

The Metropolitan Water District of Southern California

GENERAL MINERAL AND PHYSICAL ANALYSIS OF METROPOLITAN'S WATER SUPPLIES

TABLE D

September 2019

CONSTITUENTS	UNITS	SOURCE WATERS								TREATMENT PLANT EFFLUENTS				
		LAKE HAVASU	SAN JACINTO TUNNEL	LAKE MATHEWS	CASTAIC LAKE	SILVER-WOOD LAKE	LAKE PERRIS	DIAMOND VALLEY LAKE	LAKE SKINNER	WEY-MOUTH	DIEMER	JENSEN	SKINNER	MILLS
SILICA	mg/L	8.1	8.1	7.9	11.5	9.1	6.0	8.0	7.6	9.3	9.2	11.6	8.2	8.6
CALCIUM	mg/L	71	76	66	28	15	22	25	36	23	28	27	34	17
MAGNESIUM	mg/L	25	25	25	12	9	12	12	14	11	13	13	14	9
SODIUM	mg/L	86	85	91	47	32	57	49	55	49	56	54	64	45
POTASSIUM	mg/L	4.4	4.7	4.6	2.7	2.2	3.3	3.4	3.3	2.5	2.7	2.8	3.3	2.4
CARBONATE	mg/L	0	0	0	0	0	0	0	0	0	0	1	0	2
BICARBONATE	mg/L	159	154	148	94	73	99	96	107	82	90	100	105	77
SULFATE	mg/L	212	211	219	57	20	39	47	83	64	82	62	93	32
CHLORIDE	mg/L	85	86	91	60	46	80	68	65	53	57	64	72	56
NITRATE	mg/L	1.1	0.9	0.7	2.2	0.6	0.6	1.4	0.4	1.0	0.9	2.3	0.9	1.4
FLUORIDE	mg/L	0.3	0.3	0.3	0.2	<0.1	0.1	0.1	0.2	0.7	0.8	0.7	0.7	0.8
TOTAL DISSOLVED SOLIDS (TDS)	mg/L	572	574	580	268	170	270	262	318	254	295	288	343	213
TOTAL HARDNESS AS CaCO ₃	mg/L	269	282	267	118	71	105	107	147	102	123	119	141	79
TOTAL ALKALINITY AS CaCO ₃	mg/L	130	126	121	77	60	81	79	88	67	74	84	86	67
FREE CARBON DIOXIDE	mg/L	2.8	1.2	4.8	4.7	1.2	6.4	4.1	1.2	0.6	0.7	0.7	1.1	0.4
pH	pH	7.98	8.33	7.71	7.52	8.02	7.41	7.59	8.18	8.35	8.33	8.37	8.22	8.58
SPECIFIC CONDUCTANCE	µS/cm	915	932	958	480	314	507	473	561	454	513	507	599	389
COLOR	CU	--	--	--	--	--	--	--	--	--	--	--	--	--
TURBIDITY	NTU	0.68	0.50	0.79	0.77	1.1	0.94	0.27	0.46	0.04	0.04	0.05	0.07	0.05
TEMPERATURE	°C	25	29	22	14	25	24	16	25	24	27	21	28	27
BROMIDE	mg/L	0.07	0.07	0.08	0.19	0.14	0.25	0.21	0.15	--	--	--	--	--
TOTAL ORGANIC CARBON	mg/L	2.98	3.10	3.02	2.86	3.06	3.52	2.60	3.06	--	--	--	--	--
SATURATION INDEX	--	--	--	--	--	--	--	--	--	0.26	0.42	0.34	0.41	0.41
STATE PROJECT WATER	%	0	0	0	100	100	100	100	64	84	75	100	64	100