

Marine Corps Base Quantico Crossroads of the Marine Corps 2014 Annual Drinking Water Quality Report Mainside Water System PWSID 6153675





Introduction

Marine Corps Base Quantico G-5, Installation and Environment Division, is pleased to present the Base's Mainside Annual Water Quality Report for 2014. 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

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 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-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 are pleased to announce the Base was in compliance.

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. Thomas Sperlazza, Utilities General Foreman at (703) 432-0698

Water Plant Upgrades

Work started March 2014 to inspect the interior of filters, make needed repairs, recoat interior of filters and replace the filter media. This work is required so the Base can continue to meet the EPA Standards for individual filter turbidity's. Included in the referenced contract is additional treatment equipment and updated monitoring devices.

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 contaminations.

$nants. \ \mbox{We strongly recommend that our customers not use water from the hot water tap for consumption.}$

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 2012, the Base completed testing for Lead and Copper in the distribution system. Samples from thirty sites were tested according to an approved sampling plan. All samples were below USEPA Action Level (15 ppb). As a result, the next sample event for lead and copper is scheduled in 2015.

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 moni-

tored and the requirements for such monitoring. This final rule describes a design for second Unregulated Contaminant Monitoring Cycle (UCMR3) of 2012-2016. USEPA is requiring the monitoring of 25 chemicals using 5 different analytical methods. UCMR 3 monitoring began in January 2014 and completed in December 2014.

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

Individual Distribution System Evaluation (IDSE)

In March 2010 USEPA and VDH approved the Base IDSE plan. The new sampling schedule started October 2013. This evaluation of the distribution system will allow the Base to better monitor disinfection byproducts in the distribution system. Once this information has been obtained and

evaluated, the Base will know where to make necessary changes in the distribution system or treatment process.

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.

				Quantico Marine Corp	s Base Water O	uality Poport Main	scido 2014			
Microbiological Results		MCLG		MCL Quantico iviarine Corp	Percent less than 5%	Highest no.	Number of Monthly	Violation	Major source in drinking water.	
Total Coliform Bacteria		0	One no	sitive sample per Month	Positive 0	NA NA	Samples 15	No	Naturally present in the environment	
Total Collotti Bacteria		0		repeat sample are coliform positive &		NA NA	15	NO	Naturally present in the environment	
Fecal Coliform		0	one	is also fecal coliform.	NA	NA	NA	No	Naturally present in the environment	
					not exceed one positive sa mounce there were no po	ample per month. sitive samples for 2014 year.				
				Pri	Mo. of Sites	taminants				
Metals (units)	MCLG	Action Level	90th Percentile	Number of sites tested	Exceeding action	Range Low to Highest	Viloation		Source	
Copper (ppm)	0	1.3ppm	0.239	30	level.	0.0225 to 0.476 ppm		Corrosion of household plumbi	ng systems	
Lead (ppb)	0	15ppb	3.94	30	0	<2.0 to 10.1 ppb	No No	Corrosion of household plumbi	ng systems	
	The L	ead and Copper	results are from Aug	ust and September 2012; next test a	re to be conducted in J			rinking Water Act-Action Level.		
Substance (units)	MCLG	MCL	Average	Range Low to High	Violation			Source		
Fluoride (ppm) Results from distribution.	4	4	0.61	0.45-0.75	No	Added to the drinking v	water to promote dental heal	th; erosion of natural deposits; dis	scharge from fertilizer and aluminum factories	
Chlorine (ppm) Results from distribution	MRDLG=4	MRDL=4	1.35ppm	0.20-3.00	No		Added	Added to drinking water as a disinfectant.		
system.			One test			_				
Barium (ppm) Sample from entry point. Nitrate-Nitrite (ppm) Sample from entry	2	2	0.025ppm One test below	N/A	No	Ľ		ischarge from metal refineries; er		
point.	MCLG	10	detection level	N/A	No		Leaching from sept	tic tanks, fertilizer, erosion of na	tural 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 mininum detectable level.	2013	No		Erosion of natural deposits.		
Radium 228	0	5 pCi/L	NA	One test <0.7 PCi/L Below	2013	No		Erosion of natural deposits.		
				mininum detectable level. One test <0.5 PCi/L Below						
Gross Alpha	0	15pCi/L	NA	mininum detectable level.	2013	No	the next to the "	Erosion of natural deposits.		
Disinfection By-Products	MCLG	* EPA con	1	e the level of concern. Test res Running Annual Average		ow to High	Violation	crieduled för 2019.	Source	
			Quarterry		-			By-product of drinking water disinfection.		
Trihalomethane THM (ppb)	0	80ppb		59ppb		to 104ppb	No	,,,		
Haloacetic Acids Group HAA5 (ppb)	0	60ppb		47ppb	16ppb	to 70ppb	No	By-product o	of drinking water disinfection.	
Total Organic Carbons (TOC)	MCLG	MCL	Runr	ing Annual Average	Range L	ow to High	Violation		Source	
Treatment Technique (TT)	N/A	TT		1.81	1.6	52-1.92	No	Naturall	y present in environment	
Total Organic Carbon has no health effe	ects. However,	it provides a me	edium for the formation	on of disinfection byproducts. Thes	e byproducts include tri	halomethanes and haloace	etic acids. Compliance with th	e treatment technique reduces th	e formation of these disinfection byproducts.	
Treat	ment Techniqu	ue (TT) Compliar	nce with treatment to	chnique is a removal ratio of 1.0 a	nd higher. The ratio of	removal is the actual Tota	al Organic Carbon removed b	etween the source water and tre	ated water.	
Turbidity (NTU)	MCLG	MCL	Annual avg.	Range Low to F	ligh	Highest single measurement	Month with	h lowest average	Source	
Nephelometric (NTU)	N/A	TT	0.04	0.02-0.40		0.40	Feb	ruary-99%	Soil runoff.	
Turbidity levels are measured during th	e treatment pr	rocess after the	water has been filte	ered, but before disinfection. The	turbidity level of filtered NTU.	d water shall be less than	or equal to 0.3 NTU in at l	east 95 percent of the monthly r	measurements, and shall at no time exceed	
				Seco	ondary Regulated Co	ntaminants				
Secondary Contaminants (units)	PMCL	SMCL		Results	Violation	Source				
Manganese (ppm) Chloride (ppm)	N/A	0.05ppm		ne test 0.024ppm One test 8.0ppm	No No	Naturally present in the environment. May cause water discoloration. Naturally present in environment				
Sulfate (ppm)	N/A N/A	250ppm 250ppm		ne test 48.9ppm	No No	Naturally present in the environment; addition of water treatment substances.				
Total Dissolved Solid (ppm)	N/A	500ppm	C	ne test 127ppm	No Regulated Substance	Monitored	Na	turally present in environment		
Non Regulated Contaminants (units)	MCLG	MCL		Results	Violation	Worldored		Source		
		NRL	One test 3.8p	pb samples from entry point	NA	By-product of drinking water disinfection.				
Bromodichloromethane (ppb)	NRL			sk samalas fram anto, anint		By-product of drinking water disinfection. Naturally present in the environment; addition of water treatment substances.				
Chloroform (ppb)	NRL	NRL		ob samples from entry point	NA NA		By-pro	duct of drinking water disinfection	1.	
Chloroform (ppb)				pm samples from entry point	NA NA UCMR3 Result	rs .	By-pro	duct of drinking water disinfection	1.	
Chloroform (ppb) Sodium (ppm) Non Regulated Contaminants (units)	NRL	NRL	One test 27.5 p	pm samples from entry point Results	NA UCMR3 Result	's	By-pro	duct of drinking water disinfection environment; addition of water tre	1.	
Chloroform (ppb) Sodium (ppm) Non Regulated Contaminants (units) Samples from Distribution System	NRL NRL MCLG	NRL NRL MCL	One test 27.5 p	pm samples from entry point Results Range	NA UCMR3 Result Violation	is s	By-pro Naturally present in the e	duct of drinking water disinfection environment; addition of water tre Source	n. Patment substances.	
Chloroform (ppb) Sodium (ppm) Non Regulated Contaminants (units) Samples from Distribution System Chromium (total)	NRL NRL	NRL NRL	One test 27.5 p	pm samples from entry point Results	NA UCMR3 Result	5	By-pro Naturally present in the e	duct of drinking water disinfection environment; addition of water tre	n. Patment substances.	
Chioroform (ppb) Sodium (ppm) Non Regulated Contaminants (units) Samples from Distribution System Chromium (total) Cobalt Molybdenum	MCLG NRL NRL NRL NRL	NRL NRL NRL NRL NRL NRL	Average < 0.2 ug/L <1 ug/L <1 ug/L	pm samples from entry point Results Range <0.2 ug/L <1 ug/L <1 ug/L	NA UCMR3 Result Violation NA NA NA	is S	By-pro Naturally present in the e Found naturally in rock Natu Metal used	duct of drinking water disinfection environment; addition of water tre Source (s, plants, soil and volcanic of urally present in various minerals.) In manufacturing of steel and case	n. hatment substances. dust, and animals. t iron.	
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Chloroform (ppb) Sodium (ppm) Non Regulated Contaminants (units) Samples from Distribution System Chromium (total) Cobalt Molybdenum Strontium Vanadium	MCLG NRL NRL NRL NRL	NRL NRL NRL NRL NRL NRL	Average < 0.2 ug/L <1 ug/L <1 ug/L	pm samples from entry point Results Range <0.2 ug/L <1 ug/L <1 ug/L	NA UCMR3 Result Violation NA NA NA	5	By-pro Naturally present in the e Found naturally in rock Metal used Fallout from atmospheric nu Usee Found naturally in rock	duct of drinking water disinfection environment; addition of water treasures. Source cs, plants, soil and volcanic curally present in various minerals. In manufacturing of steel and cas uclear weapons tests conducted in it in iron and steel manufacturing. cs, plants, soil and volcanic cs.	dust, and animals. t iron. the 1950s and 1960s. dust, and animals.	
Chloroform (ppb) Sodium (ppm) Non Regulated Contaminants (units) Samples from Distribution System Chromium (total) Lobalt Molybdenum Strontium Janadium Chromium-6	NRL NRL MCLG NRL NRL NRL NRL NRL NRL NRL	NRL NRL MCL NRL NRL NRL NRL NRL NRL NRL	Average < 0.2 ug/L <1 ug/L <1 ug/L 25.5 ug/L <0.2 ug/L	m samples from entry point Results Range <0.2 ug/L <1 ug/L <1 ug/L <1 ug/L <0.2 ug/L	NA UCMR3 Result Violation NA		By-pro Naturally present in the e Found naturally in rock Metal used Fallout from atmospheric nu Usee Found naturally in rock	duct of drinking water disinfection invironment; addition of water trees. Source cs, plants, soil and volcanic varily present in various minerals. It in manufacturing of steel and cas uclear weapons tests conducted if the iron and steel manufacturing.	dust, and animals. t iron. the 1950s and 1960s. dust, and animals.	
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