

City of Mansfield TX2200018

2016 Drinking Water Quality Report

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

En Español: Este reporte incluye información importante sobre el agua para tomar. Para asistencia en español, favor de llamar al teléfono 817-477-2248.

Using Data Collected in 2016 Unless Noted

Inorganic Contaminants	Contaminant	Units	Highest Level Detected	Range of Levels Detected	MCLG	MCL	Violation	Likely Source of Contamination
	Arsenic	ppb	1.00	0.87 - 0.87	0.00	10.00	No	Erosion of natural deposits; Runoff from orchards; Runoff from glass and electronics production wastes.
	Barium	ppm	0.021	0.021 - 0.021	2.00	2.00	No	Discharge of drilling wastes; Discharge from metal refineries; Erosion of natural deposits.
	Fluoride	ppm	0.100	0.117 - 0.117	4.00	4.00	No	Erosion of natural deposits; Water additive which promotes strong teeth; Discharge from fertilizer and aluminum factories.
	Nitrate [measured as Nitrogen]	ppm	0.436	0.436 - 0.436	10.00	10.00	No	Runoff from fertilizer use; Leaching from septic tanks, sewage; Erosion of natural deposits.
	Thallium	ppb	0.270	0.27 - 0.27	0.50	2.00	No	Discharge from electronics, glass, and leaching from ore-processing sites; drug factories.

Radioactive Contaminants (collected 1/06/2011)

Combined Radium 226/228	pCi/L	1.00	1.00 - 1.00	0.00	5.00	No	Erosion of natural deposits.
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Lead and Copper⁽³⁾

Units	The 90th Percentile	# Sites Over AL	Action Level (AL) ⁽⁴⁾	MCLG	Violation	Likely Source of Contamination	
Lead (09/15/2015)	ppb	1.70	0.00	15.00	0.00	No	Corrosion of household plumbing systems; Erosion of natural deposit.
Copper (09/15/2015)	ppm	0.21	0.00	1.30	1.30	No	Corrosion of household plumbing systems; Erosion of natural deposit; Leaching from wood preservatives.

Turbidity⁽¹⁾

Limit (Treatment Technique)	Level Detected	Violation	Likely Source of Contamination	
Highest single measurement	1.00 NTU	0.38 NTU	No	Soil runoff.
Lowest monthly % meeting limit	0.30 NTU	100%	No	Soil runoff.

Secondary Constituents

Contaminant	Units	Average Level	Minimum Level	Maximum Level	Secondary Limit	Likely Source of Contamination
Bicarbonate	ppm	47.00	47.00	47.00	NA	Corrosion of carbonate rocks such as limestone.
Chloride	ppm	13.00	13.00	13.00	300.00	Abundant naturally occurring element; Used in water purification.
Hardness as Ca/Mg	ppm	98.80	98.80	98.80	NA	Naturally occurring in calcium and magnesium.
pH	units	8.20	8.10	8.30	> 7.00	Measure of corrosivity of water.
Sodium	ppm	22.00	22.00	22.00	NA	Erosion of natural deposits; Byproducts of oil field activity.
Sulfate	ppm	11.10	11.10	11.10	300.00	Naturally occurring; Common industrial byproduct; Byproducts of oil field activity.
Total Dissolved Solids	ppm	114.00	114.00	114.00	1000.00	Total dissolved mineral constituents in water.

Total Organic Compound⁽²⁾

Raw Water	6.91	5.65	8.76
Treated Water	3.92	3.19	4.68
Removal Ratio	1.13	0.98	1.43

Byproducts

Contaminant	Units	Highest Level Detected	Range of Levels Detected	MCLG	MCL	Violation	Likely Source of Contamination
Chlorite	ppm	0.71	0.00 - 0.71	0.80	1.00	No	Byproduct of drinking water disinfection.
Haloacetic Acids (HAA5)*	ppb	33.00	16.6 - 59	No goal for that total	60.00	No	Byproduct of drinking water disinfection.
Total Trihalomethanes (TTHM)	ppb	71.00	48.4 - 102	No goal for that total	80.00	No	Byproduct of drinking water disinfection.

Disinfection

Residual

Disinfection	Units	Average Level	Range of Levels Detected	MRDL	MRDLG	Violation	Likely Source of Contamination
Chloramine	ppm	3.35	1.8 - 4.0	4.00	4.00	No	Water additive used to control microbes.

(1) 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. (2) 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. (3) 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. (4) Action level: The concentration of a contaminant which, if exceeded, triggers treatment or other requirements which a water system must follow.