

# 2021

## *Annual Drinking*

# *Water Quality Report*



**MOFFAT WATER  
SUPPLY CORP.**



***How Can I Learn More  
About Our Drinking  
Water?***

***Community Participation:***

You are invited to participate in our monthly board meetings. We meet on the third Monday of each month, beginning at 5:30p.m., at Moffat Community Center located at 13410 Kuykendall Mnt Rd., Temple, Texas.

***En español***

Este informe contiene información importante sobre su agua potable. Si tiene preguntas o comentarios sobre este informe en español, favor de llamar al (254) 986-2457 para hablar con una persona bilingüe en español.

# 2021 Annual Drinking Water Quality Report

## Greetings from your Water Supply:

In 2021, the water system made significant progress by demoing the old standpipe and receiving bids for constructing the new 250,000-gallon elevated storage on Jubilee Springs Road. Construction commenced in June of 2022, and it is estimated the tank will be in service by mid-June 2023. The purpose of the new tank is to keep the water supply compliant with water storage capacity requirements based on the number of service connections in the system and provides an even hydraulic balance within the distribution.

The Corporation's engineering consultant finalized the Master Plan update which includes a prioritized capital improvement scheduled for the Board of Directors to use regularly when planning and budgeting. Several projects identified involve replacing smaller diameter lines with larger diameter pipes to maintain adequate flow and pressure throughout the distribution system.

Providing safe, reliable, and affordable drinking water to our customers is our priority and we are proud to say that our water continues to remain safe to drink. This report provides details about our drinking water's quality in 2021.

Finally, the greatest asset for the Corporation is the dedicated team of employees who work hard daily to ensure that our customers receive the best service possible. I want to commend them for their efforts in keeping the water flowing during the arctic freeze in February 2021. Weather conditions were brutal for several days during that period, but the team adapted and spent long hours each day working hard to maintain water service.

Respectfully,

*Damon Boniface*  
General Manager



# MOFFAT WATER SUPPLY CORP.

## Where Does Our Drinking Water Come From?

The source of drinking water for Moffat Water Supply Corporation is Ground Water blended with purchased Surface Water from Bluebonnet Water Supply which diverts water from Lake Belton and is located within the Brazos River Basin.

## How Safe Is The Source Of Our Drinking Water?

A source water assessment describes the susceptibility and types of constituents that may come into contact with your drinking water source based on human activities and natural conditions. Information on Moffat Water Supply Corporation source water assessment and availability of the assessment may be obtained by contacting our office (254) 986-2457. Some of this source water assessment information is available on Texas Drinking Water Watch at <https://www.tceq.texas.gov/drinkingwater>. For more information on source water assessments and protection efforts at our system, please contact us.

## Why provide a water quality report?

The sources of drinking water (both tap and bottled) 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, in some cases, radioactive material, and 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 stormwater runoff, industrial or domestic wastewater discharges, oil and gas production, mining, or farming.
- Pesticides and herbicides, which come from a variety of sources such as agriculture, urban stormwater runoff 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 stormwater runoff and septic systems.
- May be the result of oil and gas production and mining activities.

# 2021 Test Results

In order to ensure that tap water is safe to drink, EPA prescribes regulations which limit the number of contaminants in water provided by public water systems. The table below lists all the drinking water contaminants that we detected during the calendar year of this report. Although many more contaminants were tested, only those substances listed below were found in your water. All sources of drinking water contain some naturally occurring contaminants. At low levels, these substances are generally not harmful in our drinking water. Removing all contaminants would be extremely expensive, and in most cases, would not provide increased protection of public health. A few naturally occurring minerals may actually improve the taste of drinking water and have nutritional value at low levels. Unless otherwise noted, the data presented in this table is from testing done in the calendar year of the report. The EPA or the State requires us to monitor for certain contaminants less than once per year because the concentrations of these contaminants do not vary significantly from year to year, or the system is not considered vulnerable to this type of contamination. As such, some of our data, though representative, may be more than one year old. In this table you will find some terms and abbreviations that might not be familiar to you. To help you better understand these terms, we have provided the definitions below the table.

## Disinfectants and Disinfection Byproducts

Contaminant (Unit)	Date Sampled	Moffat WSC		Bluebonnet WSC		MCLG	MCL	Violation	Likely Source of Contamination
		Average Detected	Range of Levels Detected	Average Detected	Range of Levels Detected				
Haloacetic Acids (HAA5)(ppb)	2021	18	9.6-27.5	3.5	20.2-20.2	NA	60	No	By-product of drinkingwater disinfection.
Total Trihalomethanes (TTHM)(ppb)	2021	22	10.8-26.7	5.8	15.5-15.5	NA	80	No	By-product of drinkingwater disinfection.
Chloramines (ppm)	2021	2.7	1.1-4.0	3.4	1.4-5.7	4	4	No	Water additive used to control microbes
Chlorite (ppm)	2021	NA	NA	0.405	0.032-0.611	0.8	1	No	By-product of drinkingwater disinfection.

\* The value in the Highest Level or Average Detected column is the highest average of all HAA5 sample results collected at a location over a year.

\*\* The value in the Highest Level or Average Detected column is the highest average of all TTHM sample results collected at a location over a year.

## Inorganic Contaminants

Contaminant (Unit)	Date Sampled	Moffat WSC		Bluebonnet WSC		MCL G	MCL	Violation	Likely Source of Contamination
		Average Detected	Range of Levels Detected	Highest Levels Detected	Range of Levels Detected				
Barium (ppm)	2019	0.0589	0.0589-0.0589	0.0743	0.0743-0.0743	2	2	No	Discharge of drilling wastes; Discharge from metal refineries; Erosion of natural deposits.
Cyanide (ppm)	2020	0.07	0.07-0.07	<0.01	<0.01-0.01	200	200	No	Discharge from plastic and fertilizer factories; Discharge from steel/metal factories.
Fluoride (ppm)	2020	0.55	0.55-0.55	0.21	0.21-.021	4	4.0	No	Erosion of natural deposits; Water additive which promotes strong teeth; Discharge from fertilizer and aluminum factories.
Nitrate [measured as Nitrogen] (ppm)	2021	0.38	0.35-0.41	0.53	0.53-0.53	10	10	No	Runoff from fertilizer use; Leaching from septic tanks, sewage; Erosion of natural deposits.
Nitrite [measured as Nitrogen] (ppm)	2019	<0.05	<0.05 - 0.05	<0.05	<0.05	1	1	No	Runoff from fertilizer use; Leaching from septic tanks, sewage; Erosion of natural deposits.

## Lead and Copper - Moffat WSC

Contaminant (Unit)	Date Sampled	MCLG	Action Level (AL)	90th Percentile	# of Sites of AL	Violation	Likely Source of Contamination
Copper (ppm)	2020	1.3	1.3	0.61	0	No	Erosion of natural deposits; Leaching from wood preservatives; Corrosion of household plumbing systems.
Lead (ppb)	2020	0	15	2.0	0	No	Corrosion of household plumbing systems; Erosion of natural deposits.

## Radioactive Contaminants - Bluebonnet WSC

Contaminant (Unit)	Date Sampled	Highest Level Detected	Range of Levels Detected	MCLG	MCL	Violation	Likely Source of Contamination
Combined Radium 226/228 (pCi/L)	2017	1.5	1.5-1.5	0	5	No	Erosion of natural deposits.

## Turbidity - Bluebonnet WSC

	Highest Level	Max Level	Violation	Likely Source of Contamination
Highest Single Measurement	0.14 NTU	1 NTU	No	Soil runoff.
Lowest monthly % meeting limit	100%	0.30	No	Soil runoff.

Turbidity is a measurement of the cloudiness of the water caused by suspended particles. We monitor it because it is a good indicator of water quality and the effectiveness of our filtration.

## Coliform Bacteria

Contaminant (Unit)	Date Sampled	Moffat WSC		Bluebonnet WSC		MCLG	MCL	Violation	Likely Source of Contamination
		Highest Level Detected	Range of Levels Detected	Highest Level Detected	Range of Levels Detected				
Total Coliform	2021	0	0	0	0	0	0	No	Naturally present in the environment.

### All Drinking Water May Contain Contaminants

When drinking water meets federal standards there may not be any health benefits to purchasing bottled water or point of use devices. 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 PacSafe Drinking Water Hotline (800) 426-4791.

### Lead and Drinking Water

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. Moffat WSC 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 <http://www.epa.gov/safewater/lead>.

### Definitions:

**90th Percentile** – 90% of samples are equal to or less than the number in the chart.

**Action Level** – The concentration of a contaminant which, if exceeded, triggers treatment or other requirements which a water system must follow.

**Avg** – Regulatory compliance with some MCLs are based on running annual average of monthly samples.

**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 (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.

**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.

**NA** – not applicable

**Parts per billion (ppb)** – micrograms per liter or parts per billion - or one ounce in 7,350,000 gallons of water.

**Parts per million (ppm)** – milligrams per liter or parts per million - or one ounce in 7,350 gallons of water.

**pCi/L** – picocuries per liter (a measure of radioactivity)

### Tap vs. Bottled, Rethinking What You Are Drinking

When choosing the water, you want to drink, it is often easy to be convinced that bottled water is healthier for you than tap water, but in truth is it? The answer, thanks to a study by the Natural Resources Defense Council (NRDC) is not always. First, approximately 25 percent of bottled water is – in reality – bottled tap water. Additionally, the Food and Drug Administration (FDA) regulates bottled water; however, their testing standards are not as rigorous as the ones required by the US Environmental Protection Agency (EPA) for tap water. Moreover, FDA oversight does not apply to water that is packaged and sold within the same state. According to the NRDC's report, this leaves approximately 60-70 percent of bottled water, including the contents of water cooler jugs, free of FDA regulation. It is estimated that people spend almost 5,000 times more per gallon of bottled water than they would for tap water. For those who get their recommended eight glasses of water a day, you could be saving over \$1,000 annually if you switched to tap water!

### My immune system is compromised, should I be concerned?

You may be more vulnerable than the general population to certain microbial contaminants, such as *Cryptosporidium*, in drinking water. Infants, some elderly, or immunocompromised persons such as those undergoing chemotherapy for cancer; persons who have undergone organ transplants; those who are undergoing treatment with steroids; and people with HIV/AIDS or other immune system disorders, can be particularly at risk from infections. You should seek advice about drinking water from your physician or healthcare providers. Additional guidelines on appropriate means to lessen the risk of infection by *Cryptosporidium* are available from the Safe Drinking Water Hotline (800) 426-4791.