## **2024 Annual Water Quality Report**

(Testing Performed January through December 2024)

PFDoA

PFEESA

PFHpA

PFHpS

Gross Alpha

Gross Beta

Turbidity

Barium

Copper

Lead

Fluoride

Nitrate (as Nitrogen)

Unregulated Cont Chloroform

Perfluorooct

Alumi

Iron

pН

Manga

Sulfate

Total Dis

Contar

Turbidity

Barium

Copper

Fluoride

Nitrate (as Nitrogen)

THM - Total trihald

HAA5 -Total ha

Bromodichloror

Secondary Co

Alumi

Mano

Sodium

Sulfate

Total Dissolved Solids

Contaminants

Chlorine

Coppe

Lead

Barium

Nitrate

Sodium

' Figure sh

is 90th per

Chromium

pН

Chloride

Hardness

rooctanoic Acid

Chloroforn

Specific Conductance

Chloride

TTHM -Total trihalomethane

HAA5 -Total haloacetic acids

noic Acid

Viola Y/N

NO

NO

NC

NO

Viola Y/N

NO

Violat Y/N

NO

NO

NO

NO

NO

NO

NO

Level Detect

NΓ

ND

0.6-2.5 1.55 avg

0.0244

0.017

ND

0.452

0.878

28.9 LRAA 15.8-57.0

33.2 LRAA

0.0098

0.0068

9.81

0.0607

10.6

82.8

ND

ND

6.5

205.0

5.11

19.8

114

Level Detecte

1.9 avg. 1.61 – 2.20

0.10

0.0199

0.0015

0.831

1.08

22.9 avg.

23.4 avg 1.0 – 42.6

2.10

2.2

9.81

0.0831

12.9

68.0

0.031

0.0048

7.2

7.31

8.59

129

0.80-1.60

0.04

0.015

0.009

0.005

0.204

0 140

Level

Dete

We are pleased to present to you this year's Annual V Quality Report. This report is designed to inform you water quality and services we deliver to you every da you to understand the efforts we make to continually the water treatment process and protect our water res We are committed to providing our customers with th and highest quality drinking water possible. This Wat Report is required by the Safe Drinking Water Act an you where your water comes from, what tests by ind laboratories show about it and other information you know about your drinking water.

Our surface water treatment plant is located at 16531 Hwy 72, where we source water from the Tennessee I The treatment process utilizes coagulation, sedimentation flocculation, disinfection and filtration.

The Colbert County Rural Water System is governed Colbert County Commission. Commission members follows:

> County Commissioners Tommy Barnes - District 1 W. Tyrus Mansell - District 2 Jimmy Gardiner - District 3 Tori Bailey – District 4 Darol Bendall – District 5 David C. Isom - District 6 Jeremy Robison - County Engineer

If you have any questions about this report or concerning your water utility, please contact Jeremy Robison, County Engineer, 256-386-8504. 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 first and third Tuesday of each month at 5:00 p.m. at the Colbert County Courthouse.

On March 14, 2023, the EPA announced the proposed National Primary Drinking Water Regulation (NPDWR) to establish legally enforceable levels for six PFAS in drinking water. On April 10, 2024, the EPA finalized its proposed NPDWR, and announced its expectation that "over many years the final rule will prevent PFAS exposure in drinking water for approximately 100 million people, prevent thousands of deaths, and reduce tens of thousands of serious PFAS-attributable illnesses."

The EPA's new regulation provides a window of up to five years for public water systems to reach full compliance. Colbert County Rural Water has been monitoring PFAS, notifying the public of the levels of these PFAS, and undertaking efforts to evaluate how best to reduce the levels of these PFAS in drinking water. Due to the unique chemical properties of PFAS, conventional water treatment plants are incapable of fully removing PFAS from drinking water.

As a result, CCRW is evaluating state-of-the-art water filtration systems to reduce PFAS to non-detectable levels. CCRW is currently working with our engineers to select the best method of removing PFAS from our water supply.

CCRW does not believe that the past, present and future capital costs and increased operational expenses associated with removing PFAS from our water supply should be the responsibility of our ratepayers. For that reason, we engaged and retained outside legal counsel with extensive experience in PFAS litigation to evaluate and litigate claims against those responsible for the PFAS chemicals in our water supply. CCRW filed suit in the Circuit Court of Colbert County, Alabama in 2023 and while we cannot comment on pending litigation, our lawsuit against PFAS chemical manufacturers and others responsible for the PFAS contamination is moving forward in the Circuit Court of Colbert County, Alabama. It remains our goal to hold those that contaminated our water supply with PFAS responsible for all past, present, and future costs associated with removing their PFAS contamination from our drinking water.

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).

Source Water Assessment: We have developed a source water protection plan that can be reviewed in our office. This plan provides additional information such as potential sources of contamination. No sites evaluated pose a significant risk to our customers. It includes a susceptibility analysis, which classified potential contaminants as high, moderate, or non-susceptible (low) to contaminating the water source. It has been determined by the assessment that the source water susceptibility ranking has a low-risk potential. The assessment has been performed, public notification has been completed, and the plan was approved by ADEM. Anyone wishing to review the SWAP can review it at our office (appointment required). Please help us make this effort worthwhile by protecting our source of 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.

### UCMR5

The Safe Drinking Water Act (SDWA) requires that once every five years the EPA issues a list of unregulated contaminants to be monitored by public water systems (PWSs).

The fifth Unregulated Contaminant Monitoring Rule (UCMR 5) was published on December 27, 2021. UCMR 5 requires sample collection for 30 chemical contaminants between 2023 and 2025 contection for 50 chemical contaminants between 2025 and 2025 using analytical methods developed by the EPA and consensus organizations. This action provides the agency and other interested parties with scientifically valid data on the national occurrence of these contaminants in drinking water. The next table is a list of the contaminants that are being tested for during the LICMUE chemical the heiner with the UCMR5 along with their results.

Vater a about the y. We want improve ources. e safest ter Quality d tells spendent schould	Colbert County Rural Water Unregulated Contaminant Rule 5 (UCMR5) Contaminants							
	Contaminants	Unit Msmt	Level Detected	Contaminant				
	Lithium	ppt	ND	PFHxA	Γ			
	11CI-PF3OUdS	ppt	ND	PFHxS	Γ			
	4:2 FTS	ppt	ND	PFMBA	T			
should	6:2 FTS	ppt	ND	PFMPA				
US	8:2 FTS	ppt	ND	PFNA				
	9CI-PF3ONS	ppt	ND	PFOA	Γ			
ation,	ADONA	ppt	ND	PFOS				
	HFPO-DA	ppt	ND	PFPeA	Γ			
by the are as	NFDHA	ppt	ND	PFPeS				
	PFBA	ppt	8.6	PFUnA	Γ			
	PFBS	ppt	5.6	NEtFOSAA				
	PFDA	ppt	ND	NMeFOSAA	Γ			

ppt

ppt

ppt

ppt

Colbert County Rural Wa Detected Drinking Water

рСі/

pCi/l

NTU

ppm

ppm

ppm

ppm

ppm

ppb

ppb

ppb

ppt

ppm

ppm

ppm

ppm

S.U.

umhos

ppm

ppm

ppm

NTU

ppm

ppm

ppm

pom

ppb

ppb

ppb

ppb

ppt

ppm

ppm

ppm

S.U.

ppm

ppm

luka Detected Drinking Water Contaminants

Unit MCLG

ppm 4.0

ppm

ppm

ppm

ppm 0.1

ppm

ppb

el (AL)

ND

ND

ND

MCLG

2 2

1.3 AL=1 .3

.15

4 4

10 10

0

0 60

0

n/a

n/a 250

n/a n/a

n/a 0.30

n/a

n/a

n/a

n/a

MCLG

n/a

2 2

1.3 AL=1 . 3

10 10

0

0

n/a

n/a

n/a n/a

n/a 0.30

n/a 0.05

n/a n/a

n/a

n/a 250

n/a 500

1.3

.15

2

10

20

n/a

MCL

4.0

AL=1.3

AL=.15

2

0.1

10

20

n/a 250

0

n/a

AL=. 15

80

4.0

PFTA

PFTrD

Erosion of natura

Erosion of natural deposits

Colbert (	County Rural	Water Sy	stem AL0000314
	2750 Hwy 20 • Tu	iscumbia, AL 35	5674

4.5

3.4

ND

ND

ND

13.0 23.2

3.0

ND

ND

ND

ND

ND

ND

Unit Msmt Level Detect

ppt

ppt

ppt

ppt ppt

ppt

ppt

ppt

ppt

ppt

ppt

ppt

ppt

ppt

Likely Source of Contaminatio

Discharge of drilling wastes; discharge from metal refineries; erosion of natural deposits

Corrosion of household plumbing systems; erosion of natural deposits; leaching of preservatives

Corrosion of household plumbing systems; erosion of natural deposits

Erosion of natural deposits, water additive which promotes strong teeth: Discharge from factories

Runoff from fertilizer use; leaching from sep tanks, sewage; erosion of natural deposits

By-product of drinking water chlorination

By-product of drinking water chlorination

n/a n/a Naturally occurring; industrial discharge; agricultural runoff

0.2 Erosion; treatment with water add

n/a 0.05 Occurs naturally

250

MCL

TT Soil runof

4 4

80

60

n/a

n/a

n/a Product that resists heat, oil, stains, grease, and water

Naturally occurring; treatment with water as

Occurs naturally or from water treatment

n/a Naturally occurring; treatment with water add

<500 Occurs naturally or from water treatment

n/a n/a Naturally occurring in the environment

ccurring; industrial discharge; ag

Naturally occurring; industrial discharge; agricultural runoff

Naturally occurring; industrial discharge; agricultural runoff

Likely Source of

Discharge of drilling wastes; discharge from meta refineries; erosion of natural deposits

Erosion of natural deposits, water additive which promotes strong teeth: Discharge from factories

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Nater additive used to control microbes

By-product of drinking water chlorination

Runoff from fertilizer use; leaching from septi tanks, sewage; erosion of natural deposits

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Occurs naturally or from water treatment

Naturally occurring in the environment

Runoff from fertilizer use; leaching from septic tanks, sewage; erosion of natural deposits

By-product of drinking water chlorina

By-product of drinking water chlorin

n/a n/a Product that resists heat, oil, stains, grease, and water

0.2 Erosion; treatment with water additives

Occurs naturally

Corrosion of household plumbing systems; erosion of natural deposits; leaching of preservatives

500 Naturally occurring; industrial discharge; agricultural runoff

Phone 256-386-8504 Hours: 6:00 am -2:30 pm, Monday- Friday

### 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 as new health assessments are completed. Reference Concentrations are not legally enforceable federal standards.

Iegaily enforceable rederal 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.

Level 1 Assessment: "A Level 1 assessment is a study of the water system to identify potential problems and determine (if possible) why total coliform bacteria have been found in our water system.'

Level 2 Assessment: "A Level 2 assessment is a very detailed study of the water system to identify potential problems and determine (if possible) why an E. coli MCL violation has occurred and/or why total coliform bacteria have been found in our water system on multiple occasions.

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

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. Turbidity has no health effects. However, turbidity can interfere with disinfection and provide a medium for microbial growth. Turbidity may disinfection and provide a medium for microbial growth. Turbidity may indicate the presence of disease-causing organisms. These organisms include bacteria, viruses, and parasites that can cause symptoms such as nausea, cramps, diarrhea and associated headaches.

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 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. Perdiageting contaminants, which can be naturally occurring or be the
- 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 number of certain contaminants in water provided by public water systems. Food and Drug Administration (FDA) regulations establish limits for contaminants in bottled water.

ome 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. 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).

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.

Lead in Drinking Water: "If present, elevated levels of lead can cause serious health problems, especially for pregnant women and young children. *NEVER make baby formula with warm or hot tap water.* Exposure to lead in drinking water can cause serious health effects in all age groups. Infants and children can have decreases in IQ and attention span. Lead exposure can lead to new learning and behavior problems or exacerbate existing learning and behavior problems. The children of women who are exposed to lead before or during pregnancy can have increased risk of these adverse health effects. or during pregnancy can have increased risk of these adverse health effects. Adults can have increased risks of heart disease, high blood pressure, kidney, or nervous system problems

Lead is rarely found in source water. If lead is present in tap water, it is primarily from corrosion of materials that were used in older plumbing, primarily from corrosion or materials that were used in older plumbing, solder that connects pipes, or from pipes connecting a house to the main water pipe in the street. Lead is no longer used in manufacturing these products, but plumbing components containing lead may still remain in some older homes and buildings. When water sits for several hours in pipes containing these older materials, lead can leach into the water. Boiling will NOT reduce the amount of lead in your water. If you choose to have your tap water tested, be sure to use a properly certified laboratory. Information on lead in driving water testing mathods, and staps you can take to minimize lead in drinking water, testing methods, and steps you can take to minimize your family's exposure is available from the Safe Drinking Water hotline at 800-426-4791 and from <u>http://www.cdc.gov/nceh/lead/tips/water.htm</u>. 651997-1

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# **2024 Annual Water Quality Report**

(Testing Performed January through December 2024)

We use an independent laboratory to analyze samples from our distribution system for lead according to a monitoring schedule set by ADEM. Your water system is responsible for providing high quality drinking water but cannot control the variety of materials that were used in household plumbing. The EPA and the 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 plumping materials.
- from plumbing materials.
- Periodically remove the aerator on the tip of the faucet and wash out any debris such as metal particles.

Lead Service Line Inventory: Our Lead Service Line Inventory was completed and submitted by the deadline of October 16, 2024, and a copy of it is in our office as required by EPA. If any would like to review it or have any questions, please feel free to contact our office.

Upon completing the lead service line inventory, here at Colbert County we are pleased to port, that we had 0 - Lead Service Lines, 0 – Galvanize Required Replacement Service Lines, 0 – Unknown, and 5552 Non- Lead Service Lines

Our source water is also tested for pathogens, such as Cryptosporidium and Giardia. These pathogens can enter the water from animal or human waste. For people who may be immuno compromised, a guidance document developed jointly by the Environmental Protection Agency and the Center for Disease Control is available online at <u>www.epa.gov/safewater/crypto.html</u> or from the Safe Drinking Water Hotline at 800-426-4791. All test results were well within state and federal standards. Cryptosporidium and Giardia have not been detected in our finished drinking water.

Cryptosporidium is a microbial pathogen found in surface water throughout the U.S Although filtration removes Cryptosporidium, the most commonly-used filtration methods cannot guarantee 100 percent removal. Ingestion of Cryptosporidium may cause cryptosporidiosis, an abdominal infection. Symptoms of infection include nausea, diarrhea and addominal cramps. Most healthy individuals, infants and small children, and the elderly are at greater risk of developing life-threatening illness. We encourage immune-compromised individuals to consult their doctor regarding appropriate precautions to take to avoid infection. Cryptosporidium must be ingested to cause disease, and it may be spread through means other than drinking water. We currently monitor for Cryptosporidium and have had none detected

Radon is a naturally occurring gas present in some groundwater. Inhaled radon has been linked to lung cancer and may pose a health risk when inhaled after the release from water into the air. This inhalation could occur during showering, bathing, washing dishes, or washing clothes. The radon gas release from drinking water is a relatively small part of the total radon found in air. One major source of radon gas is from the soil, where the gas can seep through the foundations of homes. It is not clear whether ingested (i.e. taken through the mouth) radon contributes to cancer or other adverse health conditions. If you are concerned about radon in your home, tests are available to determine the total exposure level. For additional information on home testing contact (insert name of local health department). Note 300 Pci/l proposed MCL.

#### Monitoring Results

As you can see by the tables, our system had no 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 federal and state requirements. The tables below show only those contaminants that were detected.

Hawk Pride Mountain Detected Drinking Water Contaminants							
Contaminants	Violation Y/N	Level Detected	Unit	MCLG	MCL	Likely Source of Contamination	
Chlorine	NO	1.95 avg. 1.70 – 2.20	ppm	4	4	Water additive used to control microbes	
Turbidity	NO	0.039	NTU	n/a	Π	Soil runoff	
Barium	NO	0.03	ppm	2	2	Discharge of drilling wastes; discharge from metal refineries; erosion of natural deposits	
Copper	NO	0.19	ppm	1.3	AL=1 .3	Corrosion of household plumbing systems; erosion of natural deposits; leaching of preservatives	
Nitrate (as Nitrogen)	NO	0.95	ppm	10	10	Runoff from fertilizer use; leaching from septic tanks, sewage; erosion of natural deposits	
TTHM -Total trihalomethanes	NO	6.90 avg. 4.0 – 10.0	ppb	0	80	By-product of drinking water chlorination	
HAA5 -Total haloacetic acids	NO	1.31 avg. ND – 4.8	ppb	0	60	By-product of drinking water chlorination	
Unregulated Contaminants							
Chloroform	NO	4.27	ppb	n/a	n/a	Naturally occurring; industrial discharge; agricultural runoff	
Bromodichloromethane	NO	2.4	ppb	0	n/a	Naturally occurring; industrial discharge; agricultural runoff	
Perfluorooctanoic Acid	NO	2.0-11.0	ppt	n/a	n/a	Product that resists heat, oil, stains, grease, and water	
Secondary Contaminants							
Alalinity, Total	NO	209	ppm	n/a	n/a	Erosion of natural deposits	
Calcium	NO	84.5	ppm			Erosion of natural deposits	
Chloride	NO	6.37	ppm	n/a	250	Naturally occurring; industrial discharge; agricultural runoff	
Hardness	NO	224.0	ppm	n/a	n/a	Naturally occurring; treatment with water additives	
Magnesium	NO	3.14	ppm	n/a	n/a	Occurs naturally	
рН	NO	7.1	S.U.	n/a	n/a	Naturally occurring; treatment with water additives	
Sodium	NO	3.58	ppm	n/a	n/a	Naturally occurring in the environment	
Sulfate	NO	5.58	ppm	n/a	250	Naturally occurring; industrial discharge; agricultural runoff	
Total Dissolved Solids	NO	240	ppm	n/a	500	Naturally occurring; industrial discharge; agricultural runoff	

#### DEFINITIONS

Action Level- the concentration of a contaminant that, if exceeded, triggers treatment or <u>Automatical</u> in contentiation of a community in a second of a community in the second of a community in the second of a community is indicated by the contaminant is not present. <u>Cryptosporidium</u> - a microscopic parasite that can cause disease, mainly diarrhea, if

Disinfection byproducts (DBPs)- are formed when disinfectants used in water treatment

e and/or natural organic matter (i.e., decaying vegetation) present in

The source water. <u>Distribution System Evaluation</u> (DSE)-a 4-quarter study to identify distribution system locations with high concentrations of DBPs. <u>Maximum Contaminant Level</u> (MCL) is the highest level of a contaminant that is allowed

in drinking water. <u>Maximum Contaminant Level Goal</u> (MCLG)- the level of a contaminant in drinking water

Colbert County Rural Water System AL0000314 2750 Hwy 20 • Tuscumbia, AL 35674

Phone 256-386-8504 Hours: 6:00 am -2:30 pm, Monday- Friday

Likely Source of Contaminatio

Corrosion of household plumbing systems; erosion of natural deposits; leaching of preservatives

Erosion of natural deposits, water additive which promotes strong teeth: Discharge from factories

Runoff from fertilizer use; leaching from sep tanks, sewage; erosion of natural deposits

By-product of drinking water chlorination

By-product of drinking water chlorination

n/a n/a Naturally occurring; industrial discharge; agricultural runoff

n/a n/a Product that resists heat, oil, stains, grease, and water

n/a 250 Naturally occurring; industrial discharge; agricultural runoff

n/a n/a Naturally occurring; treatment with water additives

n/a n/a Naturally occurring; treatment with water additives

n/a 250 Naturally occurring; industrial discharge; agricultural runoff

n/a 500 Naturally occurring; industrial discharge; agricultural runoff

Discharge of drilling wastes; disch refineries; erosion of natural dep

Discharge of drilling wastes; discharge fr refineries; erosion of natural deposits

Discharge of drilling wastes; discharge from metal refineries; erosion of natural deposits

Corrosion of household plumbing systems; erosion of natural deposits: leaching of preservatives

Corrosion of household plumbing systems; erosion of natural deposits;

Likely Source of Contamination

Discharge of drilling wastes; discharge from metal refineries; erosion of natural deposits

Erosion of natural deposits, water additive which promotes strong teeth: Discharge from factories

Runoff from fertilizer use; leaching from septi tanks, sewage; erosion of natural deposits

80 By-product of drinking water chlorinatio

0 60 By-product of drinking water chlorinatio

ppb n/a n/a Naturally occurring; industrial discharge; agricultural runoff n/a Naturally occurring; industrial discharge; agricultural runoff

n/a 0.2 Erosion; treatment with water additive

ppm n/a 0.3 Occurs naturally or from water treatment

ppm n/a n/a Naturally occurring in the environment

ppm n/a 250 Naturally occurring; industrial discharge; agric

S.U. n/a n/a Naturally occurring; treatment with water add

ppm n/a 0.5 Occurs naturally

n/a n/a Naturally occurring; treatment with water addi

n/a n/a Product that resists heat, oil, stains, grease, and water

n/a 250 Naturally occurring; industrial discharge; agricultural runoff

n/a 500 Naturally occurring; industrial discharge; agricultural runoff

Corrosion of household plumbing systems; erosion of natural deposits; leaching of preservatives

Erosion of natural deposits, water additive which promotes strong teeth: Discharge from factories

Runoff from fertilizer use; leaching from se tanks, sewage; erosion of natural deposi

Discharge of drilling wastes; discharge fr refineries; erosion of natural deposits 0 80 By-product of drinking water chlorination

60 By-product of drinking water chlorination

ter additive used to control m

Likely Source of Contamination

n/a 0.2 Erosion; treatment with water addit

n/a 0.30 Occurs naturally or from water treatment

n/a n/a Naturally occurring in the environment

n/a 0.05 Occurs naturally

n/a Naturally occurring; industrial discharge; agricultural runoff

Water additive used to control microbes

2 Discharge of drilling wastes; discharge from metal refineries; erosion of natural deposits

Soil runoff

Town of Cherokee Detected Drinking Wate

Violat Y/N

NO

Viola Y/N

NO

Viola Y/N

NO

NO NO

NO

NO

NO

NO

NO

NO

Chlorine

Turbidity

Barium

Copper

Fluoride

Nitrate (as Nitrogen)

TTHM -Total trihalomethane

HAA5 -Total haloacetic acids

Unregulated Contaminant

Bromodichloromethane

Perfluorooctanoic Acid

Secondary Contaminant Aluminun

Chloroform

Chloride

Hardness

Mangane

Iron

nН Sodium

Sulfate

Total Dissolved Solid

Contaminants

Arsenic

Barium

Coppe

Fluoride

Lead

Nitrate (as Nitrogen)

TTHM -Total trihalomethanes

HAA5 -Total haloacetic acids

\* Figure shown is 90th c

Chlorine

Turbidity

Barium

Coppe

Nitrate (as Nitrogen)

HAA5 - Total halos

Bromodich

Perfluor

Chloride

Hardness

Iron Mangane

pН

Sodium

Sulfate

Total Dissolved Solids

Unregulated Contam Chloroform

TTHM -Total trihalomethane

noic Acid

Level Detected

2.1

0.15

0.21

0.069

0.054

1.0

52.5 avg 18.0-87.0

59.0 avg 18.0-100.0

28.0

10.05

0.027-0.049

0.0831

12.9

68.0

0.031

0.00485

7.2

7.31

8.6

129

Level Detected

0.034

0 718

0.0332

1.49

0.133

0.81

1.78

3.89

2.44

28.8

22.4

Level Detec

1.74 av

.030-.021-100

0.005

041

ND

0.647

3.0

5.41

2.3

1.3

NA

0.14

5.76

24.7

0.010

0.005

7.50

6.03

1.41

140.0

Unit

ppm

NTU n/a

ppm 2

ppm

ppm

ppm 10 10

ppb

ppb 0 60

ppb

ppb 0

Ug/I

ppm

ppm

ppm

ppm

ppm

S.U.

ppm

ppm

NTU n/a π Soil runof

ppb 0 50

ppm

ppb

ppm

ppm

ppm 0 0.01

ppm 10 10

ppb

ppb

ppb 0

West Morgan East Lawrence Detected Drinking Water Contaminants

Unit

ppm 4

NTU n/a TT Soil runoff

ppm 2 2

ppm

ppm 10 10

ppb

ppb

ppb

ppt

ppm

ppm

ppm

Detected Tuscumbia Utilities Detected Drinking Water Contaminants

MCLG MCL

2

0

1.3

4

0 50

MCLG

1.3 ppm

n/a

AL=1

100

AL=1 .3

4

MCLG MCL

> 4 4 TT

1.3

4

0 80

AL=1

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

STANDARD LIST OF PRIMARY DRINKING WATER CONTAMINANTS							
Contaminant	MCL	Unit of	Contaminant	MCL	Unit of		
	Msmt				Msmt		
Bacteriolooical Contami	inants		cis-1,2-Dichloroethvlene	70	oob		
Total ColiformBacteria	<5% presenUab sent		trans-1,2- Dichloroethylene	100	ppb		
Fecal Coliform and	0 presenUab		Dichloromethane	5	ppb		
E.COII	π	Sent	1.2 Dichloronopapa	5	nnh		
Contraction	- 11	Oris second	Di /O atte di se di a di ante	5	ppo		
Cryptospondium		sms/l	DI (2-ethylnexvi)adipate	400	ppo		
Radlolooical Contamin	ants		Di (2-eth;lhexvllphthalate	6	ppb		
Beta/photon emitters	4	mremlvr	Dinoseb	7	opb		
Aloha emitters	15	oCi/l	Dioxin r2,3,7,8-TCDDI	30	nnn		
Combined radium	5	pCi/l	Diquat	20	ppb		
Uranium	30	pCi/l	Endothall	100	ppb		
Inorganic Chemicals			Endrin	2	ppb		
Antimony	6	ppb	Eoichlorohvdrin	Π	TT		
Arsenic	10	ppb	Ethvlbenzene	700	ppb		
Asbestos	7	MFL	Ethvlene dibromide	50	ppt		
Barium	2	ppm	Glyphosate	700	ppb		
Beryllium	4	ppb	Heptachlor	400	ppt		
Cadmium	5	ppb	Heplachlor epoxide	200	ppt		
Chromium	100	ppb	Hexachlorobenzene	1	ppb		
Copper	AI =	nom	Hexachlorocyclopentadie	50	nnb		
	1.3		ne				
Cvanide	200	ppb	Lindane	200	ppt		
Fluoride	4	ppm	Methoxychlor	40	oob		
Lead	AL=1	ppb	Oxamyl [Vydate]	200	ppb		
Marcupy	2	noh	Polychlorinated	0.5	nnh		
Mercury	2	ppo	biphenyls	0.5	ppo		
Nitrate	10	ppm	Pentachlorophenol	1	ppb		
Nitrite	1	ppm	Picloram	500	ppb		
Selenium	.05	ppm	Simazine	4	ppb		
Thallium	.002	ppm	Stvrene	100	ppb		
Oraanic Contaminants			Tetrachloroethvlene	5	Pob		
2,4-D	70	ppb	Toluene	1	ppm		
Acrylamide	π	Π	Toxaphene	3	ppb		
Alachlor	2	ppb	2,4,5-TP(Silvex)	50	ppb		
Alrazine	3	oob	1 2 4-Trichlorobenzene	07	nom		
Benzene	5	noh	1.1.1.Trichloroethane	200	nnh		
Benzo(alovrene	200	nnt	1.1.2-Trichloroethane	5	oob		
rPAHsi	200	ppr	1,1,2-11010106018116	5			
Carbofuran	40	ppb	Trichloroethylene	5	ppb		
Carbon tetrachloride	5	ppb	Vinyl Chloride	2	ppb		
Chlordane	2	ppb	Xylenes	10	ppm		
Chlorobenzene	100	ppb	Disinfectants & Disinfect	tionByprodu	icts		
Dalapon	200	ppb	Chlorine	4	ppm		
Dibromochloropropane	200	ppt	Chlorine Dioxide	800	ppb		
1,2-Dichlorobenzene	1000	DPb	Chloramines	4	oom		
1,4-Dichlorobenzene	75	ppb	Bromate	10	ppb		
(para)							
o-Dichlorobenzene	600	ppb	Chlorite	1	ppm		
1,2-Dichloroethane	5	ppb	HAA5 [Total haloacetic acidsl	60	ppb		
1,1-Dichloroethvlene	7	ppb	TTHM [Total	80	ppb		
			trinaiomeinanesi				
		IST OF SECOND	ARY CONTAMINANTS				
Alkalinitv, Total (as CA, CoJ)	Cop	ber	Manqanese	Specific C	Conductance		
Aluminum	Com	osivitv	Odor	Sulfate			
Calcium, as Ca	Foamina aaents		Nickel	Total Dissolved Solids			
	fMBAS\						
Carbon Dioxide	Hardness		pH	ZINC			
Chloride	Iron		Silver				
Color	Maq	nesium	Sodium				
	LIS	ST OF UNREGUL	ATED CONTAMINANTS				
Aldicarb	Chlo	roethane	Dieldrin	Procachio	r		
AldicarbSulfone	Chloroform		Hexachlorobutadiene	N-Propylb	enzene		
AldicarbSulfoxide	Chloromethane		3-Hvdroxvcarbofuran	Procachior			
Aldrin	0-Chlorotoluene		isoprpylbenzene	enzene 1,1,1,2- Tetrachloroethane			
December of the Antid	D Chlorotoluopo			1122-			
Bromoacetic Acid			p-sopropytoidene 1,1,2,2- Tetrachloroetha		oethane		
Bromobenzene	Dibromochlorometha		M-Dichlorobenzene	Tetrachloroethene			
Dramashin	1 2-Dihmmoathanc		Mathan: 4	Trichloroacetic Acid			
Bromochloromethane	1,2-Dibromoethane		Methoda	1 2 3 Trichlorchenz			
Bromodichloromethane	Dibromomethane		Methvlene chloride	1,2,3-Trichlorobenzene			
Bromoform	1,1-Dichloroethane		Methvl tert-butvl ether	Trichloroethene			
Bromomethane	1,3-Dichloroorooane		Metolachlor	Trichlorofluoromethane			
Butachlor	2,2-Dichloropropane		Metribuzin 1,2,3-Trichloropro		nloropropane		
N-Butylbenzene	1,1-Dichloropropene		MTBE	1,2,4- Trimethylbenzene			
Sec-Butvibenzene	1.3-0	Dichlorooronene	Naphthalene	1,3,5-			
	.,		Trimethylbenze				
Tert - Butvibenzene	Dica	mba	1-Naphthol				
Carbarvl	Dichlorodifluorometh		Paraquat				

below which there is no known or expected risk to health. MCLGs allow for a margin of

Maximum Residual Disinfectant Level (MRDL) the highest level of a disinfectant allowed

Maximum Residual Disinfectant Level Goal (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.

absorbed by the body. <u>Nephelometric Turbidity Unit</u> (NTU)-a measure of the clarity of water. <u>Non-Detect</u> (ND)- laboratory analysis indicates that the constituent is not present above detection limits of lab equipment. <u>Parts per billion</u> (ppb) or Micrograms per liter (µg/I)-one part per billion corresponds to one minute in 2,000 years, or a single penny in \$10,000,DDD.

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 2,0D0,000,000 years, or a single penny in \$10,D00,000,000. 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,DO. 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,DO.

single penny in \$10,000,000,DOO. Picocuries per liter (pCi/L)-picocuries per liter is a measure of the radioactivity in water. Running Annual Average (LRAA)-yearly average of all the DPB results at each specific sampling site in the distribution system. 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. <u>Treatment Technique</u> (TT)- a required process intended to reduce the level of a contaminant in drinking water. <u>Variances & Exemptions</u> (V&E)-State or EPA permission not to meet an MCL or a treatment technique under certain conditions.

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