

The Metropolitan Water District of Southern California

GENERAL MINERAL AND PHYSICAL ANALYSIS OF METROPOLITAN'S WATER SUPPLIES

TABLE D

April 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	7.8	7.9	8.4	9.8	12.0	12.7	10.2	8.7	8.7	8.7	8.7	8.7	9.9	6.9	10.9	
CALCIUM	mg/L	72	72	69	23	28	24	26	54	56	59	56	56	22	56	28	
MAGNESIUM	mg/L	24	24	25	12	12	12	13	20	21	22	21	22	12	20	12	
SODIUM	mg/L	82	81	84	53	58	55	53	71	79	82	79	82	57	78	63	
POTASSIUM	mg/L	4.3	4.4	4.4	2.7	2.8	2.9	3.2	3.8	4.0	4.0	4.0	4.0	2.6	3.9	2.8	
CARBONATE	mg/L	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
BICARBONATE	mg/L	163	163	160	96	110	100	98	137	132	129	132	129	100	133	107	
SULFATE	mg/L	223	223	223	41	56	46	62	162	170	178	170	178	44	166	63	
CHLORIDE	mg/L	78	79	83	74	75	78	69	76	84	84	84	84	75	83	76	
NITRATE	mg/L	1.7	1.6	1.0	2.0	4.4	1.0	0.9	0.8	2.1	1.9	2.1	1.9	2.1	1.0	4.8	
FLUORIDE	mg/L	0.3	0.3	0.3	0.1	0.1	0.1	0.1	0.2	0.9	0.9	0.9	0.9	0.8	0.9	0.8	
TOTAL DISSOLVED SOLIDS (TDS)	mg/L	575	575	578	266	303	282	286	465	492	505	492	505	275	482	315	
TOTAL HARDNESS AS CaCO ₃	mg/L	284	282	276	108	120	112	122	222	230	240	230	240	106	227	122	
TOTAL ALKALINITY AS CaCO ₃	mg/L	134	134	131	79	90	82	80	112	108	106	108	106	82	109	88	
FREE CARBON DIOXIDE	mg/L	1.4	1.4	1.6	1.8	0.9	3.6	3.1	2.2	1.8	1.7	1.8	1.7	0.7	1.5	0.8	
pH	pH	8.30	8.30	8.23	7.95	8.30	7.66	7.72	8.02	8.08	8.09	8.08	8.09	8.37	8.18	8.35	
SPECIFIC CONDUCTANCE	µS/cm	940	954	961	502	562	534	539	811	852	870	852	870	517	832	571	
COLOR	CU	5	4	4	7	12	7	5	4	1	1	1	1	1	2	2	
TURBIDITY	NTU	0.31	0.17	0.45	0.71	0.65	0.85	0.32	0.33	0.05	0.04	0.05	0.04	0.04	0.07	0.05	
TEMPERATURE	°C	16	19	18	12	13	13	15	18	16	19	16	19	17	20	18	
BROMIDE	mg/L	0.07	0.04	0.06	0.24	0.23	0.25	0.19	0.10	--	--	--	--	--	--	--	
TOTAL ORGANIC CARBON	mg/L	2.77	2.82	2.85	2.37	3.60	3.40	2.41	2.94	--	--	--	--	--	--	--	
SATURATION INDEX	--	--	--	--	--	--	--	--	--	0.35	0.43	0.35	0.43	0.21	0.51	0.31	
STATE PROJECT WATER	%	0	0	0	100	100	100	98	45	33	32	33	32	100	36	100	