

Jackrabbit Road Public Utility District

2015 Drinking Water Quality Report

DEAR CUSTOMER:

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.

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; 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 at (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 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>.

The source of drinking water used by Jackrabbit PUD is both ground water from the Evangeline Aquifer and purchased surface water from the West Harris County Regional Water Authority.

The 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 Confidence Report. For more information on source water assessments and protection efforts at our system, contact Mirna Bonilla-Odums, Severn Trent Services.

Further details about sources and source water assessments are available in Drinking Water Watch at the following URL: <http://dww.tceq.state.tx.us/DWW/>.

The sources of drinking water (both tap water and bottled water) generally 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 contaminants that may be present in source water:

- 1) Microbial contaminants, such as viruses and bacteria, which may come from sewage treatment plants, septic systems, agricultural livestock operations, and
- 2) 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.
- 3) Pesticides and herbicides, which may come from a variety of sources such as agriculture, urban stormwater runoff, and residential uses.
- 4) 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.
- 5)

Radioactive contaminants, which can be naturally- occurring or be the result of oil and gas production and mining 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.

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 the EPA. These constituents are not causes for health concern. Therefore, secondaries are not required to be reported in this document but they may greatly affect the appearance and taste of your water. The pages that follow list all of the federally regulated or monitored contaminants which have been found in your drinking water. The U.S. EPA requires water systems to test for up to 97 contaminants.

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 district's operator, Severn Trent Services.

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 EPA's Safe Drinking Water Hotline (1-800-426-4791).

Public input concerning the water system may be made at regularly scheduled meetings, generally held at 7:00 PM on the 2nd Tuesday of the month at 16720 Pine Forest Lane, Houston, TX 77084. You may also contact Mirna Bonilla-Odums, Severn Trent Services, at 281-646-2359 with any concerns or questions you may have regarding this report.

Este reporte incluye informacion importante sobre el agua para tomar. Si tiene preguntas o discusiones sobre este reporte en espanol, favor de llamar al tel. (281) 579-4507 para hablar con una persona bilingue en espanol.

Jackrabbit Road PUD submitted to the Texas Water Development Board a Water Loss Audit for the 2015 calendar year. Our system lost an estimated 16,176,744 gallons of water. If you have any questions about the water loss audit please call Severn Trent Services at 281-646-2359.

Definitions & Abbreviations:

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 Contaminant Level (MCL): The highest level of a contaminant that is allowed in drinking water. MCLs are set as close to MCLGs as feasible using the best available treatment technology.

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 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.

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

Parts per million (ppm): The equivalent of milligrams per liter (mg/l) is analogous to 1 minute in 2 years.

Parts per billion (ppb): The equivalent of micrograms per liter (µg/l) is analogous to 1 second in 32 years.

Picocuries per liter (pCi/L): A measure of radioactivity.

N/A: Not applicable.

NTU: Nephelometric Turbidity Units.



Substance	Unit of Measure	Year	MCL	Average Level Detected	Minimum - Maximum Level Detected	MCLG	In Compliance	Typical Sources
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Radioactive Contaminants (Regulated at the Water Plant)

Combined Radium	pCi/L	2012	5	6.15	5.7 - 6.6	0	No	Erosion of natural deposits.
Health Effects: Some people who drink water containing radium 226 or 228 in excess of the MCL over many years may have an increased risk of getting cancer.								
Uranium	pCi/L	2012	30	9.7	8.7 - 10.7	0	Yes	Erosion of natural deposits.
Gross Alpha	pCi/L	2012	15	26.9	20.6 - 33.9	0	No	Erosion of natural deposits.
Health Effects: Certain minerals are radioactive and may emit a form of radiation known as alpha radiation. Some people who drink water containing alpha emitters in excess of the MCL over many years may have an increased risk of getting cancer.								
Gross Beta	pCi/L	2012	50	13.2	12.8 - 13.6	0	Yes	Decay of natural and man-made deposits.

Synthetic Organic Contaminants Including Pesticides and Herbicides

Simazine	ppb	2013	4	0.09	0 - 0.13	4	Yes	Herbicide runoff.
Atrazine	ppb	2014	3	0.15	0.14 - 0.15	3	Yes	Runoff from herbicide used on row crops.

Volatile Organic Contaminants

Toluene	ppm	2011	1	0.0014	0.0014 - 0.0014	1	Yes	Discharge from petroleum factories.
Xylenes	ppm	2013	10	0.0006	0.0006 - 0.0006	10	Yes	Discharge from petroleum factories.

Unregulated Contaminants

Dibromochloromethane	ppb	2015	N/A	9.1	1.8 - 20	N/A	Yes	By-product of drinking water disinfection.
Chloroform	ppb	2015	N/A	15.53	8.8 - 27.6	N/A	Yes	By-product of drinking water disinfection.
Bromoform	ppb	2015	N/A	3.3	2.5 - 3.3	N/A	Yes	By-product of drinking water disinfection.
Bromodichloromethane	ppb	2015	N/A	12.33	4.5 - 25	N/A	Yes	By-product of drinking water disinfection.

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.

Inorganic Contaminants (Regulated at the Water Plant)

Nitrate	ppm	2015	10	0.6	0.48 - 0.71	10	Yes	Runoff from fertilizer use; leaching from septic tanks, sewage; erosion of natural deposits.
Nitrite	ppm	2015	1	0.02	0.02 - 0.02	1	Yes	Natural Erosion
Fluoride	ppm	2014	4	0.27	0.26 - 0.27	4	Yes	Erosion of natural deposits; water additive which promotes strong teeth; discharge from fertilizer and aluminum factories.
Cyanide	ppb	2015	200	150	150 - 150	200	Yes	Discharge from plastic and fertilizer factories; discharge from steel/metal factories.
Barium	ppm	2014	2	0.05	0.0458 - 0.0489	2	Yes	Discharge of drilling wastes; discharge from metal refineries; erosion of natural deposits.

Disinfectant Byproducts

Haloacetic Acids (HAA5)	ppb	2015	60	43.4	29.9 - 43.4	0	Yes	By-product of drinking water disinfection.
Total Trihalomethanes	ppb	2015	80	75.9	39.7 - 75.9	0	Yes	By-product of drinking water disinfection.
Total Trihalomethanes (IDSE)	ppb	2012	80	18.75	10 - 23.1	0	Yes	Byproduct of drinking water disinfection.

This evaluation is sampling required by EPA to determine the range of total trihalomethanes and haloacetic acid in the system for future regulations. These samples are not used for compliance, and may have been collected under non-stand conditions.

Substance	Unit of Measure	Year	MRDL	Average Level Detected	Minimum - Maximum Level Detected	MRDLG	In Compliance	Typical Sources
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Maximum Residual Disinfectant Level

Chlorine Residual	ppm	2015	4.0	2.6	1.73 - 3	4.0	Yes	Water additive used to control microbes.
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Substance	Unit of Measure	Year	90th Percentile Value	EPA Action Level	Number of Results above Action Level	MCLG	In Compliance	Typical Sources
Lead and Copper (Regulated at Customers Tap)								
Lead	ppb	2013	4.97	15	1	0	Yes	Corrosion of household plumbing systems; erosion of natural deposits.
Copper	ppm	2013	0.088	1.3	0	1.3	Yes	Corrosion of household plumbing systems, erosion of natural deposits; leaching from wood preservatives.

**Our Water Supply System Received Water From
West Harris County Regional Water Authority Due To Surface Water Agreement with
West Harris County Regional Water Authority
Water Quality Results are Listed Below**

Substance	Unit of Measure	Year	MCL	Average Level Detected	Minimum - Maximum Level Detected	MCLG	In Compliance	Typical Sources
Unregulated Contaminants								
Dibromochloromethane	ppb	2015	N/A	3.4	3.4 - 3.4	N/A	Yes	By-product of drinking water disinfection.
Chloroform	ppb	2015	N/A	20	20 - 20	N/A	Yes	By-product of drinking water disinfection.
Bromodichloromethane	ppb	2015	N/A	9	9 - 9	N/A	Yes	By-product of drinking water disinfection.

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.

Inorganic Contaminants (Regulated at the Water Plant)

Nitrate	ppm	2015	10	0.59	0.59 - 0.59	10	Yes	Runoff from fertilizer use; leaching from septic tanks, sewage; erosion of natural deposits.
Nitrite	ppm	2015	1	0.03	0.03 - 0.03	1	Yes	Natural Erosion

Disinfectant Byproducts

Haloacetic Acids (HAA5)	ppb	2015	60	20.5	20.5 - 20.5	0	Yes	By-product of drinking water disinfection.
Total Trihalomethanes	ppb	2015	80	32.4	32.4 - 32.4	0	Yes	By-product of drinking water disinfection.

Substance	Unit of Measure	Year	MRDL	Average Level Detected	Minimum - Maximum Level Detected	MRDLG	In Compliance	Typical Sources
Maximum Residual Disinfectant Level								
Chlorine Residual	ppm	2015	4.0	2.93	2.15 - 3.39	4.0	Yes	Water additive used to control microbes.



**Our Water Supply System Received Water From
City of Houston Due to Surface Water Agreement with West Harris County Regional
Water Authority
Water Quality Results are Listed Below**

Substance	Unit of Measure	Year	MCL	Average Level Detected	Minimum - Maximum Level Detected	MCLG	In Compliance	Typical Sources
Radioactive Contaminants (Regulated at the Water Plant)								
Combined Radium	pCi/L	2015	5	2.32	1.5 - 3.2	0	Yes	Erosion of natural deposits.
Uranium	pCi/L	2015	30	3.57	1.4 - 7.8	0	Yes	Erosion of natural deposits.
Gross Alpha	pCi/L	2015	15	7.56	3 - 10.4	0	Yes	Erosion of natural deposits.
Gross Beta	pCi/L	2015	50	4.93	4.6 - 5.6	0	Yes	Decay of natural and man-made deposits.
Synthetic Organic Contaminants Including Pesticides and Herbicides								
Di(2-ethylhexyl)phthalate	ppb	2015	6	2.72	0.76 - 6.2	0	Yes	Discharge from rubber and chemical factories.
Simazine	ppb	2015	4	0.14	0.08 - 0.23	4	Yes	Herbicide runoff.
Atrazine	ppb	2015	3	0.17	0.1 - 0.25	3	Yes	Runoff from herbicide used on row crops.
Volatile Organic Contaminants								
Xylenes	ppm	2015	10	0.0009	0.0005 - 0.0022	10	Yes	Discharge from petroleum factories.
Unregulated Contaminants								
Dibromochloromethane	ppb	2015	N/A	2.09	1.2 - 2.8	N/A	Yes	By-product of drinking water disinfection.
Chloroform	ppb	2015	N/A	29.15	8.5 - 46	N/A	Yes	By-product of drinking water disinfection.
Chloromethane	ppm	2015	N/A	0.0031	0.0031 - 0.0031	N/A	Yes	
Availability of Unregulated Contaminant Monitoring Rule Data (UCMR) We participated in gathering data under the UCMR in order to assist EPA in determining the occurrence of possible drinking water contaminants. If any unregulated contaminants were detected, they are shown in the tables elsewhere in this report. This data may also be found on EPA's web site at http://www.epa.gov/safewater/data/ncod.html , or you can call the Safe Drinking Water Hotline at 1-800-426-4791								
Bromoform	ppb	2015	N/A	2.2	2.2 - 2.2	N/A	Yes	By-product of drinking water disinfection.
Bromodichloromethane	ppb	2015	N/A	8.47	1.7 - 15	N/A	Yes	By-product of drinking water disinfection.
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.								
Inorganic Contaminants (Regulated at the Water Plant)								
Nitrate	ppm	2015	10	0.25	0.01 - 0.85	10	Yes	Runoff from fertilizer use; leaching from septic tanks, sewage; erosion of natural deposits.
Nitrite	ppm	2015	1	0.01	0.01 - 0.01	1	Yes	Natural Erosion
Fluoride	ppm	2015	4	0.28	0.18 - 0.34	4	Yes	Erosion of natural deposits; water additive which promotes strong teeth; discharge from fertilizer and aluminum factories.
Cyanide	ppb	2015	200	55	40 - 80	200	Yes	Discharge from plastic and fertilizer factories; discharge from steel/metal factories.



Arsenic	ppb	2015	10	3.97	2.9 - 5.4	0	Yes	Erosion of natural deposits; runoff from orchards; runoff from glass, and electronics production wastes.
Barium	ppm	2015	2	0.3	0.0465 - 3.6	2	Yes	Discharge of drilling wastes; discharge from metal refineries; erosion of natural deposits.
Selenium	ppb	2015	50	4	4 - 4	50	Yes	Erosion of natural deposits.
<u>Turbidity</u>								
Turbidity	NTU	2015	1	0.23	0.08 - 0.46	N/A	Yes	Soil runoff.

Turbidity has no health effects. However, turbidity can interfere with disinfection and provide a medium for microbial growth. Turbidity may indicate the presence of disease-causing organisms. These organisms include bacteria, viruses, and parasites that can cause symptoms such as nausea, cramps, diarrhea and associated headaches.

