



## *City of Wasilla* *2005 Drinking Water* *Consumer Confidence Report*

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 ensure you the best water quality possible.

When reading this report make sure you compare the data from the system which you receive your water. Each water system is disinfected to prevent any bacteria growth within the distribution system.

**Wasilla Public Water System** is supplied from multiple wells ranging from 146 to 250 feet deep, drawing from a combination of aquifers. These wells provide water to above ground reservoirs which gravity feed the distribution system connecting your homes or business.

**Mission Hills Public Water System** water is supplied from one well through a pressure tank into the distribution system to your home.

**Lacy Lane Public Water System** is supplied from one well through a series of pressure tanks through the distribution system to your home.

We routinely monitor for contaminants in your drinking water according to Federal and State laws. The tables below reflect the results of our monitoring that was detected for the period of January 1<sup>st</sup> 2005 to December 31<sup>st</sup>, 2005 or the most recent monitoring results. 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 reasonably be expected to contain at least small amounts of contaminants. The presence of these contaminants does not necessarily indicate that water poses a health risk. More information about contaminants and potential health effects can be obtained by calling the EPA Safe Drinking Water Hotline (800-426-4791). Some people may be more vulnerable to contaminants in drinking water than the general population. Immune-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).

In this table you will find many terms and abbreviations with which 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 contaminant is not present.

Parts per million (ppm) or Milligrams per liter (mg/l) – corresponds to one part per million parts.

Parts per billion (ppb) or Micrograms per liter – corresponds to one part per billion parts.

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.

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

Maximum Contaminant Level (MCL) - The “Maximum Allowed” 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” 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 for Wasilla PWS # 224646</b>						
<b>Contaminant</b>	<b>MCL Violation</b>	<b>Level Detected</b>	<b>Unit Measurement</b>	<b>MCLG</b>	<b>MCL</b>	<b>Likely source of contamination to the best of our present knowledge</b>
<b>Inorganic Contaminants</b>						
Arsenic 11 / 28 / 2005	NO	0.005	mg/L	0	0.010	Erosion of natural deposits; Runoff for orchards; Runoff from glass and electronics production wastes
<b>Lead &amp; Copper</b>						
Lead 11/10/2004	NO	0.00390	mg/L	0	AL=0.015	Corrosion of household plumbing systems; Erosions of natural deposits
Copper 11/10/2004	NO	0.34000	mg/L	1.3	AL=1.3	Corrosion of household plumbing systems; Erosion of natural deposits; Leaching from wood preservatives
<b>Nitrate</b>						
Nitrate (AS N) 05/16/2005	NO	0.860	mg/L	10	10	Corrosion of household plumbing systems; Erosions of natural deposits
<b>Organic Chemicals</b>						
Xylenes 09/29/2004	NO	0.0035	mg/L	10	10	Discharge from petroleum factories; Discharge from chemical factories
Ethylbenzene 09/29/2004	NO	0.00076	mg/L	0.7	0.7	Discharge from petroleum refineries
<b>Disinfection Byproducts</b>						
Total Trihalomethanes Running Annual Average	NO	0.0094	mg/L	n/a	0.080	Byproduct of drinking water disinfection
Haloacetic Acids Running Annual Average	NO	0.0047	mg/L	n/a	0.060	Byproduct of drinking water disinfection

<b>Test Results for Mission Hills PWS # 223763</b>						
<b>Contaminant</b>	<b>MCL Violation</b>	<b>Level Detected</b>	<b>Unit Measurement</b>	<b>MCLG</b>	<b>MCL</b>	<b>Likely source of contamination to the best of our present knowledge</b>
<b>Inorganic Contaminants</b>						
Arsenic 11 / 28 / 2005	NO	0.00728	mg/L	0	0.010	Erosion of natural deposits; Runoff for orchards; Runoff from glass and electronics production wastes
<b>Lead &amp; Copper</b>						
Lead 11/10/2004	NO	0.00230	mg/L	0	AL=0.015	Corrosion of household plumbing systems; Erosions of natural deposits
Copper 11/11/2004	NO	0.41700	mg/L	1.3	AL=1.3	Corrosion of household plumbing systems; Erosion of natural deposits; Leaching from wood preservatives
<b>Nitrate</b>						
Nitrate (AS N) 05/16/2005	NO	<MDL	mg/L	10	10	Corrosion of household plumbing systems; Erosions of natural deposits
<b>Disinfection Byproducts</b>						
Total Trihalomethanes Running Annual Average	NO	0.0000	mg/L	n/a	0.080	Byproduct of drinking water disinfection
Haloacetic Acids Running Annual Average	NO	0.0003	mg/L	n/a	0.060	Byproduct of drinking water disinfection

<b>Test Results for Lacy Lane PWS # 224109</b>						
<b>Contaminant</b>	<b>MCL Violation</b>	<b>Level Detected</b>	<b>Unit Measurement</b>	<b>MCLG</b>	<b>MCL</b>	<b>Likely source of contamination to the best of our present knowledge</b>
<b>Disinfection By Products</b>						
<b>Inorganic Contaminants</b>						
Arsenic 11 / 28 / 2005	NO	0.00601	mg/L	0	0.01	Erosion of natural deposits; Runoff for orchards; Runoff from glass and electronics production wastes
<b>Lead &amp; Copper</b>						
Lead 11 / 10 / 2004	NO	0.00616	mg/L	0	AL=0.015	Corrosion of household plumbing systems; Erosions of natural deposits
Copper 11 / 10 / 2004	NO	0.28150	mg/L	1.3	AL=1.3	Corrosion of household plumbing systems; Erosion of natural deposits; Leaching from wood preservatives
<b>Nitrate</b>						
Nitrate (AS N) 05/16/2005	NO	<MDL	mg/L	10	10	Corrosion of household plumbing systems; Erosions of natural deposits
<b>Disinfection Byproducts</b>						
Total Trihalomethanes Running Annual Average	NO	0.0029	mg/L	n/a	0.080	Byproduct of drinking water disinfection
Haloacetic Acids Running Annual Average	NO	0.0011	mg/L	n/a	0.060	Byproduct of drinking water disinfection

We have learned through our monitoring and testing that some contaminants have been detected as indicated in the table above. We are please to report that no deficiencies were noted.

#### Violations:

The Wasilla, Mission Hills, and Lacy Laine water systems had no violations in 2005 to report.

#### Waivers and/or non-detects:

There are many regulations pertaining to sampling and monitoring of our water system. Since we have a waiver for Synthetic Organic Contaminants, Other Organic Contaminants, and Asbestos, we were not required to test for them during the time period covered by this report. We test for Total Coliform Bacteria monthly and no tests came back positive in your water system.

#### Lead and Copper Information:

A small number of the households in our area are tested for lead and copper periodically. It is possible that lead or copper levels at your home may be higher than at other homes in the community as a result of materials used in your home's plumbing. Infants and young children are typically more vulnerable to lead in drinking water than the general population. If you are concerned about elevated lead or copper levels in your home's water, you may wish to have your water tested, and flush your tap for 30 seconds to 2 minutes before consuming tap water. Additional information is available from the Safe Drinking Water Hotline (1-800-426-4791).

#### Arsenic Information:

*"While your drinking water meet's EPA's standard for arsenic, it does contain low levels of arsenic. EPA's standard balances the current understanding of arsenic's possible health effects against the cost of removing arsenic from the drinking water. EPA continues to research the health effects of low levels of arsenic, which is a mineral known to cause cancer in humans at high concentrations and is linked to other health effects such as skin damage and circulatory problems".*

#### Radon Information:

Radon is a naturally occurring radioactive, dense, colorless, and odorless gas. Research has linked radon in air, and to a much lesser extent drinking water, to increased chances of respiratory illness and at least two types of cancer (lung and throat). Radon is not currently a regulated drinking water contaminant, however, the Radon Rule has been proposed by U.S. EPA to regulate radon in drinking water.

We at the City of Wasilla work to provide top quality water to every tap. In the wake of 9-11 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.

If you have any questions about this report or concerning your water utility, please contact us at 373-9010. We want our valued customers to be informed about their drinking water. If you wish to bring up any other concerns, please attend any of our regularly scheduled City Council meetings. Other information may be found by visiting the U.S. Environmental Protection Agency web site at <http://www.epa.gov/safewater> .

**Quality  
On Tap!**

A small icon of a water tap with a blue drop of water falling from it, positioned below the word "On" in the logo.