

**2013 Annual Drinking Water Quality Report  
(Consumer Confidence Report)**

Deer Run Water System  
PWS # TX1700700  
936-756-7400

Annual Water Quality Report for the period of January 1 to December 31, 2013

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.

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 call the EPAs Safe Drinking Water Hotline at (800) 426-4791.

For more information regarding this report contact:

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**En Español** : Este informe incluye información importante sobre el agua potable. Si tiene preguntas o comentarios sobre éste informe en español, favor de llamar al tel. (936) 756-7400 para hablar con una persona bilingüe en español.

**SPECIAL NOTICE**

**Required language for ALL community public water supplies:**

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; 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 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 pick-up substances resulting from the presence of: Contaminants that may be present in source

- Microbial contaminants, such as viruses and bacteria, which may come from sewage treatment plants, septic systems, agricultural livestock operations, and
- 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
- 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.

**Information about 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 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.

**Information about Source Water Assessments:** A Source Water Susceptibility Assessment for your drinking water sources(s) is currently being updated by the Texas Commission on Environmental Quality. This information describes the susceptibility and types of constituents that may come into contact with your drinking water sources based on human activities and natural conditions. The information contained in the assessment allows us to focus source water protection strategies.

For more information about your sources of water, please refer to the Source Water Assessment Viewer available at the following URL:

<http://gis3.tceq.state.tx.us/swav/Controller/index.jsp?wtrsrc=>

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

**Water Quality Test Results**

Maximum Contaminant Level Goal or	-The level of a contaminant in drinking water below which there is no known or expected risk to health. MGLGs allow for a margin of safety.
Maximum Contaminant Level or MCL:	-The highest level of a contaminant that is allowed in drinking water. MCLs are not as close to the MCLGs as feasible using the best available treatment technology.
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.
Avg:	-Regulatory compliance with some MCLs are based on running annual average of monthly samples
ppm:	-milligrams per liter or parts per million – or one ounce in 7,350 gallons of water
ppb:	-micrograms per liter or parts per billion – or one ounce in 7,350 gallons of water
na:	not applicable
<b>Definitions::</b>	<b>The following tables contain scientific terms and measures, some of which may require explanation</b>

**Coliform Bacteria**

Collection Date	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
01/01/2013 12/31/2013	0	1 positive monthly sample	There were no TCR detections for this system in this CCR period	0	0	N	Naturally present in the environment.

**Regulated Contaminants**

Collection Date	Disinfectants and Disinfection ByProducts	Highest Level Detected	Range of Levels Detected	MCLG	MCL	Units of Measure	Violations	Likely Source of Contaminant
01/01/2011	Haloacetic Acids (HAAS)*	Levels lower than detect level	0 - 0	No goal for the total	60	ppb	N	By-product of drinking water chlorination.

Not all sample results may have been used for calculating the Highest Level Detected because some results may be part of an evaluation to determine where compliance sampling should occur in the future

01/01/2011	Total Trihalomethanes (TTHm)	Levels lower than detect level	0 - 0	No goal for the total	80	ppb	N	By-product of drinking water chlorination..
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Not all sample results may have been used for calculating the Highest Level Detected because some results may be part of an evaluation to determine where compliance sampling should occur in the future

**Inorganic Contaminants**

Collection Date	Disinfectants and Disinfection ByProducts	Highest Level Detected	Range of Levels Detected	MCLG	MCL	Units of Measure	Violations	Likely Source of Contaminant
03/12/2009	Antimony	Levels lower than detect level	0 - 0	6	6	ppb	N	Discharge from petroleum refineries; fire retardants; ceramics; electronics; solder; test addition.
03/12/2009	Arsenic	3.1	3.1 - 3.1	0	10	ppb	N	Erosion of natural deposits; Runoff from orchards; Runoff from glass and electronics production wastes.
03/12/2009	Barium	0.273	0.273 - 0.273	2	2	ppm	N	Discharge of drilling wastes; Discharge from metal refineries; Erosion of natural deposits
03/12/2009	Beryllium	Levels lower than detect level	0 - 0	4	4	ppb	N	Discharge from metal refineries and coal-burning factories; Discharge from electrical, aerospace and defense.
03/12/2009	Cadmium	Levels lower than detect level	0 - 0	5	5	ppb	N	Corrosion of galvanized pipes; Erosion of natural deposits; Discharge from metal refineries; runoff from waste batteries.
03/12/2009	Chromium	Levels lower than detect level	0 - 0	100	100	ppb	N	Discharge from steel and pulp mills; Erosion of natural deposits.
04/24/2012	Fluoride	0.31	0.31-0.31	4	4	ppm	N	Erosion of natural deposits; Water additive which promotes strong teeth; Discharge from fertilizer and aluminum.
03/12/2009	Mercury	Levels lower than detect level	0 - 0	2	2	ppb	N	Erosion of natural deposits; Discharge from refineries and factories; Runoff from landfills; Runoff from cropland.
2012	Nitrate (measured as Nitrogen)	Levels lower than detect level	0 - 0	10	10	ppm	N	Runoff from fertilizer use; Leaching from septic tanks, sewage; Erosion of natural deposits.
Nitrate Advisory – Nitrate in drinking water at levels above 10 ppm is a health risk for infants or less than six months of age. High nitrate levels in drinking water can cause blue baby syndrome. Nitrate levels may rise quickly for short periods of time because of rainfall or agricultural activity. If you are caring for an infant you should ask advice from your health care provider.								
03/12/2009	Selenium	Levels lower than detect level	0 - 0	50	50	ppb	N	Discharge from petroleum and metal refineries; Erosion of natural deposits; Discharge from mines.
03/12/2009	Thallium	Levels lower than detect level	0 - 0	0.5	2	ppb	N	Discharge from electronics, glass, and Leaching from ore-processing sites; drug factories.

**Radioactive Contaminants**

Collection Date	Disinfectants and Disinfection ByProducts	Highest Level Detected	Range of Levels Detected	MCLG	MCL	Units of Measure	Violations	Likely Source of Contaminant
4/24/2012	Beta/photon emitters	19.8	19.8- 19.8	0	50	pCi/L *	N	Decay of natural and man-made deposits.
2012	Gross alpha excluding radon and uranium	2	2 - 2	0	15	pCi/L *	N	Erosion of natural deposits.
4/24/2012	Combined Radium 226/228	2.2	2.2- 2.2	0	5	pCi/L	N	Erosion of natural deposits.
4/24/2012	Gross Alpha Compliance	2.2	2.2- 2.2	0	15	pCi/L	N	Erosion of natural deposits.

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

**Synthetic Organic Contaminants including pesticides**

Collection Date	Disinfectants and Disinfection ByProducts	Highest Level Detected	Range of Levels Detected	MCLG	MCL	Units of Measure	Violations	Likely Source of Contaminant
03/08/11	Alachlor	Levels lower than detect level	0 - 0	0	2	ppb	N	Runoff from herbicide used on row crops.
03/08/11	Atrazine	Levels lower than detect level	0 - 0	3	3	ppb	N	Runoff from herbicide used on row crops.
2010	Benzo (a) pyrene	Levels lower than detect level	0 - 0	0	200	ppt	N	Leaching from linings of water storage tanks and distribution lines.
2010	Chlordane	Levels lower than detect level	0 - 0	0	2	ppb	N	Residue of banned termiticide.
08/05/2010	Dalapon	Levels lower than detect level	0 - 0	200	200	ppb	N	Runoff from herbicide used on rights of way.
2010	Di (2-ethylhexyl) adipate	Levels lower than detect level	0 - 0	400	400	ppb	N	Discharge from chemical factories.
2010	Di (2-ethylhexyl) phthalate	Levels lower than detect level	0 - 0	0	6	ppb	N	Discharge from rubber and chemical factories..
02/22/2006	Dibromochloropropane (DBCP)	Levels lower than detect level	0 - 0	0	0	ppt	N	Runoff/leaching from soil fumigant used on soybeans, cotton, pineapples, and orchards.
2010	Endrin	Levels lower than detect level	0 - 0	2	2	ppb	N	Residue of banned insecticide.

02/22/2006	Ethylene dibromide	Levels lower than detect level	0 – 0	0	50	ppt	N	Discharge from petroleum refineries.
2010	Heptachlor	Levels lower than detect level	0 – 0	0	400	ppt	N	Residue of banned termiticide.
2010	Heptachlor epoxide	Levels lower than detect level	0 – 0	0	200	ppt	N	Breakdown of heptachlor.
2010	Hexachlorobenzene	Levels lower than detect level	0 – 0	0	1	ppb	N	Discharge from metal refineries and agricultural chemical factories.
2010	Hexachlorocyclopentadiene	Levels lower than detect level	0 – 0	50	50	ppb	N	Discharge from chemical factories.
2010	Lindane	Levels lower than detect level	0 – 0	200	200	ppt	N	Runoff/leaching from insecticide used on cattle, lumber, gardens.
2010	Methoxychlor	Levels lower than detect level	0 – 0	40	40	ppb	N	Runoff/leaching from insecticide used on fruits, vegetables, alfalfa, livestock.
2010	Pentachlorophenol	Levels lower than detect level	0 – 0	0	1	ppb	N	Discharge from wood preserving factories.
2010	Simazine	Levels lower than detect level	0 – 0	4	4	ppb	N	Herbicide runoff.
2010	Toxaphene	Levels lower than detect level	0 – 0	0	3	ppb	N	Runoff/leaching from insecticide used on cotton and cattle.

#### Volatile Organic Contaminants

Collection Date	Disinfectants and Disinfection ByProducts	Highest Level Detected	Range of Levels Detected	MCLG	MCL	Units of Measure	Violations	Likely Source of Contaminant
2/22/2006	1,1,1 - Trichloroethane	Levels lower than detect level	0 – 0	200	200	ppb	N	Discharge from metal degreasing sites and other factories.
2/22/2006	1,1,2 - Trichloroethane	Levels lower than detect level	0 – 0	3	5	ppb	N	Discharge from industrial chemical factories.
2/22/2006	1,1 - Dichloroethylene	Levels lower than detect level	0 – 0	7	7	ppb	N	Discharge from industrial chemical factories.
2/22/2006	1,2,4 - Trichlorobenzene	Levels lower than detect level	0 – 0	70	70	ppb	N	Discharge from textile-finishing factories.
2/22/2006	1,2 - Dichloroethane	Levels lower than detect level	0 – 0	0	5	ppb	N	Discharge from industrial chemical factories.
2/22/2006	1,2 - Dichloropropane	Levels lower than detect level	0 – 0	0	5	ppb	N	Discharge from industrial chemical factories.
2/22/2006	Benzene	Levels lower than detect level	0 – 0	0	5	ppb	N	Discharge from factories; Leaching from gas storage tanks and landfills.
2/22/2006	Carbon Tetrachloride	Levels lower than detect level	0 – 0	0	5	ppb	N	Discharge from chemical plants and other industrial activities.
2/22/2006	Chlorobenzene	Levels lower than detect level	0 – 0	100	100	ppb	N	Discharge from chemical and agricultural chemical factories.
2/22/2006	Dichloromethane	Levels lower than detect level	0 – 0	0	5	ppb	N	Discharge from pharmaceutical and chemical factories.
2/22/2006	Ethylbenzene	Levels lower than detect level	0 – 0	700	700	ppb	N	Discharge from petroleum refineries.
2/22/2006	Styrene	Levels lower than detect level	0 – 0	100	100	ppb	N	Discharge from rubber and plastic factories; Leaching from landfills.
2/22/2006	Tetrachloroethylene	Levels lower than detect level	0 – 0	0	5	ppb	N	Discharge from factories and dry cleaners.
2/22/2006	Toluene	Levels lower than detect level	0 – 0	1	1	ppm	N	Discharge from petroleum factories.
2/22/2006	Trichloroethylene	Levels lower than detect level	0 – 0	0	5	ppb	N	Discharge from metal degreasing sites and other factories.
8/5/2010	Vinyl Chloride	Levels lower than detect level	0 – 0	0	2	ppb	N	Leaching from PVC piping; Discharge from plastics factories.
2/22/2006	Cis – 1,2 - Dichloroethylene	Levels lower than detect level	0 – 0	70	70	ppb	N	Discharge from industrial chemical factories.
2/22/2006	o – Dichlorobenzene	Levels lower than detect level	0 – 0	600	600	ppb	N	Discharge from industrial chemical factories.
2/22/2006	p – Dichlorobenzene	Levels lower than detect level	0 – 0	75	75	ppb	N	Discharge from industrial chemical factories.
2/22/2006	trans – 1,2 - Dichloroethylene	Levels lower than detect level	0 – 0	100	100	ppb	N	Discharge from industrial chemical factories.