| | ng Water Quality Report |
|--|--|
| | onfidence Report) MERCEDES Phone # 956-565-2372 |
| SPECIAL NOTICE | INFORMATION ON SOURCES OF WATER |
| 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/CDC guidelines on | 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. |
| appropriate means to lessen the risk of infection by Cryptosporidium and other | Contaminants that may be present in source water include: |
| microbial contaminants are available from the Safe Drinking Water Hotline (800-426-4791). | Microbial contaminants, such as viruses and bacteria, which may come from sewage treatment plants, septic systems, agricultural livestock operations, and |
| Public Participation Opportunities The public is encouraged to attend the | wildlife. |
| City Commission meetings which are held on the first and third Thursday of each month at the Mercedes City Hall located at 400 S. Ohio Ave. | Inorganic contaminants, such as salts and metals, which can be naturally- occurring or result from urban storm water runoff, industrial or domestic |
| For any questions regarding your drinking water or any of the information | wastewater discharges, oil and gas production, mining, or farming. |
| provided in the following pages please call the Mercedes Water Treatment Plant at (956) 565-2372. | Pesticides and herbicides, which may come from a variety of sources such as agriculture, urban storm water runoff, and residential uses. |
| Our Drinking Water Currently Meets or Exceeds All Federal (EPA) Drinking Water Requirements This report is a summary of the quality of the water we provide our customers. The analysis was made by using the data from the most recent U.S. Environmental Protection Agency (EPA) required tests and is presented in the attached pages. We hope this information helps | 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. |
| you become more knowledgeable about what's in your drinking water. | Radioactive contaminants, which can be naturally-occurring or be the result of oil and gas production and mining activities |
| | En Español Este informe incluye información importante sobre el agua potable. Si tiene preguntas o comentarios sobre éste informe en español, favor de llamar al tel. (956) 565 - 2372 - para hablar con una persona bilingüe en español. |

Where do we get our drinking water? Our drinking water is obtained from a combination of surface water that originates from the Rio Grande River and groundwater. A Source Water Susceptibility Assessment for your drinking water sources(s) is currently being updated by the Texas Commission on Environmental Quality. This information describes the susceptibility and types of constituents that may come into contact with your drinking water source based on human activities and natural conditions. The information contained in the assessment allows us to focus our source water protection strategies. Source water assessment information is available on Texas Drinking Water Watch at https://dww2.tceq.texas.gov/DWW/ For more information on source water assessments and protection efforts at our system, please contact us at (956) 565-2372.

ALL drinking water may contain contaminants. When drinking water meets federal standards there may not be any health based 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 EPA's Safe Drinking Water Hotline (1-800-426-4791).

Secondary constituents: Many constituents (such as calcium, sodium, or iron) which are often found in drinking water can cause taste, color, and odor problems. The taste and odor constituents are called secondary constituents and are regulated by the State of Texas, not the EPA. These constituents pose no health concerns and are only included in this report if the secondary MCL is exceeded.

About the following pages: The Table of Detected Contaminants list all of the federally regulated or monitored contaminants which have been found in your drinking water. The U.S. EPA requires water systems to test for up to 90 contaminants.

DEFINITIONS:

Maximum Contaminant Level (MCL) - The highest permissible level of a contaminant 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. MPL – State Assigned Maximum Permissible Level. Maximum Residual Disinfectant Level (MRDL) - The highest level of 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 contaminant. Teretment Technique (TT) - A required process intended to reduce the level of a contaminant in drinking water. Action Level (AL) - The concentration of a contaminant which, if exceeded, triggers treatment or other requirements which a water system must follow. 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 an E. coli MCL violation has occurred and/or why total coliform bacteria have been found in our water system or multiple occasions.

ABBREVIATIONS:

LRAA – Locational Running Annual Average. MPL – Maximum Permissible Level. NTU - Nephelometric Turbidity Units. 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 (µg/L). mfl – million fibers per liter. NA – not applicable. ND – not detected. RAA –Running Annual Average. MRL – Minimum Reporting Limit

TABLE OF DETECTED CONTAMINANTS

| Sample | Contaminants | MCLG | MCL | Your | Range | Unit of | Violation | Typical Source of Contaminant | |
|--------|--------------------------------|------|------|--------|----------|----------|-----------|--|--|
| Date | | | | Water | Low High | Measure | | | |
| 2021 | Arsenic | NA | 0.01 | 0.0022 | NA | NA ppm | | Erosion of natural deposits; Runoff from orchards; Runoff from glass and electronics production wastes. | |
| 2012 | Asbestos | NA | 7 | 0.1878 | NA | NA mt No | | Erosion of natural deposits; Household waste; Runoff from mining tailings | |
| 2021 | Barium | NA | 2 | 0.0768 | NA | ppm | No | Discharge of drilling wastes; Discharge from metal refineries; Erosion of natural deposits. | |
| 2021 | Total Cyanide | NA | 0.2 | 0.03 | NA | ppm | No | Discharge from drilling wastes; Discharge from metal refineries; Erosion of natural deposits. | |
| 2021 | Fluoride | NA | 4 | 0.46 | NA | ppm | No | Erosion of natural deposits; Water additive which promotes strong teeth; Discharge from fertilizer and aluminum factories. | |
| 2021 | Mercury | NA | 2 | <0.4 | NA | ppm | No | Erosion of natural deposits; Discharge from refineries and factories; Runoff from landfills; Runoff from cropland. | |
| 2021 | Nitrate [measured as Nitrogen] | NA | 10 | 0.66 | NA | ppm | No | Runoff from fertilizer use; Leaching from septic tanks, sewage; Erosion of natural deposits. | |
| 2021 | Selenium | NA | 0.05 | 0.0035 | NA | | | Discharge of petroleum and metal refineries; erosion of natural deposits; discharge from mines. | |
| 2021 | Thallium | NA | 2 | <0.4 | NA | ppm | No | Leaching from petroleum and metal refineries; Erosion of natural deposits; Discharge from factories. | |

Disinfectant Residual Level

organia Contaminante

| Year | Disinfectant | MRDLG | MRDL | Your Water | Range | | Range | | Unit of Measure | Violation | Typical Source |
|------------|-----------------|--------------|------------|------------------|-----------|------------|---------------------|---------------|---|-----------|----------------|
| rear | Disimectant | WRDLG | IVIRUL | RAA | Low | High | Unit of weasure | VIOIALIOII | Typical Source | | |
| 2021 | Chloramines | 4 | 4 | 2.52 | .708 4.50 | | ppm | No | Disinfectant used to control microbes. | | |
| | | ``` | , | | 1 1 | | 0 | | the MRDL could experience irritating effects to their | | |
| eves and r | nose. Some peor | ole who drin | k water co | ntaining chloran | nines we | ell in exc | ess of the MRDL cou | uld experienc | e stomach discomfort or anemia. | | |

Disinfection Byproducts – Stage 2

| | | | | Your | Ra | inge | Unit of | | |
|------|-----------------------------------|------|-----|----------------|-----|------|---------|-----------|---|
| Year | Contaminant | MCLG | MCL | Water LRAA* | Low | High | Measure | Violation | Typical Source |
| 2021 | Total Trihalomethanes (TTHM's) | NA | 80 | 69 | 6.8 | 128 | ppb | No | Byproduct of drinking water disinfection. |
| 2021 | Total Haloacetic Acids (HAA5's) | NA | 60 | 22 | 8.9 | 54.3 | ppb | No | Byproduct of drinking water disinfection. |

Health information for TTHMs (Total Trihalomethanes) - Some people who drink water containing trihalomethanes in excess of the MCL over many years may experience problems with their liver, kidneys, or central nervous system, and may have an increased risk of getting cancer.

* For Stage 2 TTHM's or Haloacetic Acids the level detected is the highest locational running annual average (LRAA). The locational running average is the average of sample analytical results for samples taken at a particular monitoring location during the previous four calendar quarters.

Lead and Copper

| Year | Contaminant | MCLG | AL | Your Water 90 th Percentile | # Samples Exceeding AL | Unit of Measure | Exceeds AL | Typical Source |
|------|---|------|-----|--|------------------------------|--------------------|---------------|--|
| 2021 | Lead – action level at consumer taps | 0 | 15 | 8.7 | 2 | ppb | No | Corrosion of household plumbing systems; erosion of natural deposits. |
| 2021 | Copper – action level at consumer taps | 1.3 | 1.3 | 1.0 | 0 | ppm | No | Corrosion of household plumbing systems; erosion of natural deposits; leaching from wood preservatives. |

Additional 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. 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.

| Year | Contaminant | Limit (Treatment Technique) | Level detected | Violation | Source of Contaminant |
|------|---------------------------------------|--------------------------------|----------------|-----------|-----------------------|
| 2021 | Highest single measurement (NTU's) | 1.0 | 0.40 | No | Soil runoff |
| 2021 | Lowest monthly % meeting limit | 0.3 | 99.1%* | No | Soil runoff |

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.

| Radioa | active Contaminants | | | | | | | | | |
|---------|----------------------------------|--------------|---------------|--|-----|----------|-----------|----------------|---|--|
| Year | Contaminant | MCLG | MCL | Your Range Unit of Water Low High Measure | | Unit of | Violation | Typical Source | | |
| i eai | Containmant | WICLO | MOL | Water | Low | Low High | | VIOIation | Typical Source | |
| 2017 | Gross Beta/photon emitters | 0 | 50* | 6.8 | N | A | pCi/L | No | Decay of natural and man-made deposits. | |
| 2017 | Combined Radium | 0 | 4 | 1.5 | N | A | mrem/yr | No | Decay of natural and man-made deposits. | |
| * EPA c | onsiders 50 pCi/L to be the leve | l of concern | for beta part | icles. | | | | | | |

Total Organic Carbon (TOC)

| Year | Contaminant | Lowest TOC removal ratio % | Average TOC removal ratio % | Highest TOC removal ratio % | Treatment Technique (TT) | MCLG | Unit of Measure | Source of Contaminant |
|------|----------------|----------------------------------|-----------------------------------|-----------------------------------|--|------|--------------------|---------------------------------------|
| 2021 | TOC Removal | .99 | 1.76 | 2.47 | TT -System provides the alternative compliance criteria removal ratio required | NA | %* | Naturally present in the environment. |

T

*Removal ratio is the percent of TOC removed by the treatment process divided by the percent of TOC required by TCEQ to be removed. Total organic carbon (TOC) 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.

Microbiological Contaminants

| | Contaminant | MCLG | MCL | Total Number of Positives for the Year | Violation | Typical Source |
|------|-------------------------|------|---|---|-----------|---------------------------------------|
| 2021 | Total Coliform Bacteria | 0 | Π | 0 | No | Naturally present in the environment. |
| 2021 | E. coli | 0 | Routine and repeat samples are total coliform- positive, and either is E. coli-positive, or system fails to take repeat samples following E. coli-positive routine sample or system fails to analyze total coliform-positive repeat sample for E. coli. | 0 | No | Human and animal fecal waste. |

Microbiological Monitoring

Coliforms are bacteria that are naturally present in the environment and are used as an indicator that other, potentially harmful, waterborne pathogens may be present or that a potential pathway exists through which contamination may enter the drinking water distribution system.

Secondary and Other Constituents Not Regulated: (No associated adverse health effects)

| Year | Constituent | Your Water | Minimum Level | Maximum Level | Secondary Limit MPL | Unit of Measure | Source of Constituent | |
|------|------------------------------|------------|------------------|------------------|------------------------|--------------------|---|--|
| 2021 | Aluminum | 0.0392 | NA | NA | 0.05-0.2 | ppm | Erosion of natural deposits; residue from some surface water treatment processes | |
| 2021 | Bicarbonate | 138 | NA | NA | NA | ppm | Corrosion of carbonate rocks such as limestone. | |
| 2021 | Chloride | 209 | NA | NA | 300 | ppm | Abundant naturally occurring element; used in water purification; byproduct of oil field activity. | |
| 2021 | Iron | 0.014 | NA | NA | 0.3 | ppm | Naturally occurrence from soil leaching. | |
| 2021 | Magnesium | 28.9 | NA | NA | NA | ppm | Naturally occurring. | |
| 2021 | Manganese | 0.0378 | NA | NA | 0.05 | ppm | Leaching from natural deposits. | |
| 2021 | Nickel | 0.0026 | NA | NA | 0.1 | ppm | Erosion of natural deposits; discharge from metal factories. | |
| 2021 | Copper | 0.053 | NA | NA | 1.0 | ppm | Corrosion of household plumbing systems; Erosion of natural deposits. | |
| 2021 | pН | 6.6 | NA | NA | >7.0 | units | Measure of corrosively of water. | |
| 2021 | Sodium | 195 | NA | NA | NA | ppm | Leaching from natural deposits | |
| 2021 | Sulfate | 345 | NA | NA | 300 | ppm | Runoff/leaching from natural deposits; industrial wastes | |
| 2021 | Total Alkalinity as CaCO3 | 113 | NA | NA | NA | ppm | Naturally occurring soluble mineral salts. | |
| 2021 | Total Hardness as CaCO3 | 321 | NA | NA | NA | ppm | Naturally occurring soluble mineral salts. | |
| 2021 | Total Dissolved Solids | 990 | NA | NA | 1000 | ppm | Total dissolved mineral constituents in water. | |