

CITY OF Blooming Grove
Annual Drinking Water Quality Report
TX1750001

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

CITY OF Blooming Grove is Purchased Surface Water

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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.

Este reporte incluye información importante sobre el agua para tomar. Para asistencia en español, favor de llamar al telefono (903)-695-2711

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 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 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

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 from which we purchase our water received the assessment report. For more information on source water assessments and protection efforts at our system, contact Rory Evans.

Source Water Name	Type of Water	Report Status	Location
SW FROM CITY OF CORSICANA	SW	Active	Navarro Mills

CC FROM TX1750002 CITY OF

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.

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.

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.

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.

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

ppq parts per quadrillion, or picograms per liter (pg/L)

Total Coliform Rule:

Total Coliform: Negative

Fecal Coliform: Negative

2016 Regulated Contaminants Detected

Disinfectant and Disinfection By-Products	Collection Date	Highest Level Detected	Range of Levels Detected	MCLG	MCL	Units	Violation	Likely Source of Contamination
Haloacetic Acids (HAA5)	2016	6.1	0-6.1	No goal for the total	60	ppb	N	By- product of drinking water disinfection
Total Trihalomethanes (TTHM)	2016	70.3	41.6-70.3	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)	2016	0.368	0.368 - 0.368	10	10	ppm	N	Runoff from fertilizer use; Leaching from septic tanks, sewage; Erosion of natural deposits.

Chlorine Residual

Year	Constituent	Monthly Average	Minimum Level	Maximum Level	MRDL	MRDLG	Unit of Measure	Source of Constituent
2016	Chloramine Residual	0.84	0.53	1.31	4	4	ppm	Disinfectant used to control microbes

Lead and Copper

Lead and Copper	Date Sampled	MCLG	Action Level (AL)	90 th Percentile	# sites over AL	Units	Violation	Likely Source of Contamination
Copper	2016	1.3	1.3	0.25	0	ppm	N	Erosion of Natural Deposits; Leaching from wood preservatives; Corrosion of household plumbing systems.
Lead	2016	0	15	1.6	0	ppb	N	Corrosion of household plumbing systems; Erosion of

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
Follow up or Routine Tap M/R (LCR)	10/1/2014	09/26/16	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.
Follow up or Routine Tap M/R (LCR)	10/1/2015	09/26/16	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.

Regulated Contaminants from The City of Corsicana

Disinfectants and Disinfection By-Products	Collection Date	Highest Level Detected	Range of Levels Detected	MCLG	MCL	Units	Violation	Likely Source of Contamination
Haloacetic Acids (HAA5)*	2016	44	11-44	No goal for the total	60	ppb	N	By-product of drinking water disinfection.
Total Trihalomethanes (TTHM)	2016	62	35-71.2	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
Aluminum	2016	0.059	.028-.059	No goal for the total	0.2	ppm	N	Discharge of drilling wastes; Discharge from metal refineries; Erosion of natural deposits.
Arsenic	2016	.0007	0-.0007	No goal for the total	10	ppb	N	Erosion of natural deposits; Runoff from orchards; Runoff from glass and electronics products waste.
Barium	2016	0.037	.031-.037	2	2	ppm	N	Discharge of drilling wastes; Discharge from metal refineries; Erosion of natural deposits.
Chromium	2016	.00083	.00042-.00083	100	100	ppb	N	Discharge from steel and pulp mills; Erosion of natural deposits.
Cyanide	2016	0.573	.531-.573	200	200	ppb	N	Discharge from plastic and fertilizer factories; Discharge from steel/metal factories.
Fluoride	2016	0.796	0.733-0.796	4	4	ppm	N	Erosion of natural deposits; Water additive which promotes strong teeth; Discharge from fertilizer and aluminum factories.
Manganese	2016	.00017	.00012-.00017	No goal for the total	.05	ppm	N	Manganese compounds may be present in the atmosphere as suspended particulates resulting from industrial emissions, soil erosion
Mercury	2016	.000189	0-.000189	No goal for the total	2	ppb	N	Erosion of natural deposits; Discharge from refineries and factories; Runoff from landfills; Runoff from cropland.
Nickel	2016	.0011	.00079-.0011	No goal for the total	0.1	ppm	N	The primary source of nickel in drinking water is leaching from metals in contact with drinking water, such as pipes and fittings.

Nitrate (Measured as Nitrogen)	2016	0.396	0.081-.396	10	10	ppm	N	Runoff from fertilizer use; Leaching from septic tanks, sewage; Erosion of natural deposits.
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Radio Active Contaminants

*EPA considers 50 pCi/L to be the level of concern for beta particles

Radioactive Contaminants	Collection D	Highest level detected	Range of levels detected	MCLG	MCL	Units	Violation	Likely source of contamination
Combined Radium 226/228	01/26/2011	1	1 - 1	0	5	pCi/L	N	Erosion of natural deposits.
Beta/photon emitters	1/26/2011	4.7	0-4.7	0	5	pCi/L	N	Decay of natural and man made 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
Di (2-ethylhexyl) phthalate	2016	0.8	0 -0.8	0	6	ppb	N	Discharge from rubber and chemical factories

Turbidity

	Limit (Treatment Technique)	Level Detected	Violation	Likely Source of Contamination
Highest Single Measurement	1 NTU	0.29	N	Soil Runoff
Lowest Monthly % meeting Limit	0.3 NTU	100%	N	Soil Runoff

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.

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 TOC violation is noted in the violations section

.2016 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	0	0	0	N	Naturally present in the environment