

Marine Corps Base Quantico Crossroads of the Marine Corps 2016 Annual Drinking Water Quality Report Mainside Water System PWSID 6153675





Introduction

Marine Corps Base Quantico G-F, Installation and Environment Division, is pleased to present the Base's Mainside Annual Water Quality Report for 2016. 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 Physical Science 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 Mainside water (PWSID No. 6153675) comes from protected surface water sources. The water is processed at the Mainside Water Treatment Plant.

Summary



The Mainside Water Treatment Plant 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, 2016.

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:

- <u>i</u>. *microbial contaminants*, such as viruses and bacteria, which may come from sewage treatment plants, septic systems, agricultural livestock operations, and wildlife.
- <u>ii</u>. *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.
- <u>iii</u>. *pesticides and herbicides*, which may come from a variety of sources such as agriculture, urban stormwater runoff, and residential uses.
- <u>iv.</u> 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.
- v. *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.

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 contaminants 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-a-million 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. Our 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 had two coliform samples out of one hundred eighty test present for coliform only, routine repeat samples were collected and all tested absent for coliform.

The Distribution System

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. Danny Gilley at 703-784-3274.

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 contami-



nants 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 hot-water tap is consumed. We believe you are better served by heating cold-water for this purpose.

Lead and Copper

During August and September 2015, the Base completed testing for Lead and Copper in the distribution system. Samples from thirty sites were tested according to an approved sampling plan. 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.

Additional Tests and Monitoring Unregulated Contaminant Monitoring Rule 3 (UCMR3)

The Safe Drinking Water Act (SDWA), as amended in 1996, requires the USEPA to establish criteria for a program to monitor unregulated contaminant and publish a list of contaminants to be monitored every five years. USEPA published the first set of contaminants in 1999. This final regulation meets the Safe Drinking Water Act (SDWA) requirement by publishing the next set of unregulated contaminants to be monitored and the requirements for such monitoring.



Implementation of this final rule benefits the environment by providing USEPA and other interested parties with scientifically valid data on the occurrence of the contaminants in drinking water; thereby, permitting the assessment of the population potentially being exposed and the levels of exposure. These results are the primary resource of occurrence and provide exposure data for the USEPA to

determine whether to regulate these contaminants.

To view Contaminant Candidate List for UCMR3 testing, go to:

http://water.epa.gov/lawsregs/rulesregs/sdwa/ucmr/ucmr3/index.cfm

MCBQ started testing for Cryptosporidium in Source Water

Testing started in October 2016 and will take twenty four months to complete, this testing is an ongoing effort to ensure MCBQ water is safe to consume.

Conclusion

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

Stay Hydrated!

Our energy level is greatly affected by the amount of water we drink. A 5% drop in body fluids will cause a 25-30% loss of energy in the average person.

- If you lose 5% of your body's water, you will likely run a fever.
- If you lose 10% of your body's water, you will have difficulty moving and may not be able to move at all.
- Losing 12% of your body's water can result in death.
- Most people can exist for over 30 days without food, but only 4-7 days without water. Even mild dehydration will slow down metabolism as much as 3%.
- One glass of water will reduce midnight hunger pangs for most people.
- Water leaves the stomach five minutes after consumption.
- Lack of water is one of the primary triggers of daytime fatigue.
- Preliminary research indicates that 8-10 glasses of water a day could significantly ease back and joint pain for up to 80% of sufferers.
- A mere 2% drop in body water can trigger fuzzy, short-term memory, trouble with basic math, and difficulty focusing on the computer screen or on a printed page.



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Microbiological Results		MCLG		MCL	No. of Samples Indicating Presence of Bacteria	Highest no.	Number of Monthly Samples	Violation *If yes, month	Major source in drinking water.	
Fotal Coliform Bacteria		0	One po	sitive sample per Month	2	NA NA	15	violation occurred	Naturally present in the environment	
Fecal Coliform		0		repeat sample are coliform positive & is also fecal coliform.	NA	NA	NA NA	No	Naturally present in the environment	
ecar comorni				at tested positive for coliform only. One					Naturally present in the environment	
	1	1			imary Regulated Cont					
Metals (units)	MCLG	Action Level	90th Percentile	Number of sites tested	level	Range Low to Highest	Violation		Source	
Copper (ppm)	0	1.3ppm	0.628	30	0	0.043 to 1.18 ppm	No	Corrosion of household plumbin		
Lead (ppb)	0	15ppb	3.72 The Lea	30 d and Copper results are from Augu	1 est and Sentember 2015:	<1.0 to 20.2 ppb	No ted in June-August 2018	Corrosion of household plumbir	ig systems	
Substance (units)	MCLG	MCL	Average	Range Low to High	Violation	next test are to be conduc	ted in raine riagast 2010.	Source		
luoride (ppm) Results from distribution.	4	4	0.83	0.50-1.70	No	Added to the drinking v	water to promote dental heal	th: erosion of natural denosits: dis	charge from fertilizer and aluminum factori	
Chlorine (ppm) Results from distribution	MRDLG=4	MRDL=4	1.15pm	0.10-3.70	No	3	water to promote dental health; erosion of natural deposits; discharge from fertilizer and aluminum factorie Added to drinking water as a disinfectant.			
ystem. Nitrate-Nitrite (ppm) Sample from entry			One test below							
point.	MCLG	10	detection level	N/A	No		Leaching from septic tanks, fertilizer, erosion of natural deposits.			
Radiological (pCi/L)	MCLG	MCL	Average	Range Low to High	When Tested	Violation		Source		
Gross Beta	0	50*	NA	One test <1.2 Pci/L Below minimum detectable level.	2013	No		Erosion of natural deposits.		
Radium 228	0	5 pCi/L	NA	One test <0.7 PCi/L Below minimum detectable level.	2013	No		Erosion of natural deposits.		
Gross Alpha	0	15pCi/L	NA	One test <0.5 PCi/L Below minimum detectable level.	2013	No		Erosion of natural de	posits.	
		* EPA con	siders 50 pCi/l to l	be the level of concern. Test re	sults from 2013; beca	use results are so low t	the next tests currently so	cheduled for 2019.		
District and the Decision of the Control of the Con	1 4 co -						Violation *If yes, month		Source	
Pisinfection By-Products Trihalomethane THM (ppb)	MCLG 0	MCL 80ppb	Quarterly	Running Annual Average 51ppb	•	to 92ppb	violation occurred	By-product o	f drinking water disinfection.	
Haloacetic Acids Group HAA5 (ppb)	0	60ррь		35ppb		to 58ppb	No		f drinking water disinfection.	
Fotal Organic Carbons (TOC)	MCLG	MCL	Runn	ing Annual Average	Range L	ow to High	Violation		Source	
Freatment Technique (TT)	N/A	т		1.49	1.	3-1.7	No	Naturally	present in environment	
			edium for the formati	on of disinfection byproducts. Thes					formation of these disinfection byproduct:	
				echnique is a removal ratio of 1.0 a						
Frank i dide a (APTELI)			A1			Highest single	20. 11. 11		6	
Furbidity (NTU)	MCLG	MCL	Annual avg.	Range Low to 0.02-0.27	High	measurement		h lowest average	Source	
Nephelometric (NTU) Turbidity levels are measured during the	N/A e treatment p	rocess after the	0.04 e water has been filt			0.27 I water shall be less than		lay-99% east 95 percent of the monthly m	Soil runoff. easurements, and shall at no time excee	
					NTU.					
				Sec		ntaminants				
Secondary Contaminants (units)	PMCL	SMCL		Sec	ondary Regulated Cor Violation	ntaminants		Source		
Secondary Contaminants (units) Chloride (ppm)	PMCL N/A	SMCL 250ppm	0		ondary Regulated Cor	ntaminants	Na	Source sturally present in environment		
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