



# 2008 DRINKING WATER QUALITY REPORT

## FOR THE CITY OF DENISON

**903.464.4480**

**This report is provided in response to the 1996 Safe Drinking Water Act amendments and specifically, USEPA's Consumer Confidence Rule, which became effective September 19, 1998.**

### INORGANIC

YEAR	CONTAMINANT	AVERAGE LEVEL	MIN. LEVEL	MAX. LEVEL	MCL	MCLG	UNIT OF MEASURE	SOURCE OF CONTAMINANT
2006	Barium	.132	.132	.132	2	2	ppm	Discharge of drilling wastes; Discharge from metal refineries; Erosion of natural deposits
2008	Fluoride	.62	.62	.62	4	4	ppm	Erosion of natural deposits; Water additive which promotes strong teeth; Discharge from fertilizer and aluminum factories
2008	Nitrate	0.16	0.16	0.16	10	10	ppm	Runoff from fertilizer use; Leaching from septic tanks, sewage; Erosion of natural deposits.
2008	Gross beta	4.1	4.1	4.1	50	0	pci/l	Decay of natural and man-made deposits

### TOTAL ORGANIC CARBON (SOURCE WATER)

YEAR	CONTAMINANT	AVERAGE LEVEL	MIN. LEVEL	MAX. LEVEL	SOURCE OF CONTAMINANT
2008	TOC	5.78	5.16	6.45	Naturally occurring organic (No associated adverse health effects)

### DISINFECTION BYPRODUCTS

YEAR	CONTAMINANT	AVERAGE LEVEL	MIN. LEVEL	MAX. LEVEL	MCL	UNITS OF MEASURE	SOURCE OF CONTAMINANT
2008	Total Haloacetic Acids	11.3	0	38.6	60	ppb	By-product of drinking water disinfect ion.
2008	Total Trihalomethanes	56.57	18	101.2	80	ppb	By-product of drinking water chlorination.

### DISINFECTION RESIDUALS

YEAR	CONSTITUENT	ANNUAL AVERAGE	RANGE OF DETECTION	MRDL	MCLG	UNITS	SOURCE
2008	Chloramines	2.0	0.05 - 4.0	4	0	ppm	Disinfectant used to control microbes

### UNREGULATED CONTAMINANTS

YEAR	CONTAMINANT	AVERAGE LEVEL	MIN. LEVEL	MAX. LEVEL	UNITS OF MEASURE	SOURCE OF CONTAMINANT
2008	Chloroform	18.44	3.2	27.7	ppb	By-product of drinking water disinfect ion.
2008	Bromoform	19.27	4.1	22.9	ppb	By-product of drinking water disinfect ion.
2008	Bromodichloromethane	14.07	0	28.4	ppb	By-product of drinking water disinfect ion.
2008	Dibromochloromethane	2.6	0	8.1	ppb	By-product of drinking water disinfect ion.

### LEAD AND COPPER

YEAR	CONTAMINANT	THE 90th PERCENTILE	SITES EXCEEDING ACTION LEVEL	ACTION LEVEL	UNIT OF MEASURE	SOURCE OF CONTAMINANT
2007	Lead	2.4	0	15	ppb	Corrosion of household plumbing systems; Erosion of natural deposits.
2007	Copper	0.263	0	1.3	ppm	Corrosion of household plumbing systems; Erosion of natural deposits; Leaching from wood preservatives.

### TURBIDITY

YEAR	CONTAMINANT	HIGHEST SINGLE MEASUREMENT	LOWEST MONTHLY % OF SAMPLES MEETING LIMITS	TURBIDITY LIMITS	UNITS OF MEASURE	SOURCE OF CONTAMINANT
2008	TURBIDITY	.59	98%	0.3	NTU	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.

### SECONDARY AND OTHER NOT REGULATED CONSTITUENTS (No associated adverse health effects)

YEAR	CONSTITUENT	AVERAGE	MIN.	MAX.	LIMIT	UNIT OF	SOURCE OF CONSTITUENT
2008	Bicarbonate	103	103	103	NA	ppm	Corrosion of carbonate rocks such as limestone.
2002	Calcium	62.35	46.1	78.6	NA	ppm	Abundant naturally occurring element.
2008	Chloride	154	154	154	300	ppm	Abundant naturally occurring element; used in water purification; byproduct of oil field activity.
2005	Iron	.024	.014	.038	0.3	ppm	Erosion of natural deposits; iron or steel water delivery equipment of facilities
2005	Magnesium	96	74	116	NA	ppm	Abundant naturally occurring element
2008	Ph	8.1	8.1	8.1	NA	units	Measure of corrosiveness of water.
2002	Sodium	134	129	139	NA	ppm	Erosion of natural deposits; byproduct of oil field activity.
2008	Sulfate	97.6	97.6	97.6	300	ppm	Naturally occurring; common industrial byproduct; byproduct of oil field activity
2008	Total Alkalinity as CaCO3	103	103	103	NA	ppm	Naturally occurring soluble mineral salts.
2008	Total Dissolved Solids	530	530	530	1000	ppm	Total dissolved mineral constituents in water
2008	Total Hardness as CaCO3	241	241	241	NA	ppm	Naturally occurring calcium.