

Annual Drinking Water Quality Report

TX2360052

WALKER COUNTY SUD C

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.

For more information regarding this report contact:

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Este reporte incluye información importante sobre el agua para tomar. Para asistencia en español, favor de llamar al teléfono (936) 295-4452

WALKER COUNTY SUD C is Ground Water

Sources of 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
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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>.

Information about Source Water Assessments

A Source Water Susceptibility Assessment for your drinking water source(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 source water protection strategies.

For more information about your sources of water, please refer to the Source Water Assessment Viewer available at the following URL: <http://gis3.tceq.state.tx.us/swav/Controller/index.jsp?wtrsrc=>

Further details about sources and source-water assessments are available in Drinking Water Watch at the following URL: <http://dww.tceq.texas.gov/DWW>

| Source Water Name | Type of Water | Report Status | Location |
|-------------------|------------------------|---------------|----------------------|
| 1-32 M WILLIAMS | WILLIAMS RD / S HWY 30 | INACTIVE | <u>32 M WILLIAMS</u> |
| 3- 13 FM 1696 W | 13 FM 1696 W | Y | <u>13 FM 1696 W</u> |

The water is disinfected using chlorine gas. During 2016 the average Chlorine residual was 1.08 milligrams per liter (mg/L). The lowest and highest single samples were 0.49 mg/L & 1.36 mg/L. The maximum residual disinfectant level is 4.0 mg/L based on a running annual average for all samples in the distribution system.

Lead and Copper

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 which a water system must follow.

| Lead and Copper | Date Sampled | MCLG | Action Level (AL) | 90 th Percentile | # Sites Over AL | Units | Violation | Likely Source of Contamination |
|-----------------|--------------|------|-------------------|-----------------------------|-----------------|-------|-----------|---|
| Copper | 2016 | 1.3 | 1.3 | 0.109 | 0 | ppm | N | Erosion of natural deposits; Leaching from wood preservatives; Corrosion of household plumbing systems. |
| Lead | 2016 | 0 | 15 | 1 | 0 | ppb | N | Corrosion of household plumbing systems; Erosion of natural deposits. |

2016 Regulated Contaminants Detected

Water Quality Test Results

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|--|--|
| Definitions: | The following tables contain scientific terms and measures, some of which may require explanation. |
| Avg: | Regulatory compliance with some MCLs are based on running annual average of monthly samples. |
| Maximum Contaminant Level or MCL: | The highest level of a contaminant that is allowed in drinking water. MCLs are set as close to MCLGs as feasible using the best available treatment technology. |
| 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. |
| 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. |
| 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 on multiple occasions. |
| 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) |
| na: | not applicable. |
| mrem: | millirems per year (a measure of radiation absorbed by the body) |
| 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. |
| Treatment Technique or TT | A required process intended to reduce the level of a contaminant in drinking water. |
| ppt | parts per trillion, or nanograms per liter (ng/L) |
| Ppq | parts per quadrillion, or picograms per liter (pg/L) |

Regulated Contaminants

| Disinfectants and Disinfection By-Products | Collection Date | Highest Level Detected | Range of Levels Detected | MCLG | MCL | Units | Violation | Likely Source of Contamination |
|--|-----------------|------------------------|--------------------------|-----------------------|-----|--------|------------|--|
| Haloacetic Acids (HAA5) | 2016 | 2 | 1.8-1.8 | No goal for the total | 60 | ppb | N | By-product of drinking water disinfection. |
| Total Trihalomethanes (TTHM) | 2016 | 10 | 9.6-9.6 | No goal for the total | 80 | ppb | N | By-product of drinking water disinfection. |
| Inorganic Contaminants | Collection Date | Highest Level Detected | Range of Levels Detected | MCLG | MCL | Units | Violation | Likely Source of Contamination |
| Barium | 06/25/15 | 0.074 | 0.074-0.074 | 2 | 2 | ppm | N | Discharge of drilling wastes; Discharge from metal refineries; Erosion of natural deposits |
| Nitrate [measured as Nitrogen] | 2016 | 0.02 | 0.02-0.02 | 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 Levels Detected | MCLG | MCL | Units | Violations | Likely Source of Contamination |
| Beta/photon emitters | 06/25/2015 | 10.1 | 10.1-10.1 | 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.

| Combined Radium 226/228 | 03/12/15 | 1.87 | 1.87-1.87 | 0 | 5 | pCi/L | N | Erosion of natural deposits. |
|-------------------------------|-----------------|------------------------|--------------------------|------|-----|-------|-----------|--|
| Volatile Organic Contaminants | Collection Date | Highest Level Detected | Range of Levels Detected | MCLG | MCL | Units | Violation | Likely Source of Contamination |
| Xylenes | 2016 | 0.0006 | 0-0.0006 | 10 | 10 | ppm | N | Discharge from petroleum factories; Discharge from chemical factories. |

Violations Table

| | | | |
|---|-----------------|---------------|---|
| 1,1,1 – Trichlorethane | | | |
| Some people who drink water containing 1,1,1-trichlorethane in excess of the MCL over many years could experience problems with their liver, nervous system, or circulatory system. | | | |
| Violation Type | Violation Begin | Violation End | Violation Explanation |
| MONITORING, ROUTINE MAJOR | 01/01/2016 | 03/31/2016 | 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. |

| | | | |
|--|-----------------|---------------|---|
| 1,1,2 - Trichlorethane | | | |
| Some people who drink water containing 1,1,2-trichlorethane in excess of the MCL over many years could experience problems with their liver, kidneys or immune system. | | | |
| Violation Type | Violation Begin | Violation End | Violation Explanation |
| MONITORING, ROUTINE MAJOR | 01/01/2016 | 03/31/2016 | 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. |

| | | | |
|---|-----------------|---------------|---|
| 1,1 - Dichloroethylene | | | |
| Some people who drink water containing 1,1,-dichloroethylene in excess of the MCL over many years could experience problems with their liver. | | | |
| Violation Type | Violation Begin | Violation End | Violation Explanation |
| MONITORING, ROUTINE MAJOR | 01/01/2016 | 03/31/2016 | 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. |

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|--|-----------------|---------------|---|
| 1,2,4 – Trichlorethane | | | |
| Some people who drink water containing 1,2,4-trichlorethane in excess of the MCL over many years could experience changes in their adrenal glands. | | | |
| Violation Type | Violation Begin | Violation End | Violation Explanation |
| MONITORING, ROUTINE MAJOR | 01/01/2016 | 03/31/2016 | 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. |

| | | | |
|--|-----------------|---------------|---|
| 1,2 - Dichloroethane | | | |
| Some people who drink water containing 1,2-dichloroethane in excess of the MCL over many years may have an increased risk of getting cancer. | | | |
| Violation Type | Violation Begin | Violation End | Violation Explanation |
| MONITORING, ROUTINE MAJOR | 01/01/2016 | 03/31/2016 | 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. |

| 1,2 - Dichloroethane | | | |
|--|-----------------|---------------|---|
| Some people who drink water containing 1,2-dichloroethane in excess of the MCL over many years may have an increased risk of getting cancer. | | | |
| Violation Type | Violation Begin | Violation End | Violation Explanation |
| MONITORING, ROUTINE MAJOR | 01/01/2016 | 03/31/2016 | 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. |

| Benzene | | | |
|---|-----------------|---------------|---|
| Some people who drink water containing in excess of the MCL over many years could experience anemia or a decrease in blood platelets, and may have an increased risk of getting cancer. | | | |
| Violation Type | Violation Begin | Violation End | Violation Explanation |
| MONITORING, ROUTINE MAJOR | 01/01/2016 | 03/31/2016 | 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. |

| Carbon Tetrachloride | | | |
|---|-----------------|---------------|---|
| Some people who drink water containing carbon tetrachloride in excess of the MCL over many years could experience problems with their liver and may have an increased risk of getting cancer. | | | |
| Violation Type | Violation Begin | Violation End | Violation Explanation |
| MONITORING, ROUTINE MAJOR | 01/01/2016 | 03/31/2016 | 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. |

| Chlorobenzene | | | |
|--|-----------------|---------------|---|
| Some people who drink water containing chlorobenzene in excess of the MCL over many years could experience problems with their liver or kidneys. | | | |
| Violation Type | Violation Begin | Violation End | Violation Explanation |
| MONITORING, ROUTINE MAJOR | 01/01/2016 | 03/31/2016 | 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. |

| Dichloromethane | | | |
|---|-----------------|---------------|---|
| Some people who drink water containing dichloromethane in excess of the MCL over many years could have liver problems and may have an increased risk of getting cancer. | | | |
| Violation Type | Violation Begin | Violation End | Violation Explanation |
| MONITORING, ROUTINE MAJOR | 01/01/2016 | 03/31/2016 | 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. |

| Ethylbenzene | | | |
|---|-----------------|---------------|---|
| Some people who drink water containing ethylbenzene in excess of the MCL over many years could experience problems with their liver or kidneys. | | | |
| Violation Type | Violation Begin | Violation End | Violation Explanation |
| MONITORING, ROUTINE MAJOR | 01/01/2016 | 03/31/2016 | 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 |
| LEAD CONSUMER NOTICE (LCR) | 12/30/2013 | 10/31/2016 | We failed to provide the results of lead tap water monitoring to the consumers at the location water was tested. These were supposed to be provided no later than 30 days after learning the results. |

| Public Notification Rule | | | |
|---|-----------------|---------------|--|
| The Public Notification Rule helps to ensure that consumers will always know if there is a problem with their drinking water. These notices immediately alert consumers if there is a serious problem with their drinking water (e.g., boil water emergency). | | | |
| Violation Type | Violation Begin | Violation End | Violation Explanation |
| PUBLIC NOTICE RULE LINK TO VIOLATION | 12/14/2016 | 2016 | We failed to adequately notify you, our drinking water consumers, about a violation of the drinking water regulations. |

| Styrene | | | |
|--|-----------------|---------------|---|
| Some people who drink water containing styrene well in excess of the MCL over many years could have problems with their liver, kidneys, or circulatory system. | | | |
| Violation Type | Violation Begin | Violation End | Violation Explanation |
| MONITORING, ROUTINE MAJOR | 01/01/2016 | 03/31/2016 | 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. |

| Toluene | | | |
|---|-----------------|---------------|---|
| Some people who drink water containing toluene in excess of the MCL over many years could experience problems with their nervous system, kidneys, or liver. | | | |
| Violation Type | Violation Begin | Violation End | Violation Explanation |
| MONITORING, ROUTINE MAJOR | 01/01/2016 | 03/31/2016 | 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. |

| | | | |
|---|-----------------|---------------|---|
| Trichloroethylene | | | |
| Some people who drink water containing Trichloroethylene in excess of the MCL over many years could experience problems with their liver and may have increased risk of getting cancer. | | | |
| Violation Type | Violation Begin | Violation End | Violation Explanation |
| MONITORING, ROUTINE MAJOR | 01/01/2016 | 03/31/2016 | 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. |

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|---|-----------------|---------------|---|
| Vinyl Chloride | | | |
| Some people who drink water containing Vinyl Chloride in excess of the MCL over many years may have increased risk of getting cancer. | | | |
| Violation Type | Violation Begin | Violation End | Violation Explanation |
| MONITORING, ROUTINE MAJOR | 01/01/2016 | 03/31/2016 | 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. |

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|--|-----------------|---------------|---|
| Xylenes | | | |
| Some people who drink water containing Xylenes in excess of the MCL over many years could experience damage to their nervous system. | | | |
| Violation Type | Violation Begin | Violation End | Violation Explanation |
| MONITORING, ROUTINE MAJOR | 01/01/2016 | 03/31/2016 | 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. |

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|--|-----------------|---------------|---|
| cis-1,2-Dichloroethylene | | | |
| Some people who drink water containing cis-1,2-Dichloroethylene in excess of the MCL over many years could experience problems with their liver. | | | |
| Violation Type | Violation Begin | Violation End | Violation Explanation |
| MONITORING, ROUTINE MAJOR | 01/01/2016 | 03/31/2016 | 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. |

| | | | |
|---|-----------------|---------------|---|
| o-Dichlorbenzene | | | |
| Some people who drink water containing o-Dichlorbenzene in excess of the MCL over many years could experience problems with their liver, kidneys, or circulatory systems. | | | |
| Violation Type | Violation Begin | Violation End | Violation Explanation |
| MONITORING, ROUTINE MAJOR | 01/01/2016 | 03/31/2016 | 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. |

| p-Dichlorobenze | | | |
|--|-----------------|---------------|---|
| Some people who drink water containing p-Dichlorobenze in excess of the MCL over many years could experience anemia, damage to their liver, kidneys, or spleen, or changes in their blood. | | | |
| Violation Type | Violation Begin | Violation End | Violation Explanation |
| MONITORING, ROUTINE MAJOR | 01/01/2016 | 03/31/2016 | 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. |

| trans-1,2-Dichoroethylene | | | |
|---|-----------------|---------------|---|
| Some people who drink water containing trans-1,2-Dichoroethylene in excess of the MCL over many years could experience problems with their liver. | | | |
| Violation Type | Violation Begin | Violation End | Violation Explanation |
| MONITORING, ROUTINE MAJOR | 01/01/2016 | 03/31/2016 | 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. |