

# 2014 ANNUAL DRINKING WATER QUALITY REPORT (Consumer Confidence Report)

January 1, 2014-----December 31, 2014

## ARMSTRONG WATER SUPPLY CORPORATION

Phone Number: 254-657-2429

**PWS ID NUMBER 0140019**

### OUR DRINKING WATER IS REGULATED

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 you become more knowledgeable about what's in your drinking water.

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### PUBLIC PARTICIPATION OPPORTUNITIES

**DATE: 1<sup>st</sup> Tuesday of each month**  
**TIME: 6:00 pm**  
**LOCATION: 100 East Travis St.-Holland, Texas**  
**PHONE NUMBER: 254-657-2429**

To learn about future public meetings (concerning our drinking water), or to request to schedule one please call us.

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### 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.

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.

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.

#### **SPECIAL NOTICE**

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; those 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 provider. Additional guidelines on appropriate means to lessen the risk of infection by *Cryptosporidium* are available from the Safe Drinking Water Hotline at (800)426-4791.

#### **Required 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>.

#### **En Espanol**

Este informe incluye informacion importante sobre el agua para tomar. Para asistencia en espanol, favor de llamar al telefono (254)657-2429.

### 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>

For more information on source water assessments and protection efforts at our system, contact Billy James Smith @ 254-657-2429.

#### Source Water Name

SW from Central Texas WSC CC from TX0140161 CTWSC  
FM1123/Standpipe Plant

#### Type of Water

Surface Water Stillhouse Hollow Lake  
Ground Water 12901 FM 1123 Well

#### Location

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### ALL drinking water may contain contaminants

When drinking water meets federal standards, there may not be any health benefits to purchasing bottled water or point of using devices. Drinking water, including bottled water, may reasonable be expected to contain at least small amounts of some contaminates. 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.

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### 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 are not causes for health concern. Therefore, secondaries are not required to be reported in this document but they may greatly affect the appearance and taste of your water.

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### Water Quality Test Results

Definitions	The following tables contain scientific terms and measures, some of which may require an explanation.
Avg:	Regulatory compliance with some MCLs are based on running annual average of monthly samples.
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. MCLG's allow for a margin of safety.
Maximum Contaminant Level or MCL:	The highest level of a contaminant that is allowed in drinking water. MCL's are set as close to the MCLG's as feasible using the best available treatment technology.
Maximum residual disinfectant level goal of MRDLG:	The level of a drinking water disinfectant below which there is no known or expected risk to health. MRDLs's do not reflect the benefits of the use of disinfectants to control microbial contaminants.
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.
MFL	million fibers per liter (a measure of asbestos)
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
ppt	Parts per trillion, or nanograms per liter (ng/L)
ppq	parts per quadrillion, or picograms per liter (pg/L)

**Inorganic Contaminants**

Collection Date	Contaminant	Highest Level Detected	Range of Levels Detected	MCLG	MCL	Units	Violation	Likely Source of Contamination
2014	Fluoride	0.22	0.22 - 0.24	4	4.0	ppm	N	Erosion of natural deposits; water additive which promotes strong teeth; discharge from fertilizer and aluminum factories.
2014	Nitrate	0.16	0.09-0.16	10	10	ppm	N	Runoff from fertilizer use; leaching from septic tanks, sewage; erosion of natural deposits.
2014	Barium	0.044	0.0399-0.044	2	2	ppm	N	Discharge of drilling wastes; Discharge from metal refineries; Erosion of natural deposits.
2014	Selenium	<0.0030	0-0030-0-0030	50	50	ppb	N	Discharge from petroleum and metal refineries; Erosion of natural deposits; Discharge from mines.
2014	Cyanide	110	60-110	200	200	ppb	N	Discharge from plastic and fertilizer factories.

**Volatile Organic Contaminants**

Collection Date	Contaminant	Highest Level Detected	Range of Levels Detected	MCLG	MCL	Units	Violation	Likely Source of Contamination
2014	Xylenes	<0.0007	0-0.0007	10	10	ppm	N	Discharge from petroleum and chemical factories.

**Maximum Residual Disinfectant Level**

Year	Disinfectant	Average Level	Minimum Level	Maximum Level	MRDL	MRDLG	Unit of Measure	Source of Disinfectant
2014	Chloramine and Chlorine dioxide	2.02	0.50	3.73	4	4	ppm	Disinfectant used to control microbes.

**Disinfection Byproducts**

Year	Disinfectants and Disinfectant By-Products	Highest Level Detected	Range of Levels Detected	MCLG	MCL	Units	Violation	Likely Source of Contamination
2014	Haloacetic Acids (HAA5)	26.5	11.6-26.5	No goal for the total	60	ppb	N	Byproduct of drinking water chlorination
2014	Trihalomethanes (TThm)	84.0	17.8-84.0	No goal for the total	80	ppb	Y	Byproduct of drinking water chlorination

**Unregulated Contaminants**

Unregulated contaminants are those for which the EPA has not established drinking water standards. The purpose of unregulated contaminant monitoring is to assist EPA in determining the occurrence of unregulated contaminants in drinking water and whether future regulations are warranted.

Year or Range	Contaminant	Average Level	Minimum Level	Maximum Level	Unit of Measure	Source of Contaminant
2014	Chloroform	4.12	2.71	36.1	ppb	Byproduct of drinking water disinfection.
2014	Bromoform	18.12	8.60	30.4	ppb	Byproduct of drinking water disinfection.
2014	Bromodichloromethane	13.04	5.59	49.5	ppb	Byproduct of drinking water disinfection.
2014	Dibromochloromethane	28.48	9.65	42.9	ppb	Byproduct of drinking water disinfection.

**Regulated Contaminants Detected**

Maximum Contaminant 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 of Contamination
0	1 positive monthly sample	1		0	N	Naturally present in the environment

**Regulated Contaminants**

Disinfectants & Disinfection By-Products	Collection Date	Highest levels Detected	Range of levels Detected	MCLG	MCL	Units	Violation	Likely Source of Contamination
Chlorite	2014	0.63	0-0.693	0.8	1	ppm	N	By-product of water disinfection

\*\*\*Nitrate advisory-Nitrate in drinking water at levels above 10 ppm is a health risk for infants of less than six months of age. High nitrate levels in drinking water can cause blue baby syndrome. Nitrate levels may rise quickly for short periods of time because of rainfall or agricultural activity. If you are caring for an infant you should ask advice from your health care provider.

**Turbidity**

**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.**

	Limit (Treatment Technique)	Level Detected	Source of Contaminant	Violation
Highest single measurement	1 NTU	0.8 NTU	Soil runoff	N
Lowest monthly % meeting limit	0.3 NTU	96.85%	Soil runoff	N

**Fecal Coliform** REPORTED MONTHLY TESTS FOUND NO FECAL COLIFORM BACTERIA.

**Violations Table**

<b>Total Trihalomethanes (TTHM)</b>			
<b>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 systems, and may have an increased risk of getting cancer</b>			
Violation Type	Violation Begin	Violation End	Violation Explanation
MCL, LRAA	10-01-2014	12-31-14	Water samples showed that the amount of this contaminant in our drinking water was above its standard (called a maximum contaminant level and abbreviated MCL) for the period indicated..

**Regulated Contaminants Detected**

Lead and Copper

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	2014	1.3	1.3	0.19	0	ppm	N	Erosion of natural deposits; leaching from wood preservatives; Corrosion of household plumbing systems
Lead	2014	0	15	3.3	0	ppb	N	Corrosion of household plumbing systems; Erosion of natural deposits.

In the water loss audit submitted to the Texas Water Development Board for the time period of Jan-Dec, 2014, our system lost an estimated 14,102,440 gallons of water. If you have any questions about the water loss audit please call 254-657-2429.