

The Metropolitan Water District of Southern California

GENERAL MINERAL AND PHYSICAL ANALYSIS OF METROPOLITAN'S WATER SUPPLIES

TABLE D

May 2014

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	7.5	11.2	9.3	8.4	9.2	7.8	7.2	7.5	11.6	7.9	9.4
CALCIUM	mg/L	76	74	72	28	26	27	28	72	75	72	28	70	27
MAGNESIUM	mg/L	25	25	25	12	9	13	14	25	25	25	12	24	9
SODIUM	mg/L	84	86	85	65	70	65	56	83	91	88	71	89	74
POTASSIUM	mg/L	4.3	4.4	4.4	2.8	2.4	3.2	3.4	4.2	4.4	4.4	2.7	4.3	2.5
CARBONATE	mg/L	0	1	1	0	0	0	7	0	0	0	0	0	0
BICARBONATE	mg/L	167	162	160	102	96	112	88	162	156	154	105	156	96
SULFATE	mg/L	218	215	216	51	52	48	64	218	229	223	62	209	62
CHLORIDE	mg/L	81	82	83	84	85	89	72	82	86	87	84	90	87
NITRATE	mg/L	1.4	1.3	1.2	2.8	3.5	0.4	<0.1	1.1	1.2	1.2	2.9	1.2	2.8
FLUORIDE	mg/L	0.3	0.3	0.3	0.1	0.1	0.1	0.1	0.3	0.8	0.9	0.8	0.8	0.8
TOTAL DISSOLVED SOLIDS (TDS)	mg/L	581	577	575	308	305	310	298	574	598	586	328	574	322
TOTAL HARDNESS AS CaCO ₃	mg/L	288	288	286	118	102	118	128	283	286	290	118	276	112
TOTAL ALKALINITY AS CaCO ₃	mg/L	137	135	133	84	79	92	84	133	128	126	86	128	79
FREE CARBON DIOXIDE	mg/L	1.6	1.3	1.2	4.2	2.1	2.1	0.2	1.4	2.1	2.0	0.9	2.2	0.8
pH	pH	8.24	8.34	8.35	7.61	7.88	7.94	8.86	8.30	8.09	8.11	8.30	8.08	8.30
SPECIFIC CONDUCTANCE	µS/cm	948	952	952	562	563	581	542	942	972	961	588	944	584
COLOR	CU	--	--	--	--	--	--	--	--	--	--	--	--	--
TURBIDITY	NTU	0.32	0.58	0.85	1.5	0.68	0.73	1.7	0.31	0.04	0.04	0.04	0.05	0.05
TEMPERATURE	°C	19	22	21	14	15	21	18	21	21	23	19	24	20
BROMIDE	mg/L	0.07	0.06	0.06	0.27	0.30	0.28	0.21	0.07	--	--	--	--	--
TOTAL ORGANIC CARBON	mg/L	2.95	2.90	3.15	2.42	2.16	4.36	3.04	2.98	--	--	--	--	--
SATURATION INDEX	--	--	--	--	--	--	--	--	--	0.59	0.64	0.25	0.61	0.22
STATE PROJECT WATER	%	0	0	0	100	100	100	95	3	0	0	100	8	100