Murray County Rural Water District No.1 OK2005012

Annual Drinking Water Quality Report CCR REPORT FOR 2016 CREATED IN 2017

Annual Water Quality Report for the period of January 1, to December 31, 2016.

This report is intended to provide you with important information about your drinking water and the efforts made by the water system to provide safe drinking water. The source of drinking water used by Murray Co. Rural Water District No.1 (RWD#1) is Ground Water. For more information regarding this report contact Randy L. Mitchell or Rural Water Office at 580-622-2093

Spanish (Espanol)

Este informe contiene informacion muy importante sobre la calidad de su agua beber. Traduscalo o hable con alguien que lo entienda bien

Is my water safe?

We are pleased to present this year's Annual Water Quality Report (Consumer Confidence Report) as required by the Safe Drinking Water Act (SDWA). This report is designed to provide details about where your water comes from, what it contains, and how it compares to standards set by regulatory agencies. This report is a snapshot of last year's water quality. We are committed to providing you with information because informed customers are our best allies.

Do I need to take special precautions?

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/Centers for Disease Control (CDC) guidelines on appropriate means to lessen the risk of infection by Cryptosporidium and other microbial contaminants are available from the Safe Water Drinking Hotline (800-426-4791).

Where does my water come from?

Our sources of water are two wells that draw groundwater from the Arbuckle-Simpson Aquifer. We are proud to inform the public that we have been in operation since 1965. We now have 2,001 water meters that supply water to the rural area. The analysis showed that our water's susceptibility to contamination is **LOW**.

Source water assessment and its availability

We routinely monitor for contaminants in your drinking water according to federal and state laws. The following tables show the results of our monitoring for the period of January 1 to December 31, 2016. The State allows us to monitor for some contaminants less than once per year because the concentrations of these contaminants do not change frequently. Some of our data is from prior years, in accordance with the Safe Drinking Water Act. The date has been noted on the sampling results table.

Why are there contaminants in my drinking 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 (EPA) 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, in some cases, radioactive material, and can pick up substances resulting from the presence of animals or from human activity: microbial contaminants, such as viruses and bacteria, that 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 may 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; and 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 that limit the amount of certain contaminants in water provided by public water systems. Food and Drug Administration (FDA) regulations establish limits for contaminants in bottled water which must provide the same protection for public health.

How can I get involved?

If you have any questions about this report or concerning your water utility, please contact Randy L. Mitchell, Field Manager of RWD#1

at 580-622-2093 and he will try to answer any questions that our consumers might have.

We at Rural Water District No.1 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.

Ways you can help:

• Be a leak detective! Check all hoses, connectors and faucets regularly for leaks. You may not see or hear a leaky toilet, but it can waste more than 200 gallons of water per day!

Here's an easy way to find out if your toilet is leaking:

- 1. Remove the lid from the back of the toilet.
- 2. Place a drop of food coloring in the tank.
- 3. Wait 15 minutes without flushing.
- 4. If the color shows up in the toilet bowl, you have a leak.

If you want to learn more, you are invited to attend any of our regular scheduled monthly meetings. They are held on the third Monday of each month in the Rural Water District Office that is located at 1120 US HWY 177N, Sulphur, OK 73086.

Please call our office at 580-622-2093 if you have any questions.

Description of Water Treatment Process

Your water is treated by disinfection. Disinfection involves the addition of chlorine or other disinfectant to kill dangerous bacteria and microorganisms that may be in the water. Disinfection is considered to be one of the major public health advances of the 20th century.

Water Conservation Tips

Did you know that the average U.S. household uses approximately 400 gallons of water per day or 100 gallons per person per day? Luckily, there are many low-cost and no-cost ways to conserve water. Small changes can make a big difference - try one today and soon it will become second nature.

- Take short showers a 5 minute shower uses 4 to 5 gallons of water compared to up to 50 gallons for a bath.
- Shut off water while brushing your teeth, washing your hair and shaving and save up to 500 gallons a month.
- Use a water-efficient showerhead. They're inexpensive, easy to install, and can save you up to 750 gallons a month.
- Run your clothes washer and dishwasher only when they are full. You can save up to 1,000 gallons a month.
- Water plants only when necessary.
- Fix leaky toilets and faucets. Faucet washers are inexpensive and take only a few minutes to replace. To check your toilet for a leak, place a few drops of food coloring in the tank and wait. If it seeps into the toilet bowl without flushing, you have a leak. Fixing it or replacing it with a new, more efficient model can save up to 1,000 gallons a month.
- Adjust sprinklers so only your lawn is watered. Apply water only as fast as the soil can absorb it and during the cooler parts of the day to reduce evaporation.
- Teach your kids about water conservation to ensure a future generation that uses water wisely. Make it a family effort to reduce next month's water bill!
- Visit www.epa.gov/watersense for more information.

Cross Connection Control Survey

The purpose of this survey is to determine whether a cross-connection may exist at your home or business. A cross connection is an unprotected or improper connection to a public water distribution system that may cause contamination or pollution to enter the system. We are responsible for enforcing cross-connection control regulations and insuring that no contaminants can, under any flow conditions, enter the distribution system. If you have any of the devices listed below please contact us so that we can discuss the issue, and if needed, survey your connection and assist you in isolating it if that is necessary.

- Boiler/ Radiant heater (water heaters not included)
- Underground lawn sprinkler system
- Pool or hot tub (whirlpool tubs not included)
- Additional source(s) of water on the property
- Decorative pond
- Watering trough

Source Water Protection Tips

Protection of drinking water is everyone's responsibility. You can help protect your community's drinking water source in several ways:

- Eliminate excess use of lawn and garden fertilizers and pesticides they contain hazardous chemicals that can reach your drinking water source.
- Pick up after your pets.
- If you have your own septic system, properly maintain your system to reduce leaching to water sources or consider connecting to a public water system.
- Dispose of chemicals properly; take used motor oil to a recycling center.
- Volunteer in your community. Find a watershed or wellhead protection organization in your community and volunteer to help. If
 there are no active groups, consider starting one. Use EPA's Adopt Your Watershed to locate groups in your community, or visit
 the Watershed Information Network's How to Start a Watershed Team.

Organize a storm drain stenciling project with your local government or water supplier. Stencil a message next to the street
drain reminding people "Dump No Waste - Drains to River" or "Protect Your Water". Produce and distribute a flyer for
households to remind residents that storm drains dump directly into your local water body.

Additional Information for 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. Murray County Rural Water District No.1, OK2005012 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.

Water Quality Data Table

In order to ensure that tap water is safe to drink, EPA prescribes regulations which limit the amount of contaminants in water provided by public water systems. The table below lists all of 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 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.

Contaminants	MCLG or MRDLG	TT, or	YOUR	Lov	ange vHigh	Sampl Date	^e Violation	n Typical Source
Disinfectants & Disinfection By-Products (There is convincing evidence that addition of a disinfectant is necessary for control of microbial contaminants)								
(There is convincing evidence (as Cl2) (ppm)	ence tha	it additio	on of a d 4	anisit NA		is nece 2016	essary for No	Water additive used to control microbes
TTHMs [Total		•						
Trihalomethanes] (ppb)	NA	80	1	NA	1	2016	No	By-product of drinking water disinfection
Inorganic Contaminants								
Barium (ppm)	2	2	2	NA	.087	2015	No	Discharge of drilling wastes; Discharge from metal refineries; Erosion of natural deposits
Fluoride (ppm)	4	4	.11	NA	.11	2015	No	Erosion of natural deposits; Water additive which promotes strong teeth; Discharge from fertilizer and aluminum factories
Nitrate [measured as Nitrogen] (ppm)	10	10	.278	NA	.278	2016	No	Runoff from fertilizer use; Leaching from septic tanks, sewage; Erosion of natural deposits
Selenium (ppb)	50	50	2	NA	2	2015	No	Discharge from petroleum and metal refineries; Erosion of natural deposits; Discharge from mines
Contaminants	MCI	LGAL	our Sa /ater D	mple ate	Exc	mples eeding AL	Exceeds AL	Typical Source
Inorganic Contaminants								
Copper - action level at consumer taps (ppm)	1.3	1.3.1	69 20	15	0		No	Corrosion of household plumbing systems; Erosion of natural deposits; Leaching from wood preservatives.
Inorganic Contaminants								
Lead - action level at consumer taps (ppb)	0	15 1	.42 20	15	0		No	Corrosion of household plumbing systems; Erosion of natural deposits
Unit Descriptions								

Unit Descriptions

Term Definition

ppm ppm: parts per million, or milligrams per liter (mg/L) ppb ppb: parts per billion, or micrograms per liter (μ g/L)

NA NA: not applicable ND ND: Not detected

NR: Monitoring not required, but recommended.

Important Drinking Water Definitions

Term Definition

MCLG: Maximum Contaminant Level Goal: 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.

MCL: Maximum Contaminant Level: 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.

Unit Descriptions

TT: Treatment Technique: A required process intended to reduce the level of a contaminant in drinking water. TT AL: Action Level: The concentration of a contaminant which, if exceeded, triggers treatment or other requirements AL

which a water system must follow.

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

conditions.

MRDLG: Maximum residual disinfection level goal. The level of a drinking water disinfectant below which there is no **MRDLG**

known or expected risk to health. MRDLGs do not reflect the benefits of the use of disinfectants to control microbial

MRDL: Maximum residual disinfectant level. The highest level of a disinfectant allowed in drinking water. There is **MRDL**

convincing evidence that addition of a disinfectant is necessary for control of microbial contaminants.

MNR MNR: Monitored Not Regulated

MPL: State Assigned Maximum Permissible Level MPL

For more information please contact:

Contact Name: Randy Mitchell or the Rural Water Office

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