

# Annual Drinking Water Quality Report

TX0150040

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.

ATASCOSA RURAL WSC is *Ground Water*

For more information regarding this report contact:

Name- *MIKE FERNANDEZ*

Phone- *210-622-3901*

Este reporte incluye información importante sobre el agua para tomar. Para asistencia en español, favor de llamar al telefono (210)622-3901.

## **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.
- 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.

The TCEQ completed an assessment of your source water and results indicate that our sources have a low susceptibility to contaminants. The sampling requirements for your water system are based on this susceptibility and previous sample data. Any detections 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 [Mike Fernandez]

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
3 - 14450 JARRATT RD	GW	A	BEXAR
4 - 11060 JARRATTT RD	GW	A	BEXAR
5 - 13192 MACDONA-LACOSTE	GW	A	BEXAR
6 - 13192 MACDONA-LACOSTE	GW	A	BEXAR

**2016 Regulated Contaminants Detected**

*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)	90th Percentile	# Sites Over AL	Units	Violation	Likely Source of Contamination
Copper	2016	1.3	1.3	0.252	0	ppm	N	Erosion of natural deposits; Leaching from wood preservatives; Corrosion of household plumbing systems.
Lead	2016	0	15	0	1	ppb	N	Corrosion of household plumbing systems; Erosion of natural deposits.

**Water Quality Test Results**

**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 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

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. **Water Quality Test Results**

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	Collection Date	Highest Level Detected	Range of Levels Detected	MCLG	MCL	Units	Violation	Likely Source of Contamination
Haloacetic Acids (HAA5)	2016	1	0 - 4.9	No goal for the total	60	ppb	N	By-product of drinking water disinfection.
Total Trihalomethanes (TTHM)	2016	7	1.3 - 29.8	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	2016	0.141	0.141 - 0.141	2	2	ppm	N	Discharge of drilling wastes; Discharge from metal refineries; Erosion of natural deposits.
Fluoride	03/27/2014	2.05	2.05 - 2.05	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]	2016	0.23	0 - 0.23	10	10	ppm	N	Runoff from fertilizer use; Leaching from septic tanks, sewage; Erosion of natural deposits.
Thallium	2016	0.85	0.85 - 0.85	0.5	2	ppb	N	Discharge from electronics, glass, and Leaching from ore-processing sites; drug factories.
Radioactive Contaminants	Collection Date	Highest Level Detected	Range of Levels Detected	MCLG	MCL	Units	Violation	Likely Source of Contamination
Beta/photon emitters	2016	5.5	5.5 - 5.5	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	2016	3.05	3.05 - 3.05	0	5	pCi/L	N	Erosion of natural deposits.
Gross alpha excluding radon and uranium	2016	14.8	12 - 14.8	0	15	pCi/L	N	Erosion of natural deposits.
Uranium	2016	3.8	3.8 - 3.8	0	30	ug/l	N	Erosion of natural deposits.

#### Violations Table

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	02/03/2017	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.
LEAD CONSUMER NOTICE (LCR)	12/30/2016	02/03/2017	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.

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).	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.

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, Atascosa Rural Water Supply Corp., has a fluoride concentration of 2.05 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 2mg/L because of this cosmetic dental problem.

For more information, please contact Mike Fernandez of Atascosa Rural Water Supply Corp. at 210-622-3901. 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 [1-877-8NSF-HELP](tel:1-877-8NSF-HELP).

Dear ARWSC Resident,

This letter is to inform you that Atascosa Rural Water Supply Corp. will be rolling out a new water volume structure and new rates for water services approved by the Board of Directors on May 9, 2017. This will go into effect on August 1, 2017. The new water volume tier structure will incentivize water conservation. The purpose of the rate increases is to allow the utility to collect sufficient revenue to enable it to continue providing water to its customers in the face of increasing operating costs; to enable the ability to afford capital improvements that are essential for operating the water system in a safe and financially prudent manner; and to establish a revenue stream capable of meeting future obligations to repay debt incurred to finance necessary capital improvements. Without the proposed water rate increases, the utility water revenues could cover operating expenses, but not its necessary capital expenses to continue to meet customer expectations for dependable service and future drinking water quality standards.

As utility costs throughout the industry continue to rise, ARWSC staff is committed to managing those costs and staying efficient while upholding the communities' commitment to a sustainable future. These rate adjustments will help ensure the reliability and affordability of basic water services. They will also support the Boards' commitment to the replacement of aging infrastructure, which will mean fewer water main breaks and interruptions to service. If you have questions about the rate changes, please contact General Manager, Mike Fernandez, at 210-622-3901, Monday through Friday, 8 a.m. to 5 p.m.

Thank you,

Atascosa Rural Water Supply Corp.

Estimado residente de ARWSC,

Esta carta es para informarle que Atascosa Rural Water Supply Corp. lanzará una nueva estructura de volumen de agua y nuevas tarifas para servicios de agua aprobados por la Junta Directiva el 9 de mayo de 2017. Esto entrará en vigencia el 1 de agosto de 2017. La nueva estructura de niveles de volumen de agua incentivará la conservación del agua. El propósito de los aumentos de tarifas es permitir que la empresa recaude ingresos suficientes para permitirle continuar suministrando agua a sus clientes ante el aumento de los costos de operación; Para permitir la capacidad de permitir las mejoras de capital que son esenciales para operar el sistema de agua de una manera segura y financieramente prudente; Y establecer un flujo de ingresos capaz de cumplir con las obligaciones futuras de reembolsar la deuda contraída para financiar las mejoras de capital necesarias. Sin los aumentos de la tarifa de agua propuestos, los ingresos de agua potable podrían cubrir los gastos de operación, pero no sus gastos de capital necesarios para seguir satisfaciendo las expectativas de los clientes para el servicio confiable y las futuras normas de calidad del agua potable.

A medida que los costos de las utilidades en toda la industria continúan aumentando, el personal de ARWSC está comprometido a administrar esos costos y mantenerse eficiente mientras se mantiene el compromiso de las comunidades con un futuro sostenible. Estos ajustes tarifarios ayudarán a garantizar la fiabilidad y la asequibilidad de los servicios básicos de agua. También respaldarán el compromiso de las Juntas a la sustitución de las infraestructuras de envejecimiento, lo que significará menos interrupciones e interrupciones del suministro de agua. Si tiene preguntas acerca de los cambios en las tarifas, comuníquese con el Gerente General, Mike Fernández, al 210-622-3901, de lunes a viernes, de 8 am a 5 p.m.

Gracias,

Atascosa Rural Water Supply Corp.

ATASCOSA RURAL WATER SUPPLY CORP.						
WATER RATE STRUCTURE		<u>Effective August 1, 2017</u>				
Approved by Board of Directors May 9, 2017						
RATE CODE 1		STANDARD 5/8 INCH METER				
CURRENT		NEW		Examples		
BASIC ( 3000 ) GALLONS	\$22.50	1000 gal	\$18.20	1,000 gallons	2,000 gallons	3,000 gallons
PER 1000		PER 1000				
3001-9000	\$1.15	<b>1001-6000 \$2.15</b>				
9001- 21000	\$1.20	<b>6001-18,000 \$3.15</b>				
21001- OVER	\$1.30	<b>18,001 + \$4.15</b>				
WATER 0-3000 gallons	\$22.50			\$18.20	\$20.35	\$22.50
INTERCONNECT FEE	\$3.65			\$3.65	\$3.65	\$3.65
SUPPLIER FEE	\$5.00			\$5.00	\$5.00	\$5.00
EDWARDS AQUIFER FEE	\$4.00			\$4.00	\$4.00	\$4.00
TOWER FEE	\$2.00			\$2.00	\$2.00	\$2.00
TCEQ FEE 0.005%	\$0.11			\$0.09	\$0.10	\$0.11
<b>TOTAL BILL WITH FEES</b>	<b>\$37.26</b>			<b>\$32.94</b>	<b>\$35.10</b>	<b>\$37.26</b>
RATE CODE 3		1 INCH METER				
CURRENT		NEW				
BASIC ( 7500 ) GALLONS	\$42.50	5000 gal	\$42.50	5,000 gallon	8,000 gallon	18,000 gallon
7501-9000	\$1.15	<b>5001-9000 \$2.15</b>				
9001-21000	\$1.20	<b>9001-18,000 \$3.15</b>				
21001- OVER	\$1.30	<b>18,001 + \$4.15</b>				
WATER 0-7500 gallons	\$42.50			\$42.50	\$48.95	\$79.45
INTERCONNECT FEE	\$3.65			\$3.65	\$3.65	\$3.65
SUPPLIER FEE	\$5.00			\$5.00	\$5.00	\$5.00
EDWARDS AQUIER FEE	\$6.00			\$6.00	\$6.00	\$6.00
TOWER FEE	\$3.00			\$3.00	\$3.00	\$3.00
TCEQ FEE 0.005%	\$0.21			\$0.21	\$0.24	\$0.40
<b>TOTAL</b>	<b>\$60.36</b>			<b>\$60.36</b>	<b>\$66.84</b>	<b>\$97.50</b>

	RESIDENTIAL INSTALLATIONS			COMMERCIAL INSTALLATIONS			
<b>STANDARD 5/8" METER</b>	SHORT SERVICE	LONG SERVICE		<b>STANDARD 5/8" METER</b>	SHORT SERVICE	LONG SERVICE	
MEMBERSHIP	100.00	100.00		NOT AVAILABLE			
CONNECTION	750.00	750.00					
CAPITAL RECOVERY	1,250.00	1,250.00					
WATER RIGHTS	2,442.00	2,442.00					
SUB-TOTAL	4,542.00	4,542.00					
ROAD BORE		500.00					
<b>TOTAL</b>	<b>4,542.00</b>	<b>5,042.00</b>					
<b>STANDARD 1" METER</b>	SHORT SERVICE	LONG SERVICE		<b>STANDARD 1" METER</b>	SHORT SERVICE	LONG SERVICE	
MEMBERSHIP	100.00	100.00		MEMBERSHIP	100.00	100.00	
CONNECTION	950.00	950.00		CONNECTION	950.00	950.00	
CAPITAL RECOVERY	1,850.00	1,850.00		CAPITAL RECOVERY	1,850.00	1,850.00	
WATER ACQUISITION	2,442.00	2,442.00		WATER ACQUISITION **BASED ON EDU	2,442.00	2,442.00	
SUBTOTAL	5,342.00	5,342.00		SUBTOTAL	5,342.00	5,342.00	
ROAD BORE		500.00		ROAD BORE		500.00	
<b>TOTAL</b>	<b>5,342.00</b>	<b>5,842.00</b>		<b>TOTAL</b>	<b>5,342.00</b>	<b>5,842.00</b>	**MAY BE MORE DEPENDING ON EDU'S
<b>STANDARD 1.5" METER</b>	SHORT SERVICE	LONG SERVICE		<b>STANDARD 1.5" METER</b>	SHORT SERVICE	LONG SERVICE	
MEMBERSHIP	100.00	100.00		MEMBERSHIP	100.00	100.00	
CONNECTION	1,450.00	1,450.00		CONNECTION	1,450.00	1,450.00	
CAPITAL RECOVERY	2,650.00	2,650.00		CAPITAL RECOVERY	2,650.00	2,650.00	
WATER ACQUISITION	2,442.00	2,442.00		WATER ACQUISITION **BASED ON EDU	2,442.00	2,442.00	
SUB TOTAL	6,642.00	6,642.00		SUB TOTAL	6,642.00	6,642.00	
ROAD BORE		500.00		ROAD BORE		500.00	
<b>TOTAL</b>	<b>6,642.00</b>	<b>7,142.00</b>		<b>TOTAL</b>	<b>6,642.00</b>	<b>7,142.00</b>	**MAY BE MORE DEPENDING ON EDU'S
<b>STANDARD 2" METER</b>	SHORT SERVICE	LONG SERVICE		<b>STANDARD 2" METER</b>	SHORT SERVICE	LONG SERVICE	
MEMBERSHIP	100.00	100.00		MEMBERSHIP	100.00	100.00	
CONNECTION	2,300.00	2,300.00		CONNECTION	2,300.00	2,300.00	
CAPITAL RECOVERY	4,000.00	4,000.00		CAPITAL RECOVERY	4,000.00	4,000.00	
WATER ACQUISITION	2,442.00	2,442.00		WATER ACQUISITION **BASED ON EDU	2,442.00	2,442.00	
SUB TOTAL	8,842.00	8,842.00		SUB TOTAL	8,842.00	8,842.00	
ROAD BORE		500.00		ROAD BORE		500.00	
<b>TOTAL</b>	<b>8,842.00</b>	<b>9,342.00</b>		<b>TOTAL</b>	<b>8,842.00</b>	<b>9,342.00</b>	**MAY BE MORE DEPENDING ON EDU'S