

The Metropolitan Water District of Southern California

GENERAL MINERAL AND PHYSICAL ANALYSIS OF METROPOLITAN'S WATER SUPPLIES

TABLE D

April 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	7.3	7.6	7.1	11.7	9.6	2.6	7.4	4.4	8.7	8.7	11.8	5.6	9.1
CALCIUM	mg/L	72	73	68	26	15	23	24	39	27	30	26	39	16
MAGNESIUM	mg/L	25	25	26	12	8	13	12	17	12	13	12	16	9
SODIUM	mg/L	86	86	92	47	30	61	51	69	54	57	51	69	40
POTASSIUM	mg/L	4.5	4.6	4.6	2.7	2.2	3.4	3.5	3.7	2.7	2.9	2.7	3.6	2.2
CARBONATE	mg/L	0	0	0	0	0	0	0	0	0	0	1	0	1
BICARBONATE	mg/L	159	162	156	94	68	104	100	121	82	84	95	106	63
SULFATE	mg/L	213	215	220	52	27	42	50	113	81	93	56	108	39
CHLORIDE	mg/L	84	87	89	59	37	84	68	82	55	58	62	78	44
NITRATE	mg/L	1.5	1.3	0.9	1.9	2.0	0.1	0.4	0.5	2.0	2.4	2.0	0.8	2.6
FLUORIDE	mg/L	0.3	0.3	0.3	0.2	<0.1	0.1	0.1	0.2	0.7	0.1	0.7	0.6	0.7
TOTAL DISSOLVED SOLIDS (TDS)	mg/L	573	581	586	259	165	281	266	389	284	307	273	374	195
TOTAL HARDNESS AS CaCO ₃	mg/L	277	279	277	114	72	109	109	170	116	130	112	164	76
TOTAL ALKALINITY AS CaCO ₃	mg/L	130	133	128	77	56	85	82	99	67	69	80	87	54
FREE CARBON DIOXIDE	mg/L	2.0	1.4	2.3	2.8	1.4	1.1	1.7	0.9	0.4	0.6	0.7	1.4	0.3
pH	pH	8.13	8.29	8.05	7.75	7.91	8.21	7.98	8.35	8.51	8.40	8.36	8.11	8.63
SPECIFIC CONDUCTANCE	µS/cm	939	968	961	450	300	526	494	686	503	521	471	644	343
COLOR	CU	5	1	2	5	15	5	5	10	1	1	2	2	1
TURBIDITY	NTU	0.38	0.36	0.77	2.1	3.3	0.46	0.43	0.77	0.05	0.04	0.04	0.06	0.05
TEMPERATURE	°C	18	19	15	18	15	14	14	16	17	20	13	19	18
BROMIDE	mg/L	0.07	0.09	0.07	0.18	0.10	0.27	0.21	0.17	--	--	--	--	--
TOTAL ORGANIC CARBON	mg/L	3.00	3.15	2.82	2.95	4.11	3.81	2.85	3.70	--	--	--	--	--
SATURATION INDEX	--	--	--	--	--	--	--	--	--	0.34	0.33	0.28	0.20	0.20
STATE PROJECT WATER	%	0	0	0	100	100	100	100	54	87	82	100	62	100