



Annual Drinking Water Quality Report ²⁰¹⁵

SAGINAW, TX

Annual Water Quality Report for the period of January 1 to December 31, 2015

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.

CITY OF SAGINAW water supply is Purchased Surface Water.

City Council Meets the 1st & 3rd Tuesday each month at 6:00 pm

For more information regarding this report contact:
Randy Newsom at
817-230-0448

Este reporte incluye información importante sobre el agua para tomar. Para asistencia en español, favor de llamar al telefono 817-232-4640



INFORMATION ABOUT SOURCE WATER ASSESSMENTS

The TCEQ has completed a Source Water Assessment for all drinking water systems that own their sources. The 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(s) from which we purchase our water received the assessment report. For more information on source water assessments and protection efforts at our system, contact Randy Newsom.

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/>

The Texas Water Development Board requires the City of Saginaw to conduct an annual water audit report. This report determines the amount of water loss that a system had

throughout the year. The city submitted the 2015 report for the time period of January through December 2015. Our system lost an estimated 167,773,209 gallons of water. This loss is calculated by using events such as main breaks, theft, meter inaccuracies, Fire Department use and system maintenance. Using this data, the City of Saginaw had a 15.2% loss for the year. The city strives to have a 10% loss or lower on an annual basis. With better tracking methods, system inspections and monitoring, the city hopes to lower water loss each year. If you have any questions about the water audit, please call 817-230-0448.

The City of Saginaw purchases 100% of our drinking water from the City of Fort Worth. All treatment processes are completed by the City of Fort Worth at the treatment plant. The City of Saginaw only monitors chlorine levels throughout our distribution system to ensure the residual never drops below the minimum of 0.5 mg/l. During the calendar year 2015 our average daily chlorine residual was 2.12 mg/l.

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 EPA's 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 immuno-compromised 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>.



CITY OF FORT WORTH DATA: Microorganism testing shows low detections in raw water

Tarrant Regional Water District monitors the raw water at all intake sites for Cryptosporidium, Giardia Lamblia and viruses. The source is human and animal fecal waste in the watershed.

The 2015 sampling showed low level detections of Cryptosporidium, Giardia Lamblia and viruses that are common in surface water. The table below indicates when detections were found in each raw water source. Cryptosporidium and Giardia Lamblia monitoring is done monthly. Virus monitoring is performed four times a year in January, March, July and September. Viruses are treated through disinfection processes. Cryptosporidium and Giardia Lamblia are removed through a combination of disinfection and/or filtration.

Intake Location	Cryptosporidium	Giardfo Lamblia	Adenovirus	Entervirus	Astrovirus	Rotavirus
Richland-Chambers Reservoir	Not detected	Not detected	January	Not detected	Not detected	Not detected
Cedar Creek Lake	Not detected	Not detected	January & March	Not detected	Not detected	Not detected
Lake Benbrook	Not detected	Not detected	January & March	Not detected	Not detected	Not detected
Eagle Mountain Lake	June	June	January	September	Not detected	Not detected
Lake Worth	Not detected	Not detected	January & March	Not detected	Not detected	Not detected
Clearfork of Trinity River	Not detected	June	January & March	Not detected	Not detected	Not detected

TCEQ accesses raw water supplies for susceptibility Fort Worth uses surface water from Lake Worth, Eagle Mountain Lake, Lake Bridgeport, Richland Chambers Reservoir, Cedar Creek Reservoir, Lake Benbrook and the Clear Fork Trinity River.

Fort Worth owns Lake Worth. The U.S. Army Corps of Engineers is responsible for Benbrook Lake. The other four lakes are owned and operated by Tarrant Regional Water District. The Texas Commission on Environmental Quality completed an assessment of Fort Worth's source waters. TCEQ classified the risk to our source waters as high for most contaminants. High susceptibility means there are activities near the source water or watershed that make it very likely that chemical constituents may come into contact with the source water. It does not mean that there are any health risks present. Tarrant Regional Water District, from which Fort Worth purchases its water, received the assessment reports. For more information on source water assessments and protection efforts at our system, contact Stacy Walters at 817-392-8203.

Further details about the source-water assessments are available at www.tceq.texas.gov/DWW/JSP/SWAP.jsp?tinwsys_is_number=5802&tinwsys_st_code=TX&wsnumber=TX2200012%20%20%20&DWWState=TX.

SW From Fort Worth CC From TX220012 City of / SW (Type of Water)

Disinfectant Residual Table									
Disinfectant	Year	Average Level	Minimum Level	Maximum Level	MRDL	MRDLG	Unit of Measure	Violation (Y/N)	Likely Source of Contamination
Chloramines	2015	2.12	0.5	3.5	4	4	ppm	N	Water additive used to control microbes.

City of Saginaw Data: 2015 Regulated Contaminants Detected

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	8/24/2013	1.3	1.3	0.582	0	ppm	N	Erosion of natural deposits; Leaching from wood preservatives; Corrosion of household plumbing.
Lead	8/24/2013	0	15	2.86	1	ppb	N	Corrosion of household plumbing systems; Erosion of natural deposits.

Regulated Contaminants

Disinfectants and Disinfection By-Products	Collection Date	Highest Level Detected	Range of Levels Detected	MCLG	MCL	Units	Violation	Likely Source of Contamination
Haloacetic Acids (HAAs)*	2015	7	2.1 - 11.3	No goal for the total	60	ppb	N	By-product of drinking water disinfection.
Total Trihalomethanes (TTHM)	2015	8	4.96 - 13.2	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
Nitrate [measured as Nitrogen]	2015	0.361	0.361 - 0.361	10	10	ppm	N	Runoff from fertilizer use; Leaching from septic tanks, sewage; Erosion of natural deposits.

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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 corrosively. 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	2015	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.

UCMR3 Sampling Results City of Saginaw		Sample Date: 2/5/2015	
Data Facility: 35849 / Fort Worth Water Intertie		Lab: TX00045 / LCRA - Environmental Lab Services	
Sample Point: EP001 / EPTDS from Fort Worth Water		Sample ID: Q1504586001	
Sample Event: SE2		Monitoring Type: AM	
		Disinfectant Type(s): CAON	
Analyte	Method ID	Value	Status
chromium (total)	EPA 200.8	< 0.2 µg/L	70 - PWS Approve / State Hold
cobalt (cobalt)	EPA 200.8	< 1 µg/L	70 - PWS Approve / State Hold
molybdenum (molybdenum)	EPA 200.8	2.02 µg/L	70 - PWS Approve / State Hold
strontium (strontium)	EPA 200.8	309 µg/L	70 - PWS Approve / State Hold
vanadium (vanadium)	EPA 200.8	412 µg/L	70 - PWS Approve / State Hold
chlorate (chlorate)	EPA 300.1	< 20 µg/L	70 - PWS Approve / State Hold
1,4-dioxane	EPA 522	< 0.07 µg/L	70 - PWS Approve / State Hold
1,2,3-trichloropropane	EPA 524.3	< 0.03 µg/L	70 - PWS Approve / State Hold
1,3-butadiene	EPA 524.3	< 0.1 µg/L	70 - PWS Approve / State Hold
bromochloromethane (Halon 1011)	EPA 524.3	< 0.06 µg/L	70 - PWS Approve / State Hold
bromomethane (bromomethane)	EPA 524.3	< 0.2 µg/L	70 - PWS Approve / State Hold
chlorodifluoromethane (HCFC-22)	EPA 524.3	< 0.08 µg/L	70 - PWS Approve / State Hold
chloromethane (chloromethane)	EPA 524.3	< 0.2 µg/L	70 - PWS Approve / State Hold
perfluorobutane sulfonic acid (PFBS)	EPA 537	< 0.09 µg/L	70 - PWS Approve / State Hold
perfluoroheptanoic acid (PFHpA)	EPA 537	< 0.01 µg/L	70 - PWS Approve / State Hold
perfluorohexane sulfonic acid (PFHxS)	EPA 537	< 0.03 µg/L	70 - PWS Approve / State Hold
perfluorononanoic acid (PFNA)	EPA 537	< 0.02 µg/L	70 - PWS Approve / State Hold
perfluorooctanoic acid (PFOA)	EPA 537	< 0.02 µg/L	70 - PWS Approve / State Hold
perfluorooctane sulfonic acid (PFOS)	EPA 537	< 0.04 µg/L	70 - PWS Approve / State Hold

Facility: 35849 / Fort Worth Water Intertie		Lab: OK00092 / Accurate Environmental Labs	
Sample Point: EP001 / EPTDS from Fort Worth Water		Sample ID: 5B11012-01	
Sample Event: SE2		Monitoring Type: AM	
Sample Date: 2/5/2015		Disinfectant Type(s): CAON	
Analyte	Method ID	Value	Status
chromium-6 (chromium-6)	EPA 218.7	< 0.03 µg/L	70 - PWS Approve / State Hold

Facility: 45376 / Distribution System		Lab: TX00045 / LCRA - Environmental Lab Services	
Sample Point: MR.001 / Max. Res. Time in Dist. System		Sample ID: Q1504586003	
Sample Event: SE2		Monitoring Type: AM	
Sample Date: 2/5/2015		Disinfectant Type(s): CAOF	
Analyte	Method ID	Value	Status
chromium (total) (chromium (total))	EPA 200.8	< 1.47 µg/L	70 - PWS Approve / State Hold
cobalt (cobalt)	EPA 200.8	< 1 µg/L	70 - PWS Approve / State Hold
molybdenum (molybdenum)	EPA 200.8	< 1 µg/L	70 - PWS Approve / State Hold
strontium (strontium)	EPA 200.8	287 µg/L	70 - PWS Approve / State Hold
vanadium (vanadium)	EPA 200.8	3.29 µg/L	70 - PWS Approve / State Hold
chlorate (chlorate)	EPA 300.1	< 20 µg/L	70 - PWS Approve / State Hold

Facility: 45376 / Distribution System		Sample Date: 2/5/2015	
Sample Point: MR001 / Max. Res. Time in Dist. System		Lab: OK00092 / Accurate Environmental Labs	
Sample Event: SE2		Sample ID: 5B11012-02	
		Monitoring Type: AM	
		Disinfectant Type(s): CAOF	
Analyte	Method ID	Value	Status
chromium-6 (chromium-6)	EPA 218.7	< 0.03 µg/L	70 - PWS Approve / State Hold

Facility: 35849 / Fort Worth Water Intertie		Lab: TX00045 / LCRA - Environmental Lab Services	
Sample Point: EP001 / EPTDS from Fort Worth Water		Sample ID: Q1 517261001	
Sample Event: SE3		Monitoring Type: AM	
Sample Date: 5/12/2015		Disinfectant Type(s): CAON	
Analyte	Method ID	Value	Status
chromium (total) (chromium (total))	EPA 200.8	0.23 µg/L	70 - PWS Approve / State Hold
cobalt (cobalt)	EPA 200.8	< 1 µg/L	70 - PWS Approve / State Hold
molybdenum (molybdenum)	EPA 200.8	2.62 µg/L	70 - PWS Approve / State Hold
strontium (strontium)	EPA 200.8	342 µg/L	70 - PWS Approve / State Hold
vanadium (vanadium)	EPA 200.8	0.872 µg/L	70 - PWS Approve / State Hold
chlorate (chlorate)	EPA 300.1	< 20 µg/L	70 - PWS Approve / State Hold
1,4-dioxane	EPA 522	< 0.07 µg/L	70 - PWS Approve / State Hold
1,1-dichloroethane (1,1-dichloroethane)	EPA 524.3	< 0.03 µg/L	70 - PWS Approve / State Hold
1,2,3-trichloropropane (1,2,3-trichloropropane)	EPA 524.3	< 0.03 µg/L	70 - PWS Approve / State Hold
1,3-butadiene (1,3-butadiene)	EPA 524.3	< 0.1 µg/L	70 - PWS Approve / State Hold
bromochloromethane (Halon 1011)	EPA 524.3	< 0.06 µg/L	70 - PWS Approve / State Hold
bromomethane (bromomethane)	EPA 524.3	< 0.2 µg/L	70 - PWS Approve / State Hold
chlorodifluoromethane (HCFC-22)	EPA 524.3	< 0.08 µg/L	70 - PWS Approve / State Hold
chloromethane (chloromethane)	EPA 524.3	< 0.2 µg/L	70 - PWS Approve / State Hold
perfluorobutane sulfonic acid (PFBS)	EPA 537	< 0.09 µg/L	70 - PWS Approve / State Hold
perfluoroheptanoic acid (PFHpA)	EPA 537	< 0.01 µg/L	70 - PWS Approve / State Hold
perfluorohexane sulfonic acid (PFHxS)	EPA 537	< 0.03 µg/L	70 - PWS Approve / State Hold
perfluorononanoic acid (PFNA)	EPA 537	< 0.02 µg/L	70 - PWS Approve / State Hold
perfluorooctanoic acid (PFOA)	EPA 537	< 0.02 µg/L	70 - PWS Approve / State Hold
perfluorooctane sulfonic acid (PFOS)	EPA 537	< 0.04 µg/L	70 - PWS Approve / State Hold

Facility: 45376 / Distribution System		Lab: TX00045 / LCRA - Environmental Lab Services	
Sample Point: MR001 / Max. Res. Time in Dist. System		Sample ID: Q1517261003	
Sample Event: SE3		Monitoring Type: AM	
Sample Date: 5/12/2015		Disinfectant Type(s): CAON	
Analyte	Method ID	Value	Status
chromium (total) (chromium (total))	EPA 200.8	< 0.2 µg/L	70 - PWS Approve / State Hold
cobalt (cobalt)	EPA 200.8	< 1 µg/L	70 - PWS Approve / State Hold
molybdenum (molybdenum)	EPA 200.8	2.63 µg/L	70 - PWS Approve / State Hold
strontium (strontium)	EPA 200.8	354 µg/L	70 - PWS Approve / State Hold
vanadium (vanadium)	EPA 200.8	.905 µg/L	70 - PWS Approve / State Hold
chlorate (chlorate)	EPA 300.1	< 20 µg/L	70 - PWS Approve / State Hold

Facility: 35849 / Fort Worth Water Intertie		Lab: TX00045 / LCRA - Environmental Lab Services	
Sample Point: EP001 / EPTDS from Fort Worth Water		Sample ID: 5E14008-01	
Sample Event: SE3		Monitoring Type: AM	
Sample Date: 5/12/2015		Disinfectant Type(s): CAON	
Analyte	Method ID	Value	Status
chromium-6 (chromium-6)	EPA 218.7	0.0476 µg/L	70 - PWS Approve / State Hold

Facility: 45376 / Distribution System		Lab: OK00092 / Accurate Environmental Labs	
Sample Point: MR001 / Max. Res. Time in Dist. System		Sample ID: 5E14008-02	
Sample Event: SE3		Monitoring Type: AM	
Sample Date: 5/12/2015		Disinfectant Type(s): CAON	
Analyte	Method ID	Value	Status
chromium-6 (chromium-6)	EPA 218.7	< 0.03 µg/L	70 - PWS Approve / State Hold

Facility: 35849 / Fort Worth Water Intertie		Lab: TX00045 / LCRA - Environmental Lab Services	
Sample Point: EP001 / EPTDS from Fort Worth Water		Sample ID: Q1532044001	
Sample Event: SE4		Monitoring Type: AM	
Sample Date: 8/13/2015		Disinfectant Type(s): CAON	
Analyte	Method ID	Value	Status
chromium (total) (chromium (total))	EPA 200.8	0.2 µg/L	70 - PWS Approve / State Hold
cobalt (cobalt)	EPA 200.8	< 1 µg/L	70 - PWS Approve / State Hold
molybdenum (molybdenum)	EPA 200.8	1.28 µg/L	70 - PWS Approve / State Hold
strontium (strontium)	EPA 200.8	243 µg/L	70 - PWS Approve / State Hold
vanadium (vanadium)	EPA 200.8	2.06 µg/L	70 - PWS Approve / State Hold
chlorate (chlorate)	EPA 300.1	< 20 µg/L	70 - PWS Approve / State Hold
1,4-dioxane	EPA 522	< 0.07 µg/L	70 - PWS Approve / State Hold
1,1-dichloroethane (1,1-dichloroethane)	EPA 524.3	< 0.03 µg/L	70 - PWS Approve / State Hold
1,2,3-trichloropropane (1,2,3-trichloropropane)	EPA 524.3	< 0.03 µg/L	70 - PWS Approve / State Hold
1,3-butadiene (1,3-butadiene)	EPA 524.3	< 0.1 µg/L	70 - PWS Approve / State Hold
bromochloromethane (Halon 1011)	EPA 524.3	< 0.06 µg/L	70 - PWS Approve / State Hold
bromomethane (bromomethane)	EPA 524.3	< 0.2 µg/L	70 - PWS Approve / State Hold
chlorodifluoromethane (HCFC-22)	EPA 524.3	< 0.08 µg/L	70 - PWS Approve / State Hold
chloromethane (chloromethane)	EPA 524.3	< 0.2 µg/L	70 - PWS Approve / State Hold
perfluorobutane sulfonic acid (PFBS)	EPA 537	< 0.09 µg/L	70 - PWS Approve / State Hold
perfluoroheptanoic acid (PFHpA)	EPA 537	< 0.01 µg/L	70 - PWS Approve / State Hold
perfluorohexane sulfonic acid (PFHxS)	EPA 537	< 0.03 µg/L	70 - PWS Approve / State Hold
perfluorononanoic acid (PFNA)	EPA 537	< 0.02 µg/L	70 - PWS Approve / State Hold
perfluorooctanoic acid (PFOA)	EPA 537	< 0.02 µg/L	70 - PWS Approve / State Hold
perfluorooctane sulfonic acid (PFOS)	EPA 537	< 0.04 µg/L	70 - PWS Approve / State Hold

Facility: 35849 / Fort Worth Water Intertie		Lab: OK00092 / Accurate Environmental Labs	
Sample Point: EP001 / EPTDS from Fort Worth Water		Sample ID: 5H21004-01	
Sample Event: SE4		Monitoring Type: AM	
Sample Date: 8/13/2015		Disinfectant Type(s): CAON	
Analyte	Method ID	Value	Status
chromium-6 (chromium-6)	EPA 218.7	< 0.03 µg/L	70 - PWS Approve / State Hold

Facility: 45376 / Distribution System		Lab: OK00092 / Accurate Environmental Labs	
Sample Point: MR001 / Max. Res. Time in Dist. System		Sample ID: 5H21004-02	
Sample Event: SE4		Monitoring Type: AM	
Sample Date: 8/13/2015		Disinfectant Type(s): CAON	
Analyte	Method ID	Value	Status
chromium (total) (chromium (total))	EPA 200.8	< 1.47 µg/L	70 - PWS Approve / State Hold
cobalt (cobalt)	EPA 200.8	< 1 µg/L	70 - PWS Approve / State Hold
molybdenum (molybdenum)	EPA 200.8	< 1 µg/L	70 - PWS Approve / State Hold
strontium (strontium)	EPA 200.8	287 µg/L	70 - PWS Approve / State Hold
vanadium (vanadium)	EPA 200.8	3.29 µg/L	70 - PWS Approve / State Hold
chlorate (chlorate)	EPA 300.1	< 20 µg/L	70 - PWS Approve / State Hold

Facility: 35849 / Fort Worth Water Intertie		Lab: TX00045 / LCRA - Environmental Lab Services	
Sample Point: EP001 / EPTDS from Fort Worth Water		Sample ID: Q1504586003	
Sample Event: SE4		Monitoring Type: AM	
Sample Date: 8/13/2015		Disinfectant Type(s): CAON	
Analyte	Method ID	Value	Status
chromium-6 (chromium-6)	EPA 218.7	< 0.03 µg/L	70 - PWS Approve / State Hold

Facility: 45376 / Distribution System		Lab: OK00092 / Accurate Environmental Labs	
Sample Point: MR001 / Max. Res. Time in Dist. System		Sample ID: 5H21004-02	
Sample Event: SE4		Monitoring Type: AM	
Sample Date: 8/13/2015		Disinfectant Type(s): CAON	
Analyte	Method ID	Value	Status
chromium (total) (chromium (total))	EPA 200.8	< 1.47 µg/L	70 - PWS Approve / State Hold
cobalt (cobalt)	EPA 200.8	< 1 µg/L	70 - PWS Approve / State Hold
molybdenum (molybdenum)	EPA 200.8	< 1 µg/L	70 - PWS Approve / State Hold
strontium (strontium)	EPA 200.8	287 µg/L	70 - PWS Approve / State Hold
vanadium (vanadium)	EPA 200.8	3.29 µg/L	70 - PWS Approve / State Hold
chlorate (chlorate)	EPA 300.1	< 20 µg/L	70 - PWS Approve / State Hold

Facility: 45376 / Distribution System		Lab: OK00092 / Accurate Environmental Labs	
Sample Point: MR001 / Max. Res. Time in Dist. System		Sample ID: 5H21004-02	
Sample Event: SE4		Monitoring Type: AM	
Sample Date: 8/13/2015		Disinfectant Type(s): CAON	
Analyte	Method ID	Value	Status
chromium-6 (chromium-6)	EPA 218.7	< 0.03 µg/L	70 - PWS Approve / State Hold

City of Fort Worth Data Drinking Water Quality Test Results

Contaminant	Measure	MCL	2015 Highest Single Result	Lowest monthly % of samples =< 0.3 NTU	MCLG	Common Sources of Substance
Turbidity	NTU	TT	0.50	98.90%	N/A	Soil runoff (Turbidity is a measure of the cloudiness of water. It is monitored because it is a good indicator of the effectiveness of the filtration system.)
Contaminant	Measure	MCL	2015 Level	Range	MCLG	Common Sources of Substance
Total Coliforms (including fecal coliform & E. coli)	% positive samples	Presence in 5% or less of monthly samples	Presence in 2% of monthly samples	0 - 2%	0	Coliforms are naturally present in the environment as well as feces; fecal coliforms and E. coli only come from human and animal fecal waste.
Contaminant	Measure	MCL	2015 Level	Range	MCLG	
Gross Beta particles & photon emitters	pCi/L	50	5.6	4 to 5.6	N/A	Decay of natural and man-made deposits of certain minerals that are radioactive and may emit forms of radiation known as photons and beta radiation
Radium 226/228	pCi/L	5	1	1 to 1	0	Erosion of natural deposits
Arsenic	ppb	10	1.7	0.06 to 1.7	0	Erosion of natural despoits; runoff from glass and electronics production wastes
Antimony	ppb	6	0.21	0 to 0.21	6	Discharge from petroleum refineries, fire retardants, ceramics, electronics, solder, test addition
Barium	ppm	2	0.71	0.05 to 0.07	2	Discharge of drilling wastes; discharge from steel and metal factories
Chromium (Total)	ppb	100	1	0.087 to 1	100	Discharge from steel and pulp mills; erosion of natural deposits
Cyanide	ppb	200	145	13.4 to 145	200	Discharge from plastic and fertilizer factories; discharge from sheet metal factories
Fluoride	ppm	4	0.56	0.12 to 0.56	4	Water additive which promotes strong teeth; erosion of natural deposits; discharge from fertilizer and aluminum factories
Nitrate (measured as Nitrogen)	ppm	10	0.67	0.2 to 0.67	10	Runoff from fertilizer use; leaching from septic tanks, sewage; erosion of natural deposits
Nitrite (measured as nitrogen)	ppm	1	0.04	0 to 0.04	1	Runoff from fertilizer use; leaching from septic tanks, sewage; erosion of natural deposits
Bromate	ppb	10	6.22	0 to 6.22	0	By-product of drinking water disinfection
Haloacetic Acids	ppb	60	15.6	8.8 to 15.6	N/A	By-product of drinking water disinfection
Total Trihalomethanes	ppb	80	27.8	12.4 to 27.8	N/A	By-product of drinking water disinfection
Contaminant	Measure	MRDL	2015 Level	Range	MCLG	Common Sources of Substance
Chloramines	ppm	4			4	Water additive used to control microbes
Contaminant	High	Low	Average	MCL	MCLG	Common Sources of Substance
Total Organic Carbon	1	1	1	TT = % removal	N/A	Naturally occurring

It is used to determine disinfection by-product precursors. Fort Worth was in compliance with all monitoring and treatment technique requirements for disinfection by-product precursors.

Unregulated Contaminants

Unregulated contaminants are those for which 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 regulation is warranted.

Contaminant	Measure	Range of Detects	2015 Level	MCL	MCLG	Common Sources of Substance
Chloral Hydrate	ppb	0.30 to 0.67	0.67	Not Regulated	None	By-product of drinking water disinfection
Bromoform	ppb	1.5 to 9.9	9.9	Not regulated	None	By-products of drinking water disinfection; not regulated individually; included in Total Trihalomethanes
Bromodichloromethane	ppb	2.6 to 8.9	8.9	Not Regulated	None	
Chloroform	ppb	2.8 to 15.2	15.2	Not Regulated	None	
Dibromochloromethane	ppb	1.9 to 9.0	9	Not regulated	None	
Monochloroacetic Acid	ppb	2.0 to 5	5	Not Regulated	None	By-products of drinking water disinfection; not regulated individually; included in Haloacetic Acids
Dichloroacetic Acid	ppb	7.3 to 9.3	9.3	Not Regulated	None	
Trichloroacetic Acid	ppb	1.2 to 6.8	6.8	Not Regulated	None	
Monobromoacetic Acid	ppb	0 to 2.4	2.4	Not Regulated	None	
Dibromoacetic Acid	ppb	0 to 3.8	3.8	Not Regulated	None	

Secondary Constituents

These items do not relate to public health but rather to the aesthetic effects. These items are often important to industry.

Item	Measure	2015 Range
Bicarbonate	ppm	96.4 to 120
Calcium	ppm	33.3 to 42.1
Chloride	ppm	12.5 to 25.9
Conductivity	µmhos/cm	333 to 427
pH	units	8.0 to 8.2
Magnesium	ppm	3.55 to 6.79
Sodium	ppm	12.3 to 28.5
Sulfate	ppm	20.2 to 29.0
Total Alkalinity as CaCO3	ppm	96.4 to 120
Total Dissolved Solids	ppm	163 to 234
Total Hardness of CaCO3	ppm	101 to 133
Total Hardness in Grains	grains/gallon	6 to 8

DEFINITIONS

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

MRDL (Maximum Residual Disinfectant Level): 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.

MRDLG (Maximum Residual Disinfectant Level Goal): 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.

MCLG (Maximum Contaminant Level Goal): 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.

MCL (Maximum Contaminant Level): 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.

NA: Not applicable

ND: Not detected

TT (Treatment Technique): A required process intended to reduce the level of a contaminant in drinking water.

ppm (parts per million): One part substance per million parts water (or milligrams per liter).

ppb (parts per billion): One part substance per billion parts water (or micrograms per liter).

NTU (Nephelometric Turbidity Units): Measurement of the clarity, or turbidity, of water.

WTP Water Treatment Plant

TOC Total Organic Carbon

HAA Haloacetic Acids

TTHM Total Trihalomethanes

LRAA Local Running Annual Average