

Marine Corps Base Quantico Crossroads of the Marine Corps 2018 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 2018. 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, 2018.

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.

ii. 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.
 iii. pesticides and herbicides, which may come from a variety of sources such as agriculture, urban storm water 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 storm water 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. Source Water

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. We are proud to announce that we

did not have any samples test present for coliform during the 2018 calendar year.

Disinfection By-products

During 2018 the 12-month average monitoring for Total Trihalomethanes (TTHM) revealed an exceedance 0.081 mg/L from Wastewater Administration Building and 0.083 mg/L from 2700 Block Tank and is over the Primary Maximum Contaminant Level (MCL) of 0.080 mg/L. This exceedance has caused MCBQ to be in violation of the Maximum Contaminant Level for Total Trihalomethanes. Some people who drink water containing TTHM in excess of the MCL over many years may have an increased risk of getting cancer. We also violated the 12month average for Haloacetic Acids (HAA5) with exceedance of 0.063mg/l from 2700 Block Tank, the Primary Maximum Contaminant Level (MCL) is 0.060mg/l. We have started a contract action to add Sodium Permanganate to our treatment process to reduce the organics in our source water. Natural organics are precursors to disinfection byproducts when chlorine is added. We anticipate this project to be completed by fall 2019. Also we are maintaining a comprehensive flushing protocol of our water distribution system along with an improved operational contingency plan.

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

Lead and Copper

During 2018, we did not complete all monitoring or testing for copper and therefore we cannot be sure of the quality of our drinking water in regard to copper during that time. As a result of this error we are required to retest all thirty Lead & Copper locations between June and September 2019. (See enclosure)

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 4 (UCMR4)

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. Unregulated Contaminant Monitoring Rule 4 (UCMR4) sampling will begin in April 2018. Safe Drinking Water Act (SDWA) requirement mandated 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 UCMR4 testing, go to:

http://water.epa.gov/lawsregs/rulesregs/sdwa/ucmr/ucmr4/index.cfm

MCBQ started testing for Cryptosporidium in Source Water

Testing was completed in October 2018 and results indicate that MCBQ Raw Source Water is safe to consume once treated.

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. Fire hydrants are flushed annually. 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.



	(Quant	ico Mari	ine Corps Bas	e Water	Quality Re	eport Main	side 2018		
Microbiological Results				MCL	No. of Samples Indicating Presence of Bacteria	Highest no.	Number of Monthly Samples	Violation	Major source in drinking water.	
Total Coliform Bacteria		0	More than or	ne positive sample per Month	1*	NA	15	No	Naturally present in the environment / Human and animal fecal waste	
E. Coli		0	A routine sample & a repeat sample are coliform positive & one is also <i>E coli</i> positive.		0	NA	15	No	Human and animal fecal waste	
				*No pi	resence of coliform for all r		ı	1		
Metals (units)	MCLG	Action Level	90th Percentile	Number of sites tested	No. of Sites Exceeding action level	Range Low to Highest	Viloation		Source	
Copper (ppm)	0	1.3ppm	0.23	26	0	0.03 to 0.49 ppm	Yes*	Corrosion of household plumbi	ng systems	
Lead (ppb)	0	15ppb	<2.0	30	1	<2.0 to 59 ppb	Yes*	Corrosion of household plumbing systems		
*During 2018, we did not complete all mo	onitoring or test	ting for copper a	nd therefore we can		king water in regard to o		a result of this error we are	required to retest all thirty Lead &	Copper locations between June and Septemb	
Substance (units)	MCLG	MCL	Average	Range Low to High	Violation	по перогел		Source		
Fluoride (ppm) Results from distribution.	4	4	0.56	0.3-0.7 ppm	No	Added to the drinking	water to promote dental heal	the erosion of natural denosits: dis	scharge from fertilizer and aluminum factories	
Chlorine (ppm) Results from distribution	MRDLG=4	MRDI =4	1.10			Added to the drinking v		Added to drinking water as a disinfectant.		
system. Nitrate-Nitrite (ppm) Sample from entry	WIRDLG=4	IVIKUL=4	One test below	0.20-4.0 ppm	No	<u> </u>				
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	2013	No	Erosion of natural deposits.			
				minimum detectable level.					·	
		- EPA cor	isiders 50 pCi/l to l	be the level of concern. Test res	suits from 2013; beca	iuse results are so low t	LIVE NEXT TESTS CURRENTLY SO	meduled for 2019.		
Disinfection By-Products	MCLG	MCL	Quarterly	Running Annual Average	Range L	ow to High	Violation	Source		
Trihalomethane THM (ppb)	0	80ppb		51 ppb		to 92 ppb	Yes	By-product of drinking water disinfection.		
Haloacetic Acids Group HAA5 (ppb)	0	60ppb		35 ppb		to 58 ppb	No	By-product o	of drinking water disinfection.	
Total Organic Carbons (TOC)	MCLG	MCL	Runn	ing Annual Average	Range L	ow to High	Violation		Source	
Treatment Technique (TT)	N/A	TT		1.35	1.1	7-1.47	No	Naturall	y present in environment	
									e formation of these disinfection byproducts.	
Trea	tment Techniq	ue (TT) Complia	nce with treatment t	echnique is a removal ratio of 1.0 a	nd higher. The ratio of I	removal is the actual Total	Organic Carbon removed be	tween the source water and trea	ited water.	
Turbidity (NTU)	MCLG	MCL	Annual avg.	Range Low to F	High	Highest single measurement	Month with	h lowest average	Source	
Nephelometric (NTU)	N/A	TT	0.05	0.02-0.44		0.44		ıly-99%	Soil runoff.	
Turbidity levels are measured during the	ne treatment p	rocess after the	water has been filt	ered, but before disinfection. The	turbidity level of filtered NTU.	d water shall be less than	or equal to 0.3 NTU in at le	east 95 percent of the monthly m	neasurements, and shall at no time exceed	
				Seco	ondary Regulated Cor	ntaminants				
Secondary Contaminants (units)	PMCL	SMCL		Results	Violation	Source				
Chloride (ppm)	N/A	250ppm	C	ne test 8.5 ppm	No	Naturally present in environment				
Sulfate (ppm)	N/A	250ppm		One test 80 ppm	No			environment; addition of water tre sturally present in environment	eatment substances.	
Total Dissolved Solid (ppm)	N/A	500ppm	0	ne test 130 ppm	No Regulated Substance	Monitored	No.	iturally present in environment		
		I			UCMR3 Result					
Non Regulated Contaminants (units) Samples from Distribution System	MCLG	MCL	Average	Results Range	Violation			Source		
	MCLG NRL	MCL NRL	< 0.2 ug/L	Results			Found naturally in rock	Source	dust, and animals.	
Samples from Distribution System Chromium (total) Cobalt	NRL NRL	NRL NRL	< 0.2 ug/L <1 ug/L	Results Range <0.2 ug/L <1 ug/L	Violation NA NA		Natu	cs, plants, soil and volcanic ourally present in various minerals.	·	
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NOTICE TO CUSTOMERS OF THE MCB Quantico - Mainside WATER SYSTEM

In keeping with National Primary Drinking Water Regulations, we are obliged to inform you that we may be in violation of state regulations.

We are required to monitor your drinking water for specific contaminants on a regular basis. Results of regular monitoring are an indicator of whether or not our drinking water meets health standards. During 2018, we did not complete all monitoring or testing for copper and therefore cannot be sure of the quality of our drinking water in regard to copper during that time.

There is nothing you need to do at this time.

We are attempting to prevent further violations by ensuring that all required sampling in our distribution system is done in accordance with the state drinking water regulations. We will report future violations as required by state regulations in order to increase consumers' awareness of conditions that exist in their public water system.

Please share this information with all the other people who drink this water, especially those who may not have received this notice directly (for example, people in apartments, nursing homes, schools, and businesses). You can do this by posting this notice in a public place or distributing copies by hand or mail.

For more information, please contact Hunho Kim at (703) 432-2466 or hunho.kim@usmc.mil