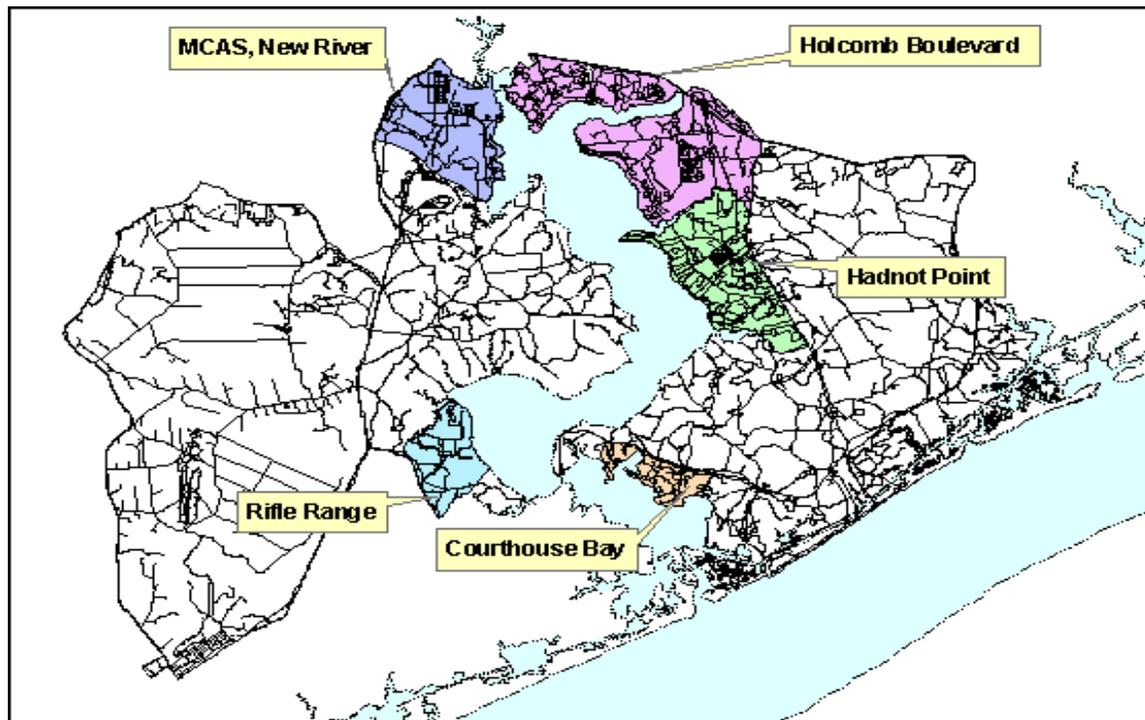


## 2002 Water Quality Report for Hadnot Point Water Treatment System



### For more information

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# 2002 Water Quality Report for Hadnot Point Water System

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## **Is my water safe?**

MCB, Camp Lejeune is committed to providing you with drinking water that is safe and reliable. We believe that providing you with accurate information about your water is the best way to assure you that your water is safe. This 2002 Water Quality Report for the Hadnot Point Water Treatment System explains where your water comes from and lists all of the contaminants detected in your drinking water. We routinely test your water for over 80 different EPA regulated chemical and microbiological contaminants. We are happy to report that last year your tap water met all U.S. Environmental Protection Agency (EPA) and State drinking water health standards.

## **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?**

The Hadnot Point community water system obtains water from 31 groundwater wells located on Base. Groundwater is pumped from the Castle Hayne aquifer, approximately 180 feet below the ground. This water, which is relatively free of contaminants, is pumped from the wells to a water treatment plant located on the main portion of the Base. As the raw water enters the storage reservoir, chlorine is added to protect against microbial contamination. Raw water pumps are used to move the water from the reservoir to a set of large, cone-shaped devices called spiractors. The spiractors are used to soften the water by removing minerals. Lime is added at the bottom of the spiractors to assist in the softening process. The water is then passed through a set of filters, which contain layers of sand and carbon, to remove particles through a process called filtration. Fluoride (to prevent tooth decay) is added to the water as it is placed in a large storage tank called a clearwell. When customers need water, treated water is pumped from the clear well and distributed throughout the Hadnot Point community water system.

## **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, 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 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 by-products of industrial processes and petroleum production 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. 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 that must provide the same protection for public health.

### Educational Statement for Lead

Infants and young children are typically more vulnerable to lead in drinking water than the general population. It is possible that lead levels at your home may be higher than at other homes in the community as a result of materials used in your home's plumbing. If you are concerned about elevated lead levels in your home's water, you may wish to have your water tested and flush your tap for 30 seconds to two (2) minutes before using tap water. Additional information is available from Safe Drinking Water Hotline (800-426-4791).

## Water Quality Data Table

The table below lists all of the drinking water contaminants that we detected during the calendar year of this report. The presence of contaminants in the water does not necessarily indicate that the water poses a health risk. 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 change frequently.

Contaminants (units)	MCLG	MCL	Your Water	Range Low	High	Sample Date	Violation	Typical Source
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<b>Volatile Organic Contaminants</b>								
TTHMs [Total Trihalomethanes] (ppb)	NA	100	29.65	22.6	35	----	No	By-product of drinking water chlorination

Contaminant(s) (units)	MCLG	AL	Your Water	# of Samples > AL	Sample Date	Exceeds AL	Typical Source
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<b>Inorganic Contaminants</b>							
Copper (ppm)	1.3	1.3	0.074	0	<b>2001 Data</b>	No	Erosion of natural deposits; Leaching from wood preservatives; Corrosion of household plumbing systems

Lead (ppb)	0	15	15	5	<b>2001 Data</b>	No	Corrosion of household plumbing systems; Erosion of natural deposits
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**Units Description:**

NA: Not applicable

ND: Not detected

NR: Not reported

MNR: Monitoring not required, but recommended.

ppm: parts per million, or milligrams per liter (mg/L)

ppb: parts per billion, or micrograms per liter (µg/L)

## **Important Drinking Water Definitions:**

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

**Contaminant:** Any natural or man-made physical, chemical, biological, or radiological substance or matter in water, which is at a level that may have an adverse effect on public health, and which is known or anticipated to occur in public water systems.

**Coliform:** A group of bacteria commonly found in the environment. They are an indicator of potential contamination of water. Adequate and appropriate disinfection effectively destroys coliform bacteria.

**Disinfection:** A process that effectively destroys coliform bacteria.

**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.

**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:** Maximum residual disinfectant level. There is convincing evidence that addition of a disinfectant is necessary for control of microbial contaminants.

**Nitrates:** A dissolved form of nitrogen found in fertilizers and sewage by-products that may leach into groundwater and other water sources. Nitrates may also occur naturally in some waters.

**NTU:** (Nephelometric turbidity unit) A measure of the clarity of water.

**Pathogens:** (Disease-causing pathogens, waterborne pathogens) A pathogen is a bacterium, virus, or parasite that causes or is capable of causing disease. Pathogens may contaminate water and cause waterborne disease.

**pCi/L:** (picocuries per liter) A measurement of radiation released by a set amount of a certain compound.

**pH:** A measure of the acidity or alkalinity of water.

**ppb, ppm:** (Part per billion, part per million) Measurements of the amount of contaminant per unit of water. A part per million is like one cent in \$10,000 and a part per billion is like one cent in \$10,000,000.

**THM:** (Trihalomethanes) Four separate compounds (chloroform, dichlorobromomethane, dibromochloromethane, and bromoform) that form as a result of disinfection.