

The Metropolitan Water District of Southern California

GENERAL MINERAL AND PHYSICAL ANALYSIS OF METROPOLITAN'S WATER SUPPLIES

TABLE D

May 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	7.2	7.1	7.3	14.7	9.1	9.6	10.0	7.9	7.3	7.4	14.9	7.8	9.0
CALCIUM	mg/L	78	79	78	37	29	30	28	69	76	79	38	70	30
MAGNESIUM	mg/L	25	26	26	9	8	12	13	24	27	26	9	24	8
SODIUM	mg/L	91	91	93	75	70	74	59	86	98	98	98	92	76
POTASSIUM	mg/L	4.7	4.7	4.7	2.4	2.3	3.1	3.5	4.5	4.8	4.8	2.5	4.5	2.3
CARBONATE	mg/L	0	0	0	0	2	0	0	0	0	0	0	0	0
BICARBONATE	mg/L	163	163	161	110	93	107	109	150	156	159	107	151	98
SULFATE	mg/L	244	245	245	89	74	69	67	212	254	253	125	215	82
CHLORIDE	mg/L	91	93	93	85	72	95	75	90	98	98	84	99	78
NITRATE	mg/L	1.6	1.5	1.3	4.3	3.4	0.2	1.2	1.0	1.4	1.5	4.3	1.3	4.1
FLUORIDE	mg/L	0.3	0.3	0.3	0.2	0.2	0.2	0.1	0.3	0.9	0.9	0.8	0.8	0.9
TOTAL DISSOLVED SOLIDS (TDS)	mg/L	624	629	629	372	316	347	311	570	645	648	430	590	339
TOTAL HARDNESS AS CaCO ₃	mg/L	298	298	298	128	106	128	128	266	298	298	130	266	106
TOTAL ALKALINITY AS CaCO ₃	mg/L	134	134	132	90	80	88	89	123	128	130	88	124	80
FREE CARBON DIOXIDE	mg/L	1.8	1.3	1.3	2.2	0.6	1.5	5.1	1.3	2.3	2.1	1.1	2.0	0.8
pH	pH	8.19	8.31	8.30	7.91	8.46	8.08	7.55	8.29	8.06	8.10	8.22	8.11	8.29
SPECIFIC CONDUCTANCE	µS/cm	1020	1030	1020	660	568	640	564	945	1060	1060	716	977	600
COLOR	CU	--	--	--	--	--	--	--	--	--	--	--	--	--
TURBIDITY	NTU	0.45	0.77	1.2	2.1	0.76	1.4	0.67	0.50	0.05	0.04	0.04	0.05	0.05
TEMPERATURE	°C	19	22	20	15	16	19	16	20	20	23	19	23	19
BROMIDE	mg/L	0.08	0.09	0.09	0.31	0.28	0.34	0.24	0.12	--	--	--	--	--
TOTAL ORGANIC CARBON	mg/L	2.99	3.15	3.02	1.73	2.70	3.56	2.48	2.96	--	--	--	--	--
SATURATION INDEX	--	--	--	--	--	--	--	--	--	0.56	0.64	0.26	0.59	0.22
STATE PROJECT WATER	%	0	0	0	100	100	100	100	17	0	0	100	17	100