



CITY OF PORT HUENEME CONSUMER CONFIDENCE REPORT 2019



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

This CCR summarizes the 2019 water quality test results performed by the City, United Water Conservation District (United), Port Hueneme Water Agency (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 potable. Para información en español llámenos al (805) 986-6563.

Where Does My Water Come From?

The City receives its water from the PHWA treatment plant. The PHWA provides treatment to groundwater that comes from 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.

United completed a Source Water Assessment for the drinking water wells in October 2001. This assessment provides a survey of potential sources of contamination of the ground water that supplies the wells. Activities that constitute the highest risk to the water are: Petroleum storage tanks and fueling operations, septic systems, and animal feed lots that are no longer in use. The Surface Water Sanitary Survey was last updated in January of 2016. A copy of the Source Water Assessment is available from United at 805-525-4431.

Calleguas receives water from Metropolitan Water District of Southern California (MWD). MWD completed a Source Water Assessment for both the State Water Project and Colorado River supply. Activities that constitute the highest risk to the water are: Urban and storm water runoff, increasing urbanization in the watershed, and wastewater. The State Water survey was updated in 2016 and the Colorado River supply in 2015. A copy of the Source Water Assessments are available from MWD at 213-217-5696.

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 of these units 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 MWD through Calleguas is also used at the PHWA treatment plant location and is used to meet high demand periods. 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.

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 (U.S. EPA) and SWRCB water quality standards. The City 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 the 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 the SWRCB.

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).

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. SWRCB regulations also establish limits for contaminants in bottled water that provide the same protection for public health.

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** – 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.

Radon

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 can produce 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 Evelia Hernandez, City of Port Hueneme Water Division at (805) 986-6563.

The public is always welcome to attend the City Council meetings, which are held the 1st and 3rd Mondays of each month at 6:30 p.m. at the City of Port Hueneme Civic Center located at 250 N. Ventura Road, Port Hueneme, CA. In addition, the public is welcome to attend the PHWA Board meetings. These are monthly meeting held on the 3rd Monday at 4:00 p.m. at the City of Port Hueneme Civic Center.

CITY OF PORT HUENEME

2019 Consumer Confidence Report

Parameter	Units	State MCL [MRDL]	PHG (MCLG) [MRDLG]	State DLR	Range Average	Purchased	Purchased	BWRDF (Blended)	COPH	Major Sources in Drinking Water
						CMWD (Calleguas)	UWCD (United)			
Percent of Supply						17%	83%	100%	100%	

PRIMARY STANDARDS--Mandatory Health-Related Standards

CLARITY (a)

Parameter	Units	Highest Single Value	TT = % of samples <0.3 NTU	0.06	0.33	0.1	NA	Soil runoff
Combined Filter Effluent Turbidity	NTU			100%	50%	100%	NA	

MICROBIOLOGICAL

Parameter	Units	2 or 5.0%	(0)	--	Range	ND - 1	0.0%	ND	ND	Naturally present in the environment
Total Coliform Bacteria	(b)				Average	0.0%	0.0%	ND	ND	
Fecal Coliform and <i>E. coli</i>	(b)	(b)	(0)	--	Range	ND	ND	ND	ND	
					Average	TT	ND	ND	ND	ND

INORGANIC CHEMICALS (Lead & Copper is analyzed every three years, our last sampling event was 2017)

Parameter	Units	1000	600	50	Range	ND - 290	ND	NA	NA	Erosion of natural deposits; residue from some water treatment process
Aluminum	ppb				Average	58	ND	NA	NA	
Arsenic	ppb	10	0.004	2	Range	3.0 - 4.0	4 - 5	NA	NA	Erosion of natural deposits; runoff from orchards; electronics production wastes
					Average	3.5	4.5	NA	NA	
Copper (90th Percentile)	ppm	AL=1.3	0.3	0.05	Range	ND	ND	NA	ND - 0.4	Internal corrosion of household pipes; erosion of natural deposits
					Average	ND	ND	NA	0.3	
Treatment-related Fluoride (c)	ppm	2.0	1	0.1	Range	0.7 - 1.1	0.6	0.52 - 1.06	NA	Water additive that promotes strong teeth
					Highest RAA	0.7	0.6	0.75	NA	
Lead (90th Percentile)	ppb	AL=15	0.2	5	Range	ND	ND	ND	ND	Internal corrosion of household pipes; erosion of natural deposits
					Average	ND	ND	ND	ND	
Nitrate (as N)	ppm	10	10	0.4	Range	ND - 0.5	4.7 - 7.7	3.3	NA	Runoff & leaching from fertilizer use & sewage; erosion of natural deposits
					Average	0.5	6.2	3.3	NA	
Selenium	ppb	50	30	5	Range	ND - 14.0	22 - 25	NA	NA	Discharge from refineries, mines and chemical manufacturers, runoff
					Average	ND	23.5	NA	NA	

RADIOLOGICALS [analyzed every three years, for four consecutive quarters (MWD sampled 2017, CMWD sampled 2017 and UWCD 2017)]

Parameter	Units	15	(0)	3.0	Range	ND - 3.9	4.78 - 7.59	NA	NA	Erosion of natural deposits
Gross Alpha Particle Activity	pCi/L				Average	ND	5.96	NA	NA	
Uranium	pCi/L	20	0.43	1.0	Range	ND - 2.7	1.5 - 4.79	NA	NA	Erosion of natural deposits
					Average	ND	3.14	NA	NA	

DISINFECTION BY-PRODUCTS AND DISINFECTANT RESIDUALS

Parameter	Units	10	0.1	1.0	Range	ND - 8.4	NA	NA	NA	By-product of drinking water disinfection
Bromate (e)	ppb				Highest RAA	5.6	NA	NA	NA	
Total Chlorine Residual	ppm	[4.0]	[4]	--	Range	1.3 - 2.5	1.45 - 1.93	1.3 - 3.3	1.80 - 3.00	Drinking water disinfectant added for treatment
					Highest RAA	2.3	1.8	2.66	2.48	
Haloacetic Acids (f)	ppb	60	--	1.0	Range			5.1-10	5 - 12	By-product of drinking water disinfection
					Highest RAA			7.54	9.3	
Total Trihalomethanes (f)	ppb	80	--	1.0	Range			24-65	31 - 64	By-product of drinking water chlorination
					Highest RAA			43.1	40.9	

SECONDARY STANDARDS--Aesthetic Standards

Parameter	Units	300	--	100	Range	ND	0 - 170	ND	NA	Leaching from natural deposits; industrial wastes
Iron	ppb				Average	ND	3.21	ND	NA	
Manganese	ppb	50	NL = 500	20	Range	ND	0 - 10	ND	NA	Leaching from natural deposits
					Average	ND	.19	ND	NA	
Odor Threshold	TON	3	--	1	Range	ND - 1	ND	ND	NA	Naturally occurring organic materials
					Average	ND	ND	ND	NA	
Specific Conductance	µS/cm	1,600	--	--	Range	471 - 758	1260 - 1540	695	NA	Substances that form ions when in water; seawater influence
					Average	495	1385.83	695	NA	
Sulfate	ppm	500	--	0.5	Range	56 - 92.9	418 - 528	175	NA	Runoff/leaching from natural deposits; industrial wastes
					Average	59.9	452.42	175	NA	
Total Dissolved Solids	ppm	1,000	--	--	Range	280 - 430	860 - 1100	460	NA	Runoff/leaching from natural deposits
					Average	287.41	985.83	460	NA	
Turbidity (monthly)	NTU	5	--	--	Range	ND	0.01 - 0.33	0.1	NA	Soil runoff
					Average	ND	0.09	0.1	NA	

ADDITIONAL PARAMETERS (Unregulated)

Parameter	Units	NS	--	--	Range	80 - 110	160 - 190	110	NA	
Alkalinity	ppm				Average	82	175	110	NA	
Boron	ppm	NL=1	--	0.1	Range	0.2	0.5 - 0.6	0.5	NA	
					Average	0.2	0.55	0.5	NA	
Calcium	ppm	NS	--	--	Range	26 - 32	120 - 136	51	NA	
					Average	27	128	51	NA	
Corrosivity (g)	Al	NS	--	--	Range	12.0 - 12.3	11.9 - 12.4	12	NA	
					Average	12.2	12.1	12	NA	
Hardness (Total Hardness)	ppm	NS	--	--	Range	112 - 142	480 - 545	205	NA	
					Average	114	512.5	205	NA	
Hardness (Grains per Gallon)	Grains	NS	--	--	Range	6.54 - 8.29	28.04 - 31.83	12.0	NA	
					Average	6.7	29.9	12.0	NA	
Magnesium	ppm	NS	--	--	Range	12 - 15	44 - 50	19	NA	
					Average	12	47	19	NA	
pH	pH Units	NS	--	--	Range	8.1 - 8.5	7.2 - 7.3	7.9	NA	
					Average	8.4	7.25	7.9	NA	
Potassium	ppm	NS	--	--	Range	2.7 - 3.0	4 - 5	3	NA	
					Average	2.7	4.5	3	NA	
Radon	pCi/L	NS	--	100.0	Range	ND	273 - 1790	NA	NA	
					Average	ND	685.75	NA	NA	
Sodium	ppm	NS	--	--	Range	51 - 84	73 - 88	50	NA	
					Average	52	80.5	50	NA	
Total Organic Carbon	ppm	TT	--	0.3	Range	1.2 - 2.5	0.8 - 1.5	NA	NA	
					Average	2.3	1.13	NA	NA	



City of Port Hueneme
250 N. Ventura Road
Port Hueneme, CA 93041

POSTAL CUSTOMER

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WATER QUALITY REPORT 2019

Abbreviations & Notes

AI = Aggressiveness Index	
AL = Federal Regulatory Action Level	
DLR = Detection Limits for Purposes of Reporting	
MCL = Maximum Contaminant Level	
MCLG = Maximum Contaminant Level Goal	
MFL = Million Fibers per Liter	
$\mu\text{S/cm}$ = MicroSiemen per Centimeter	
MPN = Most Probable Number	
MRDL = Maximum Residual Disinfectant Level	
MRDLG = Maximum Residual Disinfectant Level Goal	
NA = Not Analyzed	
ND = None Detected	
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 Billion, or Micrograms per Liter ($\mu\text{g/L}$)	
ppt = Parts per Trillion, or Nanograms per Liter (ng/L)	
ppq = Parts per Quadrillion, or Picograms per Liter (pg/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.

Maximum Contaminant Level (MCL): The highest level of a contaminant that is allowed in drinking water. Primary MCLs are set as close to the PHGs (or MCLGs) as is economically and technologically feasible. Secondary MCLs are set to protect the odor, taste, and appearance of drinking water.

Maximum Contaminant Level Goal (MCLG): The level of a contaminant in drinking water below which there is no known or expected risk to health. MCLGs are set by the U.S. Environmental Protection Agency.

Public Health Goal (PHG): The level of a contaminant in drinking water below which there is no known or expected risk to health. PHGs are set by the California Environmental Protection Agency.

Primary Drinking Water Standard (PDWS): MCLs and MRDLs for contaminants that affect health along with their monitoring and reporting requirements, and water treatment requirements.

Maximum Residual Disinfectant Level (MRDL): The highest level of a disinfectant allowed in drinking water. There is convincing evidence that addition of a disinfectant is necessary for control of microbial contaminants.

Maximum Residual Disinfectant Level Goal (MRDLG): The level of a drinking water disinfectant below which there is no known or expected risk to health. MRDLGs do not reflect the benefits of the use of disinfectants to control microbial contaminants.

Treatment Technique (TT): A required process intended to reduce the level of a contaminant in drinking water.



Regulatory Action Level (RAL): The concentration of a contaminant which, if exceeded, triggers treatment or other requirements that a water system must follow.

- 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.
- 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.
- 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.
- 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.
- 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.
- Compliance is based on a running annual average of quarterly distribution system samples.
- 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.

The State allows us to monitor for some contaminants less than once per year because the concentrations of these contaminants do not change frequently. Some of our data, though representative, are more than one year old.

For Lead and/or Copper

32 sites were sampled in 2017 as a first drawn sample for lead and copper. 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. The City of Port Hueneme 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 30 seconds to 2 minutes before using 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 Safe Drinking Water Hotline or at www.epa.gov/safewater/lead.