

FOX WATERING POINT

CONSUMER CONFIDENCE REPORT

WATER QUALITY - 2016

We are pleased to present the Annual Water Quality Report (Consumer Confidence Report) for 2016. This report is designed to provide details about where the Fox Watering Point water comes from, what it contains, and how it compares to standards set by regulatory agencies over the past year. The Fox Watering Point is maintained by the State of Alaska, Department of Transportation (DOT). The water quality is monitored in accordance with Federal and State laws by the State of Alaska, Department of Environmental Conservation (DEC). Our goal is to provide to you a safe, dependable supply of drinking water. Posting this report is a state and federal requirement. If you have any questions about this report, or your water quality, please contact the DEC Drinking Water Program at 451-2108 or DOT at 451-2308.

The Fox Watering Point provides water from a 27-foot deep well drilled at 1/2 Mile Elliot Highway. A source water assessment with additional source vulnerability information has also been completed, and the Executive Summary can be found at the end of this report.

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. The water is tested to check for contaminants that could be found in the water, including:

- Microbial contamination, such as bacteria, which may come from sewage or wildlife, (tested monthly);
- Inorganic contaminants, such as salts and metals, which can be naturally occurring or the result of storm water runoff, (annual nitrate, arsenic and others tested every 9 years);
- Organic chemical contaminants, which can include fuel products or pesticides, (volatile organic chemicals tested every 3 years, pesticide monitoring waived) and;
- Radioactive contaminants, from naturally occurring deposits (tested every 6 or 9 years).

Do I need to take special precautions?

Some people may be more vulnerable to contaminants in drinking water than the general population. Immuno-compromised persons such as people with cancer undergoing chemotherapy, people 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. Environmental Protection Agency (EPA) / Centers for Disease Control (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).

All drinking water, including bottled drinking 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 (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. Fox Watering Point is responsible for providing high quality drinking water, but 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 following table shows all contaminants found from January 1, 2016 to December 31, 2016, or the most recent test. No contaminant exceeded allowable levels.

**DETECTED REGULATED CONTAMINANT RESULTS FOR 2016
(OR MOST RECENT DETECTION)**

Contaminant	Date Sampled	Level Detected	Units Measured In	MCLG	MCL	Likely Source of Contamination
Inorganic Contaminants						
Nitrate	12/2016	0.372	ppm	10	10	Runoff from fertilizer use; leaching from septic tanks, sewage; erosion of natural deposits
Barium	3/2007	0.018	ppm	2	2	Erosion of natural deposits
Chromium	3/2007	9.09	ppb	100	100	Erosion of natural deposits
Selenium	3/2007	8.66	ppb	50	50	Erosion of natural deposits
Radioactive Contaminants						
Gross Alpha Radiation	12/2013	6.6	pCi/L	0	15	Erosion of natural deposits
Gross Beta	7/2007	7.25	pCi/L	0	50	Decay of natural and man-made deposits of certain minerals that are radioactive and may emit forms of radiation known as photons and beta radiation
Radium 226/228	7/2007	0.89	pCi/L	0	3.0	Erosion of natural deposits
Uranium	7/2007	5.3	ppb	0	30	Erosion of natural deposits
Radon **	2001	2830	pCi/L			Erosion of natural deposits
Lead and Copper						
Copper	11/2015	0.018	ppm	1.3	1.3	Erosion of natural deposits; corrosion of plumbing systems
Lead	11/2015	0.001	ppm	0.015	0.015	Erosion of natural deposits; corrosion of plumbing systems

Definitions:

MCLG = Maximum Contaminant Level Goal means 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.

MCL = Maximum Contaminant Level means 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.

AL = Action Level means the highest level of a contaminant which, if exceeded, triggers treatment or other requirements which a water system must follow.

ppm means parts per million (mg/L)

ppb means parts per billion (ug/L)

pCi/L means picocuries per liter

****Radon** is not currently regulated by Federal and State Drinking Water Regulations.

Additional Monitoring and Violation Information

All of our testing shows that the water at the Fox Watering Point meets the current State and Federal regulations for water quality. Therefore there were no violations noted during 2016. This included monthly tests for total coliform bacteria, all of which tested negative for total coliform. Samples were collected and analyzed in 2010 for Phase 5 Inorganic Chemicals, in 2012 for Arsenic, and in 2013 for Volatile Organic Chemicals. These results were all non-detect.

Additional Radon Information

Radon is a naturally occurring, inert, odorless, colorless, radioactive gas that is released slowly over time from soil and bedrock. Research has linked radon in air, and to a *much lesser extent* drinking water, to increased chances of respiratory illness and several types of cancer (lung, throat, etc.). Currently radon is not regulated by Federal and State Drinking Water Regulations. However, there is a proposed MCL for radon in drinking water of 300 pCi/L, with an alternate MCL of 4000 pCi/L, if the State develops a specific mitigation program. Over 50 community water systems around the state were tested for radon, including the Fox Watering Point.

Since radon is a gas, the best way to remove it is by a simple aeration process. Aeration of water needs to be done in a well-ventilated area or outside as radon can accumulate indoors and can build up to high levels in all types of homes.

For more information about radon in drinking water and the proposed rule, please visit the EPA website at <https://archive.epa.gov/water/archive/web/html/index-9.html>.

Source Water Assessment Executive Summary

The public water system for DOT & PF - Fox Springs is a Class A water system consisting of 1 source intake(s). The water system is located in Fox and the intake for this PWSID is a groundwater well. The wellhead received a susceptibility of "low" and the aquifer received a susceptibility rating of "high". Combining these scores produces a natural susceptibility of "high" for the source. In addition, this water system has received a vulnerability rating of "medium" for bacteria/viruses, "medium" for nitrates/nitrites, "very high" for volatile organic chemicals, "very high" for heavy metals, "very high" for other organic chemicals, and "medium" for synthetic organic chemicals. To view the full source water assessment report please contact the DEC Drinking Water Program directly at 907-451-2108.

Be advised that the State of Alaska does not intend to provide treatment for this free access water supply. We ask that patrons help keep the area clean and that any vandalism or other problems be reported to DOT at 907-451-2308.

**DOT & PF Fox Watering Point
Public Water System # 310277
c/o 2301 Peger Road, Fairbanks, AK 99709**