# City of Commerce Annual Water Quality Report January 1 to December 31, 2016

The Texas Commission on Environmental Quality (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 detections of these contaminants may be found in this Consumer Confident Report.

Commerce uses water from Lake Tawakoni and the Nacotoch Aquifer. For more information on source water assessments and protection efforts at our system, contact Anita Tutt @ 903-886-1156.

Providing safe and reliable drinking water is our highest priority. We are proud to produce and deliver water that meets or exceeds state and federal standards.

Public comments are allowed at City Council Meetings held on the third Tuesday of each month beginning at 6:00 p.m. at City Hall.

#### Sources of Drinking Water

The sources of drinking water (both tap 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 pickup 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 the taste, odor or color of drinking water, please call 903-886-1156.

You may be more vulnerable than the general population to certain microbial contaminants, such as Cryptosporidium, in drinking water. Infants, some elderly or immune-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 two 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.

#### **Water Quality Test Results 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.

**Avg** – Regulatory compliance with some MCLs are based on running annual average of monthly samples.

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 or 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.

**MFL** – million fibers per liter (a measure of asbestos).

**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 7,350,000 gallons of water

ppt – parts per trillion, or nanograms per liter (ng/L)

ppq - parts per quadrillion or pictograms per liter
(pg/L)

#### En Español

Este Informe contiene Información importante sobre el agua de beber. Si tienes preguntas llama a 903-886-1156.

City of Commerce 1119 Alamo Commerce, Texas 75428 www.commercetx.org

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Source Water Name		Type of Water	Report Status	Locatio	n
CITY 1 – WASHINGTON	WASHINGTON	GW		Nacoto	ch Aquifer
HORTON 1	9713 FM 153	GW	Υ	ш	"
HORTON 2	406 FM 2800	GW	Υ	"	u
HORTON 3	275 FM 2075	GW	Υ	"	u
HORTON 4	1330 FM 71	GW	Υ	"	u
HORTON 5	MLK	GW	Υ	"	u
PUMPS 1, 2, 3		SW	Υ	Lake Tawakoni	

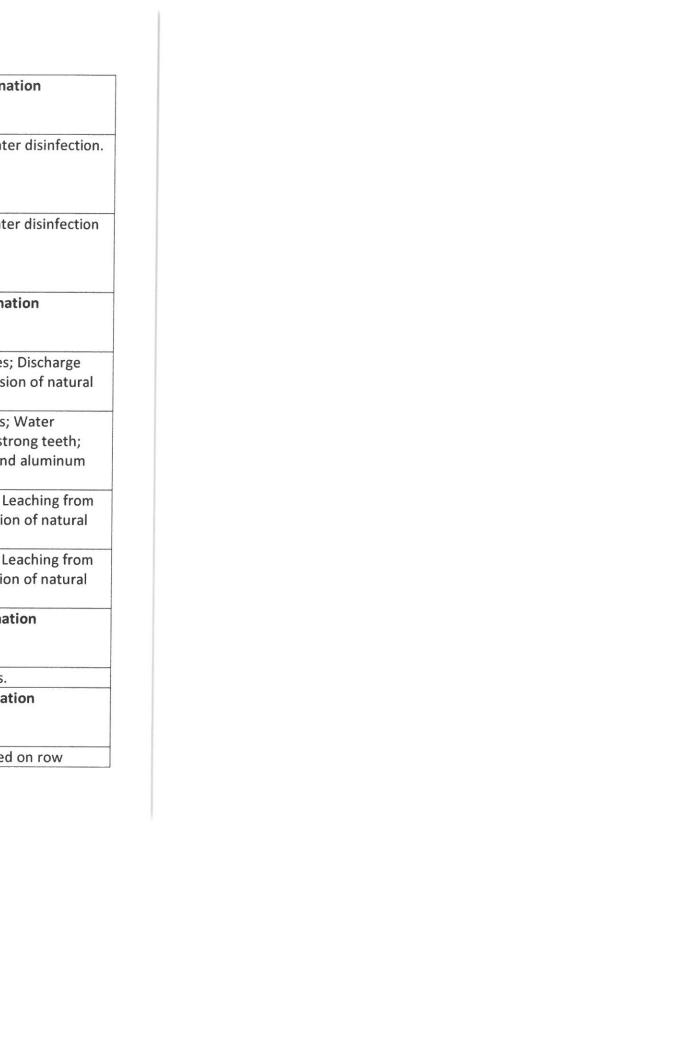
For more information about your sources of water, please refer to the Source Water Assessment Viewer available at the following URL: http://www.tceq.texas.gov/gis/swaview

Further details about sources and source-water assessments are available in Drinking Water Watch at the following URL: http://ddww2.tceq.texas.gov/Dww/



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Disinfectants and Disinfection	Collection Date	Highest Level	Range of Levels	MCLG	MCL	Units	Violation	Likely Source of Contamination
By-Products	Dute	Detected	Detected					
Haloacetic Acids (HAA5)	2016	48	3.5 – 76.7	No goal for the total	60	ppb	Y	By-product of drinking water disinfection
Total Trihalomethanes (TTHM)	2016	73	4.04 – 148	No goal for the total	80	ppb	Y	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
Barium	2016	0.051	0.007 – 0.051	2	2	ppm	N	Discharge of drilling wastes; Discharge from metal refineries; Erosion of natural deposits.
Fluoride	2016	0.2	0.176 – 0.176	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	0.34	0.155 – 0.34	10	10	ppm	N	Runoff from fertilizer use; Leaching from septic tanks, sewage; Erosion of natural deposits.
Nitrate (measured as Nitrogen)	2016	0.368	0 – 0.368	1	1	ppm	N	Runoff from fertilizer use; Leaching from septic tanks, sewage; Erosion of natural deposits.
Radioactive Contaminants	Collection Date	Highest Level Detected	Range of Levels Detected	MCLG	MCL	Units	Violation	Likely Source of Contamination
Combined Radium 226/228	2016	1.5	1.5 – 1.5	0	5	pCi/L	N	Erosion of natural deposits.
Synthetic organic contaminants including pesticides and herbicides	Collection Date	Highest Level Detected	Range of Levels Detected	MCLG	MCL	Units	Violation	Likely source of Contamination
Atrazine	2016	0.25	0.11 -	3	3	ppb	N	Runoff from herbicides used on row



		0	.25		crops.	
<b>Coliform Bacteria</b>						
Maximum	Total Coliform	<b>Highest Number of</b>	Fecal Coliform or	<b>Total Number of</b>	Violation	Likely Source of
Contaminant	Maximum	Positive	E. Coli Maximum	Positive E. Coli or Fecal		Contamination
Level Goal	<b>Contaminant Level</b>		<b>Contaminant Level</b>	Coliform Samples		
0	1 positive monthly	1		0	N	Naturally present in
	sample					the environment.

**Turbidity** 

	Limit (Treatment Technique)	Level Detected	Violation	Likely Source of Contamination
Highest single	1 NTU	0.29 NTU	N	Soil Runoff.
measurement				
Lowest monthly %	0.3 NTU	100%	N	Soil Runoff.
meeting limit				

Information Statement: Turbidity is a measurement of the cloudiness of the water caused by suspended particles. We monitor it because it is a good indicator of water quality and the effectiveness of our filtration.

Lead and	Date	MCLG	Action	90 <sup>th</sup>	# Sites	Units	Violation	Likely Source of Contamination
Copper	Sampled		Level (AL)	Percentile	Over AL			
Copper	2016	1.3	1.3	0.32	0	ppm	See State 2	Erosion of natural deposits; Leaching from wood preservatives; Corrosion of household plumbing systems.
Lead	2016	0	15	2.82	1	ppb	N	Corrosion of household plumbing systems; Erosion of natural deposits.

## **Disinfectant Residuals**

Disinfectant	Year	Average	Minimum	Maximum	MRDL	MRDLG	Unit of	Violation	Likely Source of Contamination
		Level	Level	Level			Measure	(Y/N)	
Chloramine	2016	1.2	0.50	2.3	4.0	<4.0	ppm	N	Water additive used to control microbes.

## **Total Organic Carbon**

The percentage of Total Organic Carbon (TOC) removal was measured each month and the system met all TOC removal requirements set, unless a TOC violation is noted in the violations section.

### **Violations Table**

Filter Backwash	Rule		
		9 <del>7</del>	public water systems to review their backwash water recycling practices to ensure that they do not
compromise mic	robial control.		
<b>Violation Type</b>	Violation	Violation	Violation Explanation
	Begin	End	

Failure to submit	07/06/2011	2016	We failed to submit to our regulator a plant schematic showing the origin of all flows which are recycled,
plant schematic			the hydraulic conveyance used to transport them and the location where they are re-introduced back
(FBR)			into the treatment plant.

Some people wh	o drink water c	ontaining halo	acetic acids in excess of the MCL over many years may have an increased risk of getting cancer.
Violation Type	Violation Begin	Violation End	Violation Explanation
MCL, LRAA	01/01/2016	03/31/2016	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.
MCL, LRAA	04/01/2016	06/30/2016	

Lead and Coppe	r Rule		
The Lead and Co and copper ente	pper Rule prote r drinking water	cts public healt mainly from co	h by minimizing lead and copper levels in drinking water, primarily by reducing water corrosivity. Lead prrosion of lead and copper containing plumbing materials.
Violation Type	Violation Begin	Violation End	Violation Explanation
Follow-Up or Routine Tap M/R (LCR)	10/01/2016	2016	We failed to test our drinking water for the contaminant and period indicated. Because of this failure, we cannot be sure of the quality of our drinking water during the period indicated.
Lead Consumer Notice (LCR)	12/30/2013	11/03/2013	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.

<b>Public Notification</b>	on Rule		
The Public Notifi	cation Rule help	os to ensure th	at consumers will always know if there is a problem with their drinking water. These notices
immediately aler	t consumers if	there is a serio	ous problem with their drinking water (e.g., a boil water emergency).
<b>Violation Type</b>	Violation	Violation	Violation Explanation
	Begin	End	
Public Notice	01/17/2015	01/11/2016	We failed to adequately notify you, our drinking water consumers, about a violation of the drinking
Rule Linked to			water regulations.
Violation			
Public Notice	07/01/2016	07/31/2016	We failed to adequately notify you, our drinking water consumers, about a violation of the drinking
Rule Linked to			water regulations.
Violation			
Public Notice	12/11/2016	2016	We failed to adequately notify you, our drinking water consumers, about a violation of the drinking

Rule Linked to	water regulations.	
Violation		

## **Total Trihalomethanes (TTHM)**

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.

Violation Type	Violation	Violation	Violation Explanation
	Begin	End	
MCL, LRAA	01/01/2016	03/31/2016	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.
MCL, LRAA	04/01/2016	06/30/2016	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.
MCL, LRAA	07/01/2016	09/30/2016	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.
MCL, LRAA	10/01/2016	12/31/2016	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.

## E. Coli

Fecal coliforms and E. coli are bacteria whose presence indicates that the water may be contaminated with human or animal wastes. Microbes in these wastes can cause short-term effects, such as diarrhea, cramps, nausea, headaches or other symptoms. They may pose a special health risk for infants, young children and people with severely compromised immune systems.

Violation Type	Violation	Violation	Violation Explanation
	Begin	End	
Monitor GWR	07/01/2016	07/31/2016	We failed to collect follow-up samples within 24 hours of learning of the total coliform-positive
Triggered/Additional			sample. These needed to be tested for fecal indicators from all sources that were being used at
Major			the time the positive sample was collected.