PORT HUENEME WATER AGENCY

2014 Water Quality Report to Purveyors

Parameter	Units	State MCL [MRDL]	PHG (MCLG) [MRDLG]	State DLR	Range / Average	Purchased CMWD (Calleguas)	Purchased UWCD (United)	BWRDF (Blended)	Major Sources in Drinking Water
				Percent of Supply		46%	54%	100%	
PRIMARY STANDARDS--Mandatory Health-Related Standards									
CLARITY (a)									
Combined Filter Effluent Turbidity	NTU	Highest Single Value TT = % of samples <0.3 NTU				0.06 100%	0.26 100%	0.29 100%	Soil runoff
MICROBIOLOGICAL									
Total Coliform Bacteria	(b)	2 or 5.0%	(0)	--	Range Average	0.0% 0.0%	0.0% 0.0%	0.0% 0.0%	Naturally present in the environment
INORGANIC CHEMICALS									
Aluminum	ppb	1000	600	50	Range Average	ND - 110 57	0 - 10 5	NA NA	Erosion of natural deposits; residue from some water treatment process
Arsenic	ppb	10	0.004	2	Range Average	2.2 2.2	2.0 - 3.0 2.5	NA NA	Erosion of natural deposits; runoff from orchards; electronics production wastes
Treatment-related Fluoride (c)	ppm	2.0	1	0.1	Range Highest RAA	0.7-1.0 0.8	0.30 - 0.40 0.35	0.60 - 1.17 .96	Water additive that promotes strong teeth
Nitrate (as N)	ppm	10	10	0.4	Range Average	ND ND	2.7 - 4.7 3.7	3.6 3.6	Runoff & leaching from fertilizer use & sewage; erosion of natural deposits
Nitrate (as No3) (d)	ppm	45	45	2	Range Average	2.7 2.7	12.3 - 35.5 23.5	NA NA	Runoff & leaching from fertilizer use & sewage; erosion of natural deposits
Selenium	ppb	50	30	5	Range Average	ND ND	9.0 - 14.0 11.5	NA NA	Discharge from refineries, mines and chemical manufacturers, runoff
RADIOLOGICALS [analyzed every three years, for four consecutive quarters (MWD sampled 2014, CMWD sampled 2014)]									
Gross Alpha Particle Activity	pCi/L	15	(0)	3.0	Range Average	ND - 5.0 3.0	0 - 7.9 4.8	NA NA	Erosion of natural deposits
Gross Beta Particle Activity (e)	pCi/L	50	(0)	4.0	Range Average	ND - 5 ND	NA NA	NA NA	Decay of natural and manmade deposits
Uranium	pCi/L	20	0.43	1.0	Range Average	2.0 - 3.0 2.0	1.9 - 4.3 3.3	NA NA	Erosion of natural deposits
DISINFECTION BY-PRODUCTS AND DISINFECTANT RESIDUALS									
Bromate (f)	ppb	10	0.1	1.0	Range Highest RAA	4.4 - 13.0 7.8	NA NA	NA NA	By-product of drinking water disinfection
Total Chlorine Residual	ppm	[4.0]	[4]	--	Range Highest RAA	1.5 -2.6 2.2	1.05 - 3.20 1.87	1.60 - 2.67 2.61	Drinking water disinfectant added for treatment
Haloacetic Acids (g)	ppb	60	--	1.0	Range Highest RAA	2.0 - 9.0 6.0	3.0 - 6.0 5.0	1.6 - 3.7 3.3	By-product of drinking water disinfection
Total Trihalomethanes (g)	ppb	80	--	1.0	Range Highest RAA	14.5 - 29.9 24.1	18.8 - 33.4 28.0	16.0 - 43.0 25.4	By-product of drinking water chlorination
SECONDARY STANDARDS--Aesthetic Standards									
Aluminum	ppb	200	600	50	Range Average	ND - 110 57	0 - 10 5	NA NA	Erosion of natural deposits; residue from some water treatment process
Iron	ppb	300	--	100	Range Average	ND ND	90 - 240 165	ND ND	Leaching from natural deposits; industrial wastes
Manganese	ppb	50	NL = 500	20	Range Average	ND ND	0 - 70 35	ND ND	Leaching from natural deposits
Odor Threshold	TON	3	--	1	Range Average	3 3	0 - 16 ND	3 3	Naturally occurring organic materials
Specific Conductance	µS/cm	1,600	--	--	Range Average	588 - 631 610	1370 - 1530 1458.3	590 590	Substances that form ions when in water; seawater influence
Sulfate	ppm	500	--	0.5	Range Average	63 - 75 69	460 - 541 511	135 135	Runoff/leaching from natural deposits; industrial wastes
Total Dissolved Solids	ppm	1,000	--	--	Range Average	325 - 355 340	1020 - 1120 1078	350 350	Runoff/leaching from natural deposits
FEDERAL UNREGULATED CHEMICALS REQUIRING MONITORING (UCMR 2)									
N-Nitrosodimethylamine (NDMA)	ppt	NS	NS	--	Range Average	ND - 2.2 ND	NA NA	NA NA	
ADDITIONAL PARAMETERS (Unregulated)									
Boron	ppm	NL=1	--	0.1	Range Average	.16 .16	.60 .60	0.63 0.63	
Chlorate	ppb	NL=800	--	20	Range Average	36 36	NA NA	NA NA	
Chromium (Total)	ppb	50	NONE	10	Range Average	NA NA	0 - 2 1	NA NA	
Corrosivity (h)	AI	NS	--	--	Range Average	12.0 12.0	12.6 - 12.7 12.6	11 - 12 11.5	
Hardness (Total Hardness)	ppm	NS	--	--	Range Average	114 - 136 125	577 - 630 603.5	160 160	
pH	pH Units	NS	--	--	Range Average	8.1 - 8.3 8.2	7.6 - 7.8 7.7	8.0 8.0	
Potassium	ppm	NS	--	--	Range Average	3.0 3.0	NA NA	1.9 1.9	
Radon	pCi/L	NS	--	100.0	Range Average	ND ND	278 - 363 331.3	NA NA	
Sodium	ppm	NS	--	--	Range Average	69 - 73 71	101 - 101 101	56 56	
Total Organic Carbon	ppm	TT	--	0.3	Range Average	1.3 - 2.1 1.9	0.7 - 1.3 0.95	NA NA	
Vanadium	ppb	NL=50	--	3	Range Average	4.8 4.8	NA NA	NA NA	

ABBREIVATIONS & 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
µS/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 (µg/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.

(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 2014.

(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 0.7 - 1.3 ppm, as required by Department regulations.

(d) State MCL is 45 mg/L as Nitrate, which equals 10.16 mg/L as Nitrogen.

(e) 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.

(f) 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.

(g) Compliance is based on a running annual average of quarterly distribution system samples.

(h) 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.