

The Metropolitan Water District of Southern California

GENERAL MINERAL AND PHYSICAL ANALYSIS OF METROPOLITAN'S WATER SUPPLIES

TABLE D

July 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	7.5	7.3	7.0	11.6	12.7	8.2	8.4	7.4	8.6	8.6	11.8	8.5	12.3
CALCIUM	mg/L	72	71	69	22	21	24	24	68	57	56	22	65	20
MAGNESIUM	mg/L	25	25	25	10	10	13	12	24	22	21	10	23	10
SODIUM	mg/L	88	88	93	40	48	60	53	86	87	84	46	90	55
POTASSIUM	mg/L	4.4	4.4	4.6	2.6	2.7	3.3	3.3	4.4	4.1	4.1	2.6	4.2	2.6
CARBONATE	mg/L	0	1	0	0	0	0	0	1	0	0	1	0	2
BICARBONATE	mg/L	162	157	146	82	83	102	98	163	127	120	87	131	74
SULFATE	mg/L	223	220	230	38	41	46	51	182	180	176	42	193	55
CHLORIDE	mg/L	86	87	92	52	60	81	68	82	88	86	56	91	67
NITRATE	mg/L	1.3	1.1	0.6	2.2	0.5	0.5	0.2	0.6	0.7	0.8	2.3	0.8	0.9
FLUORIDE	mg/L	0.3	0.3	0.3	0.1	<0.1	0.1	0.1	0.3	0.8	0.7	0.7	0.7	0.7
TOTAL DISSOLVED SOLIDS (TDS)	mg/L	588	584	594	219	237	287	269	537	517	506	238	550	262
TOTAL HARDNESS AS CaCO ₃	mg/L	284	284	278	98	89	108	112	264	224	229	94	252	98
TOTAL ALKALINITY AS CaCO ₃	mg/L	133	131	120	67	68	84	80	136	104	98	73	107	65
FREE CARBON DIOXIDE	mg/L	2.0	1.1	1.8	4.7	0.7	2.2	0.8	1.2	1.5	1.7	0.6	1.6	0.5
pH	pH	8.12	8.37	8.13	7.46	8.32	7.88	8.30	8.36	8.14	8.08	8.41	8.12	8.42
SPECIFIC CONDUCTANCE	µS/cm	938	924	959	390	414	524	474	903	844	845	422	895	475
COLOR	CU	3	3	3	10	10	5	5	5	2	1	1	2	1
TURBIDITY	NTU	0.70	0.35	0.69	0.64	0.89	0.79	0.48	0.74	0.05	0.05	0.04	0.07	0.07
TEMPERATURE	°C	25	28	24	14	24	24	18	26	24	26	22	29	28
BROMIDE	mg/L	0.08	0.06	0.08	0.16	0.18	0.26	0.21	0.10	--	--	--	--	--
TOTAL ORGANIC CARBON	mg/L	3.22	3.15	3.21	3.07	4.17	4.44	3.22	3.16	--	--	--	--	--
SATURATION INDEX	--	--	--	--	--	--	--	--	--	0.54	0.48	0.34	0.79	0.40
STATE PROJECT WATER	%	0	0	0	100	100	100	100	6	34	37	100	25	100