

The Metropolitan Water District of Southern California

GENERAL MINERAL AND PHYSICAL ANALYSIS OF METROPOLITAN'S WATER SUPPLIES

TABLE D

March 2016

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	7.3	7.9	15.1	10.8	9.5	8.3	7.4	7.8	8.2	14.5	6.7	9.9
CALCIUM	mg/L	80	79	77	34	31	31	32	59	78	74	34	67	31
MAGNESIUM	mg/L	25	26	27	11	9	14	15	22	27	25	11	23	10
SODIUM	mg/L	95	96	97	82	80	85	61	82	104	103	96	95	91
POTASSIUM	mg/L	4.8	4.8	4.9	2.8	2.6	3.3	3.8	4.4	4.9	4.8	2.8	4.8	2.8
CARBONATE	mg/L	0	0	0	0	0	0	0	0	0	0	1	0	0
BICARBONATE	mg/L	167	165	161	109	104	117	116	143	149	151	111	142	100
SULFATE	mg/L	248	251	255	85	78	76	72	183	253	252	105	215	84
CHLORIDE	mg/L	94	96	98	95	92	105	79	91	102	102	96	100	94
NITRATE	mg/L	2.0	1.7	1.0	3.8	3.9	0.3	0.2	0.4	1.0	1.2	3.7	0.7	6.2
FLUORIDE	mg/L	0.3	0.3	0.3	0.2	0.2	0.2	0.1	0.3	0.8	0.8	0.7	0.6	0.8
TOTAL DISSOLVED SOLIDS (TDS)	mg/L	640	645	649	383	359	383	329	521	653	646	420	584	380
TOTAL HARDNESS AS CaCO <sub>3</sub>	mg/L	299	300	298	132	110	130	136	234	302	295	132	268	112
TOTAL ALKALINITY AS CaCO <sub>3</sub>	mg/L	137	135	132	89	85	96	95	117	122	124	93	116	82
FREE CARBON DIOXIDE	mg/L	2.0	1.6	2.2	3.1	2.5	2.4	1.3	1.3	1.9	2.0	0.8	1.8	0.9
pH	pH	8.15	8.23	8.08	7.76	7.84	7.91	8.16	8.26	8.11	8.11	8.39	8.11	8.26
SPECIFIC CONDUCTANCE	µS/cm	1040	1030	1050	680	638	688	584	863	1070	1060	724	972	666
COLOR	CU	--	--	--	--	--	--	--	--	--	--	--	--	--
TURBIDITY	NTU	0.60	0.34	0.68	2.3	1.3	2.9	0.77	0.56	0.05	0.04	0.04	0.05	0.06
TEMPERATURE	°C	14	15	15	13	10	14	15	16	15	16	17	19	16
BROMIDE	mg/L	0.08	0.06	0.07	0.34	0.34	0.37	0.24	0.14	--	--	--	--	--
TOTAL ORGANIC CARBON	mg/L	2.96	3.07	2.96	2.72	2.82	3.99	2.88	3.06	--	--	--	--	--
SATURATION INDEX	--	--	--	--	--	--	--	--	--	0.51	0.53	0.41	0.50	0.13
STATE PROJECT WATER	%	0	0	0	100	100	100	100	32	0	3	100	22	100