



U.S. NAVAL SUPPORT ACTIVITY NAPLES SATCOM LAGO PATRIA

2024 DRINKING WATER CONSUMER CONFIDENCE REPORT



Is our water safe to drink?

1. Yes. Naval Support Activity (NSA) Naples SATCOM Lago Patria (SATCOM) drinking water system provides water that is safe and "Fit For Human Consumption" (i.e. water that is safe for drinking, cooking, bathing, showering, dishwashing and maintaining oral hygiene) as determined by the Installation Commanding Officer's Record of Decision dated 27 February 2014 and as routinely confirmed by laboratory sampling results (received weekly, monthly, quarterly, and yearly). We are proud to support the Navy's commitment to provide safe and reliable drinking water to our service members and their families. This annual Consumer Confidence Report for calendar year 2024 includes general and mandatory information to educate everyone about our water sources, treatment processes, standard requirements, and other details to help assure you that our water is safe to drink.
2. Our drinking water fully complies with the Department of Defense's (DoD) Italy Environmental Final Governing Standards (FGS), which are derived from the U.S. DoD Overseas Environmental Baseline Guidance Document (OEBGD), the U.S. Environmental Protection Agency (EPA) and Italy's drinking water standards. When Italy and U.S. standards differ, the FGS adopts the *most protective* requirement. A detailed list of constituents found in our drinking water is included in this report, along with a comparison to the maximum levels considered safe for the public by these standards.

Where does our water come from and how is it treated?

3. SATCOM receives drinking water from the West Campania Aqueduct that collects ground and surface water from springs and wells in the Cassino area northwest of Naples. Chlorine dioxide for water disinfection is added at the Cassino and San Prisco Water Treatment Plants. Naval Facilities Engineering Systems Command (NAVFAC) Naples Public Works Department further treats the water and adds sodium hypochlorite (a form of chlorine) as disinfectant to ensure that SATCOM's tap water meets all aforementioned regulatory requirements throughout the water distribution system.

Why are there contaminants in drinking water?

4. Drinking water, including bottled water, may reasonably be expected to contain small amounts of some contaminants. 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.
5. Due to this, some contaminants may be present in source drinking water, such as:
 - (a) **Microbial contaminants**, such as viruses and bacteria, that may come from wildlife, sewage treatment plants, septic systems, and livestock;
 - (b) **Pesticides and herbicides**, which may come from a variety of sources such as agriculture, urban storm water runoff, and residential uses;
 - (c) **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;

(d) **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

(e) **Radioactive contaminants**, which can be naturally occurring or be the result of oil and gas production and mining activities.

6. The presence of contaminants does not necessarily indicate that water poses a health risk. In order to ensure that tap water is safe to drink, regulations limit the amount of certain contaminants in water provided by public water systems. Regular sampling is conducted to detect the level of contaminants in the water system. If the results are above regulatory limits, you will be notified by e-mail and Public Notification. You can learn more about contaminants and any potential health effects by visiting the EPA's Drinking Water Standards web site:

<https://www.epa.gov/ground-water-and-drinking-water/national-primary-drinking-water-regulations>

Source water assessment

7. In May 2024, the Naval Facilities Engineering Systems Command (NAVFAC) together with the Navy & Marine Corps Force Health Protection Command (NMCFHPC) conducted a comprehensive sanitary survey of the SATCOM drinking water system. Sanitary surveys performed every three years provide an evaluation of the adequacy of the drinking water source, facilities, equipment, operation and maintenance for producing and distributing safe drinking water. NAVFAC is continually improving the drinking water system based on the recommendations contained in the sanitary survey reports.

Some people must use special precautions

8. There are people who 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 following USEPA Safe Drinking Water webpage <https://www.epa.gov/ground-water-and-drinking-water>

Additional information for lead

9. EPA's recent revision of the Lead and Copper Rule requires drinking water systems to develop an inventory of their service lines that connect water mains to building inlets in order to identify the materials and location of each service line. Based on the material they are made of, service lines are to be categorized as either "Lead", "Galvanized Requiring Replacement", "Non-Lead" or "Unknown". In 2024 NAVFAC completed a review of the SATCOM distribution system maps and drawings, and conducted a base wide visual inspection of each service line that connects the SATCOM buildings to the water main. All of the 6 SATCOM service lines have been categorized as "Non-Lead", meaning the distribution system has no service lines that are categorized as "Lead," "Galvanized Requiring Replacement," or "Unknown". For more information on the service line categories or on the inventory please check the Service Line Categories Definitions in Table 4 and/or call the numbers listed in the last section of this CCR.

10. 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. NAVFAC Naples Public Works 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, please call the numbers listed in the last section of this CCR. Information on lead in drinking water, testing methods, and steps you can take to minimize exposure is available at: www.epa.gov/safewater/lead

Water Quality Data Table

11. During 2024, more than 800 tests were performed on SATCOM drinking water for over 150 contaminants. Unless otherwise noted, Tables 1 and 2 below only lists the contaminants that were detected during calendar year 2024. The presence of contaminants in the water does not necessarily indicate that the water poses a health risk. All contaminants detected in NSA Naples SATCOM's drinking water are below the Maximum Contaminant Levels (MCLs) allowed by FGS and EPA applicable requirements.

Table 1: Water Quality Data

Contaminants	MCLG or MRDLG	EPA MCL, TT, or MRDL	FGS MCL	Your Water	Range		Sample Year	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	4 ¹	0.54 ²	0.29	0.54	2024	No	Water additive used to control microbes
Chlorine Dioxide (ppb)	800	800	800 ¹	50 ²	10	50	2024	No	Water additive used to control microbes
Chlorite (ppm)	0.8	1	0.70	0.174	ND	0.174	2024	No	By-product of drinking water disinfection
TTHMs [Total Trihalomethanes] (ppb)	NA	80	30	7.72 ²	NA		2024	No	By-product of drinking water disinfection
Inorganic Contaminants									
Ammonium (ppm)	NA	NA	0.50	0.060	ND	0.060	2024	No	Discharge of drilling wastes; Discharge from metal refineries; Erosion of natural deposits

Contaminants	MCLG or MRDLG	EPA MCL, TT, or MRDL	FGS MCL	Your Water	Range		Sample Year	Violation	Typical Source
					Low	High			
Arsenic (ppm)	4	4	0.010	0.0020	ND	0.0020	2024	No	Discharge of drilling wastes; Discharge from metal refineries; Erosion of natural deposits
Chlorides (ppm)	NA	250 ³	250	35.1	NA		2024	No	Erosion of natural deposits
Fluoride (ppm)	4	4	4	0.130	NA		2024	No	Erosion of natural deposits; Water additive which
Nitrate [measured as Nitrogen] (ppm)	10	10	10	0.568	0.117	0.568	2024	No	Runoff from fertilizer use; Leaching from septic tanks, sewage; Erosion of natural deposits
Sodium (ppm)	NA	200	160	140.2	13.9	140.2	2024	No	Erosion of natural deposits
Sulfate (ppm)	NA		250	0.66	NA		2024	No	Discharge from mines and smelters and from kraft pulp and paper/textile mills and tanneries
Radioactive Contaminants (Tested every 4 years)									
Radium [Combined 226/228] (pCi/L)	0	5	5	2.04	ND	2.04	2024	No	Erosion of natural deposits
NOTES: * For more information see the "Violations and Exceedances" section below ¹ MCL from DoD Manual Overseas Environmental Baseline Guidance Document (OEBGD) ² Samples collected in the drinking water distribution system ³ SMCL; EPA secondary MCL									

Table 2: Contaminants at Consumer Taps

Inorganic Contaminants at Consumer Taps ¹									
Contaminants	MCLG	AL	Your Water	Range		# Samples Exceeding AL	Sample Year	Exceeds AL	Typical Source
Copper [Action level at consumer taps] (ppm)	1.3	1.3	0.019	0.011	0.020	0	2022	No	Corrosion of household plumbing systems; Erosion of natural deposits
Lead – [Action level at consumer taps] (ppb)	0	15	ND	ND	ND	0	2022	No	
NOTES: ¹ The complete lead tap sampling data are available for review. For more information, please call the numbers listed in the last section of this CCR.									

Table 3: Unit Descriptions

Unit Descriptions	
<u>Term</u>	<u>Definition</u>
NA	NA: not applicable
ND	ND: Not detected
NR	NR: Monitoring not required, but recommended
pCi/L	pCi/L: picocuries per liter (a measure of radioactivity)
ppb	ppb: parts per billion, or micrograms per liter (µg/L)
ppm	ppm: parts per million, or milligrams per liter (mg/L)
ppt	ppt: parts per trillion, or nanograms per liter (ng/L)
PQL	Practical Quantitation Limit of the best method

Table 4: Definitions

Important Drinking Water Definitions	
<u>Term</u>	<u>Definition</u>
AL	Action Level. The concentration of a contaminant which, if exceeded, triggers treatment or other requirements.
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.
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.
MNR	Monitored Not Regulated.

MPL	State Assigned Maximum Permissible Level.
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 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.
SMCL	Secondary Maximum Contaminant Level. The level of a contaminant established as a guideline that is not considered to present a risk to human health at the SMCL.
TT	Treatment Technique. A required process intended to reduce the level of a contaminant in drinking water.
Variances and Exemptions	EPA permission not to meet an MCL or a treatment technique under certain conditions.
Service Line Categories Definitions	
Galvanized requiring replacement service line	A galvanized service line that currently is or ever was downstream of a lead service line; or is currently downstream of a lead status unknown service line. For this definition, downstream means in the direction of flow through the service line.
Lead service line	A service line that is made of lead or where a portion of the service line is made of lead.
Non-Lead service line	A service line that is determined through an evidence-based record, method, or technique not to be a lead or galvanized requiring replacement service line.
Unknown service line	A service line whose pipe material has not been demonstrated to be a lead service line, galvanized requiring replacement service line, or a non-lead service line.
Service line	A portion of pipe that connects the water main to the building inlet.

Violations and Exceedances

12. No drinking water quality violations or exceedances occurred during 2024.

Points of Contact

13. If you have any questions regarding this report or about the drinking water treatment processes, please contact the Public Works Department Environmental Office, members of the Installation Water Quality Board, at DSN: 626-6644 or commercial: 081-568-6644.

14. For any water supply-related health questions, please contact the U.S. Naval Hospital Naples Preventive Medicine Office, members of the Installation Water Quality Board, at 081-568-5486, or 081-811-4170.