

The Metropolitan Water District of Southern California

GENERAL MINERAL AND PHYSICAL ANALYSIS OF METROPOLITAN'S WATER SUPPLIES

TABLE D

March 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	8.4	8.4	8.4	13.1	12.5	13.3	10.3	10.2	9.4	12.0	10.2	9.4	10.2	12.1	
CALCIUM	mg/L	73	72	66	22	28	24	27	34	53	22	34	53	40	27	
MAGNESIUM	mg/L	24	25	25	12	12	12	13	15	20	12	15	20	16	12	
SODIUM	mg/L	78	83	86	53	59	55	53	58	80	57	58	80	70	64	
POTASSIUM	mg/L	4.2	4.3	4.4	2.7	2.9	2.9	3.1	3.3	3.9	2.6	3.3	3.9	3.5	2.9	
CARBONATE	mg/L	1	0	0	0	0	0	0	0	0	0	0	0	0	2	
BICARBONATE	mg/L	159	156	151	96	102	95	96	109	126	98	109	128	112	100	
SULFATE	mg/L	221	223	219	40	53	45	61	88	168	44	88	169	120	57	
CHLORIDE	mg/L	77	79	85	75	77	78	69	72	88	76	72	87	82	82	
NITRATE	mg/L	1.5	1.3	0.7	1.8	4.7	1.0	1.2	0.8	2.2	2.0	0.8	2.1	0.9	5.4	
FLUORIDE	mg/L	0.3	0.3	0.3	0.1	0.1	0.1	0.1	0.2	0.9	0.8	0.2	0.9	0.9	0.8	
TOTAL DISSOLVED SOLIDS (TDS)	mg/L	568	574	570	268	300	279	286	336	488	277	336	489	399	315	
TOTAL HARDNESS AS CaCO ₃	mg/L	278	280	272	110	120	112	122	144	222	108	144	220	168	120	
TOTAL ALKALINITY AS CaCO ₃	mg/L	132	128	124	79	84	78	79	89	103	80	89	105	92	86	
FREE CARBON DIOXIDE	mg/L	1.2	2.2	2.3	1.6	1.2	3.2	2.3	1.0	1.8	0.7	1.0	1.7	1.1	0.6	
pH	pH	8.36	8.07	8.03	8.01	8.17	7.70	7.85	8.25	8.07	8.38	8.25	8.11	8.23	8.48	
SPECIFIC CONDUCTANCE	µS/cm	928	925	928	513	542	514	515	602	854	528	602	856	720	593	
COLOR	CU	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
TURBIDITY	NTU	0.69	0.59	0.64	0.67	0.72	1.90	1.90	0.41	0.05	0.04	0.41	0.04	0.06	0.05	
TEMPERATURE	°C	12	14	15	12	11	12	15	14	14	16	14	17	18	15	
BROMIDE	mg/L	0.06	0.04	0.07	0.23	0.22	0.25	0.19	0.18	--	--	0.18	--	--	--	
TOTAL ORGANIC CARBON	mg/L	3.26	2.92	2.82	2.44	3.70	3.40	2.27	2.71	--	--	2.71	--	--	--	
SATURATION INDEX	--	--	--	--	--	--	--	--	--	0.26	0.18	--	--	0.34	0.37	
STATE PROJECT WATER	%	0	0	0	100	100	100	92	78	38	100	78	34	64	100	