

*Annual Drinking Water Quality Report  
Town of Red River  
May 2009*

We're pleased to present to you this year's Annual Quality Water Report. This report is designed to inform you about the quality water and services we deliver to you every day. Our constant goal is to provide you with a safe and dependable supply of drinking water. We want you to understand the efforts we make to continually improve the water treatment process and protect our water resources. We are committed to ensuring the quality of your water. Our water source is ground water. Our wells pump from the Upper Rio Grande Basin, Pioneer Creek and Red River Aquifers.

We have a source water protection plan available from our office that provides more information such as potential sources of contamination.

This report shows our water quality and what it means.

If you have any questions about this report or concerning your water utility, please contact Adrian Garcia, Public Works Director, or Russell Church, Town Administrator @ 754-2277.

We want our valued customers to be informed about their water utility. If you want to learn more, please attend any of our regularly scheduled meetings. They are held on the 2<sup>nd</sup> Tuesday each month at 7:00 PM at the Red River Conference Center.

The Town of Red River routinely monitors for constituents in your drinking water according to Federal and State laws. This table shows the results of our monitoring for the period of January 1<sup>st</sup> to December 31<sup>st</sup>, 2008. As water travels over the land or underground, it can pick up substances or contaminants such as microbes, inorganic and organic chemicals, and radioactive substances. All drinking water, including bottled drinking water, may be reasonably expected to contain at least small amounts of some constituents. It's important to remember that the presence of these constituents does not necessarily pose a health risk.

In this table you will find many terms and abbreviations you might not be familiar with. To help you better understand these terms we've provided the following definitions:

*Non-Detects (ND)* - laboratory analysis indicates that the constituent is not present.

*Parts per million (ppm) or Milligrams per liter (mg/l)* - one part per million corresponds to one minute in two years or a single penny in \$10,000.

*Parts per billion (ppb) or Micrograms per liter* - one part per billion corresponds to one minute

in 2,000 years, or a single penny in \$10,000,000.

*Parts per trillion (ppt) or Nanograms per liter (nanograms/l)* - one part per trillion corresponds to one minute in 2,000,000 years, or a single penny in \$10,000,000,000.

*Parts per quadrillion (ppq) or Picograms per liter (picograms/l)* - one part per quadrillion corresponds to one minute in 2,000,000,000 years or one penny in \$10,000,000,000,000.

*Picocuries per liter (pCi/L)* - picocuries per liter is a measure of the radioactivity in water.

*Millirems per year (mrem/yr)* - measure of radiation absorbed by the body.

*Million Fibers per Liter (MFL)* - million fibers per liter is a measure of the presence of asbestos fibers that are longer than 10 micrometers.

*Nephelometric Turbidity Unit (NTU)* - nephelometric turbidity unit is a measure of the clarity of water. Turbidity in excess of 5 NTU is just noticeable to the average person.

*Action Level* - the concentration of a contaminant which, if exceeded, triggers treatment or other requirements which a water system must follow.

*Treatment Technique (TT)* - (mandatory language) A treatment technique is a required process intended to reduce the level of a contaminant in drinking water.

*Maximum Contaminant Level* - (mandatory language) The “Maximum Allowed” (MCL) is 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* - (mandatory language) The “Goal”(MCLG) is 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.

<b>TEST RESULTS</b>						
Contaminant	Violation Y/N	Level Detected	Unit Measurement	MCLG	MCL	Likely Source of Contamination
<b>Microbiological Contaminants</b>						
1. Total Coliform Bacteria	N	ND	100ml	0	presence of coliform bacteria in 5% of monthly samples	Naturally present in the environment
2. Fecal coliform and <i>E.coli</i>	N	ND	100ml	0	a routine sample and repeat sample are total coliform positive, and one is also fecal coliform or <i>E. coli</i> positive	Human and animal fecal waste
3. Turbidity	N	ND		n/a	TT	Soil runoff

<b>Radioactive Contaminants</b>						
4. Beta/photon emitters	N	1.60	mrem/yr 10-10-07	0	4	Decay of natural and man-made deposits
5. Alpha emitters	N	1.10	pCi/1 10-10-07	0	15	Erosion of natural deposits
6. Combined radium	N	.34	pCi/1 10-10-07	0	5	Erosion of natural deposits
<b>Inorganic Contaminants</b>						
7. Antimony	N	.001	Ppb 6-03-05	6	6	Discharge from petroleum refineries; fire retardants; ceramics; electronics; solder
8. Arsenic	N	.001	Ppb 6-03-05	n/a	50	Erosion of natural deposits; runoff from orchards; runoff from glass and electronics production wastes
9. Asbestos	N	0.198	MFL 1/12/05	7	7	Decay of asbestos cement water mains; erosion of natural deposits
10. Barium	N	.10	ppm- 6-3-05	2	2	Discharge of drilling wastes; discharge from metal refineries; erosion of natural deposits
11. Beryllium	N	.001	Ppb 6-3-05	4	4	Discharge from metal refineries and coal-burning factories; discharge from electrical, aerospace, and defense industries
12. Cadmium	N	.001	Ppb 6-3-05	5	5	Corrosion of galvanized pipes; erosion of natural deposits; discharge from metal refineries; runoff from waste batteries and paints
13. Chromium	N	.001	ppb- 6-3-05	100	100	Discharge from steel and pulp mills; erosion of natural deposits
14. Copper	N	0.29	ppm 9-4-08	1.3	AL=1.3	Corrosion of household plumbing systems; erosion of natural deposits; leaching from wood preservatives
15. Cyanide	N	<0.1	Ppb 6-3-05	200	200	Discharge from steel/metal factories; discharge from plastic and fertilizer factories
16. Fluoride	N	0.44	ppm- 6/3/05	4	4	Erosion of natural deposits; water additive which promotes strong teeth; discharge from fertilizer and aluminum factories
17. Lead	N	ND	Ppb 9-4-08	0	AL=15	Corrosion of household plumbing systems, erosion of natural deposits
18. Mercury (inorganic)	N	.0002	Ppb 6-3-05	2	2	Erosion of natural deposits; discharge from refineries and factories; runoff from landfills; runoff from cropland
19. Nitrate (as Nitrogen)	N	0.26	Ppm- 8-8-08	10	10	Runoff from fertilizer use; leaching from septic tanks, sewage; erosion of natural deposits
20. Nitrite (as Nitrogen)	N	0.26	ppm- 8-8-08	1	1	Runoff from fertilizer use; leaching from septic tanks, sewage; erosion of natural deposits
21. Selenium	N	.005	Ppb 6-3-05	50	50	Discharge from petroleum and metal refineries; erosion of natural deposits; discharge from mines
22. Thallium	N	.001	Ppb 6-3-05	0.5	2	Leaching from ore-processing sites; discharge from electronics, glass, and drug factories
<b>Synthetic Organic Contaminants including Pesticides and Herbicides</b>						
23. 2,4-D	N	0.1	Ppb 11-11-06	70	70	Runoff from herbicide used on row crops

24. 2,4,5-TP (Silvex)	N	0.2	Ppb 11-11-06	50	50	Residue of banned herbicide
25. Acrylamide	N	ND		0	TT	Added to water during sewage/wastewater treatment
26. Alachlor	N	0.2	Ppb 10-31-06	0	2	Runoff from herbicide used on row crops
27. Atrazine	N	0.1	Ppb 10-31-06	3	3	Runoff from herbicide used on row crops
28. Benzo(a)pyrene (PAH)	N	0.02	nanograms/l 10-24-06	0	200	Leaching from linings of water storage tanks and distribution lines
29. Carbofuran	N	0.9	Ppb 10-27-06	40	40	Leaching of soil fumigant used on rice and alfalfa
30. Chlordane	N	0.01	Ppb 10-23-06	0	2	Residue of banned termiticide
31. Dalapon	N	0.10	Ppb 11-11-06	200	200	Runoff from herbicide used on rights of way
32. Di(2-ethylhexyl) adipate	N	0.6	Ppb 11-9-06	400	400	Discharge from chemical factories
33. Di(2-ethylhexyl) phthalate	N	0.6	Ppb 11-9-06	0	6	Discharge from rubber and chemical factories
34. Dibromochloropropane	N	0.02	nanograms/l 10-23-06	0	200	Runoff/leaching from soil fumigant used on soybeans, cotton, pineapples, and orchards
35. Dinoseb	N	0.2	Ppb 11-11-06	7	7	Runoff from herbicide used on soybeans and vegetables
36. Diquat	N	0.4	Ppb 10-31-06	20	20	Runoff from herbicide use
37. Dioxin [2,3,7,8-TCDD]	N	ND	picograms/l	0	30	Emissions from waste incineration and other combustion; discharge from chemical factories
38. Endothall	N	9.00	Ppb 10-26-06	100	100	Runoff from herbicide use
39. Endrin	N	.01	Ppb 10-23-06	2	2	Residue of banned insecticide
40. Epichlorohydrin	N	ND		0	TT	Discharge from industrial chemical factories; an impurity of some water treatment chemicals
41. Ethylene dibromide	N	0.01	nanograms/l 10-23-06	0	50	Discharge from petroleum refineries
42. Glyphosate	N	6.0	Ppb 10-24-06	700	700	Runoff from herbicide use
43. Heptachlor	N	0.01	nanograms/l 10-23-06	0	400	Residue of banned termiticide
44. Heptachlor epoxide	N	0.01	nanograms/l 10-23-06	0	200	Breakdown of heptachlor
45. Hexachlorobenzene	N	0.1	Ppb 10-23-06	0	1	Discharge from metal refineries and agricultural chemical factories
46. Hexachlorocyclo- pentadiene	N	0.1	Ppb 10-23-06	50	50	Discharge from chemical factories
47. Lindane	N	0.01	nanograms/l 10-23-06	200	200	Runoff/leaching from insecticide used on cattle, lumber, gardens
48. Methoxychlor	N	0.05	Ppb 10-23-06	40	40	Runoff/leaching from insecticide used on fruits, vegetables, alfalfa, livestock
49. Oxamyl [Vydate]	N	2.00	Ppb 10-27-06	200	200	Runoff/leaching from insecticide used on apples, potatoes and tomatoes
50. PCBs [Polychlorinated biphenyls]	N	0.1	nanograms/l 10-23-06	0	500	Runoff from landfills; discharge of waste chemicals
51. Pentachlorophenol	N	0.04	Ppb 11-11-06	0	1	Discharge from wood preserving factories
52. Picloram	N	0.1	Ppb 11-11-06	500	500	Herbicide runoff

53. Simazine	N	.07	Ppb 10-31-06	4	4	Herbicide runoff
54. Toxaphene	N	0.5	Ppb 10-23-06	0	3	Runoff/leaching from insecticide used on cotton and cattle
<b>Volatile Organic Contaminants</b>						
55. Benzene	N	ND	ppb	0	5	Discharge from factories; leaching from gas storage tanks and landfills
56. Carbon tetrachloride	N	ND	ppb	0	5	Discharge from chemical plants and other industrial activities
57. Chlorobenzene	N	ND	ppb	100	100	Discharge from chemical and agricultural chemical factories
58. o-Dichlorobenzene	N	ND	ppb	600	600	Discharge from industrial chemical factories
59. p-Dichlorobenzene	N	ND	ppb	75	75	Discharge from industrial chemical factories
60. 1,2 - Dichloroethane	N	ND	ppb	0	5	Discharge from industrial chemical factories
61. 1,1 - Dichloroethylene	N	ND	ppb	7	7	Discharge from industrial chemical factories
62. cis-1,2-ichloroethylene	N	ND	ppb	70	70	Discharge from industrial chemical factories
63. trans - 1,2 - Dichloroethylene	N	ND	ppb	100	100	Discharge from industrial chemical factories
64. Dichloromethane	N	0.3	ppb 5-24-05	0	5	Discharge from pharmaceutical and chemical factories
65. 1,2-Dichloropropane	N	ND	ppb	0	5	Discharge from industrial chemical factories
66. Ethylbenzene	N	ND	ppb	700	700	Discharge from petroleum refineries
67. Styrene	N	ND	ppb	100	100	Discharge from rubber and plastic factories; leaching from landfills
68. Tetrachloroethylene	N	ND	ppb	0	5	Leaching from PVC pipes; discharge from factories and dry cleaners
69. 1,2,4 - Trichlorobenzene	N	ND	ppb	70	70	Discharge from textile-finishing factories
70. 1,1,1 - Trichloroethane	N	ND	ppb	200	200	Discharge from metal degreasing sites and other factories
71. 1,1,2 -Trichloroethane	N	ND	ppb	3	5	Discharge from industrial chemical factories
72. Trichloroethylene	N	ND	ppb	0	5	Discharge from metal degreasing sites and other factories
73. TTHM [Total trihalomethanes]	N	17.7	Ppb 7-25-08	0	100	By-product of drinking water chlorination
74. Toluene	N	ND	ppm	1	1	Discharge from petroleum factories
75. Vinyl Chloride	N	ND	ppb	0	2	Leaching from PVC piping; discharge from plastics factories
76. Xylenes	N	ND	ppm	10	10	Discharge from petroleum factories; discharge from chemical factories
77. Total Haloacetic Acids	N	ND	ppb 7-22-08	0	60	By-product of drinking water chlorination

Nitrate in drinking water at levels above 10 ppm is a health risk for infants of 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.

What does this mean?

As you can see by the table, our system had no violations. We're proud that your drinking water meets or exceeds all Federal and State requirements. We have learned through our monitoring and testing that some constituents have been detected. The EPA has determined that your water IS SAFE at these levels.

All sources of drinking water are subject to potential contamination by substances that are naturally occurring or man made. These substances can be microbes, inorganic or organic chemicals and radioactive substances. All 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 the water poses a health risk. More information about contaminants and potential health effects can be obtained by calling the Environmental Protection Agency's Safe Drinking Water Hotline at 1-800-426-4791.

MCL's are set at very stringent levels. To understand the possible health effects described for many regulated constituents, a person would have to drink 2 liters of water every day at the MCL level for a lifetime to have a one-in-a-million chance of having the described health effect.

Some people may be more vulnerable to contaminants in drinking water than the general population. Immuno-compromised persons such as persons with cancer undergoing chemotherapy, persons who have undergone organ transplants, people with HIV/AIDS or other immune system disorders, some elderly, and infants can be particularly at risk from infections. These people should seek advice about drinking water from their health care providers. EPA/CDC guidelines on appropriate means to lessen the risk of infection by cryptosporidium and other microbiological contaminants are available from the Safe Drinking Water Hotline (800-426-4791).

Please call our office if you have questions @ 754-2277

We at the Town of Red River work around the clock to provide top quality water to every tap. We ask that all our customers help us protect our water sources, which are the heart of our community, our way of life and our children's future.