PORT HUENEME WATER AGENCY 2019 ANNUAL WATER QUALITY REPORT TO PURVEYORS

The Port Hueneme Water Agency is committed to providing you with complete and accurate information regarding the safety of the water you drink. The State Water Resources Control Board (SWRCB) requires the Port Hueneme Water Agency (PHWA) to send an Annual Water Quality Report to all customers regarding the water quality they received during the previous calendar year. PHWA tests its water as required by SWRCB regulations and reports these results to SWRCB each month. Additionally, annual SWRCB inspections of the operational policies and procedures at PHWA are conducted. All of this is done to ensure the safety of your drinking water.

This Annual Water Quality Report summarizes the 2019 water quality test results performed by PHWA and Calleguas Municipal Water District (Calleguas). It also includes details about where your water comes from, what it contains, and how it compares to State standards. Water constituents are listed under the appropriate water quality standard and include the maximum contaminant level, federal maximum contaminant level goal or the California public health goal, and the range of results. Water testing is routinely performed for bacteria and protozoan, disinfectant residual, minerals, radioactivity, inorganic and organic chemicals, and other water quality parameters.

Este informe contiene información muy importante sobre su agua de beber (agua potable). Tradúzcalo o hable con alguien que lo entienda bien.

Where does my water come from?

The water supply for the PHWA treatment plant comes from the United Water Conservation District (United). United's water comes from groundwater located in the El Rio area of Ventura County. This water is pumped from shallow wells drilled into the Oxnard and Fox Canyon aquifers. These two aquifers, which are naturally high in minerals, are fed by the Santa Clara River drainage basin. The drainage basin receives water from various sources such as rivers, streams, wastewater treatment plants, and agricultural runoff.

In October 2001, United completed a source water assessment survey for their water sources. This assessment provides a survey of potential sources of contamination of the groundwater that supplies United's wells. Activities that constitute the highest risk are petroleum storage tanks and fueling operations, septic systems, and abandoned animal feedlots. Groundwater at United is vulnerable to contamination by MTBE, a gasoline additive. No MTBE has been detected in United's wells. United continues to monitor the water quality. Copies of the source water assessment survey are available from United at 805-525-4431.

PHWA's water treatment plant uses two different types of state-of-the-art membrane filtration technologies to treat United's water. These desalination techniques are known as reverse osmosis (RO) and nano-filtration (NF). Three treatment trains

operate side-by-side and each one produces between 1 and 1.5 million gallons of drinking water every day. The treatment process softens the water received from United by lowering the mineral content and minimizes the corrosiveness of the water through the addition of sodium hydroxide. In addition the water is disinfected using chloramines instead of chlorine. Chloramines have better taste, fewer odors, and reduces the formation of trihalomethane in the water, which is a known carcinogen.

Fish owners - you should chemically remove the chloramines in the PHWA water when preparing your fish tank water. Failure to remove the chloramines could result in risk to the aquatic life in the tank.

State water imported by the Metropolitan Water District of Southern California (MWD) is also used at the PHWA treatment plant. MWD water comes from the Sierra Nevada Mountains in northern California and is conveyed through the State Water Project's network of reservoirs, aqueducts, and pump stations. The State water is filtered and disinfected by MWD surface water treatment plants and brought into Ventura County by Calleguas. Calleguas brings the State water to the PHWA treatment plant where it is blended with the treated United water and then delivered to you. The blended water contains about 2.5 parts per million chloramines.

In December 2002, MWD completed its source water assessment of its State Water Project supplies. State Water Project supplies are considered to be most vulnerable to urban/storm water runoff, wildlife, agriculture, recreation, and wastewater. A copy of the assessment can be obtained by contacting MWD at 213-217-6850.

Does my water meet EPA and State standards? Is my tap water safe to drink?

Yes. Your water meets all United States Environmental Protection Agency (USEPA) and SWRCB water quality standards. PHWA did not have any violations of any treatment, monitoring, or reporting requirements during 2019. None of the constituents in the drinking water exceeded the maximum contaminant levels or action levels set by SWRCB or USEPA. The tables in this report list all of the drinking water constituents that were detected during the most recent sampling period as required by SWRCB.

In December 2003, PHWA completed its Vulnerability Assessment of the water facility. This work has improved the security and safety of our water supply.

Is tap water as safe as bottled water?

The Food and Drug Administration (FDA), not the USEPA, regulates bottled water companies. The marketing of the bottled water companies has led consumers to believe that bottled water has higher quality standards than tap water. The FDA does not require bottled water companies to test for the same constituents (such as giardia and asbestos) that the USEPA requires for tap water. Also, the FDA does not have a prohibition on total coliform bacteria. Total coliform bacteria are prohibited in tap water. The FDA does not regulate bottled water companies that bottle and package water within the individual states. It is the responsibility of each state to

regulate its bottled water companies. This accounts for 60-70% of all bottled water companies. Fortunately, California is one of the more progressive states, but as with most of the states, there is a lack of manpower, compared to that provided by USEPA for tap water, for the enforcement of bottled water regulations.

If you do drink bottled water, do the research and educate yourself on the quality of your bottled water. Many people are misled to think that their tap water is not high quality but, in actuality, it is bottled water, which is subject to less rigorous testing and purity standards.

Why are contaminants in my 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 USEPA's Safe Drinking Water Hotline (1-800-426-4791). In order to ensure that tap water is safe to drink, the USEPA and SWRCB prescribe regulations that limit the amount of certain contaminants in water provided by public water systems. DHS regulations also establish limits for contaminants in bottled water that provide the same protection for public health.

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 some infants can be particularly at risk from infections. These people should seek advice about drinking water from their health care providers. The USEPA/Centers for Disease Control guidelines on appropriate means to lessen the risk of infection by *Cryptosporidium* and other microbial contaminants are available from the Safe Drinking Water Hotline (1-800-426-4791).

The sources of drinking water (both tap water and bottled water) include rivers, lakes, streams, ponds, reservoirs, springs, wastewater plants 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 before it is treated include the following:

- Microbial Contaminants
 Viruses and bacteria, which may come from sewage treatment plants, septic systems, agricultural livestock operations and wildlife.
- Inorganic Contaminants
 Salts and metals, that can be naturally occurring or result from urban storm water runoff, industrial or domestic wastewater discharges, oil and gas production, mining

or farming.

Pesticides & Herbicides

cides May come from a variety of sources such as agriculture, urban storm water runoff, and residential uses.

- Organic Chemicals
 Including synthetic and volatile organic chemicals, which are by-products of industrial processes and petroleum production, and can, also come from gas stations, urban storm water runoff, agricultural application, and septic systems.
- Radioactive Contaminants
 Can be naturally occurring or be the result of oil and gas production and mining activities.

<u>Radon</u>

Radon is a radioactive gas that you cannot see, taste or smell. It is found throughout the U.S. Radon can move up through the ground and into a home through cracks and holes in the foundation. Radon can build up to high levels in all types of homes. Radon can also get into indoor air when released from tap water from showering, washing dishes and other household activities. Compared to radon entering the home through soil, radon entering the home through tap water will be a small source of radon in indoor air. Radon is a known human carcinogen. Breathing air, containing radon can lead to lung cancer. Drinking water containing radon may also cause increased risk of stomach cancer. If you are concerned about radon in your home, you may test the air in your home. There are simple ways to fix a radon problem that are not too costly. For additional information, call the EPA's Radon Hotline (800-SOS-RADON).

How can I get more information?

For additional information or questions regarding this report, please contact Theo Provencio, Lead Water Utility Operator for (PHWA) Port Hueneme Water Agency, at (805) 986-6651. The public is always welcome to attend PHWA board meetings. These are held monthly on the 3rd Monday of the month @ 4pm at the City of Port Hueneme Civic Center located at 250 N. Ventura Road.

PORT HUENEME WATER AGENCY

2019 Water Quality Report to Purveyors State PHG Purchased Purchased MCL (MCLG) State Range CMWD UWCD BWRDF										
Parameter	Units	[MRDL]	[MRDLG]	DLR	Average	(Calleguas)	(United)	(Blended)	Major Sources in Drinking Water	
Percent of Supply							83%	100%		

PRIMARY STANDARDS--Mandatory Health-Related Standards

Combined Filter Effluent Turbidity	NTU	Highest Single				0.06	0.33	0.1	
MICROBIOLOGICAL	I NIU	111 = % of san	= % of samples <0.3 NTU				50%	100%	Soil runoff
	1	1	1		Range	ND - 1	0.0%	ND	
Total Coliform Bacteria	(b)	2 or 5.0%	(0)		Average Range	0.0%	ND ND	0.0%	Naturally present in the environment
Fecal Coliform and E. coli	(b)	(b)	(0)		Average	ND	ND	0	Human & animal fecal waste
INORGANIC CHEMICALS					Range	TT	Π	Π	
INORGANIC CHEMICALS	T	T	-		Range	ND - 290	ND	NA	Erosion of natural deposits;
Aluminum	opb	1000	600	50	Average	58	ND	NA	residue from some water treatment proces
Arsenic	ppb	10	0.004	2	Range Average	ND - 4.0 ND	4 - 5 4.5	NA NA	Erosion of natural deposits; runoff from orchards; electronics production wastes
Desire					Range	ND	ND	NA	Discharge from oil & metal refineries;
Barium	ppb	1000	2000	100	Average Range	ND ND	ND ND	NA NA	erosion of natural deposits Discharge from steel & pulp mills and
Chromium Treatment-related	ppb	50	(100)	10	Average	ND	ND	NA	chrome plating; erosion of natural deposits
Fluoride (c)	ppm	2.0	1	0.1	Range Highest RAA	0.7 - 1.1	0.6	0.52 - 1.06	Water additive that promotes strong teeth
Nitrate (as N)		40	40		Range	ND - 0.5	4.7 - 7.7	3.3	Runoff & leaching from fertilizer use &
(vitrate (as iv)	ppm	10	10	0.4	Average Range	0.5	6.2 22 - 25	3.3 NA	sewage; erosion of natural deposits Discharge from refineries, mines and
Selenium	ppb	50	30	5	Average	ND	23.5	NA	chemical manufacturers, runoff
RADIOLOGICALS [analyzed every	three years, fo	or four consec	utive quarters	(MWD samp	Range	D sampled 20 ND - 3.9	4.78 - 7.59	17)] NA	Erosion of
Gross Alpha Particle Activity	pCi/L	15	(0)	3.0	Average	ND	5.96	NA	natural deposits
Uranium	DCi/L	20	0.43	1.0	Range Average	ND - 2.7 ND	1.5 - 4.79 3.14	NA NA	Erosion of natural deposits
DISINFECTION BY-PRODUCTS AN	and a summer of the local division of the lo	and the second se		1.0	T Average		5,14	1100	
Bromate €				10	Range	ND - 8.4	NA	NA	By-product of drinking water
Biomate E	ppb	10	0.1	1_0	Highest RAA Range	5.6	NA 1.45 - 1.93	NA 1.30 - 3.30	disinfection Drinking water disinfectant added for
Total Chlorine Residual	ppm	[4.0]	[4]		Highest RAA	2.3	1,8	2.66	treatment
Haloacetic Acids (f)	ppb	60	12	1.0	Range Highest RAA	2.0 - 21.0 12.3	8 - 16 10.13	5.1 - 10 7.54	By-product of drinking water disinfection
Total Trihalomethanes (f)	anh	80		10	Range	14 - 41	39 - 62	24 - 65	By-product of drinking water
SECONDARY STANDARDS-	Acathotic		5 44	1.0	Highest RAA	24.3	49.3	43.13	chlorination
CECCIDART STANDARDS	T	Stanuarus			I Dente	ND 000			1
Aluminum	ppb	200	600	50	Range Average	ND - 290 58	ND ND	NA NA	Erosion of natural deposits; residue from some water treatment proces
Chloride	mqq	500	100	200	Range	62 - 101	44 - 61	34	Runoff/leaching from natural deposits;
					Average Range	62 ND -2	52.5 ND	34 ND	seawater influence
Color	Units	15			Average Range	2 ND	ND 0 - 10	ND ND	Naturally occurring organic materials
Manganese	ppb	50		20	Average	ND	.19	ND	Leaching from natural deposits
Odor Threshold	TON	3		1	Range Average	ND - 1 ND	ND ND	ND ND	Naturally occurring organic materials
Specific Conductores		4 000	2.32		Range	471 - 758	1260 - 1540	695	Substances that form ions when in water;
Specific Conductance	µS/cm	1,600	-	¥	Average Range	495 56 - 92.9	1385.83 418 - 528	695 175	seawater influence Runoff/leaching from natural deposits;
Sulfate	ppm	500	**	0.5	Average	59.9	452.42	175	industrial wastes
Total Dissolved Solids	ppm	1,000	-		Range Average	280 - 430 287.41	860 - 1100 985.83	460 460	Runoff/leaching from natural deposits
Turbidity (monthly)	NTU	5			Range	ND	0.01 - 0.33	0.1	
ADDITIONAL PARAMETERS				-	Average	ND	0.09	0.1	Soil runoff
ADDITIONAL FARAMETERS	Unregulat				Dense	20 440	400 400		
Alkalinity	ppm	NS			Range Average	80 - 110 82	160 - 190 175	110	
Boron	DDW	NL=1		0.1	Range Average	0.2	0.5 - 0.6 0.55	0.5	
					Range	26 - 32	120 - 136	51	
Calcium	ppm	NS			Average Range	27 ND	128 NA	51 NA	
Chlorate	ppb	NL=800		20	Average	ND	NA	NA	
Chromium (Total)	dad	50	NONE	10	Range Average	ND ND	ND ND	NA NA	
Corrosivity (g)	AI	NS		-	Range Average	12.0 - 12.3 12.2	11.9 - 12.4 12.1	12 12	
Hardness (Total Hardness)	ppm	NS			Range	112 - 142	480 - 545	205	
					Average Range	114 12 - 15	512.5 44 - 50	205	
Magnesium	ppm	NS			Average Range	12 ND	47 NA	19 NA	
N-Nitrosodimethylamine (NDMA)	ppt pH	NL=10		: #	Average Range	ND 8.1 - 8.5	NA 7.2 - 7.3	NA 7.9	
ЬΗ	Units	NS			Average	8.4	7.25	7.9	
Potassium	ppm	NS		-	Range Average	2.7 - 3.0 2.7	4 - 5 4.5	3	
Radon	pCi/L	NS		100.0	Range Average	ND ND	273 - 1790 685.75	NA NA	
					Range	51 - 84	73 - 88	50	
Sodium	ppm	NS			Average Range	52	80.5 0.8 - 1.5	50 NA	
otal Organic Carbon	ppm	Π		0.3	Average	2.3	1.13	NA	1

PORT HUENEME WATER AGENCY 2019 Water Quality Report to Purveyors

ABBREVIATIONS AND NOTES

 $\begin{array}{l} \mathsf{AI} = \mathsf{Aggressiveness Index} \\ \mathsf{AL} = \mathsf{Federal} \; \mathsf{Regulatory} \; \mathsf{Action Level} \\ \mathsf{DLR} = \mathsf{Detection Limits} \; \mathsf{for} \; \mathsf{Purposes} \; \mathsf{of} \; \mathsf{Reporting} \\ \mathsf{MCL} = \mathsf{Maximum} \; \mathsf{Contaminant Level} \\ \mathsf{MCLG} = \mathsf{Maximum} \; \mathsf{Contaminant Level} \; \mathsf{Goal} \\ \mathsf{MFL} = \mathsf{Million} \; \mathsf{Fibers} \; \mathsf{per} \; \mathsf{Liter} \\ \mathsf{\mu S/cm} = \mathsf{MicroSiemen} \; \mathsf{per} \; \mathsf{Centimeter} \\ \mathsf{MPN} = \mathsf{Most} \; \mathsf{Probable} \; \mathsf{Number} \\ \mathsf{MRDL} = \mathsf{Maximum} \; \mathsf{Residual} \; \mathsf{Disinfectant} \; \mathsf{Level} \\ \mathsf{MRDLG} = \mathsf{Maximum} \; \mathsf{Residual} \; \mathsf{Disinfectant} \; \mathsf{Level} \\ \mathsf{NA} = \mathsf{Not} \; \mathsf{Analyzed} \\ \mathsf{ND} = \mathsf{None} \; \mathsf{Detected} \\ \end{array}$

NL = Notification Level NS = No Standard NTU = Nephelometric Turbidity Units pci/L = PicoCuries per Liter PHG = Public Health Goal ppm = Parts per Million, or Milligrams per Liter (mg/L) ppb = Parts per Trillion, or Micrograms per Liter (ng/L) ppt = Parts per Trillion, or Nanograms per Liter (ng/L) ppq = Parts per Quadrillion, or Picograms per Liter (ng/L) RAA = Running Annual Average TON = Threshold Odor Number TT = Treatment Technique

 CMWD (Calleguas)
 Calleguas Municipal Water District- Surface Water Source

 UWCD (United)
 United Water Conservation District

 BWRDF (Blended)
 Brackish Water Reclamation Demonstration Facility (BWRDF) - Samples taken after Calleguas and United sources were blended.

- (a) The turbidity level of the filtered water shall be less than or equal to 0,3 NTU in 95% of the measurements taken each month and shall not exceed 1.0 NTU at any time.
 (b) Total coliform MCLs: No more than 5.0% of the monthly samples may be total coliform positive (or 2 samples if a system collects less than 40 samples per month). Calleguas collects less than 40, Metropolitan collects greater than 40. Fecal coliform/E. coli MCLs: The occurrence of 2 consecutive total coliform positive samples, one of which containing fecal coliform/E. coli, constitutes an acute MCL violation. These MCLs were not violated in 2019.
- (c) The Metropolitan Water District treats their water by adding fluoride to the naturally occurring level in order to help prevent dental cavities in consumers. The fluoride levels in the treated water are maintained within a range of 0.6 1.2 ppm, as required by Department regulations.
- (d) The gross beta particle activity MCL is 4 millirem/year annual dose equivalent to the total body or any internal organ. The screening level is 50 pCi/L.
- (e) Compliance for treatment plants that use ozone is based on a running annual average of monthly samples. UWCD water is not subject to these requirements.
- (f) Compliance is based on a running annual average of quarterly distribution system samples,
- (g) AI measures the aggressiveness of water transported through pipes. Water with AI <10.0 is highly aggressive and would be very corrosive to almost all materials found in a typical water system, AI > 12.0 indicates non-aggressive water. AI between 10.0 and 11.9 indicates moderately aggressive water.