



2016 Lacy Laine

Consumer Confidence Report

PWSID #AK2224109

Is my water safe?

We are pleased to present this year's Annual Water Quality Report (Consumer Confidence Report) as required by the Safe Drinking Water Act (SDWA). This report is designed to provide details about where your water comes from, what it contains, and how it compares to standards set by regulatory agencies. This report is a snapshot of last year's water quality. We are committed to providing you with information because informed customers are our best allies.

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 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/Centers for Disease Control (CDC) guidelines on appropriate means to lessen the risk of infection by *Cryptosporidium* and other microbial contaminants are available from the Safe Water Drinking Hotline (800-426-4791).

Where does my water come from?

Lacy Laine water system is owned and operated by the City of Wasilla, Public Works Department Water Division. The water is pumped from a deep aquifer at one location within your subdivision. The main well is located on Block 2, Tract B of your subdivision. The well is capable of producing 150 gallons per minute meeting the needs of this system. The ground water is treated by chlorine "calcium hypochlorite" disinfectant. Disinfection involves the addition of chlorine or other disinfectants to kill dangerous bacteria and microorganisms that may be in the water. Disinfection is considered to be one of the major public health advances of the 20th century.

Source water assessment and its availability

Source water is untreated water from streams, rivers, lakes, or underground aquifers that is used to supply public drinking water. Preventing drinking water contamination at the source makes good public health sense, good economic sense, and good environmental sense. You can be aware of the challenges of keeping drinking water safe and take an active role in protecting drinking water. There are lots of ways that you can get involved in drinking water protection activities to prevent the contamination of our water source. Dispose properly of household chemicals, help clean up the watershed that is the source of our community's water, and attend public meetings to ensure that the community's need for safe drinking water is considered in making decisions about land use.

Source Water Assessment (SWA) Reports have been completed by the ADEC Drinking Water Protection Program as a first step towards voluntary local source water protection efforts.

Vulnerability rankings are assigned based on the susceptibility of the drinking water source to potential contamination, recent sampling results and the presence of potential contaminant sources - they do not necessarily indicate these contaminants will reach our source of water. Our water system has received the following vulnerability rankings: The public water system for Wasilla Lacy Lane S/D is a Class A (community) water system consisting of one well in the Wasilla, Alaska area. Identified potential and current sources of contaminants for Wasilla Lacy Lane S/D public drinking water source include large capacity septic systems, residential septic systems, a heavy equipment rental/storage facility, construction areas, roads, and approximately 39 acres of residential area. These identified potential and existing sources of contamination are considered sources of bacteria and viruses, nitrates and/or nitrites, volatile organic chemicals, heavy metals, synthetic organic chemicals and other organic chemicals. Overall, the public water source for Wasilla Lacy Lane S/D received a vulnerability rating of Medium for bacteria and viruses, and nitrates and nitrites; and Low for volatile organic chemicals, heavy metals, other organic chemicals, and synthetic organic chemicals. Source water assessment for the Lacy Lane Well was completed on March 14, 2003. The completed Source water assessment reports may be found on the City of Wasilla Web Page <http://www.cityofwasilla.com>, U.S. Environmental Protection Agency web site at <http://www.epa.gov/safewater>, and Division of Environmental Health Drinking Water Program at <http://map.dec.state.ak.us/eh/dww/index.jsp>

Why are there contaminants in my drinking water?

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 water poses a health risk. More information about contaminants and potential health effects can be obtained by calling the Environmental Protection Agency's (EPA) Safe Drinking Water Hotline (800-426-4791). The sources of drinking water (both tap water and bottled water) include rivers, lakes, streams, ponds, reservoirs, springs, and wells. As water travels over the surface of the land or through the ground, it dissolves naturally occurring minerals and, in some cases, radioactive material, and can pick up substances resulting from the presence of animals or from human activity:

microbial contaminants, such as viruses and bacteria, that may come from sewage treatment plants, septic systems, agricultural livestock operations, and wildlife; inorganic contaminants, such as salts and metals, which can be naturally occurring or result from urban storm water runoff, industrial, or domestic wastewater discharges, oil and gas production, mining, or farming; pesticides and herbicides, which may come from a variety of sources such as agriculture, urban storm water runoff, and residential uses; organic Chemical Contaminants, including synthetic and volatile organic chemicals, which are by-products of industrial processes and petroleum

production, and can also come from gas stations, urban storm water runoff, and septic systems; and radioactive contaminants, which can be naturally occurring or be the result of oil and gas production and mining activities. In order to ensure that tap water is safe to drink, EPA prescribes regulations that limit the amount of certain contaminants in water provided by public water systems. Food and Drug Administration (FDA) regulations establish limits for contaminants in bottled water which must provide the same protection for public health.

How can I get involved?

We want our valued customers to be informed about their drinking water. The City of Wasilla holds its council meetings bi-monthly the schedule and agenda may be found on the cities web site (cityofwasilla.com) or by contacting the Wasilla City Clerk's office (907) 373-9090. These are open meeting to the general public

Description of Water Treatment Process

Your water is treated by disinfection. Disinfection involves the addition of chlorine or other disinfectant to kill dangerous bacteria and microorganisms that may be in the water. Disinfection is considered to be one of the major public health advances of the 20th century.

Water Conservation Tips

Did you know that the average U.S. household uses approximately 400 gallons of water per day or 100 gallons per person per day? Luckily, there are many low-cost and no-cost ways to conserve water. Small changes can make a big difference - try one today and soon it will become second nature.

- Take short showers - a 5 minute shower uses 4 to 5 gallons of water compared to up to 50 gallons for a bath.
- Shut off water while brushing your teeth, washing your hair and shaving and save up to 500 gallons a month.
- Use a water-efficient showerhead. They're inexpensive, easy to install, and can save you up to 750 gallons a month.
- Run your clothes washer and dishwasher only when they are full. You can save up to 1,000 gallons a month.
- Water plants only when necessary.
- Fix leaky toilets and faucets. Faucet washers are inexpensive and take only a few minutes to replace. To check your toilet for a leak, place a few drops of food coloring in the tank and wait. If it seeps into the toilet bowl without flushing, you have a leak. Fixing it or replacing it with a new, more efficient model can save up to 1,000 gallons a month.
- Adjust sprinklers so only your lawn is watered. Apply water only as fast as the soil can absorb it and during the cooler parts of the day to reduce evaporation.
- Teach your kids about water conservation to ensure a future generation that uses water wisely. Make it a family effort to reduce next month's water bill!
- Visit www.epa.gov/watersense for more information.

Cross Connection Control Survey

The purpose of this survey is to determine whether a cross-connection may exist at your home or business. A cross connection is an unprotected or improper connection to a public water distribution system that may cause contamination or pollution to enter the system. We are responsible for enforcing cross-connection control regulations and insuring that no contaminants can, under any flow conditions, enter the distribution system. If you have any of the devices listed below please contact us so that we can discuss the issue, and if needed, survey your connection and assist you in isolating it if that is necessary.

- Boiler/ Radiant heater (water heaters not included)
- Underground lawn sprinkler system
- Pool or hot tub (whirlpool tubs not included)
- Additional source(s) of water on the property
- Decorative pond
- Watering trough

Source Water Protection Tips

Protection of drinking water is everyone's responsibility. You can help protect your community's drinking water source in several ways:

- Eliminate excess use of lawn and garden fertilizers and pesticides - they contain hazardous chemicals that can reach your drinking water source.
- Pick up after your pets.
- If you have your own septic system, properly maintain your system to reduce leaching to water sources or consider connecting to a public water system.
- Dispose of chemicals properly; take used motor oil to a recycling center.
- Volunteer in your community. Find a watershed or wellhead protection organization in your community and volunteer to help. If there are no active groups, consider starting one. Use EPA's Adopt Your Watershed to locate groups in your community, or visit the Watershed Information Network's How to Start a Watershed Team.
- Organize a storm drain stenciling project with your local government or water supplier. Stencil a message next to the street drain reminding people "Dump No Waste - Drains to River" or "Protect Your Water." Produce and distribute a flyer for households to remind residents that storm drains dump directly into your local water body.

Monitoring and reporting of compliance data violations

Wasilla Lacy Laine – Community Water System (CWS) recently violated a drinking water standard. Although this incident was not an emergency, as our customers, you have a right to know what happened and what we did to correct this situation.

The Wasilla Lacy Laine is required to routinely monitor for drinking water contaminants. We missed taking our Nitrate sample for 2016. We will be monitoring for Nitrate no later than March 31, 2017 and results submitted to the State of Alaska, Department of Environmental Conservation, Drinking Water Program.

What should I do? What does this mean?

You do not need to boil your water or take other corrective actions. However, if you have specific health concerns, consult your doctor. This is not an emergency. If it had been, you would have been notified immediately.

People with severely compromised immune systems, infants, and some elderly may be at increased risk. These people should seek advice about drinking water from their health care providers. General guidelines on ways to lessen the risk of infection by microbes are available from EPA's Safe Drinking Water Hotline at 1-800-426-4791.

Potential Health effects of contaminants not sampled for:

Nitrate: Under certain conditions, the body changes Nitrate to Nitrite. Methemoglobinemia, a form of anemia, results from the reaction of Nitrate with hemoglobin in the blood. When it occurs, the ability of the blood to carry oxygen to the body's tissues is decreased. In infants, this condition is called "Blue Baby" syndrome. Infants are especially susceptible.

What happened? What was done?

We failed to conduct routine monitoring (sampling) in the year 2016, but will monitor for Nitrate listed in this public notification no later than March 31, 2017. We will continue to conduct routine monitoring in accordance with the Drinking Water Regulations 18 AAC 80. For more information please contact: John Becker at (907) 373-9044 or via email at jbecker@ci.wasilla.ak.us.

Please share this information with all the other people who drink this water, especially those who may not have received this notice directly. You can do this by posting this notice in a public place or distributing copies by hand or email.

Our System was immediately brought back into compliance upon notification of missed sampling requirement.

On January 18, 2017 a Nitrate sample was collect from the source water with results reported below Method Reporting Limit (MRL) of 0.10 mg/l

Additional Information for Lead

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. PWSID #AK2224109 Lacy Laine 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>.

Additional Information for Arsenic

While your drinking water meets 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 costs of removing arsenic from 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.

Water Quality Data Table

In order to ensure that tap water is safe to drink, EPA prescribes regulations which limit the amount of contaminants in water provided by public water systems. The table below lists all of the drinking water contaminants that we detected during the calendar year of this report. Although many more contaminants were tested, only those substances listed below were found in your water. All sources of drinking water contain some naturally occurring contaminants. At low levels, these substances are generally not harmful in our drinking water. Removing all contaminants would be extremely expensive, and in most cases, would not provide increased protection of public health. A few naturally occurring minerals may actually improve the taste of drinking water and have nutritional value at low levels. Unless otherwise noted, the data presented in this table is from testing done in the calendar year of the report. The EPA or the State requires us to monitor for certain contaminants less than once per year because the concentrations of these contaminants do not vary significantly from year to year, or the system is not considered vulnerable to this type of contamination. As such, some of our data, though representative, may be more than one year old. In this table you will find terms and abbreviations that might not be familiar to you. To help you better understand these terms, we have provided the definitions below the table.

Contaminants	MCLG or MRDLG		MCL, TT, or MRDL		Detect In Your Water	Range		Sample Date	Violation	Typical Source
						Low	High			
Disinfectants & Disinfection By-Products										
(There is convincing evidence that addition of a disinfectant is necessary for control of microbial contaminants)										
Chlorine (as Cl ₂) (ppm)		4		4	.7	NA	.7	2016	No	Water additive used to control microbes
Haloacetic Acids (HAA5) (ppb)		NA		60	2.5	1.2	2.5	2016	No	By-product of drinking water chlorination
TTHMs [Total Trihalomethanes] (ppb)		NA		80	5	2.8	5	2016	No	By-product of drinking water disinfection
Inorganic Contaminants										
Arsenic (ppb)	0	10	7.73	NA	NA	2014	No	Erosion of natural deposits; Runoff from orchards; Runoff from glass and electronics production wastes		
Radioactive Contaminants										
Alpha emitters (pCi/L)	0	15	1.343	NA	NA	2016	No	Erosion of natural deposits		
Radium (combined 226/228) (pCi/L)	0	5	.007	NA	NA	2016	No	Erosion of natural deposits		

Contaminants	MCLG	AL	Your Water	Sample Date	# Samples Exceeding AL	Exceeds AL	Typical Source
Inorganic Contaminants							
Copper - action level at consumer taps (ppm)	1.3	1.3	.135	2016	0	No	Corrosion of household plumbing systems; Erosion of natural deposits
Inorganic Contaminants							
Lead - action level at consumer taps (ppb)	0	15	0	2016	0	No	Corrosion of household plumbing systems; Erosion of natural deposits

Unit Descriptions	
Term	Definition
ppm	ppm: parts per million, or milligrams per liter (mg/L)
ppb	ppb: parts per billion, or micrograms per liter (µg/L)
pCi/L	pCi/L: picocuries per liter (a measure of radioactivity)
NA	NA: not applicable
ND	ND: Not detected
NR	NR: Monitoring not required, but recommended.

Important Drinking Water Definitions	
Term	Definition
MCLG	MCLG: Maximum Contaminant Level Goal: 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	MCL: Maximum Contaminant Level: 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.
TT	TT: Treatment Technique: A required process intended to reduce the level of a contaminant in drinking water.
AL	AL: Action Level: The concentration of a contaminant which, if exceeded, triggers treatment or other requirements which a water system must follow.
Variances and Exemptions	Variances and Exemptions: State or EPA permission not to meet an MCL or a treatment technique under certain conditions.
MRDLG	MRDLG: Maximum residual disinfection level goal. The level of a drinking water disinfectant below which there is no known or expected risk to health. MRDLGs do not reflect the benefits of the use of disinfectants to control microbial contaminants.
MRDL	MRDL: Maximum residual disinfectant level. The highest level of a disinfectant allowed in drinking water. There is convincing evidence that addition of a disinfectant is necessary for control of microbial contaminants.
MNR	MNR: Monitored Not Regulated
MPL	MPL: State Assigned Maximum Permissible Level

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