

The Metropolitan Water District of Southern California

GENERAL MINERAL AND PHYSICAL ANALYSIS OF METROPOLITAN'S WATER SUPPLIES

TABLE D

November 2023

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	8.0	8.5	7.9	15.1	12.0	4.6	7.7	10.0	10.9	9.2	15.0	8.4	11.7
CALCIUM	mg/L	79	79	72	38	20	28	23	44	31	53	39	45	20
MAGNESIUM	mg/L	28	29	29	12	11	13	12	17	14	22	12	18	11
SODIUM	mg/L	111	115	112	47	40	61	51	68	64	96	55	81	49
POTASSIUM	mg/L	5.6	5.7	5.4	2.6	3.1	3.7	3.7	3.8	3.6	4.5	2.6	4.1	3.2
ALKALINITY, CARBONATE AS CO ₃	mg/L	0	0	0	0	0	0	4	0	2	4	2	2	4
ALKALINITY, BICARBONATE AS HCO ₃	mg/L	165	161	151	110	85	129	92	121	99	117	116	109	73
SULFATE	mg/L	252	250	241	92	31	43	46	119	88	182	97	135	45
CHLORIDE	mg/L	113	114	112	42	53	78	64	74	71	96	46	88	59
NITRATE	mg/L	1.4	1.3	0.5	3.3	3.0	0.3	0.2	1.1	2.5	1.7	3.3	2.4	3.4
FLUORIDE	mg/L	0.3	0.4	0.3	0.3	<0.1	0.1	0.1	0.2	0.7	0.7	0.7	0.7	0.7
TOTAL DISSOLVED SOLIDS (TDS)	mg/L	681	683	656	307	216	296	258	398	337	528	331	439	244
TOTAL HARDNESS AS CaCO ₃	mg/L	316	312	297	145	91	126	107	180	135	223	147	186	92
TOTAL ALKALINITY AS CaCO ₃	mg/L	135	132	124	90	70	106	81	99	85	102	99	93	66
FREE CARBON DIOXIDE	mg/L	1.8	1.6	1.7	4.9	2.1	3.7	0.6	2.6	0.4	0.6	0.5	0.6	0.3
pH	pH	8.19	8.23	8.17	7.57	7.83	7.77	8.47	7.88	8.63	8.52	8.63	8.47	8.71
SPECIFIC CONDUCTANCE	µS/cm	1100	1090	1040	496	382	544	457	676	575	865	540	748	434
COLOR	CU	--	--	--	--	--	--	--	--	--	--	--	--	--
TURBIDITY	NTU	3.4	0.38	0.47	1.9	1.6	1.0	1.6	1.0	0.05	0.03	0.04	0.06	0.05
TEMPERATURE	°C	21	20	22	16	17	20	18	18	18	20	18	21	19
BROMIDE	mg/L	0.10	0.06	0.09	0.12	0.15	0.24	0.20	0.12	--	--	--	--	--
TOTAL ORGANIC CARBON	mg/L	3.29	2.94	3.26	3.32	3.92	3.58	3.73	3.36	--	--	--	--	--
SATURATION INDEX	--	--	--	--	--	--	--	--	--	0.59	0.79	0.76	0.65	0.41
STATE PROJECT WATER	%	0	0	0	100	100	100	100	53	78	39	100	54	100