



Public Works Department

2024 Drinking Water Quality Report Public Water System

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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 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. Our water source is ground water from the Beaver Creek Aquifer and is produced from four deep wells located near the Kenai Spur Highway and Beaver Loop Road at the water Treatment Plant site. All four wells are used periodically through the year to blend water for treatment and distribution.

The City of Kenai Public Water Department routinely monitors for contaminants in your drinking water according to Federal and State laws. The following table shows the results of our monitoring for the period of **January 1 to December 31, 2024**. All sources of drinking water are subject to potential contamination by naturally occurring or man-made constituents. Those contaminants can be microbes, organic or inorganic chemicals, or radioactive materials. All drinking water, including bottled water, may reasonably be expected to contain at least small amounts of these contaminants. The presence of contaminants does not necessarily indicate that the water poses a health risk. 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. 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).

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. The City of Kenai is responsible for providing high quality drinking water and removing lead pipes, but cannot control the variety of materials used in plumbing components in your home. You share the responsibility for protecting yourself and your family from the lead in your home plumbing. You can take responsibility by identifying and removing lead materials within your home plumbing and taking steps to reduce your family's risk. Before drinking tap water, flush your pipes for several minutes by running your tap, taking a shower, doing laundry or a load of dishes. You can also use a filter certified by an American National Standards Institute accredited certifier to reduce lead in drinking water. If you are concerned about lead in your water and wish to have your water tested, contact KENAI WATER SYSTEM (Public Watersystem Id: AK2240448) by calling 907-283-8266 or emailing jhegar@kenai.city. Information on lead in drinking water, testing methods, and steps you can take to minimize exposure is available at <http://www.epa.gov/safewater/lead>. The system inventory does not include lead service lines. The City of Kenai based our findings on construction details, visual assessments, and City code that only allowed the use of type K copper for underground use.

MCL's are set by the Environmental Protection Agency at very stringent levels. To understand the possible health effects described for many regulated constituents, a person would have to drink 2 liters of water every day at the MCL level for a lifetime to have a one-in-a-million chance of having the described health effect.

Your Water Department

With Questions Please Contact : Primary Operator : Utilities Forman : James Hegar : 907-283-8251 : PWSID Number AK2240448

Results of Monitoring for Regulated Contaminants – 2024

Water test results for the 2024 compliance period that had any detectable level are listed in the table below, including the results from the most recent tests taken prior to 2024. All test results met the allowable limits.

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 Cl2) (ppm)	4	4	0.8	0.5	0.8	2024	No	Water additive used to control microbes
Haloacetic Acids (HAA5) (ppb)	NA	60	33.4	NA	NA	2024	No	By-product of drinking water chlorination
TTHMs [Total Trihalomethanes] (ppb)	NA	80	69.37	NA	NA	2024	No	By-product of drinking water disinfection
Inorganic Contaminants								
Arsenic (ppb)	0	10	7.01	NA	NA	2024	No	Erosion of natural deposits
Asbestos (MFL)	7	7	0.17	NA	NA	2022	No	Erosion of pipe material
Barium (ppm)	2	2	0.0235	NA	NA	2022	No	Erosion of natural deposits
Chromium (ppb)	100	100	0	NA	NA	2022	No	Erosion of natural deposits
Fluoride (ppm)	4	4	0.333	NA	NA	2023	No	Erosion of natural deposits
Selenium (ppb)	50	50	0	NA	NA	2022	No	Erosion of natural deposits
Microbiological Contaminants								
Total Coliform (RTCR) (% positive samples/month)	NA	TT	NA	NA	NA	2024	No	Naturally present in the environment
Radioactive Contaminants								
Alpha emitters (pCi/L)	0	15	8.22	8.22	9.69	2022	No	Erosion of natural deposits
Radium (combined 226/228) (pCi/L)	0	5	0.67	0	0.67	2023	No	Erosion of natural deposits
Uranium (ug/L)	0	30	4.1	NA	4.1	2020	No	Erosion of natural deposits
Volatile Organic Contaminants								
Dichloromethane (ppb)	0	5	0.61	0.5	0.61	2024	No	Discharge from chemical factories
Contaminants	MCLG	AL	Your Water	Range		Sample Date	Exceeds AL	Typical Source
				Low	High			
Copper - action level at consumer taps (ppm)	1.3	1.3	0.0396	0.00535	0.0561	2023	No	household plumbing
Lead - action level at consumer taps (ppb)	0	15	0	0	3.06	2023	No	household plumbing

Arsenic is known to cause cancer in humans. Arsenic also may cause other health effects such as skin damage and circulatory problems. Kenai Water System meets the EPA arsenic drinking water standard, also known as a Maximum Contaminant Level (MCL). However, you should know that the EPA's MCL for arsenic balances the scientific community's understanding of arsenic-related health effects and the cost of removing arsenic from drinking water. The highest level of arsenic found in 2024 was 7.01 ug/L. City of Kenai water system PWSID Number AK2240448

(90th Percentile) 90th percentile means, the value of the 90th sample out of 100 samples. (i.e.) sample #90 out of 100 samples, sample #18 out of 20 samples.

The new Water Treatment Plant went on-line in June 2012. It has been successful in removing color from the water. The color is aesthetic only and does not affect the sanitation or the quality of the water. There may be times when the harmless color causing tannins that have accumulated in the water mains will be stirred up. If you see color, you can clear your water by running your tap. We continue to add sodium hypochlorite to our water as a disinfectant.

There are many regulations pertaining to sampling and monitoring of our water system. Because we had a waiver for Synthetic Organic Compounds (SOC) and Other Organic Compounds (OOC), we did not test for them during this time period. Each well is tested for Volatile Organic Compounds (VOC) every 3 years. The distribution system is tested for asbestos once every 3 year cycle.

Waivers: There are many regulations pertaining to sampling and monitoring of our water system. Since we had a waiver for Synthetic Organic Contaminants and other Organic Contaminants during the Years of 2023-2025, we will not test for them.

If you would like to learn more please attend any of our regularly scheduled City Council meetings. They are held on the first and third Wednesdays of each month at Kenai City Hall, 210 Fidalgo Avenue, Kenai, Alaska, starting at 6 pm.

AL Action Level: The concentration of a contaminant, which, if exceeded, triggers treatment or other requirements, which a water system must follow.

(MCL) – Maximum Contaminant Level: 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.

(MCLG) – Maximum Contaminant Level Goal: 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.

(ND) – Not Detected.

(pCi/L) – Picocuries Per Liter: Picocuries per liter is a measure of the radioactivity in water.

(ppb) – one part per billion

(ppm) - One part per million