

# ELK RIDGE 2011 WATER QUALITY REPORT

We are pleased to present to you the 2011 Water Quality Report. This is designed to inform you about the quality of the water and services we deliver to you every day. We are committed to provide you with a safe and dependable supply of drinking water and are pleased to report that our drinking water is safe and meets federal and state requirements.

Elk Ridge City has approximately 600 water connections. Our water is classified as ground water and comes from wells 2, 5, and 7. We have a drinking water source protection plan that is available for review. It provides information such as potential sources of contamination and our source protection zones. Since our sources are in remote locations and there are no contamination sources in the protection zones, we consider our sources to have a very low susceptibility to potential contamination events.

We have developed management strategies to further protect our sources from contamination. If you have any questions or concerns regarding this report, source protection, or our water utility, feel free to contact the office. Please help us protect our water sources, which are the heart of our community, our way of life, and our children's future. You may reach us at 801.423.2300 or call Corbett Stephens directly at 801.380.1585.

You are invited to attend the City meetings to participate in decisions that affect our water—information is available in the *Bugle* and on the City website at [www.elkridgcity.org](http://www.elkridgcity.org).

The city routinely monitors for constituents in our drinking water in accordance with federal and Utah state laws. The following table shows the results of our monitoring (note that tests are done at specified intervals, not every year):

CONSTITUENT TABLE							
CONTAMINANT	VIOL. Y/N	LEVEL DETECTED	UNIT MEAS.	MCLG	MCL	DATE SAMPLED	LIKELY SOURCE OF CONTAMINATION
<b>MICROBIOLOGICAL CONTAMINANTS</b>							
Turbidity (Ground Water)	N	1.15	NTU	N/A	5	2011	Soil runoff
<b>INORGANIC CONTAMINANTS</b>							
Arsenic	N	ND	ppb	0	10	2011	Erosion of natural deposits; runoff from orchards; runoff from glass and electronics production wastes
Barium	N	47	ppb	2000	2000	2011	Discharge of drilling wastes; discharge from metal refineries; erosion of natural deposits
Chromium	N	ND	ppb	100	100	2011	Discharge from steel and pulp mills; erosion of natural deposits
Fluoride	N	ND	ppb	4000	4000	2011	Water additive which promotes strong teeth; erosion of natural deposits; discharge from fertilizer and aluminum factories
Nitrate (as Nitrogen)	N	0.2	ppb	10000	10000	2011	Runoff from fertilizer use; leaching from septic tanks, sewage; erosion of natural deposits
Selenium	N	1	ppb	50	50	2011	Discharge from petroleum and metal refineries; erosion of natural deposits; discharge from mines
Sodium	N	3.6	ppm	20	N/A	2011	Erosion of natural deposits; discharge from refineries and factories; runoff from landfills.
Sulfate	N	20	ppm	1000	1000	2011	Erosion of natural deposits; discharge from refineries and factories; runoff from landfills, runoff from cropland
Total Dissolved Solids (TDS)	N	272	ppm	2000	2000	2011	Erosion of natural deposits
<b>RADIOLOGICAL CONTAMINANTS</b>							
Alpha emitters	N	3-6	pCi/l	0	15	2011	Erosion of natural deposits

## Definitions

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

**ND/Low-High**—For water systems using multiple sources of water, the lowest and highest values detected in all the sources are recorded in the same space in the table.

**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 (ug/l)**—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.

**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.

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

**Maximum Contaminant Level (MCL)**—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 (MCLG)**—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.

**Date**—Because of required sampling time frames, i.e., yearly, 3 years, 4 years, and 6 years, sampling dates may seem out of date.