2019 Consumer Confidence Report for Public Water System

The source of drinking water used by **PERRYTON MUNICIPAL WATER SYSTEM** is Ground Water.
Number: 806-435-4014

Annual Water Quality Report for the period of January 1 to December 31, 2019
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.

Public Participation Opportunities

Date: Every First and Third Tuesday of each month.
Time: 6:30 P.M.
Location: City Hall
For more information on the meetings, or to get on the agenda for specific issues, please call (806)435-4014.
To learn about future public meetings (concerning your drinking water), or to request to schedule one, Please call us.

En Español

Este reporte incluye información importante sobre el agua para tomar. Para asistencia en español , favor de llamar al telefono 806-435-4014

Dear Natural Gas Customer:

We at the City of Perryton are charged with the responsibility of providing you with a safe and reliable natural gas service.

Due to a change in the Department of Transportation's (D.O.T.) rules governing the operation of distribution companies such as ours, it has become necessary to inform you of where our (Gas Company) responsibility for inspection ends and where yours (the customer) begins with respect to underground piping.

We survey our system's underground piping on an ongoing basis to ensure its safety, but we do not survey your private underground piping from your existing meter to your home or business.

Some meters are located at your building and have no underground piping to be concerned of, but many meters are located at or near the property line and do have underground piping.

Should you have underground piping we would recommend that you follow the recommendations of the D.O.T., which are as follows:

Buried gas piping should be
(A) Periodically inspected for leaks;
(B) Periodically inspected for corrosion if the piping is metallic; and
(C) Repaired or replaced if any unsafe condition is discovered

When excavating near buried gas piping, the piping should be located in advance, and excavated carefully by competent workers experienced in such matters.

Licensed plumbing contractors can assist you in locating, inspecting and repairing your buried piping.

Should you have questions please feel free to contact any of our staff during normal working hours.

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Information about your Drinking Water

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. 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 EPAs Safe Drinking Water Hotline at (800) 426-4791. 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 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 may be found in drinking water that may cause taste, color, or odor problems. These types of problems are not necessarily causes for health concerns. For more information on taste, odor, or color of drinking water, please contact the system's business office.

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 (800-426-4791). 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 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.

This is an alert about your drinking water and a cosmetic dental problem that might affect children under nine years of age. At low levels, fluoride can help prevent cavities, but children drinking water containing more than 2 milligrams per liter (mg/L) of fluoride may develop cosmetic discoloration of their permanent teeth (dental fluorosis). The drinking water provided by your community water system Perryton Municipal Water System has a fluoride concentration of 2.33 mg/L.

Dental fluorosis, in its moderate or severe forms, may result in a brown staining and/or pitting of the permanent teeth. This problem occurs only in developing teeth, before they erupt from the gums. Children under nine should be provided with alternative sources of drinking water or water that has been treated to remove the fluoride to avoid the possibility of staining and pitting of their permanent teeth. You may also want to contact your dentist about proper use by young children of fluoride-containing products. Older children and adults may safely drink the water.

Drinking water containing more than 4 mg/L of fluoride (the U.S. Environmental Protection Agency's drinking water standard) can increase your risk of developing bone disease. Your drinking water does not contain more than 4 mg/L of fluoride, but we're required to notify you when we discover that the fluoride levels in your drinking water exceed 2 mg/L because of this cosmetic dental problem.

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For more information, please call Brandan Knapp of Perryton Municipal Water System at 806-435-4014. Some home water treatment units are also available to remove fluoride from drinking water. To learn more about available home water treatment units, you may call NSF International at 1-877-8-NSF-HELP.

Definitions and Abbreviations

Definitions and Abbreviations: The following tables contain scientific terms and measures, some of which may require explanation.
Action Level: The concentration of a contaminant which, if exceeded, triggers treatment or other requirements which a water system must follow.
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.
Avg: Regulatory compliance with some MCLs are based on running annual average of monthly samples.
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 and E. coli MCL violation has occurred and/or why total coliform bacteria have been found in our water system on multiple occasions.
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 convincing 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.
MFL: Million fibers per liter (a measure of asbestos)
mrem: Millirems per year (a measure of radiation absorbed by the body)
na: not applicable
NTU: nephelometric turbidity units (a measure of turbidity)
pCi/L: picocuries per liter (a measure of radioactivity)
ppb: micrograms per liter or parts per billion - or one ounce in 7,350,000 gallons of water.
ppm: milligrams per liter or parts per million - or one ounce in 7,350 gallons of water.
ppq: parts per quadrillion, or picograms per liter (pg/L)
ppt: parts per trillion, or nanograms per liter (ng/L)
Treatment Technique or TT: A required process intended to reduce the level of a contaminant in drinking water.

Information about Source Water

TCEQ completed an assessment of your source water, and results indicate that some of our sources are susceptible to certain contaminants. The sampling requirements for your water system is based on this susceptibility and previous sample data. Any detections of these contaminants will be found in this Consumer Confidence Report. For more information on source water assessments and protection efforts at our system contact Brandan Knapp 806-435-4014.

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Lead and Copper	Date Sampled	MCLG	Action Level (AL)	90th Percentile	# Sites Over AL	Units	Violation	Likely Source of Contamination
Copper	2019	1.3	1.3	.14	0	ppm	Y	Erosion of natural deposits: Leaching from wood preservatives: Corrosion of household plumbing systems.
Lead	2019	0	15	1.2	0	ppb	Y	Corrosion of household plumbing systems; Erosion of natural deposits.

Disinfection By-Products	Collection Date	Highest Level Detected	Range of Individual Samples	MCLG	MCL	Units	Violation	Likely Source of Contamination
Haloacetic Acids (HAAS)	2019	2	2.1-2.1	No goal for the total	60	ppb	N	By-product of drinking water 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.

Total Trihalomethanes (TTHM)	2019	3	2.56-2.56	No goal for the total	80	ppb	N	By-product of drinking water disinfection.

** 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	Collection Date	Highest Level Detected	Range of Individual Samples	MCLG	MCL	Units	Violation	Likely Source of Contamination
Arsenic	2019	3.7	3.7-3.7	0	10	ppb	N	Erosion of natural deposits; Runoff from orchards: Runoff from glass and electronics production wastes.
Barium	2019	0.078	0.078-0.078	2	2	ppm	N	Discharge of drilling wastes; Discharge from metal refineries; Erosion of natural deposits.
Chromium	2019	3.1	3.1-3.1	100	100	ppb	N	Discharge from steel and pulp mills; Erosion of natural deposits.
Fluoride	05/01/2017	2.33	2.33-2.33	4	4.0	ppm	N	Erosion of natural deposits; Water additive which promotes strong teeth; Discharge from fertilizer and aluminum factories.
Nitrate (measured as Nitrogen)	2019	3	2.59-2.59	10	10	ppm	N	Runoff from fertilizer use; Leaching from septic tanks, sewage; Erosion of natural deposits.
Radioactive Contaminants	**Collection Date**	**Highest Level Detected**	**Range of Individual Samples**	**MCLG**	**MCL**	**Units**	**Violation**	**Likely Source of Contamination**
Beta/photon emitters	05/01/2017	9.9	9.9-9.9	0	50	pCi/L	N	Decay of natural and man-made deposits.
		** EPA considers 50 pCi/L to be the level of concern for beta particles						
Gross alpha excluding radon and uranium	05/01/2017	2	2-2	0	15	pCi/L	N	Erosion of natural deposits.
Uranium	05/01/2017	8.2	8.2-8.2	0	30	ug/l	N	Erosion of natural deposits.

Disinfectant Residual	Year	Average Level	Range of Levels Detected	MRDL	MRDLG	Units of Measure	Violation (Y/N)	Source in Drinking Water
Chlorine	2019	1.3	0.99-1.69	4	4		ppm	Water additive used to control microbes.

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Violations

Lead and Copper Rule

The Lead 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
OCCT/SOWT Recommendation/Study (LCR)	12/31/2018	03/25/2019	We failed to propose treatment to our regulator in response to result that indicate our water needs treatment to reduce lead and/or copper levels. Note: Samples that triggered this violation in 2018 appear to have been faulty because successive 6-month samplings are within allowable limits and treatment is not necessary. Please contact City Hall with any questions or concerns at 806-435-4014
OCCT/SOWT Recommendation/Study (LCR)	01/01/2019	03/25/19	We failed to propose treatment to our regulator in response to results that indicate our water needs treatment to reduce lead and/or copper. Note: Samples that triggered this violation in 2018 appear to have been faulty because successive 6-month samplings are within allowable limits and treatment is not necessary. Please contact City Hall with any questions or concerns at 806-435-4014