

The Metropolitan Water District of Southern California

GENERAL MINERAL AND PHYSICAL ANALYSIS OF METROPOLITAN'S WATER SUPPLIES

TABLE D

September 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	9.4	8.7	8.2	13.4	12.7	13.3	10.9	7.1	8.4	8.4	13.2	7.8	11.7
CALCIUM	mg/L	69	68	65	26	20	21	27	60	59	61	26	55	20
MAGNESIUM	mg/L	24	24	25	13	11	11	13	22	23	23	12	22	11
SODIUM	mg/L	78	81	84	56	52	52	54	77	85	86	61	87	63
POTASSIUM	mg/L	4.5	4.3	4.3	2.8	2.5	2.6	3.2	4.1	4.3	4.2	2.7	4.1	2.7
CARBONATE	mg/L	0	0	0	0	6	4	0	0	0	0	0	0	0
BICARBONATE	mg/L	166	159	151	105	85	90	98	150	128	133	110	134	79
SULFATE	mg/L	206	207	213	50	34	34	59	181	201	207	54	186	54
CHLORIDE	mg/L	76	76	79	75	68	67	67	76	86	84	76	86	81
NITRATE	mg/L	1.3	0.8	0.4	3.0	0.4	0.7	1.9	0.3	0.5	0.4	3.0	0.4	1.1
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	551	550	555	292	249	251	285	503	532	541	304	516	285
TOTAL HARDNESS AS CaCO ₃	mg/L	278	274	271	120	99	98	126	248	246	248	116	233	96
TOTAL ALKALINITY AS CaCO ₃	mg/L	136	130	124	86	80	80	80	123	105	109	90	110	65
FREE CARBON DIOXIDE	mg/L	4.2	1.1	1.2	3.5	0.2	0.3	6.9	0.9	1.8	1.8	1.1	1.0	0.7
pH	pH	7.82	8.38	8.32	7.70	8.88	8.67	7.37	8.42	8.07	8.10	8.21	8.37	8.29
SPECIFIC CONDUCTANCE	µS/cm	913	910	912	520	463	459	527	847	875	865	542	844	514
COLOR	CU	--	--	--	--	--	--	--	--	--	--	--	--	--
TURBIDITY	NTU	0.48	0.25	0.44	0.73	1.1	0.68	0.32	0.50	0.05	0.04	0.04	0.06	0.08
TEMPERATURE	°C	25	28	27	20	24	24	15	25	27	28	25	28	25
BROMIDE	mg/L	0.06	0.04	0.05	0.22	0.21	0.21	0.20	0.07	--	--	--	--	--
TOTAL ORGANIC CARBON	mg/L	3.16	3.12	2.87	2.68	3.04	3.01	2.18	3.08	--	--	--	--	--
SATURATION INDEX	--	--	--	--	--	--	--	--	--	0.50	0.57	0.25	0.81	0.09
STATE PROJECT WATER	%	0	0	0	100	100	100	89	13	15	18	100	21	100