

Consumer Confidence Report Naval Air Station Whidbey Island January 1 – December 31, 2016

Naval Air Station (NAS) Whidbey Island owns and operates a community drinking water system, providing purchased, treated drinking water to employees, residents and visitors. The following water quality information is being provided to you, our consumer, in accordance with the Federal Safe Drinking Water Act, as implemented by the U.S. Environmental Protection Agency (EPA) and Washington State Department of Health (DOH) regulations. **Throughout 2016, the drinking water distributed through the Navy water system consistently met all federal and state drinking water health standards.**

Where does my drinking water come from? The NAS Whidbey Island water supply comes from the water treatment plant facility at Mount Vernon, owned and operated by the City of Anacortes. Raw water from the Skagit River is pumped to the plant where it undergoes full treatment including screening, filtration, and disinfection to make it safe. The treated water is then pumped to Whidbey Island via pipeline and enters the NAS Whidbey Island water system. The water system aboard NAS Whidbey Island is operated by the base operating services contractor, whose contract is managed by the base Public Works Department. The Environmental Division reports water sampling results to ensure compliance with EPA and DOH regulations. Water treatment aboard NAS Whidbey Island includes adding fluoride to strengthen teeth and chlorine to ensure adequate disinfection. On July 16, 2016 fluoridation was temporarily discontinued while the fluoridation system is being replaced. The new fluoridation system is expected to be in operation by end of summer 2017.

What's in my drinking water? As water travels over the surface of the land or through the ground, it dissolves naturally occurring minerals and can pick up other 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 storm water runoff, industrial or domestic wastewater discharges, oil and gas production, mining and 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, are the potential by-products of various industrial processes, petroleum storage and handling, gas station operations, urban storm water runoff, and septic systems.
- Radioactive contaminants, which can be naturally occurring or be the result of oil and gas production and mining operations.

How is the safety of my drinking water ensured? To ensure your tap water is safe to drink, EPA prescribes regulations which limit the amount of certain contaminants in water provided by public water systems. Your water is monitored daily for chlorine and fluoride treatment levels, monthly for the presence of coliform bacteria, and quarterly in four locations for chlorine disinfection by-products. It is monitored every three years for lead, copper, and asbestos. During calendar year 2016, there were no elevated levels of these substances or violations of drinking water regulations in your delivered tap water. Food and Drug Administration regulations establish limits for contaminants in bottled water, which must provide the same

protection for public health. Drinking water, including bottled water, may reasonably be expected to contain at least small amounts of 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).

How can my health be affected? 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 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 their drinking water from their health care providers. EPA and Center for Disease Control guidelines on appropriate means to lessen the risk of infection by cryptosporidium and other microbial contaminants are available from the EPA Safe Drinking Water Hotline (1-800-426-4791).

What about lead in my drinking water? EPA and Washington State regulations require NAS Whidbey Island to monitor for presence of lead and copper at household and building taps every 3 years. Lead was last tested in 2016 and one exceedance was detected out of 30 locations sampled. This means more than 90% of results were less than EPA's action level of 15 parts per billion (ppb). If present in your drinking water, lead can cause serious health problems, especially for pregnant women and children. It is possible that lead levels in your home may be higher compared to others due to plumbing construction and service lines. 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 it for drinking or cooking. Additional information about lead in your water is available from the EPA Safe Drinking Water Hotline (1-800-426-4791).

What about other contaminants? The City of Anacortes Water Treatment Plant, as NAS Whidbey Island's water supplier, is required to test for water contaminants at the water source. They reported no detected levels or exceedances of coliform bacteria, cryptosporidium, giardia, radionuclides, turbidity, and inorganic or organic chemicals in the treated drinking water. You can find the City of Anacortes' Consumer Confidence Report at the following link: <http://www.cityofanacortes.org/reports.php>

Due to the consistently high quality of your drinking water, there has been no need for a public meeting to discuss decisions affecting the water quality. If such a meeting becomes necessary in the future, it will be publicized in the NAS Whidbey Island Plan of the Week, NAS Whidbey Island website, and social media.

What can I do to save water?

Water is one of our most precious resources. As summer approaches and rainfall becomes scarce, it is particularly important to conserve water at home. Since 2007, NASWI has saved over 460 million gallons of water - enough to fill CenturyLink Field to the roof...twice! Saving water helped NAS Whidbey Island win the 2016 Secretary of the Navy Energy and Water Management Award, Navy Shore Activity Large. Let's continue the conservation effort, by saving water every day! For more information on water conservation techniques please contact Jaime Jensen at 360-257-5631.

How can I find out more? For drinking water quality comments or questions, please contact the Environmental Division, Public Works Department, Whidbey Island at (360) 257-5631.

The following table presents the regulatory limits and sampling results for contaminants which NAS Whidbey Island routinely monitors:

LEAD AND COPPER - Tested at customers' taps. Testing is done every 3 years; last done in 2016 and due again in 2019.						
Contaminant	EPA's Action Level	Ideal Goal (EPA's MCLG)	90% of Test Levels Were Less Than	Samples Exceeding EPA's Action Level	Violation	Typical Sources
Lead	90% of homes less than 15 ppb	0 ppb	3.00 ppb	1 out of 30	NO	Corrosion of household plumbing systems.
Copper	90% of homes less than 1.3 ppm	1.3 ppm	0.089 ppm	0 out of 30	NO	Corrosion of household plumbing systems.
INORGANIC CHEMICALS - Chloride and Fluoride tested daily						
Contaminant	Highest Level Allowed (EPA's MRDL)	Ideal Goal (EPA's MRDLG)	Highest Result	Range of Test Results	Violation	Typical Sources
Chlorine	4 ppm	4 ppm	1.00 ppm	0.10-1.00 ppm	NO	Added as a drinking water disinfectant.
Contaminant	Highest Level Allowed (EPA's MCL)	Ideal Goal (EPA's MCLG)	Highest Result	Range of Test Results	Violation	Typical Sources
Fluoride (ppm)	4 ppm	4 ppm	1.07 ppm	0.47-1.07 ppm	NO	Erosion of natural deposits or water additive which promotes strong teeth.
DISINFECTION BY-PRODUCTS - Tested quarterly at 4 locations in the water system						
Contaminant	Highest Level Allowed (EPA's MCL)	DOH Trigger Level	Average Level Detected	Range of Average Results	Violation	Typical Sources
Total Trihalomethanes	80 ppb	60	29.0 ppb	18.3-48.4 ppb	NO	By-product of drinking water disinfection.
Total Haloacetic Acids	60 ppb	45	13.9 ppb	10.8-16.4 ppb	NO	By-product of drinking water disinfection.
<p>How to Read the Water Quality Data Table: EPA establishes the safe drinking water regulations that limit the amount of contaminants allowed in drinking water. The table shows the concentrations of detected substances in comparison to regulatory limits. Substances not detected are not included in the table with the exception of total coliform bacteria, which was not detected in 2016.</p> <p>Action Level (AL). Action Level is the concentration of lead or copper in drinking water which, if exceeded, may trigger additional water treatment or other corrective actions.</p> <p>DOH Trigger Level. If substances are detected above this level, WA DOH requires more frequently sampling.</p> <p>Maximum Contaminant Level or MCL. 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.</p> <p>Maximum Contaminant Level Goal or MCLG. 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.</p> <p>Maximum Residual Disinfectant Level (MRDL). The highest level of a disinfectant allowed in drinking water.</p> <p>Maximum Residual Disinfectant Level Goal (MRDLG). 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.</p> <p>N/A = not applicable; ND = non-detectable by EPA required lab analysis method (DOH reporting limit is 1 ppb).</p> <p>Units in the Table: ppm is parts per million; ppb is parts per billion.</p>						