

BAYBROOK M.U.D. No. 1

PWS ID # 1012698

2015 Annual Drinking Water Quality Report

Phone No: 281-350-0895

En Español

Este reporte incluye informacion importante sobre el agua para tomar. Para asistencia en espanol, por favor llame al telefono 281-350-0895.

OUR DRINKING WATER IS SAFE

This report is a summary of the quality of the water we provide to our customers. The analysis was made by using the data from the most recent U.S. Environmental Agency (USEPA) required tests and is presented in the following tables. We hope this information helps you become more knowledgeable about your drinking water.

Public Participation Opportunities concerning your water system may be made at regularly scheduled meeting on the fourth Tuesday of each month at 11:30 a.m., 3200 Southwest Freeway, suite 2600, Houston, Texas, or you may contact Robert Ring at TNG Utility Corp., phone # 281-350-0895, with any questions or concerns you may have.

Where do we get your drinking water?

Our drinking water is obtained from surface water sources, and is provided by the City of Houston's Southeast Water Purification Plant (Entry Point 002).

The Texas Commission of Environmental Quality is currently updating our Source Water Susceptibility Assessment Report and it should be available later this year. The report will describe the susceptibility and types of constituents that may come in contact with our drinking water source based on human activities and natural conditions. The information contained in the assessment will allow us to focus our source water protection strategies. For more information on source water assessments and protection efforts of our system, feel free to call us.

Water Sources: Other sources of drinking water (both tap water and bottled water) can 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.

Contaminants that may be present in source water include: (i) microbial contaminants, such as viruses and bacteria, which may come from sewage treatment plants, septic systems, agricultural livestock operations, and wildlife; (ii) inorganic contaminants, such as salts and metals, which can be naturally-occurring or result from urban stormwater runoff, industrial or domestic wastewater discharges, oil and gas production, mining, or farming; (iii) pesticides and herbicides, which might

have a variety of sources such as agriculture, urban storm water runoff, and residential uses; (iv) 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 stormwater runoff, and septic systems; and (v) radioactive contaminants, which can be naturally-occurring or the result of oil and gas production and mining activities.

A Special Notice for the ELDERLY, INFANTS, CANCER PATIENTS, people with HIV/AIDS or other immune Problems:

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; those 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 provider. Additional guidelines on appropriate means to lessen the risk of infection by *Cryptosporidium* are available from the Safe Drinking Water Hotline (800-426-4791).

EPA website: www.epa.gov/safewater

All Drinking Water may Contain Contaminants

When drinking water meets federal standards there may not be any health based benefits to purchasing bottled water or point of use devices.

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 USEPA's Safe Drinking Water Hotline at (800-426-4791).

In order to ensure that the tap water is safe to drink, the USEPA prescribes regulations that limit the amount of certain contaminants in water provided by public water systems. Food and Drug Administration regulations establish limits for contaminants in bottled water that must provide the same protection for public health.



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About the Following Table

The following table contains all of the federally regulated or monitored chemical constituents which have been found in your drinking water. USEPA requires water systems to test up to 97 constituents. The data presented in the report is from the most recent testing done in accordance with the regulations.

Abbreviations and Definitions

Maximum Contaminant Level (MCL) - The highest permissible level of a contaminant in drinking water. MCL's are set as close to the MCLG's as feasible using the best available treatment technology.

Maximum Contaminant Level Goal (MCLG) - The level of contaminant in drinking water below which there is no known or expected health risk. MCLG's allow for a margin of safety.

Maximum Residual Disinfectant Level (MRDL) - The highest level of 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 use of disinfectants to control microbial contamination.

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

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

ppm - parts per million (*one part per million corresponds to one minute in two years or a single penny in \$10,000*)

ppb - parts per billion (*one part per billion corresponds to one minute in 2,000 years or a single penny in \$10,000,000*)

pCi/l - pico curies per liter (*a measure of radioactivity*)

N/A - not applicable

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Inorganic Contaminants:

Year	Constituent	Highest of All Sampling Points	Range of Detected Levels	MCL	MCLG	Unit of Measure	In Compliance	Source of Contaminant
2015	Nitrate	0.27	0.27 - 0.27	10	10	ppm	Yes	Erosion of natural deposits.
2014	Fluoride	0.43	0.43 - 0.43	1	1	ppm	Yes	Erosion of natural deposits.
2014	Barium	0.05	0.05 - 0.05	2	2	ppm	Yes	Erosion of natural deposits.

Disinfectant Residuals:

Year	Constituent	Average Level	Range of Detected Levels	MCL	MCLG	Unit of Measure	In Compliance	Source of Contaminant
2015	Chloramine	0.97	0.35 - 1.94	4	4	ppm	Yes	Disinfectants used to control microbes.

Unregulated Contaminants:

Year	Constituent	Average Level	Range of Detected Level	Unit of Measure	In Compliance	Source of Contaminant
2014	Chloroform	67	14 - 163	ppb	Yes	Byproduct of drinking water disinfection.
2014	Bromoform	0.94	0.0 - 1.8	ppb	Yes	Byproduct of drinking water disinfection.
2014	Bromodichloromethane	13.6	13.1 - 14.0	ppb	Yes	Byproduct of drinking water disinfection.
2014	Dibromochloromethane	9.9	3.9 - 19.9	ppb	Yes	Byproduct of drinking water disinfection.

Regulated Contaminants:

Year	Constituent	Average Level	Range of Detected Levels	MCL	MCLG	Unit of Measure	In Compliance	Source of Contaminant
2015	Haloacetic Acids	101	29.5 - 44	60	n/a	ppb	Yes	Byproduct of drinking water disinfection.
2015	Trihalomethanes	123	32.6-43.8	80	n/a	ppb	Yes	Byproduct of drinking water disinfection.

*Violation - The average levels for both Haloacetic Acids and Trihalomethanes has exceeded the Maximum Contaminant level set by the State of Texas therefore we have received violations in regards to these exceedences. We have been working to resolve these issues by flushing the water in your system and as of May 2015 Baybrook MUD is back in compliance with the TCEQ.

Synthetic Organic Contaminants:

Year	Constituent	Highest Detected Level at any Sampling Point	Range of Detected Levels	MCL	MCLG	Unit of Measure	In Compliance	Source of Contaminant
2014	Atrazine	0.18	0.18 - 0.18	3	3	ppb	Yes	Runoff from herbicide used on row crops.

Lead and Copper: - These samples are taken from the customer taps.

Year	Constituent	The 90th Percentile	Number of Sites Exceeding Action Level	Action Level	Unit of Measure	Source of Constituent
2014	Lead	2.7	0	15	ppb	Corrosion of household plumbing systems; Natural erosion.
2014	Copper	1	2	1.3	ppm	Corrosion of household plumbing systems; Natural erosion.

The 90th percentile of the Lead/ Copper analysis means the top 10% (highest sample results) of all samples collected



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Secondary Constituents

Many constituents (such as calcium, sodium, or iron) which are often found in drinking water, can cause taste, color, and odor problems. The taste and odor constituents are called secondary constituents and are regulated by the State of Texas, not USEPA. These constituents are not causes for health concerns, but may greatly affect the appearance and taste of your water.

Secondary and Other Non-Regulated Constituents: - No associated adverse health effects with the following:

Year	Constituent	Average Level	Range of Detected Levels (low - high)	Limit	Unit of Measure	In Compliance	Source of Contaminant
2014	Bicarbonate	100	100 - 100	N/A	ppm	Yes	Corrosion of carbonate rocks such as limestone.
2014	Calcium	42.6	42.6 - 42.6	N/A	ppm	Yes	Abundant naturally occurring element.
2014	Chloride	42	42 - 42	300	ppm	Yes	Abundant naturally occurring element; used in water purification; byproduct of oil field activity.
2014	Copper	0.331	0.331 - 0.331	1	ppm	Yes	Corrosion of household plumbing system; erosion of natural deposits
2014	Magnesium	4.03	4.03 - 4.03	N/A	ppm	Yes	Abundant naturally occurring element.
2014	Manganese	0.0091	0.0091 - 0.0091	50	ppb	Yes	Abundant naturally occurring element.
2014	pH	7.8	7.8 - 7.8	>7.0	units	Yes	Measure of corrosivity of water.
2014	Sodium	28.1	28.1 - 28.1	N/A	ppm	Yes	Erosion of natural deposits; byproducts of oil field activity.
2014	Sulfate	54	54 - 54	300	ppm	Yes	Naturally occurring; common industrial byproduct; byproduct of oil field activity.
2014	Total Alkalinity as CaCO ₃	82	82 - 82	N/A	ppm	Yes	Naturally occurring soluble mineral salts.
2014	Total Dissolved Solids	232	232 - 232	1000	ppm	Yes	Total dissolved mineral constituents in water.
2014	Zinc	0.0074	0.0074 - 0.0074	5	ppm	Yes	Moderately abundant naturally occurring element

Total Coliform: MONTHLY TESTS FOUND NO COLIFORM BACTERIA

Organics: TESTING WAIVED, NOT REPORTED, OR NONE DETECTED

Fecal Coliform: MONTHLY TESTS FOUND NO FECAL COLIFORM BACTERIA

Turbidity: TESTING WAIVED, NOT REPORTED, OR NONE DETECTED

Recommended Additional Health Information for Lead in Drinking Water - All water systems are required by the EPA to report the language below starting with the 2009 Drinking Water Quality Report to be delivered to you by July of 2010. We are providing this information now as a courtesy.

“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. This water supply is responsible for providing high quality drinking water, but cannot control the variety of materials used in home 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 by an approved laboratory. 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>.”

The drinking water produced by your District exceeds the minimum water quality standards as established by the USEPA.

Your water  is safe to Drink!



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Haloacetic Acids (HAAS)*			
Some people who drink water containing haloacetic 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	1/01/15	3/31/15	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.
MONITORING, ROUTINE (DBP), MAJOR	1/1/2014	3/31/2014	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 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
OCCT/SOWT RECOMMENDATION/STUDY (LCR)	4/1/2014	2015	We failed to propose treatment to our regulator in response to results that indicate our water needs treatment to reduce lead and/or copper levels.

Public Notification Rule			
The Public Notification Rule helps to ensure that consumers will always know if there is a problem with their drinking water. These notices immediately alert consumers if there is a serious problem with their drinking water (e.g., a boil water emergency).			
Violation Type	Violation Begin	Violation End	Violation Explanation
PUBLIC NOTICE RULE LINKED TO VIOLATION	1/1/2014	3/31/2014	We failed to adequately notify you, our drinking water consumers, about a violation of the drinking water regulations.
PUBLIC NOTICE RULE LINKED TO VIOLATION	12/19/2014	1/22/2015	We failed to adequately notify you, our drinking water consumers, about a violation of the drinking water regulations.

**TNG Utility Corp.
P.O. Box 2749
Spring, TX 77383**



2015 Drinking Water Quality Report Enclosed

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