

The Metropolitan Water District of Southern California

GENERAL MINERAL AND PHYSICAL ANALYSIS OF METROPOLITAN'S WATER SUPPLIES

TABLE D

July 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	7.7	8.0	8.9	12.0	9.4	4.7	5.0	5.0	9.5	9.3	11.7	6.7	9.6
CALCIUM	mg/L	71	68	69	27	13	23	24	29	28	33	27	31	13
MAGNESIUM	mg/L	25	24	25	13	7	13	12	13	11	13	13	13	6
SODIUM	mg/L	85	85	89	47	29	59	51	51	51	57	54	60	32
POTASSIUM	mg/L	4.3	4.2	4.4	2.8	2.1	3.3	3.2	3.0	2.6	2.9	2.8	3.3	1.9
CARBONATE	mg/L	0	1	0	0	0	0	0	0	0	0	0	0	2
BICARBONATE	mg/L	160	155	154	95	61	99	98	101	81	88	101	96	50
SULFATE	mg/L	210	206	219	57	21	40	51	68	84	100	61	80	31
CHLORIDE	mg/L	84	83	89	63	39	81	69	65	53	58	66	71	39
NITRATE	mg/L	1.3	1.1	1.1	2.1	1.4	0.4	0.1	0.6	1.4	1.4	2.2	0.8	1.9
FLUORIDE	mg/L	0.3	0.3	0.3	0.2	<0.1	0.1	0.1	0.1	0.7	0.9	0.7	0.7	0.8
TOTAL DISSOLVED SOLIDS (TDS)	mg/L	569	558	583	272	152	274	264	285	282	319	289	314	163
TOTAL HARDNESS AS CaCO <sub>3</sub>	mg/L	273	267	275	116	60	108	109	126	119	133	115	133	57
TOTAL ALKALINITY AS CaCO <sub>3</sub>	mg/L	131	129	126	78	50	81	80	83	66	72	83	79	45
FREE CARBON DIOXIDE	mg/L	1.8	1.1	4.9	3.8	1.6	1.8	0.9	2.1	0.6	0.8	0.8	0.9	0.1
pH	pH	8.17	8.36	7.72	7.62	7.81	7.97	8.27	7.90	8.34	8.27	8.30	8.23	8.80
SPECIFIC CONDUCTANCE	µS/cm	897	878	959	479	278	515	490	525	490	549	504	544	290
COLOR	CU	5	2	2	10	10	5	5	10	1	1	1	1	1
TURBIDITY	NTU	1.0	0.42	1.2	1.0	1.8	0.36	0.67	0.54	0.04	0.04	0.04	0.08	0.05
TEMPERATURE	°C	24	25	17	14	22	22	16	21	22	26	21	26	27
BROMIDE	mg/L	0.07	0.05	0.08	0.19	0.12	0.25	0.21	0.16	--	--	--	--	--
TOTAL ORGANIC CARBON	mg/L	2.94	3.26	3.12	2.95	3.12	4.24	3.07	3.52	--	--	--	--	--
SATURATION INDEX	--	--	--	--	--	--	--	--	--	0.24	0.32	0.27	0.35	0.33
STATE PROJECT WATER	%	0	0	0	100	100	100	100	74	74	66	100	69	100