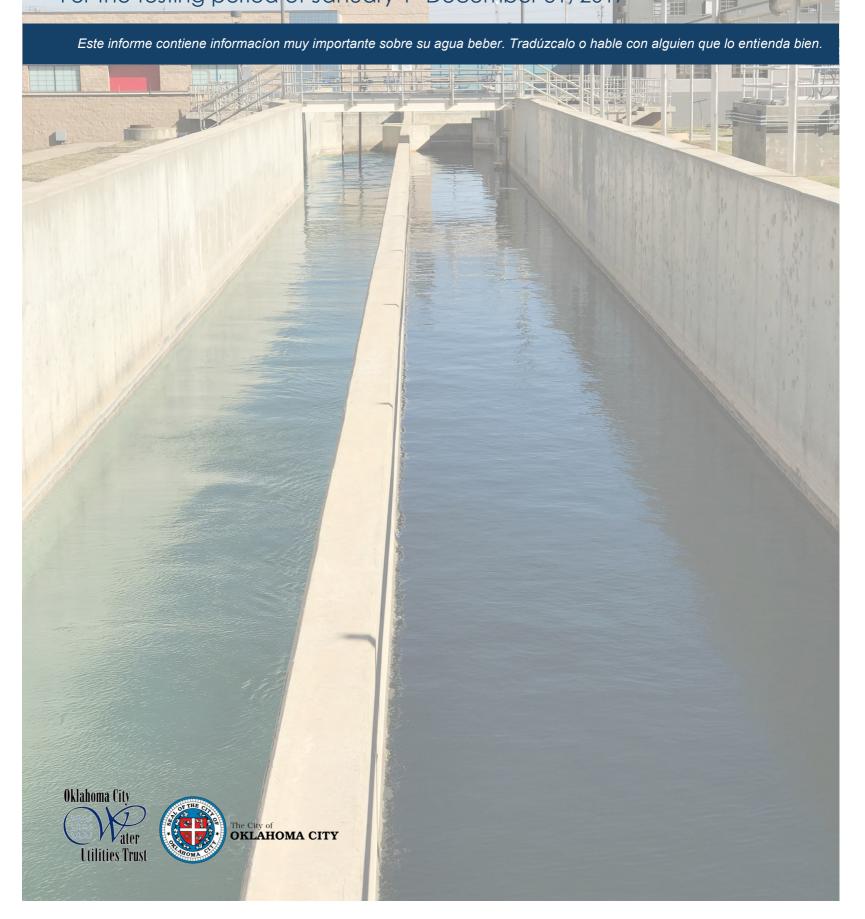
# City of Oklahoma City 2017 Drinking Water Quality Report For the testing period of January 1- December 31, 2017

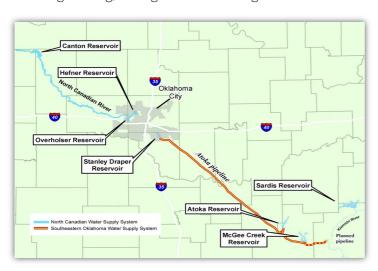


M unicipal tap water is a valuable resource for every community. It contributes to public health, drives business, keeps citizens safe from waterborne illness, and helps us in our daily lives.

The Oklahoma City Utilities Department is committed to providing clean, fresh drinking water to residents and visitors in the communities we serve. More than 1.2 million Oklahomans in 19 different communities receive Oklahoma City drinking water through our retail and wholesale programs. That's nearly one-third of the state population.

# Sourced from the Earth

Alahoma City's water footprint spans 250 miles and includes seven surface water reservoirs from five Oklahoma counties. They include Canton Lake in northwest Oklahoma, McGee Creek, Lake Atoka and Sardis Lake in southeastern Oklahoma, as well as Lake Overholser, Lake Hefner and Lake Stanley Draper in Oklahoma City. These reservoirs feed into our three water treatment plants, which treat the water we distribute to the communities we serve. They also provide recreational opportunities to lake visitors, including boating, fishing and water skiing.



Raw water accumulates in reservoirs from spring and summer rains. As water travels over the ground, it can pick up naturally-occurring minerals found in rocks and soil, pesticides and herbicides used in farming, as well as bacteria from animal or human activity.

To ensure water is safe to drink, the Environmental Protection Agency (EPA) and Oklahoma Department of Environmental Quality (ODEQ) set regulations that limit the amounts of certain contaminants that can be in water provided by public utilities.

Raw water is processed at Oklahoma City's three water treatment plants, the Hefner Water Treatment Plant, the Draper Water Treat Plant and Overholser Treatment Plant. Each plant treats the water in a slightly different way, based upon the raw water make-up and the technology available at each facility.

During treatment, certified water quality experts take lake water through an extensive treatment process to remove harmful bacteria and other contaminants.



They then disinfect it by introducing a small amount of chlorine. Fluoride is also added to help prevent tooth decay. Before water can be distributed to homes and businesses, it must undergo vigorous testing to ensure it meets all Federal and State quality standards.

# Meeting the Test

Water is tested regularly at each of our three treatment plants to ensure it meets both EPA and ODEQ standards. We also test at more than 240 ODEQ-approved sites throughout Oklahoma City. This remote testing helps us monitor the reliability of our water distribution system, which includes more than 3,800 miles of pipeline in Oklahoma City. Testing in remote areas also helps ensure that the quality of water delivered from plant to tap remains consistent along the way. In 2017, our water quality chemists and plant operators tested more than 205,000 individual water samples. Results are reported monthly to the ODEQ, and serve as independent quality control.

Test results are also included here, in our annual Consumer Confidence Report (CCR), which is a requirement of the 1974 Safe Drinking Water Act. The Consumer Confidence Report allows the general public to get a better glimpse of what is in their water.

In each case, Oklahoma City water meets or surpasses all regulatory requirements set forth by the EPA. Oklahoma City's CCR is included with this report, and can be found online at <a href="https://www.okc.gov/ccr">www.okc.gov/ccr</a>. To receive the report by mail, call (405) 297-2833.

DETECTED		OI	klahoma C	ity Utilitie	s - Water	<b>Quality Su</b>	mmary 20	)17
CONTAMINANTS	UNITS	IDEAL GOAL (EPA'S MCLG)	HIGHEST LEVEL ALLOWED (EPA'S MCL)	HEFNER WTP PWS ID 1020902	DRAPER WTP PWS ID 1020902B	OVERHOLSER WTP PWS ID 1020902C	COMPLIANCE	MAJOR SOURCES IN DRINKING WATER
Inorganic Compounds								
Fluoride <sup>1</sup>	ppm	4	4	0.65	0.69	0.62	YES	Added during treatment for dental health or dissolved from natural deposits
Lead	ppb	0	AL = 15	August 2	t systemwide distri 2017 - 90th Perce	ntile = <1.0	All Sites < AL YES	Corrosion of household plumbing; erosion of natural deposits
Barium	ppm	2	2	Highest I 0.052	evel, most recent te 0.057	sting - 2013 0.032	YES	Discharge of Drilling Wastes; discharge from metal refineries; erosion of natural deposits
Copper	ppm	0	AL = 1.3		<b>t systemwide distri</b> 017 - 90th Percer		All Sites < AL YES	Corrosion of household plumbing; erosion of natural deposits
Arsenic	ppb	0	10	Highest I	evel, most recent te	sting - 2013 < 2	YES	Erosion of natural deposits; runoff from orchards; runoff from electronics and glass production wastes
Nitrate-Nitrite <sup>2</sup>	ppm	10	10	Highest I 0.299	evel, most recent te 0.115	sting - 2017 0.180	YES	Runoff from fertilizer; leaching from septic tanks, sewage or erosion of natural deposits
Radiological				Books data at all la		0040 H-f 0 D		
Gross Alpha Gross Beta Radium 226 + 228	pCi/L pCi/L pCi/L	0 0 0	15 50 5	Range detected   <2.229   6.784   <0.545	<ul><li>n most recent testin</li><li>&lt;0.4744</li><li>2.611</li><li>&lt;0.495</li></ul>	<3.00 8.78 <1.00	YES	Decay of natural and man-made deposits
Uranium Disinfection By-Product	ppb s Stage 2 I	0 Rule Monitorino	30	< 1.00	<1.00	<1.00		
Total Trihalomethanes <sup>4</sup>	ppb	0	80 (LRAA)	Highest Location 16425 Sterlin Rang Highe	temwide distribution onal Running Annua g Canyon Drive ( pe Detected: 8.01 st quarterly average 70.87 Range detected	al Average (LRAA) Draper) - 70.87 - 76.73 e (LRAA) 68.58	YES	By-product of drinking water disinfection
				8.01 - 28.02 Most recent syst	10.57 - 76.41 temwide distribution			
Haloacetic Acids <sup>4</sup>	ppb	0	60 (LRAA)	Highest Location 12716 I Rang	ponal Running Annua NE 36th St (Drapo le Detected: 2.73 st quarterly average 43.65 Range detected 5.94 - 50.80	al Average (LRAA) er) - 43.65 - 50.80	YES	By-product of drinking water disinfection
Bromate <sup>5</sup>	ppb	0	10 (RAA)		quarterly average (Fige detected - <5.10		YES	By-product of disinfection by ozone Only Hefner Plant uses Ozone
Precursor Removal			(1001)		0.10	0.01		
Total Organic Carbon <sup>6</sup> (TOC)			TT = Ratio must be greater than or		verage of monthly ra	atios		
			equal to 1.00 for compliance	1.85 Monthly Ratio = (%	0.371 TOC removed) divide required)	d by (% TOC removal	YES	Naturally occurring
Disinfection Residual  Chloramines as Chlorine <sup>7</sup>	ppm	NA	equal to 1.00 for		TOC removed) divide	d by (% TOC removal	YES YES	Naturally occurring  Water additive used to control microbes
Disinfection Residual Chloramines as Chlorine <sup>7</sup> Microbiological Coliform Bacteria	ppm  CFUs % positive	NA 0	equal to 1.00 for compliance  MRDL  4.0	Monthly Ratio = (%  3.62 2.50 - 4.80  2017 Sy Month having the hi positiv Seven positive	OC removed) divide required)  Average readings 3.32 1.50 - 3.90  stem-wide distribut	3.28 1.90 - 5.00 ion testing ovember/December (2 0.813 %) in 3070 samples		
Disinfection Residual Chloramines as Chlorine <sup>7</sup> Microbiological Coliform Bacteria Clarity Turbidity <sup>8</sup>	CFUs % positive NTU % > 0.3	0 NA	Presence of Coliform bacteria in <5% of samples  TT = > 0.3 NTU in not more than 5% of samples	Monthly Ratio = (%  3.62 2.50 - 4.80  2017 Sy  Month having the hi positive Seven positive (()  Lowest mot	Average readings 3.32 1.50 - 3.90  stem-wide distribut ghest % positive - N es in 246 samples - I Coliforn results	3.28 1.90 - 5.00 ion testing ovember/December (2 0.813 %) in 3070 samples ice) with < 0.3 NTU 97.2%	YES	Water additive used to control microbes
Disinfection Residual Chloramines as Chlorine <sup>7</sup> Microbiological Coliform Bacteria Clarity	CFUs % positive NTU % > 0.3	0 NA	Presence of Coliform bacteria in <5% of samples  TT = > 0.3 NTU in not more than 5% of samples	Monthly Ratio = (%  3.62 2.50 - 4.80  2017 Sy Month having the hin positive Seven positive ((  Lowest mon 100.0%	Average readings 3.32 1.50 - 3.90  stem-wide distribut ghest % positive - N c Coliform results 0.228 % occurren  thly % of samples 100.0%  Highest single read	d by (% TOC removal  3	YES	Water additive used to control microbes  Naturally present in the environment  Lime and/or calcium carbonate particles from softening efforts; soil runoff
Disinfection Residual Chloramines as Chlorine <sup>7</sup> Microbiological Coliform Bacteria  Clarity Turbidity <sup>8</sup> Long Term 2 Enhanced Cryptosporidium <sup>9</sup>	CFUs % positive  NTU % > 0.3  Surface W  cysts/L	0 NA ater Treatment	Presence of Coliform bacteria in <5% of samples  TT = > 0.3 NTU in not more than 5% of samples	Monthly Ratio = (%  3.62 2.50 - 4.80  2017 Sy Month having the hit positives (i)  Lowest mot 100.0%	Average readings 3.32 1.50 - 3.90  stem-wide distribut ghest % positive - N c Coliform results 0.228 % occurren  thly % of samples 100.0%  Highest single read	3.28 3.28 1.90 - 5.00 ion testing ovember/December (2 .813 %) in 3070 samples ce) with < 0.3 NTU 97.2% ing 0.51	YES	Water additive used to control microbes  Naturally present in the environment  Lime and/or calcium carbonate particles from softening
Disinfection Residual Chloramines as Chlorine <sup>7</sup> Microbiological  Coliform Bacteria  Clarity  Turbidity <sup>8</sup> Long Term 2 Enhanced	CFUs % positive  NTU % > 0.3  Surface W  cysts/L	0 NA ater Treatment	mRDL 4.0 Range detected  Presence of Coliform bacteria in <5% of samples  TT = > 0.3 NTU in not more than 5% of samples  Rule	Monthly Ratio = (%  3.62 2.50 - 4.80  2017 Sy Month having the hi positiv Seven positive Lowest mod 100.0%  0.29  All source	Average readings 3.32 1.50 - 3.90  stem-wide distribut ghest % positive - N coliforn results 0.228 % occurren  100.0%  Highest single read 0.24  waters tested were	3.28	YES YES YES	Water additive used to control microbes  Naturally present in the environment  Lime and/or calcium carbonate particles from softening efforts; soil runoff
Disinfection Residual Chloramines as Chlorine <sup>7</sup> Microbiological Coliform Bacteria  Clarity Turbidity <sup>8</sup> Long Term 2 Enhanced Cryptosporidium <sup>9</sup>	CFUs % positive  NTU % > 0.3  Surface W  cysts/L	0 NA ater Treatment	mRDL 4.0 Range detected  Presence of Coliform bacteria in <5% of samples  TT = > 0.3 NTU in not more than 5% of samples  Rule	Monthly Ratio = (%  3.62 2.50 - 4.80  2017 Sy Month having the hit positives (i)  Lowest mot 100.0%	Average readings 3.32 1.50 - 3.90  stem-wide distribut ghest % positive - N es in 246 samples - i c Coliform results 0.228 % occurren  nthly % of samples 100.0%  Highest single read 0.24	3.28 3.28 1.90 - 5.00 ion testing ovember/December (2 .813 %) in 3070 samples ce) with < 0.3 NTU 97.2% ing 0.51	YES YES YES	Water additive used to control microbes  Naturally present in the environment  Lime and/or calcium carbonate particles from softening efforts; soil runoff
Disinfection Residual Chloramines as Chlorine <sup>7</sup> Microbiological  Coliform Bacteria  Clarity  Turbidity <sup>8</sup> Long Term 2 Enhanced Cryptosporidium <sup>9</sup> Detected UCMR3 Analyt	CFUs % positive  NTU % > 0.3  Surface W  cysts/L es (2013) <sup>11</sup>	NA ater Treatment	equal to 1.00 for compliance  MRDL 4.0 Range detected  Presence of Coliform bacteria in <5% of samples  TT = > 0.3 NTU in not more than 5% of samples  Rule  NA	Monthly Ratio = (%  3.62 2.50 - 4.80  2017 Sy Month having the him positive Seven positive ((  Lowest moi 100.0%  0.29  All source	Average readings 3.32 1.50 - 3.90  stem-wide distribut ghest % positive - N es in 246 samples - 1 Coliform results 0.228 % occurren htthly % of samples 100.0% Highest single read 0.24  waters tested were	3.28	YES  YES  YES	Water additive used to control microbes  Naturally present in the environment  Lime and/or calcium carbonate particles from softening efforts; soil runoff  Storm runoff, agricultural runoff and leaking sewage systems  By-product of drinking water disinfection, making of dyes, explosives, matches, printing fabrics, herbicides,
Disinfection Residual Chloramines as Chlorine <sup>7</sup> Microbiological Coliform Bacteria  Clarity Turbidity <sup>8</sup> Long Term 2 Enhanced Cryptosporidium <sup>9</sup> Detected UCMR3 Analyt	CFUs % positive  NTU % > 0.3  Surface W  cysts/L  ppb	NA ater Treatment 0	equal to 1.00 for compliance  MRDL  4.0  Range detected  Presence of Coliform bacteria in <5% of samples  TT = > 0.3 NTU in not more than 5% of samples  Rule  NA	Monthly Ratio = (%  3.62 2.50 - 4.80  2017 Sy Month having the hit positive Seven positive (((  Lowest month of the hit positive) 100.0% 0.29  All source  Average 36.4	Average readings 3.32 1.50 - 3.90  stem-wide distribut ghest % positive - N so in 246 samples - Coliform results 0.228 % occurren  nthly % of samples 100.0% Highest single read 0.24  waters tested were  Range  <20.0 - 36.4	3.28	YES  YES  YES  NA	Water additive used to control microbes  Naturally present in the environment  Lime and/or calcium carbonate particles from softening efforts; soil runoff  Storm runoff, agricultural runoff and leaking sewage systems  By-product of drinking water disinfection, making of dyes, explosives, matches, printing fabrics, herbicides, antiseptics, toothpastes and in paper pulp processing.  Naturally occurring. By-product of making steel and other alloys, plating, dyes and pigments, leather and wood
Disinfection Residual Chloramines as Chlorine <sup>7</sup> Microbiological  Coliform Bacteria  Clarity  Turbidity <sup>8</sup> Long Term 2 Enhanced Cryptosporidium <sup>9</sup> Detected UCMR3 Analyt  Chlorate  Hexavalent Chromium	CFUs % positive  NTU % > 0.3  Surface W cysts/L  ppb  ppb	NA  ater Treatment  0  NA  NA  100 (0.100	equal to 1.00 for compliance  MRDL 4.0 Range detected  Presence of Coliform bacteria in <5% of samples  TT = > 0.3 NTU in not more than 5% of samples  Rule  NA  NA  NA  NA  NA  NO  NO  NO  NO  NO	Monthly Ratio = (%  3.62 2.50 - 4.80  2017 Sy Month having the hi positive Seven positive ((i)  Lowest mon 100.0%  0.29  All source  Average 36.4  0.141	Average readings 3.32 1.50 - 3.90  stem-wide distribut ghest % positive - N es in 246 samples - I c Coliform results 1.28 % occurren  hthly % of samples 100.0%  Highest single read 0.24  waters tested were  Range  <20.0 - 36.4  <0.030 - 0.391	3.28	YES  YES  YES  NA  NA	Water additive used to control microbes  Naturally present in the environment  Lime and/or calcium carbonate particles from softening efforts; soil runoff  Storm runoff, agricultural runoff and leaking sewage systems  By-product of drinking water disinfection, making of dyes, explosives, matches, printing fabrics, herbicides, antiseptics, toothpastes and in paper pulp processing.  Naturally occurring. By-product of making steel and other alloys, plating, dyes and pigments, leather and wood preservation.  Naturally occurring. By-product of making steel and other alloys, plating, dyes and pigments, leather and wood
Disinfection Residual Chloramines as Chlorine <sup>7</sup> Microbiological Coliform Bacteria  Clarity Turbidity <sup>8</sup> Long Term 2 Enhanced Cryptosporidium <sup>9</sup> Detected UCMR3 Analyt Chlorate  Hexavalent Chromium Total Chromium	CFUs % positive  NTU % > 0.3  Surface W  cysts/L  ppb  ppb  ppb	NA  NA  NA  100 (0.100 mg/L)	equal to 1.00 for compliance  MRDL 4.0 Range detected  Presence of Coliform bacteria in <5% of samples  TT = > 0.3 NTU in not more than 5% of samples  Rule  NA  NA  NA  NA  100 (0.100 mg/L)	3.62 2.50 - 4.80  2017 Sy Month having the hi positiv Seven positive Lowest mod 100.0%  0.29  All source  Average 36.4  0.141  0.428	Average readings 3.32 1.50 - 3.90  stem-wide distribut ghest % positive - N sc in 246 samples - I Coliform results 0.228 % occurren  nthly % of samples 100.0%  Highest single read 0.24  waters tested were  Range  <20.0 - 36.4  <0.030 - 0.391	3.28	YES YES YES NA NA YES	Water additive used to control microbes  Naturally present in the environment  Lime and/or calcium carbonate particles from softening efforts; soil runoff  Storm runoff, agricultural runoff and leaking sewage systems  By-product of drinking water disinfection, making of dyes, explosives, matches, printing fabrics, herbicides, antiseptics, toothpastes and in paper pulp processing.  Naturally occurring. By-product of making steel and other alloys, plating, dyes and pigments, leather and wood preservation.  Naturally occurring. By-product of making steel and other alloys, plating, dyes and pigments, leather and wood preservation.

# Definitions & Abbreviations Used in the Water Quality Summary

**EPA** – US Environmental Protection Agency

**MCL** – Maximum Contaminant Level is the highest level of a contaminant allowed in drinking water. MCLs are set as close to the MCLGs as feasible using the best available treatment technology.

MCLG – Maximum Contaminant Level Goal is the level of a contaminant in drinking water below which there is no known or expected risk to health. MCLGs allow a margin of safety.

MRDL – Maximum Residual Disinfectant Level is the highest level of a disinfectant allowed in drinking water based on an annual average and does not apply to individual samples. There is convincing evidence that addition of a disinfectant is necessary to control microbial contaminants. Compliance with the MRDL is calculated as a Running Annual Average (RAA).

**MRDLG** – Maximum Residual Disinfectant Level Goal is 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 contamination.

**RAA** – Running Annual Average is the average of the last 12 months or last 4 quarters that the facility is in operation. Disinfectants and disinfectant by-products monitored in this way are Total Trihalomethanes, Haloacetic Acids, Bromate and Chloramines.

LRAA – Locational Running Annual Average is the average of the last 12 months or last 4 quarters for each identified monitoring location in the distribution system. This differs from past requirements, which determined compliance by calculating the RAA of samples from all monitoring locations across the distribution system. Total Trihalomethanes and Haloacetic Acids are monitored in this way.

AL - Action Level

 $\Pi$  – Treatment Technique - a required process intended to reduce the level of a contaminant in drinking water.

NTU - Nephelometric Turbidity Units (a measure of clarity)

pCi/L - picocuries per liter (a measure of radioactivity)

ppm – parts per million or milligrams per liter (mg/L)

ppb – part per billion or micrograms per liter (µg/L)

**CFU** - Colony Forming Units

< - less than > - greater than

### **Drinking Water Sources**

The sources of drinking water nationwide include rivers, lakes, streams, ponds, reservoirs, springs and wells. As water travels over the surface of land or through the ground, it dissolves naturally occurring minerals and can pick up substances resulting from the presence of animals or human activity. Drinking water (including bottled water) may reasonably be expected to contain at least small amounts of some substances. The presence of dissolved minerals does not necessarily indicate that water poses a health risk. The City of Oklahoma City treats and filters all water from reservoirs to remove any possible harmful contaminants according to State and Federal standards.

Contaminants that may be present in raw — or untreated — water include microbes (viruses and bacteria), inorganics (salts and metals), pesticides and herbicides (from various sources, including agriculture, storm water runoff and residential uses), and radioactive materials that are naturally occurring.

The Environmental Protection Agency limits the amount of contaminants in water provided by public systems to ensure tap water is safe to drink. The Food and Drug Administration regulations limit contaminants in bottled water in order to provide the same public health protection.

Some contaminants may cause color, taste or odor problems in water but are not necessarily causes for health concerns. More information about contaminants and potential health effects can be obtained by calling the EPA's Safe Drinking Water Hotline at 800-426-4791 or at www.epa.gov/safewater.

#### **People with Health Concerns**

Some people may be more vulnerable to contaminants in drinking water than the general population. Immuno-compromised persons, such as persons with cancer undergoing chemotherapy, persons who have undergone organ transplants, people with HIV/AIDS or other immune system disorders, some elderly, and infants can be particularly at risk of infections. These people should seek advice about drinking water from their healthcare providers. The EPA and Centers for Disease Control guidelines on appropriate ways to lessen the risk of infection by Cryptosporidium (an intestinal parasite that can be fatal in some immune-compromised persons) and other microbial contaminants are available from the Safe Drinking Water Hotline at 1-800-426-4791.

#### **Footnotes**

Monitoring Frequency Note: The state has set forth enforceable regulations on how often contaminants must be monitored and tested. Some of our data, though representative, is more than one year old. ODEQ monitors and tests the following Inorganic Compounds and Radiological Compounds for Oklahoma City Utilities: Barium, Arsenic, Gross Alpha, Gross Beta, Radium 226 + 228 and Uranium.

#### Required Sampling Frequency:

Every 9 years - Fluoride, Barium and Arsenic Every 6 years – Radionuclides Every 3 years - Lead and Copper

**1. Fluoride:** Monitored every 12 hours at each WTP. The highest single reading for 2017 at each plant was below the MCL and considered a safe level

Draper – Highest single reading = 0.85 ppm. Ave. fluoride concentration for 2017 = 0.69 ppm

 $\it Overholser$  – Highest single reading = 0.89 ppm. Ave. fluoride concentration for 2017 = 0.62 ppm

**Hefner** – Highest single reading = 0.95 ppm. Average fluoride concentration for 2017 = 0.65 ppm

- 2. Nitrate-Nitrite: Measured as the sum of Nitrate-N and Nitrite-N.
- **3. Disinfection By-Products Stage 2 Rule Monitoring:** U.S. water utilities are required to continuously improve the quality of water delivered to customers. The Federal Environmental Protection Agency and the Oklahoma Department of Environmental Quality enforce drinking water laws and develop long-range improvement activities. In 2009, Oklahoma City collected information on how THMs and HAAs change in the water system and is working with EPA and DEQ to decrease the numbers.
- **4. Total Trihalomethanes and Haloacetic Acids:** The MCL is based on the RAA; therefore, the MCL does not apply to individual samples that are allowed to be higher than the MCL.
- **5. Bromate:** The MCL is based on the RAA; therefore, the MCL does not apply to individual samples that are allowed to be higher than the MCL. Some people who drink water containing bromate in excess of the MCL over many years may have an increased risk of getting cancer.
- **6. Total Organic Carbon:** Total organic carbon (TOC) has no health effects. However, total organic carbon provides a medium for the formation of disinfection by-products. These by-products include Trihalomethanes (THMs) and Haloacetic Acids (HAAs). Drinking water containing these by-products in excess of the MCL (Maximum Contaminant Level) may lead to adverse health effects. TOC compliance is based on the percent TOC removed, not the total amount present. The starting TOC at the Draper Treatment facility is low; therefore, the potential for formation of THMs and HAAs due to TOC is low. The THM and HAA values for the Draper Treatment facility are below the LRAA MCL, which is currently considered a safe level for these disinfection by-products. Draper Treatment facility uses an alternative method (SUVA analysis) for meeting TOC removal criteria.
- **7. Chlorine:** Compliance with the 4.0 mg/L MRDL is based upon an annual average; therefore, the MRDL does not apply to individual samples that are allowed to be higher than the MRDL.
- **8. Turbidity:** Turbidity is a measure of the cloudiness or clarity of the water. We monitor it because it is a good indicator of the effectiveness of our filtration system.
- 9. Cryptosporidium: Cryptosporidium is a microbial pathogen found in surface water throughout the United States. All source water samples collected for the City of Oklahoma City during 2017 were non-detect for this pathogen. Cryptosporidium is part of the Long Term 2 Enhanced Surface Water Treatment Rule and testing was required for a consecutive 24 months. Our testing was completed in December of 2017. Source water averages are <0.075 cysts/L, which are considered low risk category.

  10. UCMR3: EPA uses the Unregulated Contaminant Monitoring (UCM) program to collect data for contaminants suspected to be present in drinking water, but that do not have health-based standards set under the
- program to collect data for contaminants suspected to be present in drinking water, but that do not have health-based standards set under the Safe Drinking Water Act (SDWA). Every five years EPA reviews the list of contaminants, largely based on the Contaminant Candidate List. The SDWA Amendments of 1996 provide for:
- Monitoring no more than 30 contaminants every five years
- Monitoring only a representative sample of public water systems serving less than 10,000 people
- Storing analytical results in a National Contaminant Occurrence Database (NCOD).

UCMR3 is the third round of monitoring under the UCM Rule.

# City of Oklahoma City **2017 Drinking Water Quality Report** For the testing period between January 1-December 31, 2017

# **HOW TO READ YOUR WATER QUALITY REPORT**

The year(s) tests were conducted.

Below this level a contaminant has no known or expected health risks.

Highest amount of a contaminant EPA allows in drinking water.

How a contaminant ends up in Oklahoma City's drinking water.

Year Sampled	Contaminant	Highest Average	Range of Levels	MCLG	MCL	Units	Violation	Possible Source(s) of Contaminant
2016	Substance 1	0.05	0.02-0.11	2	4	ppm	Z	Discharge of drilling wastes or metal refineries; erosion of natural deposits.
2016	Substance 2	2.4	0-3.4	No goal for the total	60	ppb	Z	By-product of drinking water disinfection.

The amount from lowest to highest of a contaminant detected in Oklahoma City's drinking water.

Parts per billion—one ppb equals to one teaspoon in 1,302,000 gallons.

Parts per million - one ppm equals to one teaspoon in 1,302 gallons.

# **What is a Contaminant?**

Put simply, a contaminant in water is anything other than hydrogen or oxygen, or H20, the two hydrogen atoms and one oxygen atom that make up one water molecule. Contaminants do not mean there is a health risk. They simply mean there is something else in the water besides the elements that make up the water.

# **Understanding the Tables**

The following tables contain scientific terms and measures, some of which may require explanation.

Action Level (AL): The concentration of a contaminant, which, if exceeded, triggers treatment or other requirements which a water system must follow.

Average: Regulatory compliance with some MCLs are based on running annual average monthly samples.

Erosion of natural deposits: This language is required in the "possible source of contaminant column" for contaminants that are naturally-occurring. Erosion of natural deposits actually means the substance is naturally-present in drinking water and was not added.

Maximum Contaminant Level (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 (MCLG): The level of a contaminant in drinking water below which there is no known expected risk to health. MCLGs allow for a margin of safety.

Maximum Residual Disinfectant Level (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 (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.

NA: not applicable

ppb: micrograms per liter or parts per billion. One part per billion is the same as one ounce in 7,812,500 gallons of water, an order of magnitude smaller than one part per million.

ppm: milligrams per liter or parts per million. One part per million is the same as one ounce in 7,812.5 gallons of water.

Our local lakes may look full, but it only takes a few weeks with high temperatures and no rain to start depleting our water supply. You can help by following these easy water conservation tips:

- Fix leaky toilets and faucets
- Water your yard no more than 2x per week
- Turn off the water when brushing your teeth
- Use a bucket to save water while washing your car
- Top your garden with mulch to help keep soil moist
- Make sure your sprinkler heads work correctly

For more information, visit <u>squeezeverydrop.com</u> or follow us on Facebook or Twitter @squeezeeverydrop.







#### ASSOCIATION OF METROPOLITAN WATER AGENCIES

The Oklahoma City Utilities
Department received the 2017 Gold
Award for Excellence in Utility
Management from the Association of
Municipal Water Agencies (AMWA).
The award recognizes public water
utilities for outstanding achievement
in effective utility management.

To receive the award, the Utilities Department had to demonstrate it meets or exceeds industry requirements in ten specific areas of service, including sustainability, enterprise resiliency, customer service, financial management and employee engagement.



As part of our commitment to providing the highest quality drinking water, the Oklahoma City

Utilities Department joined Partnership for Safe Water, a national initiative developed by the EPA along with the American Water Works Association, Water Research Foundation, Association of Metropolitan Water Agencies and other state and municipal water organizations. Through peer evaluation and review, we are able to ensure our customers continue to receive the highest quality water based upon the latest standards for safe water treatment and distribution.

## **Got Questions? Contact us!**

Water Quality Questions or Concerns: (405) 297-3483

#### **Customer Service:**

(405) 297-2833
<a href="mailto:water@okc.gov">water@okc.gov</a>
To start or change water or trash service, pay or ask about a bill.

# 24-Hour Emergency Number:

(405) 297-3334

To report water or sewer outages, water quality concerns, or water emergencies.

#### **Public Information:**

(405) 297-2422

Media requests, general information about water, wastewater, solid waste services or Water Trust questions.

## **Oklahoma City Water Utilities Trust**

Carl Edwards, Chair, Independent Trustee

David Greenwell, Vice Chairman

Cody Graves, Independent Trustee

David Holt, Mayor Trustee

Mark K. Stonecipher, Surrogate Trustee

James D. Couch, City Manager Trustee

Dennis Clowers, Surrogate Trustee

Chris Browning, General Manager

Frances Kersey, Secretary

Meetings are televised live on City Channel 20 (Cox Cable).

The public is welcome to attend meetings of the Oklahoma City Water Utilities Trust (OCWUT) held at 2 p.m. on the 1st and 3rd Tuesdays of each month (unless otherwise posted). Trust meetings are held inside the Oklahoma City Council Chambers in City Hall, 210 North Walker Ave. Agendas are posted on the City's website at <a href="https://www.okc.gov">www.okc.gov</a>.



## **Best in Tap!**

The Oklahoma City Utilities Department took home the "Best In Tap" taste test award for its drinking water during the 2017 conference of the Southwest Section of the American Water Works Association. Water quality engineers and laboratory managers are committed to providing our customers with water that is safe and reliable, but tastes good, too!

# Ditch the bottle! Enjoy the tap!

Drinking safe, healthy tap water can help keep you hydrated while providing a variety of health benefits.

- Helps you maintain a healthy weight.
- Prevents headaches, fatigue and poor concentration.
- Improves kidney and joint health.
- Helps boost energy levels and uplift moods
- Aids with digestion.

Put fresh tap water in a re-usable bottle to help cut down on plastic use.



Source: shapeyourfutureok.com