The Metropolitan Water District of Southern California

GENERAL MINERAL AND PHYSICAL ANALYSIS OF METROPOLITAN'S WATER SUPPLIES

TABLE D

September 2012

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	8.6	8.7	7.0	13.0	11.1	13.0	10.4	8.6	7.4	7.9	12.8	9.2	10.2
CALCIUM	mg/L	71	68	65	25	16	23	29	42	56	48	25	40	15
MAGNESIUM	mg/L	24	24	25	11	10	12	13	17	22	20	11	16	10
SODIUM	mg/L	81	82	85	44	39	49	51	62	83	75	50	67	48
POTASSIUM	mg/L	4.2	4.2	4.3	2.4	2.2	2.8	3.0	3.5	4.1	3.7	2.4	3.6	2.3
CARBONATE	mg/L	0	0	2	0	0	0	0	2	0	0	0	1	1
BICARBONATE	mg/L	161	155	142	98	79	101	101	116	127	118	102	116	78
SULFATE	mg/L	211	217	223	49	19	37	64	117	185	159	52	112	24
CHLORIDE	mg/L	75	78	82	57	56	67	64	70	84	81	59	78	68
NITRATE	mg/L	1.1	0.8	0.5	2.4	0.7	0.1	1.6	<0.1	0.7	0.7	2.4	0.4	1.9
FLUORIDE	mg/L	0.3	0.3	0.3	0.1	0.1	0.1	0.1	0.2	0.8	0.9	0.8	0.8	0.8
TOTAL DISSOLVED SOLIDS (TDS)	mg/L	557	560	565	253	194	254	287	380	506	455	266	386	220
TOTAL HARDNESS AS $CaCO_3$	mg/L	276	271	264	110	78	104	124	173	233	207	110	170	80
TOTAL ALKALINITY AS $CaCO_3$	mg/L	132	127	120	80	65	83	83	99	104	97	84	97	66
FREE CARBON DIOXIDE	mg/L	3.6	1.3	0.9	4.8	1.4	1.8	4.0	0.5	1.8	1.6	1.0	0.8	0.5
pH	pH	7.87	8.30	8.42	7.53	7.98	7.96	7.62	8.62	8.07	8.09	8.25	8.39	8.40
SPECIFIC CONDUCTANCE	µS/cm	899	909	906	459	342	458	513	651	851	787	487	688	384
COLOR	CU	--	--	--	--	--	--	--	--	--	--	--	--	--
TURBIDITY	NTU	0.55	0.48	0.73	0.41	1.1	1.4	0.41	0.88	0.05	0.03	0.04	0.06	0.05
TEMPERATURE	°C	25	29	27	18	24	27	18	24	25	21	24	27	27
BROMIDE	mg/L	0.07	0.04	0.06	0.18	0.16	0.22	0.19	0.14	--	--	--	--	--
TOTAL ORGANIC CARBON	mg/L	3.08	3.08	3.14	2.38	2.70	3.52	2.45	3.13	--	--	--	--	--
SATURATION INDEX	--	--	--	--	--	--	--	--	--	0.45	0.33	0.24	0.66	0.17
STATE PROJECT WATER	%	0	0	0	100	100	100	79	54	21	39	100	56	100