = picocuries per liter

ppb = part per billion or micrograms per liter (ug/l)

ppq = part per quadrillion or picograms per liter

su = standard units

#/100 = number per 100 mL of sample

HRAA = Highest Rolling Annual Average (7 Quarters)

RAA = Rolling Annual Average (23 Months)

NA = Not Applicable; Not Available

LT2ESWTR = Long Term 2 Enhanced Surface Water

Treatment Rule

90th Percentile = 90% of samples are equal to or less than the

number in the chart

MCL = Maximum Contaminant Level

MDL = Minimum Dectection Level

NTU = Nephelometric Turbidity Unit

MFL = million fibers per liter

ppm = part per million or milligrams per liter (mg/l)

ppt = part per trillion or nanograms per liter

TT = Treatment Technique (Footnote 1)

mhos @ 25 = microohms @ 25° Celsius

org./L = organisms per liter

EPA = Environmental Protection Agency

ADEM = Alabama Department of Environmental Management

DSE = Distribution System Evaluation

CDC = Center for Disease Control

TABLE OF DETECTED CONTAMINANTS

CONTAMINANT	DATE TESTED	UNIT	MCL	MCLG	DETECTED LEVEL	RANGE	MAJOR SOURCE VIO	LATION	
Inorganic Contaminants - Primary									
Barium	2022	ppm	2.00	2.00	0.019	0.015 - 0.019	Naturally occurring in the environment; erosion of natural deposits	NO	
Fluoride	2022	ppm	4.00	4.00	0.80	0.60 - 0.80	Erosion of natural deposits; water additive that promotes dental health	NO	
Nitrogen, Nitrate as NO3-N	2022	ppm	10.00	10.00	0.36	0.29 - 0.36	Runoff from fertilizer use; leaching from septic tanks; erosion of natural deposits	NO	
Inorganic Contaminants - Seco	ndarv								
Aluminum	2022	ppm	0.2	N/A	0.034	0.025 - 0.034	Naturally occuring in the environment or as a result of treatment with water	NO	
Total Alkalinity	2022	ppm			94.8	71.1 - 94.8	additives Alkalinity comes from the bicarbonate, hydroxide components of a natural or treated water supply		
Calcium	2022	ppm			34.7	23.3 - 34.7	Naturally occuring in the environment or as a result of treatment with water		
Carbon Dioxide	2022	ppm			25.7	19.5 - 25.7	additives Erosion of natural deposits or as a result of treatment with water additives		
Chloride	2022	ppm	250.00	N/A	15.6	13.4 - 15.6	Naturally occuring in the environment or as a result of industrial discharge or agricultual runoff	NO	
Chlorine	2022	ppm	4.00	4.00	2.00 RAA	0.20 - 2.20	Water Additive used to Control Microbes	NO	
Hardness	2022	ppm			103.0	76.5 - 103	Calcium carbonate occurs as erosion of natural deposits		
Magnesium	2022	ppm			4.50	3.9 - 4.5	Naturally occuring in the environment or as a result of treatment with water additives		
pH	2022	su			8.00	6.90 - 8.00	pH identitifies the presence of acid or base in the water		
Sodium	2022	ppm			8.30	5.9 - 8.3	Erosion of natural deposits		
Specific Conductance	2022	mhos@25			249	210 - 249	Naturally occuring in the environment or as a result of treatment with water additives	3	
Sulfate	2022	ppm	250.00	N/A	10.60	7.2 - 10.6	Naturally occuring in the environment; erosion of natural deposits	NO	
Total Dissolved Solids	2022	ppm	500.00	N/A	139	122 - 139	Naturally occuring in the environment or as a result of industrial discharge or agricultural runoff	NO	
Microbiological Contaminants Turbidity (TT) ¹	2022	NTU	TT/0.300	N/A	0.098	0.013 - 0.098	Soil runoff	NO	

Water Quality Table Footnotes

Treatment Technique (TT): Water at the raw water pumping station is chemically treated with sodium permangante to oxidize iron, maganese, and organic materials. Once inside the filter plant, the water is dosed with poly-aluminum chloride as a coagulant, powdered-activated carbon to control seasonal taste and odor-producing compounds, copper sulfate to control algae growths, pre-filter and post-filter chlorination for disinfection, fluoride to promote dental health, an inorganic phosphate to control corrosion of metal pipes, and sodium hydroxide for pH stability. Mechanical treatment processes include: flash mixing, flocculation, sedimentation, and rapid sand filtration.

^{1.} Turbidity is a measure of the clarity or cloudiness of the water. Turbidity in water is caused by the presence of suspended material such as clay, silt, sand, salt, and organic matter. For many decades, turbidity has been used as an indicator of drinking water quality and as an indicator of the efficiency of drinking water coagulation, flocculation, sedimentation and filtration processes.

TABLE OF DETECTED CONTAMINANTS

CONTAMINANT	DATE TESTED	UNIT	MCL	MCLG	DETECTED LEVEL	RANGE	MAJOR SOURCE \	/IOLATION
Volatile Organic Contaminants								
Chloroform	2022	ppb			22.0	11.0 - 22.0	By-product of drinking water disinfection	n NO
Bromodichloromethane	2022	ppb			4.30	3.90 - 4.30	By-product of drinking water disinfection	n NO
Synthetic Organic Contamina	nts							
2, 4-d	2020	ppb	70		0.67	<0.10 - 0.67	Herbicide used in in Agri./Residential applications	NO
Atrazine	2020	ppb	3		0.44	<0.095 - 0.44	Herbicide used in in Agri./Residential	NO
Metolachlor	2020	ppb			0.30	0.10 - 0.30	applications Herbicide used in in Agri./Residential applications	
Stage 2 Disinfection/Disinfection By-Product Rule HRAA								
Total Trihalomethanes [TTHMs]	2022	ppb	80		56.8	32.75 - 56.75	By-product of drinking water disinfection	n NO
Haloacetic Acids 5 [HAA5s]	2022	ppb	60		39.3	19.5 - 39.3	By-product of drinking water disinfection	n NO
Distribution System Evaluation	on (DSE)				HRAA			
Total Trihalomethanes [TTHMs]	2017	ppb	80		50.5	30.8 - 50.5	By-product of drinking water disinfection	n NO
Haloacetic Acids 5 [HAA5s]	2017	ppb	60		25.9	16.6 - 25.9	By-product of drinking water disinfection	n NO
These tap water samples were collected from over 30 sites throughout our community (Detected Level Reported for 90th Percentile)								
Lead	2022	ppm	AL=0.015	5	0.001	<0.001 - 0.001	Corrosion of household plumbing systems; Erosion of natural deposits.	NO
Copper	2022	ppm	AL=1.3		0.052	0.0045 - 0.052	Corrosion of household plumbing systems; Erosion of natural deposits.	NO

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 household plumbing. Scottsboro Waterworks, Sewer and Gas 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 Safe Drinking Water Hotline (800.426.4791) or http://epa.gov/safewater/lead

Unregulated Contaminant Monitoring Rule 4 (UCMR4) tested in 2018 with results less than MDL:

Total Microcystin, Microcystin-LA, Microcystin-LF, Microcystin-LY, Microcystin-RR, Microcystin-YR, Nodularin Anatoxin-a, Cylindrospermopsin

Unregulated Contaminant Monitoring Rule 4 (UCMR4) tested in 2019 with results less than MDL:

Germanium, Alpha-hexachlorocyclohexane, Chlorpyrifos, Dimethipin, Ethoprop, Oxyfluorfen, Profenofos, Tebuconazole, Total Permethrin, Tribufos, Butylated Hydroxyanisole, Quinoline, 1-butanol, 2-Methoxyanisole, 2-propen-1-ol

Unregulated Contaminant Monitoring Rule 4 (UCMR4) tested in 2020 with results less than MDL:

Germanium, Alpha-hexachlorocyclohexane, Chlorpyrifos, Dimethipin, Ethoprop, Oxyfluorfen, Profenofos, Tebuconazole, Total Permethrin, Tribufos, Butylated Hydroxyanisole, Quinoline, 2-Methoxyanisole, 2-propen-1-ol

Unregulated Contaminant Monitoring Rule 4 (UCMR4)

o-Toluidine	ppb	 	0.0041	<0.0022 - 0.0041
1-Butanol	ppb	 	0.73	<0.67 - 0.73
HAA5	ppb	 	41.0	19.3 - 41.0
HAA6Br	ppb	 	11.4	2.9 - 11.4
HAA9	ppb	 	50.4	26 - 50.4
Bromide	ppb	 	25.5	8.9 - 25.5
Total Organic Carbon	ppb	 	2610	1620 - 2610
Manganese	ppb	 	0.76	<0.13 - 0.76

TABLE OF UNDETECTED CONTAMINANTS

Inorganic Contaminants tested in 2022 with resluts less than the MDL:

Antimony, Arsenic, Beryllium, Cadmium, Chromium, Color, Cyanides, E-coli, Iron, Lead, Manganese, MBA's, Mercury, Nickel, Nitrite, Odor, Selenium, Silver, Thallium, Total Coliform, and Zinc

Volatile Organic Contaminants tested in 2022 with results less than the MDL:

1, 1-Dichloroethane 1, 1, 1, 2-Tetrachloroethane Ethylbenzene 1, 1-Dichloroethene 1, 1, 2, 2-Tetrachloroethane Hexachlorobutadiene 1, 1-Dichloropropene 2, 2-Dichloropropane Isopropylbenzene 2-Chlorotoluene 1, 2-Dichlorobenzene Methyl tert-Butyl Ether 1, 2-Dichloroethane 4-Chlorotoluene Methylene Chloride 1, 2-Dichloropropane 4-Isopropyltoluene n-Butylbenzene 1, 3-Dichlorobenzene Benzene n-Propylbenzene 1, 3-Dichloropropane Bromobenzene Naphthalene 1, 3-Dichloropropene Bromochloromethane sec-Buthylbenzene

1, 4-Dichlorobenzene Bromomethane Styrene

1, 1, 1-TrichloroethaneCarbon Tetrachloridetert-Butylbenzene1, 1, 2-TrichloroethaneChlorobenzeneTetrachloroethene

1, 2, 3-Trichlorobenzene Chloroethane Toluene

1, 2, 4-Trichlorobenzene Chloromethane trans- 1,2-Dichloroethene

1, 2, 3 - Trichloropropanecis- 1, 2-DichloroetheneTrichloroethene1, 2, 4-TrimethylbenzeneDibromomethaneTrichlorofluoromethane

1, 3, 5-Trimethylbenzene Dichlorodifluoromethane Vinyl Chloride

Bromoform Dibromochloromethane Xylenes (ortho-para-meta)

Synthetic Organic Chemicals (SOC's) tested in 2020 with results less than the MDL:

2, 4, 5-TP (Silvex)GlyphosateAldicarbAlachlorHeptachlorAldicarb sulfoneBenzo(a)pyreneHeptachlor epoxideAldicarb sulfoxide

Carbofuran Hexachlorobenzene Aldrin Chlordane Butachlor Hexachlorocyclopentadiene Dalapon gamma-BHC Carbarvl Methoxychlor Dicamba 1, 2 - Dibromo-3-chloropropane Dieldrin bis(2)-Ethylhexyl)adipate Oxamyl Total Polychlorinated Biphenyls bis(2)-Ethylhexyl)phthalate Methomyl Pentachlorophenol Metribuzin Dinoseb Diquat Picloram Propachlor

1,2-Dibromoethane Simazine Endothall Toxaphene

Endrin 3-Hydroxycarbofuran

Synthetic Organic Chemicals (SOC's) tested in 2021 with results less than the MDL:

2,4-d

Additional Water Quality Testing

Scottsboro Water, Sewer and Gas Board tested the Raw Water in the Tennessee River and North Sauty Creek on a monthly basis from April 2015 thru March 2017 for Cryptosporidum, Giardia, E.coli, Total Coliform, and Turbidity. Scottsboro Water, Sewer and Gas Board tested for the following additional contaminants: ALPHA, Gross & Radium-228 tested in 2021, results <MDC.



P.O. Box 550 Scottsboro, al 35768

Required Additional Information

To ensure that tap water is safe to drink, EPA prescribes limits on the amount of certain contaminants in water provided by public water systems. FDA regulations establish limits for contaminants in bottled water.

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 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 materials and can pick up substances resulting from the presence of animals or from human activity. Contaminants that may be present in source water include:

- [A] Microbial contaminants, such as viruses and bacteria, which may come from sewage treatment plants, septic systems, agricultural livestock operations and wildlife.
- [B] Inorganic contaminants, such as salts and metals, which can be naturally-occuring or result from urban storm runoff, industrial or domestic wastewater discharges, oil and gas production, mining or farming.
- [C] Pesticides and herbicides, which may come from a variety of sources such as agriculture, stormwater runoff, and residential uses.
- [D] Organic chemical contaminants, including synthetic and volatile organics, which are by-products of industrial processes and petroleum production, and can also come from gas stations, urban stormwater runoff and septic systems.
- [E] 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 amount of certain contaminants in water provided by public water systems. FDA regulations establish limits for contaminants in bottled water which must provide the same protection for public health. Some people may be more vulnerable to contaminants in drinking water than is 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 infections by Cryptosporidium and other microbiological contaminants are available from the Safe Drinking Water Hotline 800.426.4791

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 any of these contaminants was not required.

National Primary Drinking Water Regulation Compliance

Source Water Assessment

A source water assessment has been completed for our area to provide baseline data about quality of water before it is treated and distributed to our customers. Information regarding this source water assessment can be obtained from the Scottsboro Waterworks, Sewer and Gas Board or the Alabama Department of Environmental Management (ADEM).

For more information, call the Scottsboro Waterworks, Sewer and Gas Board at 256.574.1515.

Water Quality Data for community water systems throughout the United States is available at www.epa.gov/drink