

The Metropolitan Water District of Southern California

GENERAL MINERAL AND PHYSICAL ANALYSIS OF METROPOLITAN'S WATER SUPPLIES

TABLE D

April 2015

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	7.7	7.4	8.1	15.1	10.1	9.7	9.5	7.6	7.6	7.7	15.0	7.8	9.6
CALCIUM	mg/L	78	75	76	36	29	29	28	76	78	80	36	75	30
MAGNESIUM	mg/L	25	25	25	9	6	13	14	25	26	26	10	25	6
SODIUM	mg/L	88	93	89	76	70	74	59	89	97	98	90	96	77
POTASSIUM	mg/L	4.6	4.7	4.7	2.4	2.0	3.1	3.6	4.6	4.8	4.8	2.5	4.7	2.2
CARBONATE	mg/L	0	0	0	0	0	0	0	0	0	0	0	0	0
BICARBONATE	mg/L	165	161	160	112	94	106	105	160	157	160	109	159	94
SULFATE	mg/L	240	239	238	87	73	67	67	238	252	253	112	237	84
CHLORIDE	mg/L	90	91	91	84	67	94	75	91	98	98	85	102	76
NITRATE	mg/L	1.7	1.6	1.2	4.0	3.9	0.2	0.1	1.3	1.4	1.4	4.2	1.5	4.2
FLUORIDE	mg/L	0.3	0.3	0.3	0.2	0.2	0.1	0.1	0.3	0.9	0.9	0.8	0.8	0.9
TOTAL DISSOLVED SOLIDS (TDS)	mg/L	618	618	613	370	308	343	309	613	644	650	410	629	337
TOTAL HARDNESS AS CaCO <sub>3</sub>	mg/L	298	296	294	132	98	127	128	292	296	300	130	290	102
TOTAL ALKALINITY AS CaCO <sub>3</sub>	mg/L	135	132	131	92	77	87	86	131	129	131	89	130	77
FREE CARBON DIOXIDE	mg/L	1.8	1.5	1.6	4.9	0.8	1.0	1.0	1.6	2.2	2.1	1.2	2.0	0.8
pH	pH	8.18	8.24	8.21	7.58	8.30	8.26	8.25	8.22	8.07	8.10	8.16	8.11	8.29
SPECIFIC CONDUCTANCE	µS/cm	1020	1010	1010	638	545	625	566	1000	1030	1040	692	1000	580
COLOR	CU	3	2	2	4	3	4	3	1	1	1	1	1	1
TURBIDITY	NTU	0.52	0.48	1.0	2.1	1.0	2.1	0.52	0.56	0.05	0.04	0.04	0.05	0.05
TEMPERATURE	°C	18	19	20	14	15	18	17	20	20	21	19	22	18
BROMIDE	mg/L	0.09	0.07	0.09	0.30	0.27	0.33	0.24	0.09	--	--	--	--	--
TOTAL ORGANIC CARBON	mg/L	3.08	3.02	3.30	2.00	1.91	3.68	2.86	3.07	--	--	--	--	--
SATURATION INDEX	--	--	--	--	--	--	--	--	--	0.56	0.62	0.21	0.63	0.22
STATE PROJECT WATER	%	0	0	0	100	100	100	100	0	0	0	100	6	100