



Misawa AB, JAPAN
Drinking Water
Consumer Confidence Report (CCR)
2024



このレポートには飲料水に関する重要な情報が記載されています。この英文を訳してもらるか、またはどなたか英語が分かる方にたずねてください。

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1. Acronyms and Terms Used In This Report: The table below explains the acronyms, terms, and units of measure used in this CCR:

Table 1. Acronym/Term List

| Unit Descriptions | |
|-------------------|----------------------|
| Term | Definition |
| mg/L | Milligrams per liter |
| ppm | Parts per million |
| pCi/L | Picocuries per liter |
| ppt | Parts per trillion |

| Important Drinking Water Definitions | |
|--------------------------------------|---|
| Term | Definition |
| Action Level | The concentration of a contaminant which, if exceeded, triggers treatment or other requirements which a water system must follow. |
| 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 | 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. |
| 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. |
| MRDLG | Maximum Residual Disinfectant 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 contamination. |
| Treatment Technique | A required process intended to reduce the level of a contaminant in drinking water. |

| Acronym Explanation | |
|---------------------|---|
| Acronym | Explanation |
| AB | Air Base |
| CCR | Consumer Confidence Report |
| CDC | Center for Disease Control |
| CES | Civil Engineering Squadron |
| DoD | Department of Defense |
| EPA | Environmental Protection Agency |
| JEGS | Japan Environmental Governing Standards |
| N/A | Not Applicable |
| POL | Petroleum, Oils, and Lubricants |
| USAF | United States Air Force |

2. What is a CCR?

The U.S. Environmental Protection Agency (EPA) and Japan Environmental Governing Standards (JEGS) requires community water systems to provide annual drinking water quality reports to their customers. These reports, known as Consumer Confidence Reports (CCRs), enable people to make practical, knowledgeable decisions about their health and their environment.

3. Where does Misawa AB's drinking water come from?

The USAF maintains three separate drinking water systems on Misawa AB, and two separate water systems at the Draughton Range. The Main Base receives water from groundwater wells and Lake Anenuma. The North Base and Security Hill areas receive water from ground water wells. Draughton Range contains two systems: the Air Force Range Office and surrounding buildings receive water from one ground water well. The City of Misawa receives its water from ground water wells. Bioenvironmental Engineering conducts water sampling for Air Force owned and operated systems. City water quality is monitored by the City of Misawa.

4. What types of contaminants may be in our drinking water?

a. 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 EPA's Safe Drinking Water Hotline (1-800-426-4791).

b. 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/CDC guidelines on appropriate means to lessen the risk of infection by *Cryptosporidium* and other microbial contaminants are available from the Safe Drinking Water Hotline (1-800-426-4791).

c. 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. Contaminants that may be present in source water include:

- Microbial contaminants, such as viruses and bacteria, which 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 stormwater 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 stormwater runoff, and residential uses.
- Organic chemical contaminants, including synthetic and volatile organic chemicals, which are byproducts of industrial processes and petroleum production, and can also come from gas stations, urban stormwater runoff, and septic systems.
- Radioactive contaminants, which can be naturally-occurring or be the result of oil and gas production and mining activities.

d. In order to ensure that tap water is safe to drink, EPA prescribes regulations which limit the amount of certain contaminants in water provided by public water systems. Food and Drug Administration regulations establish limits for contaminants in bottled water which must provide the same protection for public health.

e. During the last sample events in 2024 for Main Base, North Area and Security Hill, all results were below the EPA lead action level. 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. 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 www.epa.gov/safewater/lead.

f. The characterization of Cryptosporidium inactivation in our surface water source is required in accordance with the 2024 JEGS and was identified as a monitoring violation in calendar year 2023. Cryptosporidium routine monitoring efforts commenced on April 2024 in response to the monitoring violation identified; continuous monitoring will proceed over a period of twelve months. Turbidity is another parameter that requires further monitoring. Surface water turbidity is currently monitored in one-hour intervals after being filtered multiple times. JEGS and EPA Surface Water Treatment Rule requires water to be monitored every 15 minutes. Turbidity can interfere with disinfection and provide a medium for microbial growth. Turbidity may indicate the presence of disease-causing organisms. Further clarification of the monitoring violations is outlined in the table below.

Table 2. Violations

| Violation | Explanation | Health Effects | Steps Taken to Correct the Violation |
|--|--|--|---|
| TT Violation - Cryptosporidium Determine and Report Bin Classification | Monitoring for Cryptosporidium, a microscopic parasite, is required as a component of both, the JEGS and the EPA's Long-Term 2 Enhanced Surface Water Treatment Rule (LT2ESWTR). Monitoring did not occur in 2023 but is now taking place in 2024. | Inadequately treated water may contain disease-causing organisms. These organisms include bacteria, viruses, and parasites which can cause symptoms such as nausea, cramps, diarrhea, and associated headaches. | Initial sampling round began in April 2024 and was completed April 2025. We are awaiting on analysis results of the last sampling event for this initial round to determine and report the Bin classification on the 2025 CCR. This violation remains open until Bin classification is confirmed. It will be reported as closed in next year's CCR. |
| Monitoring Violation - Failure to monitor turbidity at specified frequency | Turbidity is monitored, but not at the intervals specified in both JEGS and EPA's Surface Water Treatment Rule. For Public Water Systems with more than two filters, the combined filter effluent must be recorded every 4 hours. In addition, the individual filter effluent must be recorded every 15 minutes. | Turbidity has no health effects. However, turbidity can interfere with disinfection and provide a medium for microbial growth. Turbidity may indicate the presence of disease-causing organisms. These organisms include bacteria, viruses, and parasites that can cause symptoms such as nausea, cramps, diarrhea and associated headaches. | Turbidity is monitored and recorded at the intervals specified in accordance with JEGS and EPA's Surface Water Treatment Rule. For Public Water Systems. Results are reported in the table below. This violation is resolved. |

5. Is our drinking water safe?

Your water met JEGS requirements during 2024. We received high-quality water that meets the same standards as drinking water in the US. Civil Engineering provides constant treatment and maintenance of our water distribution system; while Bioenvironmental Engineering collects samples and analyzes our potable water.

6. How is our drinking water treated?

Treatment systems are operated in a manner that ensures appropriate chemical concentrations are maintained throughout the distribution system. Chlorine concentrations and contact times (i.e. CT values) are monitored to ensure proper disinfection of the water in accordance with applicable regulations. Table 3 below describes the treatment process for each location on the installation.

Table 3. Water Treatment

| Location | Source | Water Treatment Processes |
|---------------------------|------------|--|
| Main Base | Well Water | Sand sedimentation to remove suspended matter such as sand, dirt, rust, loose scale, clay or organic material from the water. |
| | | Chlorination to disinfect/prevent distribution system contamination |
| | | Fluoridation to prevent cavities in children |
| | Lake Water | Activated carbon filtration to absorb chemicals |
| | | Coagulation/flocculation/sedimentation to remove algae/large particles |
| | | Rapid Sand Filtration to remove particles |
| | | Chlorination to disinfect/prevent distribution system contamination |
| | | Fluoridation to prevent cavities in children |
| North Area | Well Water | Sand sedimentation to remove suspended matter such as sand, dirt, rust, loose scale, clay or organic material from the water. |
| | | Chlorination to disinfect/prevent distribution system contamination |
| | | Fluoridation to prevent cavities in children |
| Security Hill | Well Water | Sand sedimentation to remove suspended matter such as sand, dirt, rust, loose scale, clay or organic material from the water. |
| | | Fluoride is not added because of no children and no child activities in the area. |
| | | Chlorination to disinfect/prevent distribution system contamination |
| Draughon Range Tower Area | Well Water | Chlorination to disinfect/prevent distribution system contamination. US owned well; however, JASDF responsible for maintenance including chlorination. |
| Draughon Range Gate Area | City Water | Chlorination to disinfect/prevent distribution system contamination Sand Stripping to remove suspended matter such sand, dirt, rust, loose, scale, clay or organic material from the water. |

7. How often is Misawa AB's drinking water tested?

In compliance with USAF and DoD regulations, the Bioenvironmental Engineering Flight monitors for more than 100 possible substances in Misawa's drinking water at different intervals. Table 4 below identifies the sampling they conduct.

Table 4. Contaminant Groups and Monitoring Frequencies

| Contaminant Group | Examples | Monitoring Frequency ¹ |
|---|--|---|
| Biological Contaminants | Coliform bacteria | All water systems - Monthly |
| | Cryptosporidium | Main Base Lake Water (Untreated) – Bi-weekly for initial round. |
| Inorganic Contaminants | | Main Base Water Towers- Annually |
| | | Main Base Well Water - Once every three years |
| | Metals (e.g. selenium, arsenic, mercury, nickel) | Main Base Lake Water - Annually |
| | | North Area - Once every three years |
| | | Security Hill - Once every three years |
| | Nitrate, Nitrite, Total Nitrate and Nitrite | Main Base Water Towers - Quarterly |
| | | Main Base Well Water - Annually |
| | | Main Base Lake Water - Annually |
| | | North Area - Annually |
| | | Security Hill – Annually |
| Volatile Organic Compounds | Benzene, Trichloroethylene, Carbon Tetrachloride, etc. | Main Base Water Towers- Quarterly |
| | | Main Base Well Water - Quarterly |
| | | Main Base Lake Water - Annually |
| | | North Area – Once every three years |
| | | Security Hill - Once every three years |
| Synthetic Organic Compounds | Pesticides, Herbicides, PCBs | Main Base Water Towers - Quarterly |
| | | Main Base Well Water - two consecutive quarters every three years |
| | | Main Base Lake Water - two consecutive quarters every three years |
| | | North Area - two consecutive quarters every three years |
| | | Security Hill - Once every three years |
| Lead & Copper From Plumbing Materials | Lead, Copper | Main Base Water Towers – Every three years North Area – Every three years Security Hill – Every three years |
| Radiological Contaminants | Gross Alpha, Radium- 226, Radium-228, Uranium | Main Base Water Towers – Every four years |
| | | North Area – Every four years |
| | | Security Hill – Not required |
| | Beta Particle & Photon Activity | Main Base Water Towers – Every nine years |
| | | North Area – Every nine years |
| | | Security Hill – Not required |
| Disinfection By-Products | Trichloromethanes, Haloacetic Acids (HAA5) | Main Base - Quarterly |
| | | North Area - Annually |
| | | Security Hill - Annually |
| | Total Organic Carbon, Alkalinity | Main Base Lake Water (Untreated) – Quarterly Main Base Lake Water (Treated) - Quarterly |
| | Turbidity | Combined Filter Effluent – Every 1 hour |
| Non-Regulated Compounds/Emerging Contaminants | PFAS (per- and polyfluoroalkyl substances) | Main Base – TBD North Area – TBD Security Hill – TBD Draughton Range Tower Area – TBD |

¹ It was determined the two water systems at Draughton Range are non-public water systems. Therefore, the monitoring requirements listed in the 2024 Japan Environmental Governing Standards (JEGS) do not apply, except for total coliforms and disinfectant residual.

8. What is in our drinking water?

The contaminants presented in the following tables are organized by the respective water distribution system. Only contaminants detected are reported, results below the analytical detection limit are not included. Some contaminants are not tested annually. In these cases, the most current results are reported even though the actual sample may have been collected in a previous year. The presence of contaminants in the water does not indicate immediate health risks.

Table 5. Detected Contaminants for Main Base Distribution System

| Contaminant | MCLG | MCL | Your Water | Sample Date | Above MCL? | Typical Source | Health Effects |
|---------------------------|-------------------|-------------------|--------------|-------------|------------|--|---|
| Cryptosporidium | 0.00 oocysts/L | 0.00 oocysts/L | Non detect | 2024/2025 | No | Microbial parasite commonly in raw surface water, potentially sourcing from wildlife. Samples are collected at the source. | Cryptosporidium must be ingested for it to cause disease. Symptoms associated with this contaminant include nausea, diarrhea, and abdominal cramps. |
| Inorganic Contaminants | | | | | | | |
| Nitrate | 10.0 mg/L | 10.0 mg/L | 0.77 mg/L | 2024 | No | Runoff from fertilizer use; leaching from septic tanks, sewage; erosion of natural deposits | Infants below the age of six months who drink water containing nitrate in excess of the MCL could become seriously ill and, if untreated, may die. Symptoms include shortness of breath and blue baby syndrome. |
| Total Nitrate and Nitrite | 10.0 mg/L | 10.0 mg/L | 1.0 mg/L | 2024 | No | Runoff from fertilizer use; leaching from septic tanks, sewage; erosion of natural deposits | Infants below the age of six months who drink water containing nitrate in excess of the MCL could become seriously ill and, if untreated, may die. Symptoms include shortness of breath and blue baby syndrome. |

| | | | | | | | |
|----------|--------------|--------------|----------------|------|----|---|--|
| Fluoride | 4.0 mg/L | 4.0 mg/L | 0.65 mg/L | 2024 | No | Water additive which promotes strong teeth; erosion of natural deposits; discharge from fertilizer and aluminum factories | Some people who drink water containing fluoride in excess of the MCL over many years could get bone disease, including pain and tenderness of the bones. Fluoride in drinking water at half the MCL or more may cause mottling of children's teeth, usually in children less than nine years old. Mottling, also known as dental fluorosis, may include brown staining and/or pitting of the teeth, and occurs only in developing teeth before they erupt from the gums. |
| Arsenic | 0.01 mg/L | 0.01 mg/L | 0.0021 mg/L | 2024 | No | Erosion of natural deposits; runoff from orchards; glass & electronics production wastes | Some people who drink water containing arsenic in excess of the MCL over many years could experience skin damage or problems with their circulatory system, and may have an increased risk of getting cancer. |
| Barium | 2.0 mg/L | 2.0 mg/L | 0.0050 mg/L | 2023 | No | Discharge of drilling waste; discharge from metal refineries; erosion of natural deposits | Some people who drink water containing barium in excess of the MCL over many years could experience an increase in their blood pressure. |

| | | | | | | | |
|-----------------|-------------|-------------------------------|--|------|----|--|---|
| Chromium, Total | 0.1 mg/L | 0.1 mg/L | 0.0016 mg/L | 2024 | No | Discharge from steel and pulp mills; erosion of natural deposits | Some people who use water containing chromium well in excess of the MCL over many years could experience allergic dermatitis. |
| Sodium | No MCLG | 200 mg/L | 11 mg/L | 2024 | No | Discharge from mines; discharge from petroleum refineries | Sodium in drinking water is a more serious concern if you have a medical condition such as high blood pressure, or certain heart, kidney or liver diseases. |
| Lead | zero | Action Level 0.015 mg/L | 0.002 mg/L 0 sites exceeded AL | 2024 | No | Corrosion of household plumbing systems; erosion of natural deposits | Infants and children who drink water containing lead in excess of the action level could experience delays in their physical or mental development. Children could show slight deficits in attention span and learning abilities. Adults who drink this water over many years could develop kidney problems or high blood pressure. |

| | | | | | | | | | |
|---|---------------------------|--------------------------------|---------------------|---------------|---------------|--|---|--|--|
| Copper | 1.3 mg/L | Action Level 1.3 mg/L | 0.114 mg/L | 2024 | No | Corrosion of household plumbing systems; erosion of natural deposits | Copper is an essential nutrient, but some people who drink water containing copper in excess of the action level over a relatively short amount of time could experience gastrointestinal distress. Some people who drink water containing copper in excess of the action level over many years could suffer liver or kidney damage. People with Wilson's disease should consult their personal doctor. | | |
| | | | 0 sites exceeded AL | | | | | | |
| Volatile Organic Compounds | | | | | | | | | |
| Trichloroethylene See Note 5 | zero | 5.0 ug/L | 2.67 ug/L | 2023 | No | Discharge from metal degreasing sites and other factories | Lifetime consumption of trichloroethylene excess levels in drinking water may be associated with liver problems and increased risk of cancer. | | |
| Toluene | 1 mg/L | 1 mg/L | 0.00054 mg/L | 2024 | No | Discharge from petroleum factories | Nervous system, kidney, or liver problems | | |
| Synthetic Organic Chemical | | | | | | | | | |
| Di (2-ethylhexyl) phthalate | zero See note 3 | 0.006 | 0.0013 mg/L | 2024 | No | Discharge from rubber and chemical factories | Reproductive difficulties; liver problems; increased risk of cancer | | |
| Disinfection Byproducts | | | | | | | | | |
| Total Trihalomethanes (TTHMs) (Veterinary Clinic) | See Note 1 | 0.08 mg/L | 0.0342 mg/L | Range | | 2024 | No | Byproduct of drinking water disinfection | Some people who drink water containing trihalomethanes in excess of the MCL over many years may experience problems with their liver, kidneys, or central nervous systems, and may have an increased risk of getting cancer. |
| | | | | Low | High | | | | |
| | | | | 0.015 mg/L | 0.081 mg/L | | | | |

| | | | | | | | | | |
|---|---------------|--------------|----------------|----------------|----------------|------|----|--|--|
| Haloacetic Acids (Veterinary Clinic) | See Note 1 | 0.06 mg/L | 0.0086 mg/L | Range | | 2024 | No | Byproduct of drinking water disinfection | Some people who drink water containing haloacetic acids in excess of the MCL over many years may have an increased risk of getting cancer. |
| | | | | Low | High | | | | |
| | | | | 0.0042 mg/L | 0.0177 mg/L | | | | |
| Total Trihalomethanes (Main Base Water Tower Admin. Office) | See Note 1 | 0.08 mg/L | 0.0112 mg/L | Range | | 2024 | No | Byproduct of drinking water disinfection | Some people who drink water containing trihalomethanes in excess of the MCL over many years may experience problems with their liver, kidneys, or central nervous systems, and may have an increased risk of getting cancer. |
| | | | | Low | High | | | | |
| | | | | 0.0023 mg/L | 0.0226 mg/L | | | | |
| Haloacetic Acids (Main Base Water Tower Admin. Office) | See Note 1 | 0.06 mg/L | 0.0024 mg/L | Range | | 2023 | No | Byproduct of drinking water disinfection | Some people who drink water containing haloacetic acids in excess of the MCL over many years may have an increased risk of getting cancer. |
| | | | | Low | High | | | | |
| | | | | <0.002 mg/L | 0.0095 mg/L | | | | |
| Total Organic Carbon (Source) | See Note 2 | N/A | 2.31 mg/L | 2024 | | | No | Organic contaminants (natural organic substances, insecticides, herbicides, and other agricultural chemicals) | Total organic carbon (TOC) has no health effects. However, total organic carbon provides a medium for the formation of disinfection by products. These byproducts include trihalomethanes (TTHMs) and haloacetic acids (HAA5s). Drinking water containing these byproducts in excess of the MCL may lead to adverse health effects, liver or kidney problems, or nervous system effects, and may lead to an increased risk of getting cancer. |
| Alkalinity (Source) | See Note 2 | N/A | 55.5 mg/L | 2024 | | | No | Most alkalinity in water comes from calcium carbonate leached from rocks and soil. | |
| Alkalinity (Treated) | See Note 2 | N/A | 40.3 mg/L | 2024 | | | No | Most alkalinity in water comes from calcium carbonate leached from rocks and soil | |
| Total Organic Carbon (Treated) | See Note 2 | N/A | 1.11 mg/L | 2024 | | | No | Organic contaminants (natural organic substances, insecticides, herbicides, and other agricultural chemicals) | Total organic carbon (TOC) has no health effects. However, total organic carbon provides a medium for the formation of disinfection byproducts. These byproducts include trihalomethanes (THMs) and haloacetic acids (HAA5s). Drinking water containing these byproducts in excess of the MCL may lead to adverse health effects. |

| | | | | | | | |
|--|------|--------------------------|-------------|------------------------|----|---|--|
| Turbidity | zero | TT=1 NTU | 0.09 | 2024 ₆ | No | Soil runoff | Turbidity has no health effects. However, turbidity can interfere with disinfection and provide a medium for microbial growth. Turbidity may indicate the presence of disease-causing organisms. These organisms include bacteria, viruses, and parasites that can cause symptoms such as nausea, cramps, diarrhea and associated headaches. |
| | | TT=% of samples <0.3 NTU | 100% | 2024 ₆ | No | | |
| Radionuclide (Main Base Water Tower 1) | | | | | | | |
| Beta Particle and Photon Radioactivity (Main Base Water Tower 1) | zero | See Note 4 | 1.62 pCi/L | 2022~2023 ₇ | No | 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 | Some people who drink water containing beta particles and photon emitters in excess of the MCL over many years may have an increased risk of getting cancer. Exposure to uranium in drinking water may result in toxic effects to the kidney. |
| Gross Alpha | zero | 15 pCi/L | 1.035 pCi/L | 2023~2024 ₇ | No | Erosion of natural deposits of certain minerals that are radioactive and may emit a form of radiation known as alpha radiation | Increased risk of cancer |
| Combined Radium 226 and 228 | zero | 5 pCi/L | 0.036 pCi/L | 2023~2024 ₇ | No | Erosion of natural deposits | Increased risk of cancer |
| Uranium | zero | 30 ug/L as of 12/08/03 | 0.063 ug/L | 2023~2024 ₇ | No | Erosion of natural deposits | Increased risk of cancer, kidney toxicity |

Radionuclide (Main Base Water Tower 2)

| | | | | | | | |
|-------------------------------------|------|------------------------|-------------|-------------------------|----|---|---|
| Gross Alpha | zero | 15 pCi/L | 1.151 pCi/L | 2023 ~2024 ₇ | No | Erosion of natural deposits of certain minerals that are radioactive and may emit a form of radiation known as alpha radiation | Increased risk of cancer |
| Combined Radium 226 and Radium 228 | zero | 5 pCi/L | 0.004 pCi/L | 2023~2024 ₇ | No | Erosion of natural deposits | Increased risk of cancer |
| Uranium | zero | 30 ug/L as of 12/08/03 | 0.065 ug/L | 2023~2024 ₇ | No | Erosion of natural deposits | Increased risk of cancer, kidney toxicity |
| Gross Beta and Photon Radioactivity | zero | See Note 4 | 0.729 pCi/L | 2022~2023 ₇ | No | 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 | Some people who drink water containing beta particles and photon emitters in excess of the MCL over many years may have an increased risk of getting cancer. Exposure to uranium in drinking water may result in toxic effects to the kidney. |

Note:

1. Lead and copper are regulated by a treatment technique that requires systems to controls the corrosiveness of their water. If more than 10% of tap water samples exceed the action level, water systems must take additional steps.

2. The reported reading is the running annual average of quarterly averages of all samples taken in the distribution system.

Although there is no collective MCLG for this contaminant group, there are MCLGs for some of the individual contaminants:

- Trihalomethanes: bromodichloromethane (0 mg/L); bromoform (0 mg/L); dibromochloromethane (0.06 mg/L); chloroform (0.07 mg/L).
- Haloacetic acids: dichloroacetic acid (0 mg/L); trichloroacetic acid (0.02 mg/L); monochloroacetic acid (0.07 mg/L). Bromoacetic acid and dibromoacetic acid are regulated with this group but have no MCLGs.

3. Total organic carbon (TOC), a form of disinfection byproducts precursors has no known health effects. However, total organic carbon provides a medium for the formation of disinfection byproducts. These byproducts include trihalomethanes (TTHMs) and haloacetic acids (HAA5s). Drinking water containing these byproducts in excess of the MCL may lead to adverse health effects, liver, or kidney problems, or nervous system effects, and may lead to an increased risk of getting cancer. IAW 2024 JEGS, systems that use conventional filtration treatment (MB) must monitor each treatment plant water source for TOC on a quarterly basis. Samples must be taken from the source water prior to treatment and the treated water not later than the point of combined filter effluent turbidity monitoring. Source water alkalinity must also be monitored at the same time. Neither MCLG nor MCL are outlined in the regulation.

4. Contaminant was detected above JEGS reporting limit. However, this is still below 6.0 ug/L of JEGS MCL No immediate corrective action is required. Additional sample collection and monitoring is on-going IAW 2024 JEGS until one round of no detection is accomplished (e.g., Four consecutive quarters w/no detections).

5. According to the EPA guide (Radionuclides in Drinking Water: A Small Entity Compliance Guide), the system is in compliance if the results of testing for all beta and photon emitters is less than or equal to 50 pCi/L. EPA considers 50 pCi/L to be the level of concern for beta particles." If beta particles are detected above 50 pCi/ L, the water supplier must determine the

actual radioactive constituents present in the water to calculate the dose exposure level in mrem/year, and must report both the detected level and MCL as mrem/year.

6. Samples have previously been collected from the Misawa Air Base Sand Basin, which is only representative of water in the distribution system for part of the year. New sampling locations are Main Base Water Tower 1 and 2 which will better characterize drinking water throughout the entire calendar year.

7. Turbidity results recorded in this table were recorded in 1 hour intervals for combined filter effluent in 2024. Civil Engineering along with Drinking Water Working Group stakeholders are working to identify methods of monitoring individual filters every 15 minutes as described in Table 2.

8. Samples are calculating as running annual average, thus the dates spanning a year.

Table 6. Detected Contaminants for North Area Distribution System

| Contaminant | MCLG | MCL | Highest Results | Sample Date | Above MCL? | Typical Contaminant Source | Health Effects Language |
|------------------------|-----------|-----------|-----------------|-------------|------------|---|--|
| Inorganic Contaminants | | | | | | | |
| Nitrate | 10.0 mg/L | 10.0 mg/L | 0.18 mg/L | 2024 | No | Runoff from fertilizer use; leaching from septic tanks, sewage; erosion of natural deposits | Infants below the age of six months who drink water containing nitrate in excess of the MCL could become seriously ill and, if untreated, may die. Symptoms include shortness of breath and blue baby syndrome. |
| Arsenic | zero | 0.01 mg/L | 0.003 mg/L | 2022 | No | Erosion of natural deposits; runoff from orchards; glass & electronics production wastes | Some people who drink water containing arsenic in excess of the MCL over many years could experience skin damage or problems with their circulatory system, and may have an increased risk of getting cancer. |
| Chromium, Total | 2.0 mg/L | 2.0 mg/L | 0.001 mg/L | 2022 | No | Discharge from steel and pulp mills; erosion of natural deposits | Some people who use water containing chromium well in excess of the MCL over many years could experience allergic dermatitis. |
| Fluoride | 4.0 mg/L | 4.0 mg/L | 0.69 mg/L | 2022 | No | Water additive which promotes strong teeth; erosion of natural deposits; discharge from fertilizer and aluminum factories | Some people who drink water containing fluoride in excess of the MCL over many years could get bone disease, including pain and tenderness of the bones. Fluoride in drinking water at half the MCL or more may cause mottling of children's teeth, usually in children less than nine years old. Mottling, also known as dental fluorosis, may include brown staining |

| | | | | | | | | | |
|--|------------|-----------------------|---------------------|-------------------------|------|--|----|---|--|
| | | | | | | | | and/or pitting of the teeth, and occurs only in developing teeth before they erupt from the gums. | |
| Sodium | No MCLG | 200.0 mg/L | 11 mg/L | 2022 | No | Discharge from mines; discharge from petroleum refineries | | Sodium in drinking water is a more serious concern if you have a medical condition such as high blood pressure, or certain heart, kidney or liver diseases. | |
| Copper | 1.3 mg/L | Action Level 1.3 mg/L | 0.0112 mg/L | 2024 | No | Corrosion of household plumbing systems; erosion of natural deposits | | Copper is an essential nutrient, but some people who drink water containing copper in excess of the action level over a relatively short amount of time could experience gastrointestinal distress. Some people who drink water containing copper in excess of the action level over many years could suffer liver or kidney damage. People with Wilson's disease should consult their personal doctor. | |
| | | | 0 sites exceeded AL | | | | | | |
| Disinfection Byproducts | | | | | | | | | |
| Total Trihalomethanes (Lakeview Grill) | See Note 1 | 0.08 mg/L | 0.0024 mg/L | Range | | 2024 | No | Byproduct of drinking water disinfection | Some people who drink water containing trihalomethanes in excess of the MCL over many years may experience problems with their liver, kidneys, or central nervous systems, and may have an increased risk of getting cancer. |
| | | | | Low | High | | | | |
| | | | | N/A – annual monitoring | | | | | |
| Total Trihalomethanes (North Area Water Plant) | See Note 1 | 0.08 mg/L | 0.0027 mg/L | Range | | 2024 | No | Byproduct of drinking water disinfection | Some people who drink water containing trihalomethanes in excess of the MCL over many years may experience problems with their liver, kidneys, or central nervous systems, and may have an increased risk of getting cancer. |
| | | | | Low | High | | | | |
| | | | | N/A – annual monitoring | | | | | |

Radionuclide

| | | | | | | | |
|--|------|------------------------|-------------|-----------|----|---|---|
| Beta Particle and Photon Radioactivity | zero | See Note 2 | 5.58 pCi/L | 2022~2023 | No | 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 | Some people who drink water containing beta particles and photon emitters in excess of the MCL over many years may have an increased risk of getting cancer. Exposure to uranium in drinking water may result in toxic effects to the kidney. |
| Gross Alpha | zero | 15 pCi/L | 1.226 pCi/L | 2023 | No | Erosion of natural deposits of certain minerals that are radioactive and may emit a form of radiation known as alpha radiation | Increased risk of cancer |
| Combined Radium 226 and 228 | zero | 5 pCi/L | 0.136 pCi/L | 2023 | No | Erosion of natural deposits | Increased risk of cancer |
| Uranium | zero | 30 ug/L as of 12/08/03 | ug/L | 2023 | No | Erosion of natural deposits | Increased risk of cancer, kidney toxicity |

Note:

1. Lead and copper are regulated by a treatment technique that requires systems to controls the corrosiveness of their water. If more than 10% of tap water samples exceed the action level, water systems must take additional steps.

2. The reported reading is the running annual average of quarterly averages of all samples taken in the distribution system.

Although there is no collective MCLG for this contaminant group, there are MCLGs for some of the individual contaminants:

- Trihalomethanes: bromodichloromethane (0 mg/L); bromoform (0 mg/L); dibromochloromethane (0.06 mg/L): chloroform (0.07 mg/L).

- Haloacetic acids: dichloroacetic acid (0 mg/L); trichloroacetic acid (0.02 mg/L); monochloroacetic acid (0.07 mg/L).

Bromoacetic acid and dibromoacetic acid are regulated with this group but have no MCLGs

3. According to the EPA guide (Radionuclides in Drinking Water: A Small Entity Compliance Guide), the system in compliance if the system is vulnerable to contamination and the results of testing for all beta and photon emitters is less than or equal to 50 pCi/L. EPA considers 50 pCi/L to be the level of concern for beta particles." If beta particles are detected above 50 pCi/L, the water supplier must determine the actual radioactive constituents present in the water to calculate the dose exposure level in mrem/year, and must report both the detected level and MCL as mrem/year.

Table 7. Detected Contaminants for Security Hill Distribution System

| Contaminant | MCLG | MCL | Highest Result | | Sample Date | Above MCL? | Typical Contaminant Source | Health Effects Language |
|------------------------|-----------|-----------|----------------|--|-------------|------------|---|---|
| Inorganic Contaminants | | | | | | | | |
| Nitrate | 10.0 mg/L | 10.0 mg/L | 3.13 mg/L | | 2024 | No | Runoff from fertilizer use; leaching from septic tanks, sewage; erosion of natural deposits | Infants below the age of six months who drink water containing nitrate in excess of the MCL could become seriously ill and, if untreated, may die. Symptoms include shortness of breath and blue baby syndrome. |
| Sodium | No MCLG | 200 mg/L | 24 mg/L | | 2024 | No | Discharge from mines; discharge from petroleum refineries | |

| | | | | | | | | | |
|--|------------|-------------------------|---------------------|-------------------------|------|------|---|---|--|
| Lead ^{Note 1} | zero | Action Level 0.015 mg/L | 0.0059 mg/L | | 2024 | No | Corrosion of household plumbing systems; erosion of natural deposits | Infants and children who drink water containing lead in excess of the action level could experience delays in their physical or mental development. Children could show slight deficits in attention span and learning abilities. Adults who drink this water over many years could develop kidney problems or high blood pressure. | |
| | | | 1 site exceeded AL | | | | | | |
| Copper ^{Note 1} | 1.3 mg/L | Action Level 1.3 mg/L | 0.0027 mg/L | | 2024 | No | Corrosion of household plumbing systems; erosion of natural deposits. | Copper is an essential nutrient, but some people who drink water containing copper in excess of the action level over a relatively short amount of time could experience gastrointestinal distress. Some people who drink water containing copper in excess of the action level over many years could suffer liver or kidney damage. People with Wilson's disease should consult their personal doctor. | |
| | | | 0 sites exceeded AL | | | | | | |
| Disinfection Byproducts | | | | | | | | | |
| Total Trihalomethanes (Airman Leadership School) | See Note 2 | 0.08 mg/L | 0.0311 mg/L | Range | | 2024 | No | Byproduct of drinking water disinfection | Some people who drink water containing trihalomethanes in excess of the MCL over many years may experience problems with their liver, kidneys, or central nervous systems, and may have an increased risk of getting cancer. |
| | | | | Low | High | | | | |
| | | | | N/A – annual monitoring | | | | | |

| | | | | | | | | | |
|--|------------|-----------|-------------|-------------------------|------|------|----|--|--|
| Haloacetic Acids (500th MI Bridge) | See Note 2 | 0.06 mg/L | 0.0077 mg/L | Range | | 2024 | No | Byproduct of drinking water disinfection | Some people who drink water containing haloacetic acids in excess of the MCL over many years may have an increased risk of getting cancer. |
| | | | | Low | High | | | | |
| | | | | N/A – annual monitoring | | | | | |
| Total Trihalomethanes (Security Hill Water Plant) | See Note 2 | 0.08 mg/L | 0.0183 mg/L | Range | | 2024 | No | Byproduct of drinking water disinfection | Some people who drink water containing trihalomethanes in excess of the MCL over many years may experience problems with their liver, kidneys, or central nervous systems, and may have an increased risk of getting cancer. |
| | | | | Low | High | | | | |
| | | | | N/A – annual monitoring | | | | | |
| Haloacetic Acids (Security Hill Water Plant 500th MI Bridge) | See Note 2 | 0.06 mg/L | 0.0059 mg/L | Range | | 2024 | No | Byproduct of drinking water disinfection | Some people who drink water containing haloacetic acids in excess of the MCL over many years may have an increased risk of getting cancer. |
| | | | | Low | High | | | | |
| | | | | N/A – annual monitoring | | | | | |

- Note:
1. Lead and copper are regulated by a treatment technique that requires systems to controls the corrosiveness of their water. If more than 10% of tap water samples exceed the action level, water systems must take additional steps.
 2. The reported reading is the running annual average of quarterly averages of all samples taken in the distribution system.
- Although there is no collective MCLG for this contaminant group, there are MCLGs for some of the individual contaminants:
- Trihalomethanes: bromodichloromethane (0 mg/L); bromoform (0 mg/L); dibromochloromethane (0.06 mg/L); chloroform (0.07 mg/L).
 - Haloacetic acids: dichloroacetic acid (0 mg/L); trichloroacetic acid (0.02 mg/L); monochloroacetic acid (0.07 mg/L).
- Bromoacetic acid and dibromoacetic acid are regulated with this group but have no MCLGs.

9. What are per- and polyfluoroalkyl substances and where do they come from?

Per- and polyfluoroalkyl substances (PFAS) are a group of thousands of man-made chemicals. PFAS have been used in a variety of industries and consumer products around the globe, including in the U.S., since the 1940s. PFAS have been used to make coatings and products that are used as oil and water repellents for carpets, clothing, paper packaging for food, and cookware. They are also contained in some foams such as aqueous film-forming foam, or AFFF, used for fighting petroleum fires.

10. Is there a federal regulation for PFAS in drinking water?¹

Yes. On April 26, 2024, the Environmental Protection Agency (EPA) published a final National Primary Drinking Water Regulation for certain per- and polyfluoroalkyl substances (PFAS) under the Safe Drinking Water Act (SDWA). This rule went into effect on June 25, 2024 with a compliance deadline of April 26, 2029, five years from the date up publication. While the rule requires routine sampling for certain PFAS by no later than 2027, DoD has been sampling drinking water for PFAS compounds at all DoD-owned and operated water systems since 2017. Under the new rule, the following limits, called Maximum Contaminant Levels (MCL), were established, and DoD water systems will need to meet these levels by April 2029.

| PFAS | MCL |
|---|--------------------|
| PFOA | 4.0 ppt = 4 ng/L |
| PFOS | 4.0 ppt = 4 ng/L |
| PFHxS | 10 ppt = 10 ng/L |
| HFPO-DA (GenX) | 10 ppt = 10 ng/L |
| PFNA | 10 ppt = 10 ng/L |
| PFBS | n/a |
| Mixture of two or more: PFHxS, PFNA, HFPO-DA, and PFBS ² | HI of 1 (unitless) |

For systems where DoD provides drinking water, the Department is collecting the necessary sampling information and is taking actions to ensure compliance within the required 5-year timeframe. Currently, DoD is finalizing a policy on how to apply the EPA rule OCONUS.

11. Has Misawa AB tested its water for PFAS?

Yes. In April and October 2024 samples were collected from all water distribution systems, including Main Base, North Base and Draughon Range. We are informing you that the following PFAS compounds covered by the EPA PFAS drinking water rule were detected and the results are provided in Table 7-1 to 7-4. Misawa AB has been studying treatment alternatives to remove PFAS, and we will take action as required by the DoD OCONUS drinking water policy. **Additional sampling and its frequency, if needed, will also be determined once the DoD PFAS Policy for OCONUS installations have been finalized.** Misawa AB will be in compliance with the EPA PFAS drinking water MCL by the required deadline of April 2029. For more information on PFAS, please see <https://www.misawa.af.mil/>.

1 This language and language may need to change to reflect any promulgated state standards applicable to the installation. Any language changes should be vetted through respective headquarters and public health centers.

2. The sampling point is above the HI MCL if the HI exceeds the MCL and if two or more Hazard Index analytes had an observed sample analytical result at or above the PQL in any of the quarterly samples.

Table 7-1. Main Base Water System (Water 1)
Sample Date: 15 Apr 24

| Contaminant | ABBREV. | Analysis Method | Result | MCL (effective April 2029) | Typical Source |
|--------------------------------------|----------------|-----------------|------------|----------------------------|--|
| Perfluorohexane sulfonic acid | PFHxS | EPA533 | 25 ng/L | 10 ng/L | PFAS have been used in a variety of industrial and consumer products around the globe, including in the U.S., since the 1940s. PFAS have been used to make coatings and products that are used as oil and water repellents for carpets, clothing, food packaging, and cookware. They are also contained in some fire-fighting foams such as aqueous film-forming foam, or AFFF, used for fighting petroleum fires. |
| Perfluorooctane sulfonic acid | PFOS | EPA533 | 18 ng/L | 4 ng/L | |
| Perfluorooctanoic acid | PFOA | EPA533 | 3.4 ng/L | 4 ng/L | |
| Hexafluoropropylene Oxide Dimer Acid | HFPO-DA (GenX) | EPA533 | < 1.9 ng/L | 10 ng/L | |
| Perfluorononanoic acid | PFNA | EPA533 | < 1.9 ng/L | 10 ng/L | |

Table 7.1. Main Base Water System (Water Tower)
Sample Date: 21 Oct 24

| Contaminant | ABBREV. | Analysis Method | Result | MCL (effective April 2029) | Typical Source |
|--------------------------------------|----------------|-----------------|------------|----------------------------|--|
| Perfluorohexane sulfonic acid | PFHxS | EPA533 | 13 ng/L | 10 ng/L | PFAS have been used in a variety of industrial and consumer products around the globe, including in the U.S., since the 1940s. PFAS have been used to make coatings and products that are used as oil and water repellents for carpets, clothing, food packaging, and cookware. They are also contained in some fire-fighting foams such as aqueous film-forming foam, or AFFF, used for fighting petroleum fires. |
| Perfluorooctane sulfonic acid | PFOS | EPA533 | 7.3 ng/L | 4 ng/L | |
| Perfluorooctanoic acid | PFOA | EPA533 | < 1.9 ng/L | 4 ng/L | |
| Hexafluoropropylene Oxide Dimer Acid | HFPO-DA (GenX) | EPA533 | < 1.9 ng/L | 10 ng/L | |
| Perfluorononanoic acid | PFNA | EPA533 | < 1.9 ng/L | 10 ng/L | |

Table 7-2. Main Base Water System (Water Tower 2)
Sample Date: 15 April 24

| Contaminant | ABBREV. | Analysis Method | Result | MCL (effective April 2029) | Typical Source |
|-------------------------------|---------|-----------------|----------|----------------------------|--|
| Perfluorohexane sulfonic acid | PFHxS | EPA533 | 26 ng/L | 10 ng/L | PFAS have been used in a variety of industrial and consumer products around the globe, including in the U.S., since the 1940s. PFAS have been used to make |
| Perfluorooctane sulfonic acid | PFOS | EPA533 | 19 ng/L | 4 ng/L | |
| Perfluorooctanoic acid | PFOA | EPA533 | 3.2 ng/L | 4 ng/L | |

| | | | | | |
|--------------------------------------|----------------|--------|------------|---------|---|
| Hexafluoropropylene Oxide Dimer Acid | HFPO-DA (GenX) | EPA533 | < 1.9 ng/L | 10 ng/L | coatings and products that are used as oil and water repellents for carpets, clothing, food packaging, and cookware. They are also contained in some fire-fighting foams such as aqueous film-forming foam, or AFFF, used for fighting petroleum fires. |
| Perfluorononanoic acid | PFNA | EPA533 | < 1.9 ng/L | 10 ng/L | |

Table 7-2. Main Base Water System (Water Tower 2)
Sample Date: 21 Oct 24

| Contaminant | ABBREV. | Analysis Method | Result | MCL (effective April 2029) | Typical Source |
|--------------------------------------|----------------|-----------------|------------|----------------------------|--|
| Perfluorohexane sulfonic acid | PFHxS | EPA533 | 13 ng/L | 10 ng/L | Runoff from firefighting foam/other every day products |
| Perfluorooctane sulfonic acid | PFOS | EPA533 | 7.2ng/L | 4 ng/L | |
| Perfluorooctanoic acid | PFOA | EPA533 | < 1.9 ng/L | 4 ng/L | Perfluorooctanoic acid |
| Hexafluoropropylene Oxide Dimer Acid | HFPO-DA (GenX) | EPA533 | < 1.9 ng/L | 10 ng/L | Hexafluoropropylene Oxide Dimer Acid |
| Perfluorononanoic acid | PFNA | EPA533 | < 1.9 ng/L | 10 ng/L | Perfluorononanoic acid |

Table 7-3. North Area Water System
Sample Date: 21 Oct 24

| Contaminant | ABBREV. | Analysis Method | Result | MCL (effective April 2029) | Typical Source |
|--------------------------------------|----------------|-----------------|------------|----------------------------|---|
| Perfluorohexane sulfonic acid | PFHxS | EPA533 | 8.1 ng/L | 10 ng/L | PFAS have been used in a variety of industrial and consumer products around the globe, including in the U.S., since the 1940s. PFAS have been used to make coatings and products that are used as oil and water repellents for carpets, clothing, food packaging, and cookware. They are also contained in some fire-fighting foams such as aqueous film-forming foam, or AFFF, used for fighting petroleum fires.. |
| Perfluorooctane sulfonic acid | PFOS | EPA533 | 11 ng/L | 4 ng/L | |
| Perfluorooctanoic acid | PFOA | EPA533 | 4.3 ng/L | 4 ng/L | |
| Hexafluoropropylene Oxide Dimer Acid | HFPO-DA (GenX) | EPA533 | < 1.9 ng/L | 10 ng/L | |
| Perfluorononanoic acid | PFNA | EPA533 | < 1.9 ng/L | 10 ng/L | |

**Table 7-4. Draughon Range Tower Area System
Sample Date: 15 Apr 24**

| Contaminant | ABBREV. | Analysis Method | Result | MCL (effective April 2029) | Typical Source |
|--------------------------------------|----------------|-----------------|------------|----------------------------|--|
| Perfluorohexane sulfonic acid | PFHxS | EPA533 | 4.2 ng/L | 10 ng/L | PFAS have been used in a variety of industrial and consumer products around the globe, including in the U.S., since the 1940s. PFAS have been used to make coatings and products that are used as oil and water repellents for carpets, clothing, food packaging, and cookware. They are also contained in some fire-fighting foams such as aqueous film-forming foam, or AFFF, used for fighting petroleum fires. |
| Perfluorooctane sulfonic acid | PFOS | EPA533 | 11 ng/L | 4 ng/L | |
| Perfluorooctanoic acid | PFOA | EPA533 | < 1.9 ng/L | 4 ng/L | |
| Hexafluoropropylene Oxide Dimer Acid | HFPO-DA (GenX) | EPA533 | < 1.9 ng/L | 10 ng/L | |
| Perfluorononanoic acid | PFNA | EPA533 | < 1.9 ng/L | 10 ng/L | |

**Table 7-4. Draughon Range Tower Area System
Sample Date: 21 Oct 24**

| Contaminant | ABBREV. | Analysis Method | Result | MCL (effective April 2029) | Typical Source |
|--------------------------------------|----------------|-----------------|------------|----------------------------|--|
| Perfluorohexane sulfonic acid | PFHxS | EPA533 | 2.9 ng/L | 10 ng/L | PFAS have been used in a variety of industrial and consumer products around the globe, including in the U.S., since the 1940s. PFAS have been used to make coatings and products that are used as oil and water repellents for carpets, clothing, food packaging, and cookware. They are also contained in some fire-fighting foams such as aqueous film-forming foam, or AFFF, used for fighting petroleum fires. |
| Perfluorooctane sulfonic acid | PFOS | EPA533 | 11 ng/L | 4 ng/L | |
| Perfluorooctanoic acid | PFOA | EPA533 | < 1.9 ng/L | 4 ng/L | |
| Hexafluoropropylene Oxide Dimer Acid | HFPO-DA (GenX) | EPA533 | < 1.9 ng/L | 10 ng/L | |
| Perfluorononanoic acid | PFNA | EPA533 | < 1.9 ng/L | 10 ng/L | |

Note: Results for Security Hill systems were below the limit of detection. Water System consists of wells, treatment facilities and distribution points

12. Where can we get more information?

Additional information regarding on-base water quality may be obtained by contacting the Bioenvironmental Engineering Flight at 226-6010 or email us at usaf.misawa.35-mdg.list.35-omrs-sgxb@mail.mil. Public participation in decisions affecting drinking water quality may also be arranged through the Bioenvironmental Engineering. In addition, customers can address any drinking water concerns during the quarterly Drinking Water Working Group meeting. Please contact 226-6010 for more information or to make an appointment to attend the meeting. This report is located on the Misawa Air Base web site at <http://www.misawa.af.mil>. The EPA's drinking water web site provides additional information at <http://water.epa.gov/drink/>. For more information on the 2024 JEGS please go to <https://www.usfj.mil/Resources/JEGS/>.