

The Metropolitan Water District of Southern California

GENERAL MINERAL AND PHYSICAL ANALYSIS OF METROPOLITAN'S WATER SUPPLIES

TABLE D

June 2018

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	7.0	6.9	6.5	11.8	12.0	11.8	9.3	7.2	7.8	7.8	11.9	7.6	12.4
CALCIUM	mg/L	75	72	70	21	22	20	24	71	65	64	21	75	21
MAGNESIUM	mg/L	25	24	26	10	10	10	12	24	24	23	10	25	10
SODIUM	mg/L	87	86	97	37	48	48	52	89	92	92	44	96	55
POTASSIUM	mg/L	4.3	4.5	4.8	2.5	2.4	2.4	3.3	4.5	4.5	4.5	2.6	4.7	2.5
CARBONATE	mg/L	0	1	0	0	0	0	0	1	0	0	1	0	1
BICARBONATE	mg/L	163	159	150	81	85	87	94	155	134	132	84	146	82
SULFATE	mg/L	217	220	232	37	42	42	49	213	203	200	42	231	51
CHLORIDE	mg/L	84	86	92	51	57	58	67	87	90	89	54	95	61
NITRATE	mg/L	1.5	1.3	0.6	2.1	1.4	0.9	1.4	0.9	0.8	0.8	2.1	1.1	2.2
FLUORIDE	mg/L	0.3	0.3	0.3	<0.1	<0.1	<0.1	0.1	0.3	0.7	0.7	0.6	0.7	0.8
TOTAL DISSOLVED SOLIDS (TDS)	mg/L	583	581	604	213	236	236	265	575	555	548	231	609	258
TOTAL HARDNESS AS CaCO <sub>3</sub>	mg/L	281	281	279	88	99	88	105	272	244	240	90	274	86
TOTAL ALKALINITY AS CaCO <sub>3</sub>	mg/L	134	132	123	66	70	71	77	129	110	108	71	120	69
FREE CARBON DIOXIDE	mg/L	1.7	1.2	1.8	3.7	0.8	1.3	3.0	1.2	1.7	1.7	0.5	1.8	0.6
pH	pH	8.20	8.36	8.14	7.56	8.25	8.05	7.72	8.35	8.13	8.12	8.43	8.12	8.39
SPECIFIC CONDUCTANCE	µS/cm	949	926	968	387	414	425	450	927	911	892	419	980	446
COLOR	CU	--	--	--	--	--	--	--	--	--	--	--	--	--
TURBIDITY	NTU	0.60	0.31	1.8	0.66	1.1	1.0	0.21	0.31	0.05	0.05	0.04	0.06	0.07
TEMPERATURE	°C	22	25	20	14	19	21	16	23	21	23	20	26	24
BROMIDE	mg/L	0.08	0.06	0.08	0.15	0.18	0.18	0.21	0.08	--	--	--	--	--
TOTAL ORGANIC CARBON	mg/L	3.02	3.08	3.26	2.98	4.02	3.88	2.65	3.04	--	--	--	--	--
SATURATION INDEX	--	--	--	--	--	--	--	--	--	0.53	0.52	0.32	0.71	0.26
STATE PROJECT WATER	%	0	0	0	100	100	100	100	9	23	21	100	2	100