

The Metropolitan Water District of Southern California

GENERAL MINERAL AND PHYSICAL ANALYSIS OF METROPOLITAN'S WATER SUPPLIES

TABLE D

February 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	7.8	8.0	8.5	11.3	10.5	8.1	8.2	9.0	9.7	9.6	11.5	9.0	10.2
CALCIUM	mg/L	75	74	73	20	19	24	24	35	31	32	22	36	20
MAGNESIUM	mg/L	25	25	27	10	11	12	12	15	16	16	10	15	13
SODIUM	mg/L	93	91	97	37	54	61	51	57	71	72	47	67	64
POTASSIUM	mg/L	4.5	4.7	4.9	2.4	2.9	9.2	3.2	3.1	3.4	3.3	2.6	3.3	3.0
CARBONATE	mg/L	0	0	0	0	0	0	0	0	0	0	1	0	1
BICARBONATE	mg/L	161	160	149	81	84	100	94	100	92	98	81	98	83
SULFATE	mg/L	238	234	238	38	33	47	50	89	94	103	49	97	45
CHLORIDE	mg/L	90	90	94	51	79	86	67	67	91	89	56	82	89
NITRATE	mg/L	1.6	1.3	0.8	1.9	2.9	0.4	1.1	1.7	2.7	2.6	2.0	2.0	3.8
FLUORIDE	mg/L	0.4	0.3	0.3	0.1	<0.1	0.1	0.1	0.1	0.8	0.8	0.7	0.7	0.8
TOTAL DISSOLVED SOLIDS (TDS)	mg/L	616	608	618	212	254	298	264	327	366	377	242	361	291
TOTAL HARDNESS AS CaCO ₃	mg/L	290	287	281	85	92	103	103	141	134	145	87	145	98
TOTAL ALKALINITY AS CaCO ₃	mg/L	132	131	122	66	69	82	77	82	75	80	68	80	70
FREE CARBON DIOXIDE	mg/L	1.5	1.3	1.6	2.7	0.7	1.5	2.7	1.1	0.7	0.8	0.4	1.0	0.4
pH	pH	8.25	8.31	8.18	7.70	8.29	8.05	7.76	8.17	8.31	8.31	8.50	8.21	8.56
SPECIFIC CONDUCTANCE	µS/cm	982	983	996	378	472	547	469	574	637	654	418	610	531
COLOR	CU	--	--	--	--	--	--	--	--	--	--	--	--	--
TURBIDITY	NTU	0.52	0.29	0.52	0.97	0.63	1.5	0.42	0.52	0.05	0.05	0.04	0.08	0.05
TEMPERATURE	°C	13	15	16	14	14	15	15	15	13	16	17	17	15
BROMIDE	mg/L	0.08	0.08	0.06	0.15	0.26	0.27	0.21	0.15	--	--	--	--	--
TOTAL ORGANIC CARBON	mg/L	2.96	3.06	3.08	3.17	3.53	3.78	2.77	3.16	--	--	--	--	--
SATURATION INDEX	--	--	--	--	--	--	--	--	--	0.15	0.30	0.15	0.22	0.24
STATE PROJECT WATER	%	0	0	0	100	100	100	100	65	72	66	100	67	100