

The Metropolitan Water District of Southern California

GENERAL MINERAL AND PHYSICAL ANALYSIS OF METROPOLITAN'S WATER SUPPLIES

TABLE D

February 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	8.0	8.2	8.4	11.4	8.9	5.7	8.9	6.6	8.4	8.5	11.4	6.8	8.7
CALCIUM	mg/L	72	72	72	23	16	24	24	62	69	67	23	65	17
MAGNESIUM	mg/L	26	25	26	11	10	13	12	23	26	25	11	24	11
SODIUM	mg/L	94	89	93	45	50	62	54	87	100	101	53	98	58
POTASSIUM	mg/L	4.6	4.5	4.7	2.7	2.9	3.4	3.3	4.3	4.7	4.6	2.7	4.4	2.9
CARBONATE	mg/L	0	0	0	0	0	0	0	0	0	0	1	0	1
BICARBONATE	mg/L	165	160	160	90	82	107	101	149	144	139	90	138	77
SULFATE	mg/L	219	222	230	45	24	45	53	195	229	223	50	211	36
CHLORIDE	mg/L	86	87	89	60	75	85	70	87	95	94	63	94	85
NITRATE	mg/L	1.4	1.3	0.9	1.9	2.2	0.2	0.9	0.6	1.0	1.0	2.0	0.7	2.7
FLUORIDE	mg/L	0.3	0.3	0.3	0.1	<0.1	0.1	0.1	0.3	0.8	0.8	0.7	0.7	0.8
TOTAL DISSOLVED SOLIDS (TDS)	mg/L	594	589	604	245	230	292	277	540	606	594	263	574	262
TOTAL HARDNESS AS CaCO <sub>3</sub>	mg/L	288	278	277	101	85	111	109	263	271	267	100	267	89
TOTAL ALKALINITY AS CaCO <sub>3</sub>	mg/L	135	131	131	74	67	88	83	122	118	114	76	113	65
FREE CARBON DIOXIDE	mg/L	2.0	1.9	2.1	1.9	2.0	1.6	3.9	1.7	1.8	1.8	0.6	1.9	0.4
pH	pH	8.14	8.14	8.11	7.89	7.83	8.06	7.63	8.16	8.12	8.11	8.42	8.09	8.54
SPECIFIC CONDUCTANCE	µS/cm	947	971	952	449	427	520	492	864	968	982	476	950	502
COLOR	CU	--	--	--	--	--	--	--	--	--	--	--	--	--
TURBIDITY	NTU	1.2	0.40	0.86	2.3	4.5	1.4	0.23	0.88	0.05	0.04	0.09	0.06	0.05
TEMPERATURE	°C	12	13	15	14	9	13	14	12	14	16	15	13	11
BROMIDE	mg/L	0.08	0.06	0.07	0.19	0.25	0.28	0.22	0.09	--	--	--	--	--
TOTAL ORGANIC CARBON	mg/L	2.88	3.04	2.88	2.90	3.14	3.62	2.75	3.04	--	--	--	--	--
SATURATION INDEX	--	--	--	--	--	--	--	--	--	0.46	0.45	0.23	0.46	0.09
STATE PROJECT WATER	%	0	0	0	100	100	100	100	10	7	10	100	10	100