Marine Corps Base Quantico 2011 Annual Drinking Water Quality Report

Camp Upshur Water System PWSID 6153063





Introduction

Marine Corps base Quantico, Installation and Environment Division, is pleased to present the Base's *Camp Upshur* Annual water Quality Report for 2011. This report is designed to inform you about the quality of water and services we deliver to you every day.

Our constant goal is to provide you, the consumer, with a safe and dependable supply of drinking water.

We are committed to ensuring the quality of your water. To help us meet this goal, we have established a water quality response team. Personnel from the Base Naval Health Clinic join with our Water Quality Assurance Technician, to respond to customer concerns and water quality questions. Together, they have the resources to test the chemical and bacteriological quality at the consumers tap.

Our water sources for the Camp Upshur distribution system (PWSID No. 6153063) are two deep wells.

Summary

The Camp Upshur water system routinely monitors for constituents in your drinking water according to State and Federal laws. This report shows the results of our monitoring for the period **January 1 through December 31, 2011**.

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;
- iv. 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.

In order to ensure that tap water is safe to drink, USEPA prescribes regulations that limit the amount of certain contaminants in water provided by public water systems. U.S> Food and Drug Administration (FDA) regulations establish limits for contaminants in bottled water which provide the same protection for public health.

Drinking water, including bottled water, may reasonably be expected to contain at least a small amount of some contaminants. The presence of contaminants does not necessarily indicate that the water poses a health risk. More information about drinking water contaminants and potential health effects can be obtained by calling the USEPA's Safe Drinking water Hotline at 1-800-426-4791 or visiting their website at http://water.epa.gov/drink/index.cfm.

The Facts

This report contains information on all regulated contaminants found in your drinking water. Additionally, over 85 water tests are performed for a variety of contaminant not found in the water delivered to the Base. An explanation of the results is included in a data table at the end of this report.

Maximum Contaminant Levels (MCL's) are set at very stringent levels by the USEPA. In developing the standards USEPA assumes that the average adult drinks 2 liters of water each day throughout a 70-year life span. USEPA generally sets MCL's at levels that will result in no adverse health effects for some contaminants or a one-in-ten-thousand to one-in-amillion chance of having the described health effect for other contaminants.

The VDH conducted a source water assessment in 2002. The purpose was to determine the relative susceptibility of the source water to activities in the watershed. The source water was calculated to have a high susceptibility to contamination due to ongoing Base activities. There was no evidence of contamination of the water source in any of our testing.

Microbial Analysis

Total Coliform: *Coliforms* are bacteria that are present naturally in the environment and are used as an indicator that other, potentially harmful bacteria, may be present.

When Coliform bacteria are found, special follow-up tests are done to determine if harmful bacteria are present in the water supply. If the limit is exceeded, the water supplier must notify the public by newspaper, radio, or television.

We are pleased to report there were no positive bacteriological samples taken from the Camp Upshur distribution system.

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Systems

We have three different sources of water at Marine Corps Base Quantico, depending geographically where you are located.

We encourage our customers to contact us to report their observations. At that time, we will visit the site and determine if we need to run additional tests.

If you have any questions about this report or concerning your water utility, please contact Mr. Larry Weedon, Utility Supervisor at (703) 784-2246 or (703) 432-0698.

Should Some People Take Special Precautions?

Some people may be more vulnerable to contaminants in drinking water than the general population.

Immune system compromised persons such as persons with cancer undergoing chemotherapy, people who have undergone organ transplants, people with HIV/AIDS or other immune system disorders, some elderly and infants can be partially at risk from infections. These people should seek advice about drinking water from their health care providers.

USEPA/CDC guidelines on appropriate means to lessen the risk of infection by cryptosporidium and other microbiological contaminants are available from the USEPA Safe Drinking Water Hotline at 1-800-426-4791. We constantly monitor the water supply for various contaminants.

We strongly recommend that our customers not use water from the hot water tap for consumption.

Any contaminants found in the water may accumulate in the hot water tank. This would be true anywhere, regardless of the water source. This does not mean that there is anything wrong with our drinking water. All water tests are conducted on water from the cold-water tap. Our concern is that the water quality is unknown when water from the hotwater tap is consumed. We believe you are better served by heating cold-water for this purpose.

Lead and Copper

The lead levels found in samples taken at Upshur are well below regulatory limits.

More information about drinking water contaminants and potential health effects can be obtained by calling the USEPA's Safe Drinking water Hotline at 1-800-426-4791 or visiting their website at http://water.epa.gov/drink/index.cfm.

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. Marine Corps Base Quantico is responsible for providing high quality drinking water, but cannot control the variety of materials used in plumbing components. When your water has been sitting for several hours, you can minimize the potential for lead exposure by flushing your tap for 15 to 30 seconds, until it becomes

cold or reaches a steady temperature before using the water for drinking or cooking.

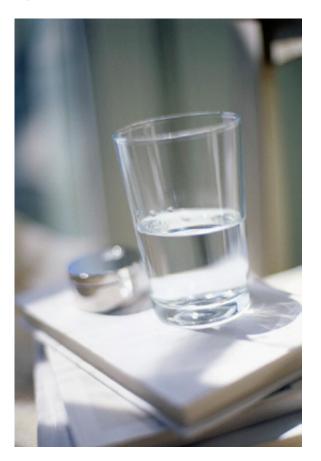
If you are concerned about lead in your water, you may wish to have your water tested. Information on lead in drinking water, testing methods, and steps you can take to minimize exposure is available from the USEPA's Safe Drinking water Hotline at 1-800-426-4791 or visit http://water.epa.gov/safewater/lead.

Conclusion

Thank you for allowing us to continue providing your family with clean, quality water this year. In order to maintain a safe a dependable water supply we sometimes need to make improvements that benefit all of our customers.

As announced in the Base newspaper, The Quantico Sentry, water mains and fire hydrants are flushed twice a year. This may cause temporary water discoloration. We apologize for any inconvenience. Our goal is to provide water of excellent quality to every customer. We in the Utilities Section, work around the clock to provide top quality water to every tap.

Our customers can help protect themselves and our water system by careful use of this resource, which is the heart of our community, our way of life and our children's future.



2011 MCB Quantico Annual Drinking Water Quality Report Camp Upshur Water System (PWSID #6153063)

				2011 Camp Unch	ur Water Quality Repo	rt	
		П					
Microbiological Contaminants		MCLG	MCL	No. Of Positive		In Compliance	Source
Total Coliform Bacteria		0	Not to exceed I sample per month	Samples 0		Yes	Naturally present in the environment
			We are p	roud to announce there v	were no positive sa	mples for 201	1 year.
				Regulated	Contaminants	3	
					Metals		
		1	T	LEAD AND COP	PPER CONTAMINANTS		
Sampling	Units	MCLG	Action	Level	Number sites		Source
Parameter			Level	Detected Range <20-0.081ppm	Exceeded	In Compliance	Corrosion of household plumbing systems
Copper**	ppm	1.3 ppm	AL=1.3 ppm	90th. Percentile sample 0.0080ppm	0	Yes	3,,
				Range <0.002-0.0025 ppm			Corrosion of household plumbing systems
Lead**	ppm	0	AL=0.015ppm	90th. Percentile sample <0.0020 ppm Or non-detect	0	Yes	
	I	Lea	d and Copper	test results are from August	and September 2011,	next testing thir	d quarter 2014.
Chlorine							
Parameter	ppm	MRDL	MRDLG	Average	Range	In Compliance	Source
Chlorine		4.0	4.0	1.00 ppm	0.50 to 1.3 ppm	Yes	
Oniornic		4.0	4.0	• • •			Used for disinfection. Samples taken from distribution system.
REGULATED CONTAMINATES INORGANIC Parameter Units MCLG MCL Average Range In Compliance Source							
Arsenic		none	0.010	NA NA	One Sample 0.002 ppm	Yes	Erosion of natural deposits; Runoff from orchards, glass and
Barium	ppm	2	2	0.31 ppm	0.24-0.38 ppm	Yes	electronics production waste. Discharge of drilling waste; metal refineries and erosion of
					**		natural deposits. Leaching from septic tanks, fertilizer, erosion of natural
Nitrate-Nitrite	ppm	10	10	0.66ppm	0.33-0.85ppm	Yes	deposits.
	Arsenio	and Bari	um results are	e from 2009, next testing sch	eduled for 2012. Nitrat	e and Nitrite sar	nples from 2010 test results.
				· INORGANIC SECON	DARY CONTAMINATE	LIST	
Parameter	Units	SCLG	SMCL	Average	Range	In Compliance	Source
•							
Sulfate	ppm	none	250 ppm SMCL see	27.7	20-35.4	Yes	Naturally present in environment.
Sulfate Chloride	ppm ppm	none		27.7 11.2 ppm	20-35.4 9.0-13.4 ppm	Yes Yes	Naturally present in environment. Naturally present in environment.
			SMCL see				* *
Chloride	ppm	none	SMCL see	11.2 ppm	9.0-13.4 ppm	Yes	Naturally present in environment.
Chloride Sodium	ppm	none	SMCL see 250 none 5 ppm SMCL see below	11.2 ppm 23.9	9.0-13.4 ppm 23.4-24.3 ppm .026034	Yes Yes	Naturally present in environment. Naturally present in environment. Naturally present in environment.
Chloride Sodium	ppm	none	SMCL see 250 none 5 ppm SMCL see below	11.2 ppm 23.9 0.03 pride, Sodium and Zinc resul	9.0-13.4 ppm 23.4-24.3 ppm .026034	Yes Yes Yes next scheduled	Naturally present in environment. Naturally present in environment. Naturally present in environment.
Chloride Sodium	ppm	none	SMCL see 250 none 5 ppm SMCL see below	11.2 ppm 23.9 0.03 pride, Sodium and Zinc resul	9.0-13.4 ppm 23.4-24.3 ppm .026-034 ts are from 2009 test, I AMINATES ORGANIC Range	Yes Yes Yes next scheduled	Naturally present in environment. Naturally present in environment. Naturally present in environment.
Chloride Sodium Zinc	ppm ppm	none none none	SMCL see 250 none 5 ppm SMCL see below Sulfate,Chlo	11.2 ppm 23.9 0.03 pride, Sodium and Zinc result	9.0-13.4 ppm 23.4-24.3 ppm .026-034 ts are from 2009 test, I	Yes Yes Yes next scheduled	Naturally present in environment. Naturally present in environment. Naturally present in environment. test 2012.
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Chloride Sodium Zinc Parameter Xylene (total) Ethylbenzene	ppm ppm ppm ppm ppm units ppm ppm	none none none MCLG none Laborato	SMCL see 250 none 5 ppm SMCL see below Sulfate,Chlo PMCL 0.1 ppm 0.7 ppm	11.2 ppm 23.9 0.03 pride, Sodium and Zinc result REGULATED CONT. Average 0.0031 ppm 0.0007 ppm WAT cates that the constituent is be	9.0-13.4 ppm 23.4-24.3 ppm .026034 ts are from 2009 test, I AMINATES ORGANIC Range Two detectable samples out of six. 0.0016 to 0.0046 One detectable sample out of six. ER QUALITY (Key) low the detection level	Yes Yes Yes Next scheduled VOC In Compliance Yes Yes to Abbreviations	Naturally present in environment. Naturally present in environment. Naturally present in environment. test 2012. Source Discharge from petroleum factories; discharge from chemical factories Discharge from petroleum refineries
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