

The Metropolitan Water District of Southern California

GENERAL MINERAL AND PHYSICAL ANALYSIS OF METROPOLITAN'S WATER SUPPLIES

TABLE D

October 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	7.8	8.4	7.7	11.4	9.6	5.3	9.0	8.2	9.0	8.8	11.1	7.2	10.1
CALCIUM	mg/L	71	69	63	28	14	24	25	33	23	29	28	33	14
MAGNESIUM	mg/L	25	24	26	13	7	13	11	14	11	14	13	14	8
SODIUM	mg/L	88	87	96	48	23	60	47	55	46	54	54	62	33
POTASSIUM	mg/L	4.5	4.6	4.7	2.8	1.7	3.5	3.2	3.2	2.2	2.6	2.7	3.3	1.8
CARBONATE	mg/L	0	0	0	0	0	0	0	0	1	0	2	0	1
BICARBONATE	mg/L	160	156	134	93	71	101	94	107	83	90	98	102	70
SULFATE	mg/L	215	211	220	58	14	40	46	76	65	89	62	90	24
CHLORIDE	mg/L	85	85	92	59	29	82	67	64	46	53	62	68	38
NITRATE	mg/L	0.9	0.9	0.2	2.1	0.7	0.1	1.4	0.4	0.7	0.7	2.3	0.5	1.3
FLUORIDE	mg/L	0.3	0.3	0.3	0.1	<0.1	0.1	0.1	0.1	0.7	0.8	0.7	0.7	0.8
TOTAL DISSOLVED SOLIDS (TDS)	mg/L	577	568	577	269	135	279	257	307	246	297	287	330	167
TOTAL HARDNESS AS CaCO ₃	mg/L	271	267	257	117	64	107	113	137	101	124	117	139	66
TOTAL ALKALINITY AS CaCO ₃	mg/L	131	128	110	76	58	83	77	88	70	74	84	84	59
FREE CARBON DIOXIDE	mg/L	1.7	1.4	1.3	5.3	1.1	2.2	5.1	1.6	0.4	0.5	0.6	1.2	0.3
pH	pH	8.19	8.28	8.25	7.46	8.02	7.88	7.49	8.05	8.53	8.49	8.49	8.15	8.58
SPECIFIC CONDUCTANCE	µS/cm	926	930	934	468	244	522	466	543	435	508	505	576	299
COLOR	CU	5	3	3	10	10	5	5	5	ND	ND	1	ND	ND
TURBIDITY	NTU	1.0	0.67	0.73	1.0	0.81	1.1	0.27	1.2	0.04	0.04	0.04	0.07	0.05
TEMPERATURE	°C	24	23	24	15	21	22	19	23	21	24	20	24	23
BROMIDE	mg/L	0.08	0.06	0.09	0.18	0.09	0.26	0.20	0.15	--	--	--	--	--
TOTAL ORGANIC CARBON	mg/L	3.15	2.91	3.28	2.80	2.68	3.64	2.60	3.16	--	--	--	--	--
SATURATION INDEX	--	--	--	--	--	--	--	--	--	0.38	0.52	0.46	0.28	0.25
STATE PROJECT WATER	%	0	0	0	100	100	100	100	65	83	71	100	64	100