

The Metropolitan Water District of Southern California

GENERAL MINERAL AND PHYSICAL ANALYSIS OF METROPOLITAN'S WATER SUPPLIES

TABLE D

July 2013

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	9.3	7.8	8.4	13.7	11.6	11.0	11.9	8.5	7.8	7.8	12.7	8.7	11.4		
CALCIUM	mg/L	70	69	68	24	25	25	27	61	62	64	24	58	25		
MAGNESIUM	mg/L	25	24	25	13	12	13	13	23	24	24	12	22	12		
SODIUM	mg/L	80	80	83	56	58	57	53	79	86	87	60	85	63		
POTASSIUM	mg/L	4.2	4.2	4.4	2.8	2.7	3.0	3.2	4.1	4.2	4.2	2.7	4.0	2.7		
CARBONATE	mg/L	0	0	0	0	4	0	0	0	0	0	0	1	0		
BICARBONATE	mg/L	166	162	156	100	100	107	101	150	133	132	105	140	96		
SULFATE	mg/L	214	213	220	43	50	46	59	187	208	214	47	186	62		
CHLORIDE	mg/L	76	78	80	76	73	78	69	78	84	84	78	86	77		
NITRATE	mg/L	1.2	1.0	0.9	2.7	1.3	0.4	1.6	0.4	1.0	1.0	2.8	0.7	1.7		
FLUORIDE	mg/L	0.3	0.3	0.3	0.1	0.1	0.1	0.1	0.3	0.8	0.8	0.8	0.8	0.8		
TOTAL DISSOLVED SOLIDS (TDS)	mg/L	563	558	568	281	288	287	288	516	544	553	292	522	304		
TOTAL HARDNESS AS CaCO ₃	mg/L	278	276	276	116	116	120	124	252	256	261	114	242	112		
TOTAL ALKALINITY AS CaCO ₃	mg/L	136	133	128	82	88	88	83	123	109	108	86	117	79		
FREE CARBON DIOXIDE	mg/L	1.6	1.1	1.5	3.5	0.5	3.6	4.3	1.1	2.0	1.7	0.9	0.9	1.0		
pH	pH	8.25	8.40	8.24	7.68	8.57	7.70	7.59	8.37	8.05	8.10	8.30	8.43	8.20		
SPECIFIC CONDUCTANCE	µS/cm	895	896	915	516	521	530	524	841	901	907	540	875	550		
COLOR	CU	4	2	2	7	7	7	5	3	1	1	1	1	1		
TURBIDITY	NTU	0.46	0.42	0.56	0.66	0.88	0.65	0.39	0.63	0.05	0.04	0.04	0.06	0.09		
TEMPERATURE	°C	24	30	25	15	23	23	17	22	24	27	23	29	25		
BROMIDE	mg/L	0.07	0.04	0.05	0.24	0.23	0.25	0.20	0.08	--	--	--	--	--		
TOTAL ORGANIC CARBON	mg/L	2.94	3.00	2.98	2.34	3.36	3.49	2.22	3.22	0.50	0.58	0.30	0.94	0.20		
SATURATION INDEX	--	--	--	--	--	--	--	--	--	0.50	0.58	0.30	0.94	0.20		
STATE PROJECT WATER	%	0	0	0	100	100	100	97	19	16	18	100	20	100		