

# 2023 Drinking Water Quality Report

January 1 to December 31



## City of Odem

PWS ID NUMBER: TX2050004

361- 368-2831

## Your Annual Report on Water Quality for 2023

The City of Odem Water Department is providing this annual Drinking Water Quality Report to tell you about how its water quality compares to the guidelines set by the U.S. Environmental Protection Agency (EPA). All drinking water providers are required by federal law to issue an annual quality report like this one to their customers.

Most importantly, the Water Department wants you to know that when you drink tap water from our system, you are drinking clean, high-quality water that meets strict government standards. This report will help you understand the steps taken every day by our experienced staff to deliver the safe drinking water that is essential to human survival.

Many people are surprised to learn that all drinking water, even bottled water, is likely to contain some level of contaminants. The presence of the contaminants does not necessarily mean that the water poses a health risk. More information about contaminants and potential health effects, can be obtained by calling the EPA's toll-free Safe Drinking Water Hotline at **1-800-426-4791**.

Many constituents (such as calcium sodium, or iron) which are often found in drinking water, can cause taste, color, and odor problems. These are called "secondary constituents" and are regulated by the State of Texas, not the EPA. These constituents are not causes for health concern. Therefore, they are not required to be reported in this document, but they may affect the appearance and taste of your water.

Este reporte incluye información importante sobre el agua para tomar. Para asistencia en español, favor de llamar al telefono **361-368-2831**.

### For info regarding this report contact:

City of Odem  
Water Department  
361-368-2831

## PUBLIC PARTICIPATION OPPORTUNITY

**YOU CAN LEARN MORE ABOUT YOUR WATER SYSTEM, OFFER YOUR COMMENTS AND PRESENT QUESTIONS AT MEETINGS OF THE ODEM CITY COUNCIL HELD AT 7:00 P.M. ON THE 1<sup>ST</sup> TUESDAY OF EVERY MONTH AT THE ODEM PUBLIC LIBRARY COMMUNITY ROOM.**

### Definitions

**Action Level Goal (ALG):** The level of a contaminant in drinking water below which there is no known or expected risk to health. ALGs allow for a margin of safety.

**Action Level:** The concentration of a contaminant which, if exceeded, triggers treatment or other requirements.

**Avg:** Regulatory compliance with some MCLs is based on running annual average or monthly samples that are taken.

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

**Maximum Residual Disinfectant Level or (MRDL):** The highest level of a disinfectant allowed in drinking water. There is evidence that addition of a disinfectant is necessary for control of microbial contaminants.

**Maximum Residual Disinfectant Level Goal or (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.

### Abbreviations

**MFL:** million fibers per liter (a measure of asbestos).

**Na or N/A:** not applicable

**NTU:** nephelometric turbidity units (a measure of turbidity)

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

**ppm:** parts per million or milligrams per liter (mg/L)

**ppb:** parts per billion or micrograms per liter

**ppt:** parts per trillion or nanograms per liter

**ppq:** parts per quadrillion or pictograms per liter

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

[WWW.SANPATWATER.COM](http://WWW.SANPATWATER.COM)

## Sources of Drinking Water

The sources of drinking water is purchased surface water from the San Patricio Water Municipal Water District which comes from Lake Corpus Christi, Choke Canyon Reservoir, and Lake Texana. Source water for 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.

### Potential contaminants 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 storm water 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 storm water 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 storm water runoff and septic systems
- 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. Contaminants could be found in drinking water that may cause taste, color, or odor problems. These types of problems are not necessarily causes for health concerns.

## 2023 Annual Drinking Water Quality

To protect public health, the EPA has identified acceptable level for constituents in tap water. The TCEQ has assessed our water system and determined that our water is safe to drink. All constituents in our water are well below the federal and state maximum containment levels. The following table contains the chemical constituents found in drinking water coming from the San Patricio Municipal Water District water filtration and treatment complex located between Gregory and Ingleside. The EPA requires all water systems to test for up to 97 constituents.

Year	Constituent	Amt Avg.	Detect Range	Max.	MCL	MCLG	Possible Source of Constituent
<b>REGULATED CONSTITUENTS – INORGANIC</b>							
2023	Fluoride (ppm)	0.718	0.3-1.035		4	4	Water additive which promotes strong teeth.
2023	Nitrate (ppm)	2.8	2.6-3.0		10	10	Runoff from fertilizer; natural deposits.
2023	Nitrite (ppm)	0.006	0.004-0.012		1	1	Runoff from fertilizer; natural deposits.
<b>UNREGULATED CONSTITUENTS (at entry point of distribution system)</b>							
2023	Total Trihalomethanes (ppb)	27.7	22.3-31.5		80	N/A	By-product of drinking water disinfection
2023	Total Haloacetic Acids(ppb)	23.9	16.6-38.0		60	N/A	By-product of drinking water disinfection
<b>TURBIDITY</b>							
2023	Turbidity (NTU)	0.057	0.03-0.15		0.30		Soil runoff (no health affect)

### COLIFORMS

2023 There were no positive monthly samples for coliform bacteria. (No fecal coliform or E. Coli bacteria detected)

Nitrate Advisory – Nitrate is drinking water at level above 10 ppm is a health risk for infants of less than six months of age. High nitrate levels in drinking water can cause blue baby syndrome. Nitrate levels may raise quickly for short periods for time because of rainfall or agricultural activity. If you are caring for an infant, you should ask advice from your health care provider.

### Lead and Copper

	Date Sampled	MCLG	Action Level (AL)	90 <sup>th</sup> Percentile	# Sites Over AL	Units	Violation	Likely Source of Contamination
Copper	09/23/2020	1.3	1.3	0.135	0	ppm	N	Erosion of natural deposits; Leaching from wood preservatives; Corrosion of household plumbing systems

### Regulated Contaminants

Disinfectant/By-products	Collection Date	Highest Level Detected	Level Range Detected	MCLG	MCL	Units	Violation	Likely source of Contamination
Haloacetic Acids (HAA5)	2023	22	8.8 - 26	No-goal for the total	60	ppb	N	By-product of water disinfection
Trihalomethanes (TTHM)	2023	45	28.7 – 56.5	No-goal for the total	80	ppb	Y	By-product of water disinfection

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

Inorganic Contaminants	Collection Date	Highest Level Detected	Level Range Detected	MCLG	MCL	Units	Violation	Likely Source of Contamination
Nitrate [measured as nitrogen]	2023	1	0.56-0.56	10	10	ppm	N	Runoff from fertilizer use; Leaching from septic tanks, sewage; Erosion of natural deposits

### Disinfectant Residual

Disinfectant Residual	Year	Avg. Level	Range of Levels detected	Measure Units	MRDL	MRLDG	Source in Drinking Water
Chlorine (from SPMWD)	2023	4.63	3.9-5.45	ppm		4	Water additive used to control microbes.

### Violations

**Chlorine**  
Some people who use water containing chlorine well in excess of the MRDL could experience irritating effects to their eyes and nose. Some people who drink water containing chlorine well in excess of the MRDL could experience stomach discomfort.

Violation Type	Violation Begin	Violation End	Violation Explanation
Disinfectant Level Quarterly Operating Report (DLQOR).	07/01/2022	09/30/2023	We failed to test our drinking water for the contaminant and period indicated. Because of this failure, we cannot be sure of the quality of our drinking water during the period indicated.

### Lead and Copper Rule

The Lead and Copper Rule protects public health by minimizing lead and copper levels in drinking water, primarily by reducing water corrosivity. Lead and copper enter drinking water mainly from corrosion of lead and copper containing plumbing materials.

Violation Type	Violation Begin	Violation End	Violation Explanation
FOLLOW-UP OR ROUTINE TAP M/R (LCR)	10/01/2023	2023	We failed to test our drinking water for the contaminant and period indicated. Because of this failure, we cannot be sure of the quality of our drinking water during the period indicated.

### Revised Total Coliform Rule (RTCR)

The Revised Total Coliform Rule (RTCR) seeks to prevent waterborne diseases caused by E. coli. E. coli are bacteria whose presence indicates that the water may be contaminated with human or animal wastes. Human pathogens in these wastes can cause short-term effects, such as diarrhea, cramps, nausea, headaches, or other symptoms. They may pose a greater health risk for infants, young children,

Violation Type	Violation Begin	Violation End	Violation Explanation
MONITORING, ROUTINE, MINOR (RTCR)	08/01/2023	08/31/2023	We failed to test our drinking water for the contaminant and period indicated. Because of this failure, we cannot be sure of the quality of our drinking water during the period indicated.
MONITORING, ROUTINE, MINOR (RTCR)	09/01/2023	09/30/2023	We failed to test our drinking water for the contaminant and period indicated. Because of this failure, we cannot be sure of the quality of our drinking water during the period indicated.

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 health care providers. Additional guidelines on appropriate means to lessen the risk of infection by Cryptosporidium are available from the Safe Drinking Water Hotline **1-800-426-4791**.

## Health 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. We are responsible for providing high quality drinking water, but we 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 two 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>.

The TCEQ has completed a Source Water Assessment for all drinking water systems that own their sources. The report describes the susceptibility and types of constituents that may encounter drinking water source based on human activities and natural conditions. The system(s) from which we purchase our water received the assessment report.

For more information on source water assessments and protection efforts at our system, contact the City of Odem, Water Department, at **361-368-2831**.

**Your Drinking Water Is Safe**

**Mandatory Language for Monitoring and Reporting Violation  
Failure to Submit a Disinfectant Level Quarterly Operating Report (DLQOR)  
MONITORING, ROUTINE (DBP), MAJOR/CHLORINE**

The City of Odem water system PWS ID TX2050004 has violated the monitoring and reporting requirements set by Texas Commission on Environmental Quality (TCEQ) in Title 30, Texas Administrative Code (30 TAC), Section 290, Subchapter F. Public water systems are required to properly disinfect water before distribution, maintain acceptable disinfection residuals within the distribution system, monitor the disinfectant residual at various locations throughout the distribution system, and report the results of that monitoring to the TCEQ on a quarterly basis.

Results of regular monitoring are an indicator of whether or not your drinking water is safe from microbial contamination.

This/These violation(s) occurred in the monitoring period(s) 07/01/2023 to 09/30/2023

We are taking the following actions to address this issue:

The City of Odem has taken all samples for the required compliance period and shall send out this notification along with its Annual 2023 TCEQ Consumer Confidence Reports.

Please share this information with all people who drink this water, especially those who may not have received this notice directly (i.e., people in apartments, nursing homes, schools, and businesses). You can do this by posting this notice in a public place or distributing copies by hand or mail.

If you have questions regarding this matter, you may contact the City of Odem Water Department at (361) 368-2831.

Posted/Delivered on: June 17, 2024

**LEAD & COPPER RULE MONITORING AND REPORTING VIOLATION  
MANDATORY LANGUAGE - TIER III**

**IMPORTANT INFORMATION ABOUT YOUR DRINKING WATER**

The City of Odem has violated the monitoring and reporting requirements set by Texas Commission on Environmental Quality (TCEQ) in Chapter 30, Section 290, Subchapter F. Even though these were not emergencies, as our customers, you have the right to know what happened and what we are doing (or did) to correct these situations.

*We are required to monitor your drinking water for specific contaminants on a regular basis. Results of regular monitoring are an indicator of whether or not our drinking water meets health standards. During 01/01/2021 to 12/31/2023 we did not monitor or test for contaminants and therefore cannot be sure of the quality of your drinking water during that time.*

The table below lists the contaminant(s) we did not properly test for during the last year, how often we are supposed to sample for these contaminants, how many samples we are supposed to take, how many samples we took, when samples should have been taken, and the date on which the follow-up samples were or will be taken.

Contaminant	Required sampling frequency	Number of samples taken	When samples should have been taken	When samples were or will be taken
Lead and copper tap water sampling	20/6 months	0	January 1, 2021 – December 31, 2023	07/01/2024

**What is being done?**

We are working to correct the problem. For more information, please contact the City of Odem Water Department at (361) 368-2831 or 514 Voss Avenue, Odem, Texas 78370.

The City of Odem has taken all samples for the required compliance period and shall send out this notification along with its Annual 2023 TCEQ Consumer Confidence Reports.

*Please share this information with all other people who drink this water, especially those who may not have received this notice directly (i.e., people in apartments, nursing homes, schools, and businesses). You can do this by posting this notice in a public place or distributing copies by hand or mail.*

This notice is being sent to you by the City of Odem.  
Public Water System Number: TX2050004  
Date Distributed: June 17, 2024

# Monitoring Violations Annual Notice – Template 3-1B

## IMPORTANT INFORMATION ABOUT YOUR DRINKING WATER

### Monitoring Requirements Not Met for the City of Odem

Our system failed to collect every required coliform sample. Although this incident was not an emergency, as our customers, you have a right to know what happened and what we did (are doing) to correct this situation.

We are required to monitor your drinking water for specific contaminants on a regular basis. Results of regular monitoring are an indicator of whether or not our drinking water meets health standards. During [compliance period month(s)] we ['did not monitor or test' or 'did not complete all monitoring or testing'] for coliform bacteria and therefore cannot be sure of the quality of your drinking water during that time.

#### What should I do?

There is nothing you need to do at this time. You may continue to drink the water. If a situation arises where the water is no longer safe to drink, we are required to notify you within 24 hours.

#### What is being done?

The City of Odem has taken all samples for the required compliance period and shall send out this notification along with its Annual 2023 TCEQ Consumer Confidence Reports.

For more information, please contact the City of Odem Water Department at 361-368-2831 or 514 Voss Avenue, Odem, Texas 78370.

Please share this information with all the other people who drink this water, especially those who may not have received this notice directly (for example, people in apartments, nursing homes, schools, and businesses). You can do this by posting this notice in a public place or distributing copies by hand or mail.

This notice is being sent to you by the City of Odem. Public Water System ID#: TX2050004.

Date distributed: June 17, 2024.