

City of Lockhart
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Lockhart, Texas 78644

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WATER QUALITY '16

City of Lockhart
EXCELLENCE IN WATER QUALITY

Lockhart Water Department 512-398-3615

Dear Customer:

The City of Lockhart is pleased to provide you with this 2016 Water Quality Report. We take all possible precautions to safeguard your water supply and hope you will be encouraged to learn about the high quality of water provided to you.

The federal Safe Drinking Water Act (SDWA) requires water utilities to issue an annual report to customers, in addition to other notices that may be required by law. This report explains where your drinking water comes from, what it contains, and the health risks our water testing and treatment are designed to prevent.

We are committed to providing you with information about your water supply because informed customers are our best allies in supporting improvements needed to maintain the highest drinking water standards.

We are proud to report that the Texas Commission on Environmental Quality (TCEQ) has assessed our system and determined that your drinking water meets or exceeds all federal and state established water quality standards.

The tables in this report list all substances that were detected in our treated water, and the highest level at which they were detected. The tables also reflect the highest levels allowed by federal regulatory agencies. Please read this information carefully and if you have questions, call the numbers listed in this report.



Required Additional Health Information

In order to ensure that tap water is safe to drink, the USEPA 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 that must provide the same protection for public health.

All 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 USEPA's Safe Drinking Water Hotline (1-800-426-4791).

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 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:

(A) Microbial contaminants, such as viruses and bacteria, which may come from sewage treatment plants, septic systems, agricultural livestock operations, and wildlife;

(B) Inorganic contaminants, such as salts and metals, which can be naturally-occurring or result from urban storm runoff, industrial or domestic wastewater discharges, oil and gas production, mining, or farming;

(C) Pesticides and herbicides, which may come from a variety of sources such as agriculture, stormwater runoff, and residential uses;

(D) Organic chemical contaminants, including synthetic and volatile organics, which are by-products of industrial processes and petroleum production, and can also come from gas stations, urban stormwater runoff and septic systems;

(E) Radioactive contaminants, which can be naturally-occurring or the result of oil and gas production and mining activities.

National Primary Drinking Water Regulation Compliance

This report was prepared with technical assistance from the Guadalupe-Blanco River Authority. GBRA will be happy to answer any questions about the Lockhart Water Treatment Plant or its water quality and treatment process. Please contact us at 512-398-3528 or through our website at www.gbra.org. Water quality data for community water systems throughout the United States is available at www.epa.gov/safewater/dwinfo/index.html.



Main Office: 933 East Court Street ~ Seguin, Texas 78155

flowing solutions

Customer Views Welcome

The City of Lockhart strongly supports the national primary drinking water regulation compliance process. If you are interested in learning more about the water department, water quality, or participating in the decision-making process, there are a number of opportunities available.

Questions about water quality can be answered by calling Sean Kelley at 512-398-3615 from 8 a.m. - 5 p.m., Monday through Friday. Inquiries about public participation and policy decisions should be directed to the City Manager's office at 512-398-3461.

The Lockhart City Council meets every first and third Tuesday of the month at 7:30 p.m. in the Glosserman room at City Hall and all meetings are open to the public. Citizens are welcome to contribute ideas during the designated public comment period of each Council meeting.

En Español

Este informe incluye información importante sobre el agua potable. Si tiene preguntas o comentarios sobre este informe en Español, favor de llamar al tel. 512-398-3461 para hablar con una persona bilingüe en español durante las horas regulares de oficina (8 a.m. - 5 p.m.).

Special Notice

Required language for ALL community public water supplies:

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

Where Do We Get Our Drinking Water?

The City of Lockhart receives its water from two sources. Groundwater is pumped from the Wilcox Aquifer and blended with surface water from the San Marcos River treated at the GBRA Luling Water Treatment Plant, operated by the Guadalupe-Blanco River Authority (GBRA).

The TCEQ completed an assessment of your source water and results indicate that some of your sources are susceptible to certain contaminants. The sampling requirements for your water system are based on this susceptibility and previous sample data. Any detection of these contaminants may be found in this Consumer Confident Report. For more information on source water assessments and protection efforts at our system, contact Sean Kelley at 512-398-3615 or visit the TCEQ Drinking Water Watch webpage <http://dww.tceq.texas.gov/gis/swaview>. Trained operators monitor and test the water, including the addition of fluoride and chlorine, to ensure that our water meets or exceeds all state and federal drinking water standards. The treated water is delivered to the city's water towers and delivered through its distribution system to you. For information on the treatment of your drinking water and water quality protection efforts contact the GBRA Lockhart Water Treatment Plant at 512-398-3528 or visit the TCEQ Drinking Water Watch webpage at: <http://dww2.tceq.texas.gov/DWW/>.

What We Found

The following tables list the contaminants that have been found in your drinking water. USEPA requires water systems to test for more than 97 contaminants. The column marked "Highest Level at Any Sampling Point" shows the highest test results during the year. The "Source of Constituent" column shows where this substance usually originates. In the water loss audit submitted to the Texas Water Development Board for the time period of January 2016 through December 2016, the system lost an estimated 75,391,098 gallons of water. Related questions may be directed to 512-398-3615.

DEFINITIONS:

Maximum Contaminant Level (MCL) - the highest level of the contaminant 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 health risk. MCLGs allow for a margin of safety.

Action Level (AL) - the concentration of a contaminant which, if exceeded, triggers treatment or other requirements that a water system must follow.

NTU - Nephelometric Turbidity Units.

ppm - parts per million, or milligrams per liter (mg/L).

ppb - parts per billion, or micrograms per liter (ug/L).

MRDL - Maximum Residual Disinfection Level.

MRDLG - Maximum Residual Disinfectant Level Goal

TABLE I - Test results for the GBRA Luling Water Treatment Plant source water

Total organic carbon (TOC) sampled from source water has no health effects. The disinfectant can combine with TOC to form disinfection byproducts. Disinfection is necessary to ensure that water does not have unacceptable levels of pathogens. Byproducts of disinfection include trihalomethanes (THMs) and haloacetic acids (HAA) which are reported elsewhere in this report.

| Year | Constituent | Average Concentration | Minimum Concentration | Maximum Concentration | Unit of Measure | Source of Constituent |
|------|----------------------|-----------------------|-----------------------|-----------------------|-----------------|---|
| 2016 | Total Organic Carbon | 1.27 | 0.58 | 6.72 | ppm | Naturally occurring; no health effects directly associated. |

TABLE II - Test results for the water supply to Lockhart (Sampled at the Lockhart Distribution System)

Inorganics

| Year | Detected Constituent | Measured Concentration | Number of Analyses Performed | MCL | MCLG | Unit of Measure | Source of Constituent |
|------|----------------------|------------------------|------------------------------|-----|------|-----------------|---|
| 2014 | Fluoride | 0.29 | 1 | 4 | 4 | ppm | Erosion of natural deposits; water additive which promotes strong teeth; runoff from fertilizer use. |
| 2016 | Nitrate | 0.28 | 1 | 10 | 10 | ppm | Runoff from fertilizer use; leaching from septic tanks; treated wastewater effluent; erosion of natural deposits. |
| 2016 | Barium | 0.0717 | 1 | 2 | 2 | ppm | Discharge of drilling waste; discharge from metal refineries; erosion of natural deposits. |

Maximum Residual Disinfectant Level

| Year | Disinfectant | Average Concentration | Minimum Concentration | Maximum Concentration | MRDL | MRDLG | Unit of Measure | Source of Constituent |
|------|--------------|-----------------------|-----------------------|-----------------------|------|-------|-----------------|--|
| 2016 | Chloramines | 2.29 | 0.5 | 4.0 | 4 | <4.0 | ppm | Disinfectant used to control microbes. |

Radioactive Contaminants

| Year | Detected Constituent | Measured Concentration | Number of Analyses Performed | MCLG | MCL | Unit of Measure | Source of Constituent |
|------|-------------------------|------------------------|------------------------------|------|-----|-----------------|------------------------------|
| 2011 | Combined Radium 226/228 | 1.0 | 1 | 0 | 5 | pCi/L | Erosion of natural deposits. |

Disinfection Byproducts

| Year | Detected Constituent | Highest Level Detected | Range of Levels Detected | MCL | Unit of Measure | Source of Constituent |
|------|------------------------|------------------------|--------------------------|-----|-----------------|---|
| 2016 | Total Haloacetic Acids | 18 | 3.7 - 23.7 | 60 | ppb | Byproduct of drinking water disinfection. |
| 2016 | Total Trihalomethanes | 31 | 13.2 - 44.3 | 80 | ppb | Byproduct of drinking water disinfection. |

Lead and Copper at household tap/Analyzed every 3 years

| Year | Contaminant | The 90th Percentile | Number of Sites Exceeding Action Level | Action Level | Unit of Measure | Source of Constituent |
|------|-------------|---------------------|--|--------------|-----------------|---|
| 2015 | Lead | 2.96 | 1 | 15 | ppb | Corrosion of household plumbing systems; erosion of natural deposits. |
| 2015 | Copper | 0.469 | 0 | 1.3 | ppm | Corrosion of household plumbing systems; erosion of natural deposits; leaching from wood preservatives. |

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. This water supply 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>.

Total Coliform bacteria are used as indicators of microbial contamination of drinking water because testing for them is easy. While not disease-causing organisms themselves, they are often found in association with other microbes that are capable of causing disease. Coliform bacteria are more hardy than many disease-causing organisms; therefore, their absence from water is a good indication that the water is microbiologically safe for human consumption.

Coliform Bacteria

| Maximum Contaminant Level Goal | Total Coliform Maximum Contaminant Level | Highest No. Of Positive | Fecal Coliform or E.Coli Maximum Contaminant Level | Total No. of Positive E. Coli or Fecal Coliform Samples | Violation | Likely Source |
|--------------------------------|--|-------------------------|--|---|-----------|--------------------------------------|
| 0 | 1 positive montly sample | 2 | | 0 | N | Naturally present in the environment |

TABLE III - Test results for the GBRA water supply to Lockhart (Sampled at the GBRA Luling Water Treatment Plant)

Inorganics

| Year | Detected Constituent | Measured Concentration Avs. | Number of Analyses Performed | MCL | MCLG | Unit of Measure | Source of Constituent |
|------|----------------------|-----------------------------|------------------------------|-----|------|-----------------|---|
| 2016 | Barium | 0.0334 | 1 | 2 | 2 | ppm | Discharge of drilling wastes; erosion of natural deposits. |
| 2016 | Fluoride | 0.66 | 1 | 4.0 | 4 | ppm | Erosion of natural deposits; water additive which promotes strong teeth; runoff from fertilizer use. |
| 2016 | Nitrate-Nitrogen | 1.53 | 1 | 10 | 10 | ppm | Runoff from fertilizer use; leaching from septic tanks; treated wastewater effluent; erosion of natural deposits. |
| 2016 | Cyanide | 0.09 | 1 | 0.2 | 0.2 | ppm | Discharge from steel/metal factories; Discharge from plastic and fertilizer factories. |

Volatile Organic Contaminants

| Year | Detected Constituent | Measured Concentration Avs. | Number of Analyses Performed | MCL | MCLG | Unit of Measure | Source of Constituent |
|------|----------------------|-----------------------------|------------------------------|-----|------|-----------------|---|
| 2016 | p-Dichlorobenzene | 1.0 | 1 | 75 | 75 | ppb | Discharge from industrial chemical factories. |

Turbidity has no health effects. However, turbidity can interfere with 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. Turbidity is measured 4 times per day through grab samples and continuously through automatic on-line individual filter turbidity monitors.

| Year | Detected Constituent | Highest Single Measurement | Lowest Monthly % of Samples Meeting Limits | Turbidity Limits | Unit of Measure | Source of Constituent |
|------|----------------------|----------------------------|--|------------------|-----------------|-----------------------|
| 2016 | Turbidity | 0.11 | 100% | 0.3 | NTU | Soil runoff. |

Total Coliform bacteria are used as indicators of microbial contamination of drinking water because testing for them is easy. While not disease-causing organisms themselves, they are often found in association with other microbes that are capable of causing disease. Coliform bacteria are more hardy than many disease-causing organisms; therefore, their absence from water is a good indication that the water is microbiologically safe for human consumption.

| | |
|----------------|--|
| Total Coliform | Reported monthly tests found no coliform bacteria. |
| E. coli | Reported monthly tests found no E. coli bacteria. |