

The Metropolitan Water District of Southern California

GENERAL MINERAL AND PHYSICAL ANALYSIS OF METROPOLITAN'S WATER SUPPLIES

TABLE D

June 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	7.4	7.8	8.6	11.8	8.7	4.4	9.4	3.6	9.4	9.4	12.2	8.4	9.4
CALCIUM	mg/L	70	70	69	27	18	22	24	28	27	22	27	33	17
MAGNESIUM	mg/L	24	25	26	12	12	13	12	13	13	12	12	15	10
SODIUM	mg/L	85	88	92	48	52	59	51	51	62	60	55	67	50
POTASSIUM	mg/L	4.3	4.6	4.5	2.8	3.2	3.4	3.4	3.0	3.1	3.0	2.8	3.6	2.7
CARBONATE	mg/L	0	0	0	0	0	0	0	0	1	0	0	0	2
BICARBONATE	mg/L	161	160	155	94	83	99	93	102	85	81	99	101	70
SULFATE	mg/L	208	207	220	54	33	41	48	65	82	59	58	90	37
CHLORIDE	mg/L	82	83	89	60	72	81	68	63	72	72	64	78	66
NITRATE	mg/L	1.5	1.2	1.0	2.1	1.2	0.4	1.3	0.4	1.6	1.6	2.2	1.1	2.0
FLUORIDE	mg/L	0.3	0.3	0.3	0.2	<0.1	0.1	0.1	0.1	0.7	0.8	0.7	0.7	0.8
TOTAL DISSOLVED SOLIDS (TDS)	mg/L	563	567	588	265	242	274	264	278	314	280	283	347	232
TOTAL HARDNESS AS CaCO ₃	mg/L	277	274	279	114	90	108	104	117	122	102	113	143	84
TOTAL ALKALINITY AS CaCO ₃	mg/L	132	131	127	77	68	81	76	84	72	66	81	83	61
FREE CARBON DIOXIDE	mg/L	1.9	1.2	3.6	3.3	1.0	1.5	3.2	1.5	0.6	0.5	0.8	0.8	0.3
pH	pH	8.14	8.35	7.85	7.68	8.14	8.03	7.68	8.07	8.40	8.40	8.33	8.31	8.60
SPECIFIC CONDUCTANCE	µS/cm	917	914	963	469	445	518	460	503	525	493	489	597	414
COLOR	CU	--	--	--	--	--	--	--	--	--	--	--	--	--
TURBIDITY	NTU	0.37	0.18	0.39	1.7	0.67	0.91	0.42	0.61	0.04	0.05	0.04	0.07	0.05
TEMPERATURE	°C	20	23	19	13	19	18	17	20	21	23	20	22	24
BROMIDE	mg/L	0.07	0.04	0.05	0.18	0.21	0.24	0.21	0.14	--	--	--	--	--
TOTAL ORGANIC CARBON	mg/L	3.00	2.86	2.94	2.88	3.69	3.92	2.86	3.52	--	--	--	--	--
SATURATION INDEX	--	--	--	--	--	--	--	--	--	0.30	0.18	0.27	0.38	0.31
STATE PROJECT WATER	%	0	0	0	100	100	100	100	79	79	91	100	70	100