

2018 Annual Drinking Water Quality Report

Consumer Confidence Report (CCR)

PWS ID Number: TX0030102

**PWS Name: ANGELINA COUNTY FWSD
No. 1 (ACF)**

- Annual Water Quality Report for the period of January 1 to December 31, 2018
- 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.
- 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 at (800) 426-4791.

For more information regarding this report, contact:

Angelina & Neches River Authority (ANRA)
Chris Key, P.E. - (936) 632-7795

Este reporte incluye información importante sobre el agua para tomar. Para asistencia en español, favor de llamar al telefono (800) 282-5634.

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 on 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.

Information about Source Water Assessments

TCEQ completed a Source Water Assessment for all drinking water systems that own their sources. This report 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 system from which we purchase our water received the assessment report. For more information on source water assessments and protection efforts at our system, contact Chris Key, P.E. at (936) 632-7795.

For more information about your sources of water, please refer to the Source Water Assessment Viewer available at the following URL:

<http://www.tceq.texas.gov/gis/swaview>

Further details about sources and source-water assessments are available in Drinking Water Watch at the following URL:

<http://dww2.tceq.texas.gov/DWW/>

Public Participation Opportunities

To learn more about future public meetings concerning your drinking water, please call or contact:

Angelina & Neches River Authority

Contact: Chris Key, P.E.

2901 N. John Redditt Drive

Lufkin, Texas 75904

Phone: (936) 632-7795

Next Regularly Scheduled Board Meeting:

Date: To be determined

Time: 5:30 PM

Place: Angelina County FWSD No. 1 Office

3098 FM 2251

Lufkin, Texas 75904

ANRA and ACF also welcome public comments in writing mailed/emailed to:

Angelina County FWSD No. 1

2901 N. John Redditt Drive

Lufkin, Texas 75904

Email: info@acfwater.org

The following tables contain scientific terms and measures, some of which may require explanation. Please find below definitions and abbreviations to aid in understanding the results provided.

<u>Avg:</u>	Regulatory compliance with some MCLs are based on running annual average of monthly samples.		
<u>Maximum Contaminant Level or MCL:</u>	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.		
<u>Maximum Contaminant Level Goal or MCLG:</u>	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.		
<u>Maximum Residual Disinfectant Level or MRDL:</u>	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.		
<u>Maximum Residual Disinfectant Level Goal or MRDLG:</u>	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.		
<u>Action Level Goal or ALG:</u>	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.		
<u>Action Level:</u>	The concentration of a contaminant which, if exceeded, triggers treatment or other requirements which a water system must follow.		
<u>Level 1 Assessment:</u>	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.		
<u>Level 2 Assessment:</u>	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.		
<u>MFL:</u>	Million Fibers per Liter (a measure of asbestos).	<u>ppb:</u>	Micrograms per Liter or Parts per Billion—or one ounce in 7,350,000 gallons of water.
<u>na:</u>	Not applicable.	<u>ppm:</u>	Milligrams per Liter or Parts per Million—or one ounce in 7,350 gallons of water.
<u>mrem:</u>	Millirems per year (a measure of radiation absorbed by the body).	<u>ppt:</u>	Parts per Trillion, or Nanograms per Liter (ng/L).
<u>NTU:</u>	Nephelometric Turbidity Units (a measure of turbidity).	<u>ppq:</u>	Parts per Quadrillion, or Picograms per Liter (pg/L).
<u>pCi/L:</u>	Picocuries per Liter (a measure of radioactivity).	<u>Treatment Technique or TT:</u>	A required process intended to reduce the level of a contaminant in drinking water.

2018 Water Quality Test Results—ACF

Disinfectant Residual

<u>Disinfectant Residual</u>	<u>Year</u>	<u>Average Level</u>	<u>Range of Levels Detected</u>	<u>MRDL</u>	<u>MRDLG</u>	<u>Unit of Measure</u>	<u>Violation (Y/N)</u>	<u>Source in Drinking Water</u>
Chlorine	2018	2.42	0.73—4.00	4.0 mg/L	4.0 mg/L	ppm	N	Disinfectant used to control microbes introduced at the City of Lufkin water treatment plant.

Lead and Copper

<u>Lead and Copper</u>	<u>Date Sampled</u>	<u>MCLG</u>	<u>Action Level (AL)</u>	<u>90th Percentile</u>	<u># Sites Over AL</u>	<u>Units</u>	<u>Violation</u>	<u>Likely Source of Contamination</u>
Copper	9/13/2018	1.3	1.3	0.44	0	ppm	N	Erosion of natural deposits; Leaching from wood preservatives; Corrosion of household plumbing systems.
Lead	9/13/2018	0	15	Level Lower than Detect Level	0	ppb	N	Corrosion of household plumbing systems; Erosion of natural deposits.

Regulated Contaminants

<u>Inorganic Contaminants</u>	<u>Collection Date</u>	<u>Highest Level or Average Detected</u>	<u>Range of Individual Samples</u>	<u>MCLG</u>	<u>MCL</u>	<u>Units</u>	<u>Violation</u>	<u>Likely Source of Contamination</u>
Nitrate (measured as Nitrogen)	8/30/2018	0.0319	0.0319—0.0319	10	10	ppm	N	Runoff from fertilizer use; Leaching from septic tanks, sewage; Erosion of natural deposits.

2018 Water Quality Test Results—ACF

<u>Inorganic Contaminants</u>	<u>Collection Date</u>	<u>Highest Level or Average Detected</u>	<u>Range of Individual Samples</u>	<u>MCLG</u>	<u>MCL</u>	<u>Units</u>	<u>Violation</u>	<u>Likely Source of Contamination</u>
Asbestos	8/30/2018	Level Lower than Detect Level	0—0	7	7	MFL	N	Decay of asbestos cement water mains; Erosion of natural deposits.

<u>Disinfection By-Products</u>	<u>Collection Date</u>	<u>Highest Level Detected</u>	<u>Range of Individual Samples</u>	<u>MCLG</u>	<u>MCL</u>	<u>Units</u>	<u>Violation</u>	<u>Likely Source of Contamination</u>
Haloacetic Acids (HAA5)*	8/30/2018	23	21.8—22.5	No Goal for the Total	60	ppb	N	By-product of drinking water disinfection.
Total Trihalomethanes (TTHM)**	8/30/2018	60	55.6—60	No Goal for the Total	80	ppb	N	By-product of drinking water disinfection.

* The value in the Highest Level or Average Detected column is the highest average of all HAA5 sample results collected at a location over a year.

** The value in the Highest Level or Average Detected column is the highest average of all TTHM sample results collected at a location over a year.

2018 Water Quality Test Results—City of Lufkin

Regulated Contaminants

<u>Inorganic Contaminants</u>	<u>Collection Date</u>	<u>Highest Level or Average Detected</u>	<u>Range of Individual Samples</u>	<u>MCLG</u>	<u>MCL</u>	<u>Units</u>	<u>Violation</u>	<u>Likely Source of Contamination</u>
Antimony	11/15/2018	Level Lower than Detect Level	0—0	6	6	ppb	N	Discharge from petroleum refineries; fire retardants; ceramics; electronics; solder.
Arsenic	11/15/2018	Level Lower than Detect Level	0—0	na	10	ppb	N	Erosion of natural deposits; Runoff from orchards; Runoff from glass and electronics production wastes.
Barium	11/15/2018	0.0035	0.0035—0.0035	2	2	ppm	N	Discharge of drilling wastes; Discharge from metal refineries; Erosion of natural deposits.
Beryllium	11/15/2018	Level Lower than Detect Level	0—0	4	4	ppb	N	Discharge from metal refineries and coal-burning factories; Discharge from electrical, aerospace, and defense industries.
Cadmium	11/15/2018	Level Lower than Detect Level	0—0	5	5	ppb	N	Corrosion of galvanized pipes; Erosion of natural deposits; Discharge from metal refineries; runoff from waste batteries and paints.
Chromium	11/15/2018	Level Lower than Detect Level	0—0	100	100	ppb	N	Discharge from steel and pulp mills; Erosion of natural deposits.
Selenium	11/15/2018	Level Lower than Detect Level	0—0	50	50	ppb	N	Discharge from petroleum and metal refineries; Erosion of natural deposits; Discharge from mines.

2018 Water Quality Test Results—City of Lufkin

<u>Inorganic Contaminants</u>	<u>Collection Date</u>	<u>Highest Level or Average Detected</u>	<u>Range of Individual Samples</u>	<u>MCLG</u>	<u>MCL</u>	<u>Units</u>	<u>Violation</u>	<u>Likely Source of Contamination</u>
Thallium	11/15/2018	Level Lower than Detect Level	0—0	0.5	2	ppb	N	Leaching from ore-processing sites; Discharge from electronics, glass, and drug factories.
Mercury	11/15/2018	Level Lower than Detect Level	0—0	2	2	ppb	N	Erosion of natural deposits; Discharge from refineries and factories; Runoff from landfills; Runoff from cropland.

Regulated Contaminants Detected Coliform Bacteria

<u>Maximum Contaminant Level</u>	<u>Total Coliform Maximum Contaminant Level</u>	<u>Highest No. of Positive</u>	<u>Fecal Coliform or E.Coli Maximum Contaminant Level</u>	<u>Total No. of Positive E.Coli or Fecal Coliform Samples</u>	<u>Violation</u>	<u>Likely Source of Contamination</u>
0	5% of monthly samples are positive.	1.9		0	N	Naturally present in the environment.