

2021 Water Quality Report to Member Agencies—The Metropolitan Water District of Southern California Treatment Plant Influent (PWS ID: 1910087)

Parameter	Units	Range Average	Treatment Plant Influent *					Major Sources in Drinking Water
			Diemer Plant	Jensen Plant	Mills Plant	Skinner Plant	Weymouth Plant	
Percent State Water Project	%	Range Average	0 - 100 11	100	100	0 - 55 6	0 - 100 24	Not applicable
COMPLIANCE MONITORING PARAMETERS								
Microbiological								
Total Coliform Bacteria	MPN/100 mL	Range Median	ND - 65 ND	10 - 32,000 1,300	6 - 1,800 25	30 - 8,700 360	ND - 1,000 2	Naturally present in the environment
<i>Escherichia coli</i> (<i>E. coli</i>)	MPN/100 mL	Range Median	ND ND	ND - 2 ND	ND - 8 1	ND - 5 1	ND - 1 ND	Human and animal fecal waste
Chemical								
Alkalinity, Total (as CaCO ₃)	ppm	Range Highest RAA	85 - 134 126	82 - 98 90	82 - 92 87	107 - 134 130	85 - 134 126	Runoff/leaching of natural deposits; carbonate, bicarbonate, hydroxide, and occasionally borate, silicate, and phosphate
Fluoride	ppm	Range Average	0.1 - 0.4 0.3	0.1 - 0.2 0.2	0.1	0.2 - 0.3 0.3	0.1 - 0.4 0.3	Erosion of natural deposits; discharge from fertilizer and aluminum factories
Total Organic Carbon (TOC)	ppm	Range Highest RAA	2.7 - 3.2 3.0	2.0 - 2.6 2.6	2.4 - 3.6 3.2	2.8 - 3.3 3.1	2.8 - 3.2 3.0	Various natural and man-made sources
OTHER PARAMETERS								
Aluminum	ppb	Range Average	ND ND	ND ND	ND ND	ND ND	ND ND	Residue from water treatment process; natural deposits erosion
Antimony	ppb	Range Average	ND ND	ND ND	ND ND	ND ND	ND ND	Petroleum refinery discharges; fire retardants; solder; electronics
Arsenic	ppb	Range Average	2.0 2.0	2.2 2.2	2.0 2.0	2.1 2.1	2.0 2.0	Natural deposits erosion, glass and electronics production wastes
Barium	ppb	Range Average	113 113	ND ND	ND ND	ND ND	115 115	Oil and metal refineries discharges; natural deposits erosion
Beryllium	ppb	Range Average	ND ND	ND ND	ND ND	ND ND	ND ND	Discharge from metal refineries, aerospace, and defense industries
Boron	ppb	Range Average	130 130	190 190	200 200	140 140	130 130	Runoff/leaching from natural deposits; Industrial wastes
Cadmium	ppb	Range Average	ND ND	ND ND	ND ND	ND ND	ND ND	Internal corrosion of galvanized pipes; discharge from electroplating, industrial factories, and metal refineries; runoff from waste batteries and paints; natural deposits erosion
Chromium	ppb	Range Average	ND ND	ND ND	ND ND	ND ND	ND ND	Discharge from steel and pulp mills; natural deposits erosion
Chromium VI	ppb	Range Average	ND ND	ND ND	ND ND	ND ND	ND ND	Runoff/leaching from natural deposits; industrial wastes
Copper	ppm	Range Average	ND ND	ND ND	ND ND	ND ND	ND ND	Internal corrosion of household pipes; natural deposits erosion; leaching from wood preservatives
<i>Cryptosporidium</i>	oocysts/10 L	Range Average	ND ND	ND ND	ND ND	ND ND	ND ND	Human and animal fecal waste
<i>Giardia</i>	cysts/10 L	Range Average	ND ND	ND ND	ND ND	ND ND	ND ND	Human and animal fecal waste
Hardness, Total (as CaCO ₃)	ppm	Range Average	100 - 284 257	108 - 144 118	93 - 118 107	186 - 286 265	102 - 302 258	Runoff/leaching from natural deposits; sum of polyvalent cations, generally magnesium and calcium present in the water
Iron	ppb	Range Average	ND ND	ND ND	ND ND	ND ND	ND ND	Leaching from natural deposits; industrial wastes

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Lead	ppb	Range Average	ND	ND	ND	ND	ND	Internal corrosion of household water plumbing systems; industrial manufacturers' discharge; erosion of natural deposits
Manganese	ppb	Range Average	ND	ND	ND	ND	ND	Leaching from natural deposits
Mercury	ppb	Range Average	ND	ND	ND	ND	ND	Erosion of natural deposits; factory discharge; landfill runoff
Nickel	ppb	Range Average	ND	ND	ND	ND	ND	Erosion of natural deposits; discharge from metal factories
Perchlorate	ppb	Range Average	ND	ND	ND	ND	ND	Industrial waste discharge
pH	pH Units	Range Average	7.9 - 8.7 8.3	7.6 - 8.1 7.8	7.2 - 8.8 7.8	8.0 - 8.5 8.3	7.8 - 8.6 8.2	Not applicable
Selenium	ppb	Range Average	ND	ND	ND	ND	ND	Refineries, mines, and chemical waste discharge; runoff from livestock lots
Specific Conductance	µS/cm	Range Average	522 - 959 895	439 - 583 495	476 - 570 507	708 - 956 915	517 - 946 888	Substances that form ions in water; seawater influence
Silver	ppb	Range Average	ND	ND	ND	ND	ND	Industrial discharges
Thallium	ppb	Range Average	ND	ND	ND	ND	ND	Leaching from ore processing; discharge from electronics, glass, and pharmaceutical factories
Turbidity	NTU	Range Average	0.4 - 5.1 1.1	0.4 - 9.2 1.9	0.2 - 1.7 0.4	0.4 - 2.1 1.0	0.4 - 3.4 1.2	Soil runoff
Vanadium	ppb	Range Average	ND	ND	3.2	ND	ND	Naturally occurring; industrial waste discharge
Zinc	ppm	Range Average	ND	ND	ND	ND	ND	Runoff/leaching from natural deposits; industrial wastes

DEFINITION OF TERMS AND FOOTNOTES

*As a wholesale water system, Metropolitan provides its member agencies with relevant source water information and monitoring results that they may need for their annual water quality report. Metropolitan's compliance with state or federal regulations is determined at the treatment plant effluent locations and/or distribution system, or plant influent per frequency stipulated in Metropolitan's State-approved monitoring plan. MCLs, PHGs, and state DLRs are included in the Treatment Plant Effluent Report. Data above Metropolitan's laboratory reporting limit (RL) but below the State DLR are reported as "ND" in this report. These data are available upon request.

Definition of Terms

Average	Result based on arithmetic mean	ppm	parts per million or milligrams per liter (mg/L)
CaCO ₃	Calcium Carbonate	RAA	Running Annual Average; highest RAA is the highest of all Running Annual Averages calculated as an average of the all samples collected within a 12-month period
MPN	Most Probable Number	Range	Results based on minimum and maximum values; range and average values are the same if a single value is reported for sample collected once or twice annually
DLR	Detection Limits for Purposes of Reporting	RL	Reporting Limit
MCL	Maximum Contaminant Level	µS/cm	microSiemen per centimeter; or micromho per centimeter (µmho/cm)
ND	Not Detected at or above DLR or RL		
NTU	Nephelometric Turbidity Units		
PHG	Public Health Goal		
ppb	parts per billion or micrograms per liter (µg/L)		