TOWN OF LAKESIDE

CONSUMER CONFIDENCE REPORT 2016

This is the Annual Drinking Water Report for the period of January 1 thru December 31, 2016.

This report is intended to provide you with important information about your drinking water and the efforts made by the Town of Lakeside to provide safe drinking water to all our customers. To request a paper copy of the report at no cost, please call Town Hall at 817 237-1234. You can also, view a copy online by entering http://lakesidetexas.us/wp-content/uploads/2015/05/2016-Consumer-Confidence-Report.pdf or clicking on this link.

The operator of the Town of Lakeside Water System PWS ID# TX2200028 is Public Works Superintendent Craig Bennett. Mr. Bennett can be reached at 817 237-1234 for questions concerning the CCR report or to ask water questions about the Town of Lakeside water quality and disinfectant procedures.

Decisions that affect the quality of the water are made by the Town of Lakeside City Council. The City Council meets on the second Thursday of each month to conduct Town business. Public Participation is available at these meetings.

Annual Drinking Water Quality Report

TX2200028 TOWN OF LAKESIDE

Annual Water Quality Report for the period of January 1 to December 31, 2016

For more information regarding this report contact:

Name James McDonald

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.

Phone (817)237-1234

Town of Lakeside is Groundwater

Este reporte incluye información importante sobre el agua para tomar. Para asistencia en español, favor de llamar al telefono (817)237-1234.

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.

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 - 9216 WATERCRESS DR	9216 WATERCRESS	GW	A	PALUXY
11 - 300' W OF 10	9224 WATERCRESS	GW	A	PALUXY
12T - BETWEEN WELLS 6, 7	9824 CONFEDERATE	GW	A	TRINITY
13 - 9216 WATERCRESS DR	9216 WATERCRESS	GW	A	TRINITY
14 - 9216 WATERCRESS DR	9216 WATERCRESS	GW	A	TRINITY
15T - 304 AQUILA ST	304 AQUILA ST	GW	A	PALUXY
16 - MARY JANE LN	MARY JANE LN	GW	A	TRINITY
2 - 9216 WATERCRESS DR	9216 WATERCRESS	GW	A	TWIN MT
3 - 9216 WATERCRESS DR	9216 WATERCRESS	GW	A	PALUXY

4 - 9224 WATERCRESS DR	9224 WATERCRESS	GW	A	PALUXY
5 - 9224 WATERCRESS DR	9224 WATERCRESS	GW	A	PALUXY
6 - 9820 CONFEDERATE PARK	9820 CONFEDERATE	GW	A	PALUXY
7 - 9824 CONFEDERATE PARK	9824 CONFEDERATE	GW	A	PALUXY
8 - 9830 CONFEDERATE PARK	9830 CONFEDERATE PARK	GW	A	PALUXY
9 - 304 AQUILLA ST	304 AQUILLA ST	GW	A	PALUXY

The TCEQ completed an assessment of your source water and results indicate that some of your sources are susceptible to certain contaminants. The sampling requirements for your water system are based on this susceptibility and previous sample data. Any detection 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 James McDonald.

2016 Regulated Contaminants Detected

Coliform Bacteria

Maximum Contaminant Level 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.

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	0.2377	0	ppm	N	Erosion of natural deposits; Leaching from wood preservatives; Corrosion of household plumbing systems.
Lead	2016	0	15	3.5	0	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.

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.

Water Quality Test Results

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-	Collection Date	Highest Level Detected	Range of Levels	MCLG	MCL	Units	Violation	Likely Source of Contamination
Haloacetic Acids (HAA5)	2016	9	8.5 - 8.5	No goal for the total	60	ppb	N	By-product of drinking water disinfection.
Total Trihalomethanes (TTHM)	2016	19	18.8 - 18.8	No goal for the total	80	ppb	N	By-product of drinking water disinfection.
Inorganic Contaminants	Collection Date	Highest Level Detected	Range of Levels	MCLG	MCL	Units	Violation	Likely Source of Contamination
Barium	07/20/2015	0.12	0.11 - 0.12	2	2	ppm	N	Discharge of drilling wastes; Discharge from metal refineries; Erosion of natural deposits.
Cyanide	02/19/2014	5.58	0 - 5.58	200	200	ppb	N	Discharge from plastic and fertilizer factories; Discharge from steel/metal factories.
Fluoride	07/20/2015	0.382	0.371 - 0.382	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	1	0.284 - 1.06	10	10	ppm	N	Runoff from fertilizer use; Leaching from septic tanks, sewage; Erosion of natural deposits.
Selenium	07/20/2015	1.1	0 - 1.1	50	50	ppb	N	Discharge from petroleum and metal refineries; Erosion of natural deposits; Discharge from mines.
Radioactive Contaminants	Collection Date	Highest Level Detected	Range of Levels	MCLG	MCL	Units	Violation	Likely Source of Contamination
Combined Radium 226/228	07/20/2015	1.09	1.09 - 1.09	0	5	pCi/L	N	Erosion of natural deposits.
Gross alpha excluding radon and	07/20/2015	9.2	7 - 9.2	0	15	pCi/L	N	Erosion of natural deposits.
Uranium	07/20/2015	4	4 - 4	0	30	ug/l	N	Erosion of natural deposits.

The Town of Lakeside uses Chlorine (cl2) for disinfection. Please see the residual table below:

Disinfectants and Disinfection By-	Collection Date	Avg level of quarterly data	Lowest result of a single	Highest result of a	Maximum residual	Max residual	Unit of measure	Likely source of contamination
CHLORINE (CL2)	2016	1.46	0.30	3.60	4.0	4.0	Mg/L	Additive to control microbes

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)	12/30/2016	02/07/2017	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.

The Town of Lakeside resolved the above violation. Results of the lead and copper testing were provided to the consumers where the samples were taken.