The Metropolitan Water District of Southern California

GENERAL MINERAL AND PHYSICAL ANALYSIS OF METROPOLITAN'S WATER SUPPLIES

TABLE D

July 2023

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	7.1	7.2	8.4	16.9	9.8	4.1	7.2	4.6	8.7	8.8	16.8	6.1	6.4
CALCIUM	mg/L	81	78	73	39	10	28	24	49	46	44	40	43	20
MAGNESIUM	mg/L	28	27	27	11	4	13	11	18	17	16	11	16	9
SODIUM	mg/L	108	108	101	56	12	59	48	72	73	70	62	72	46
POTASSIUM	mg/L	5.2	5.3	4.9	2.5	1.6	3.5	3.4	3.9	3.6	3.5	2.4	3.7	2.7
ALKALINITY, CARBONATE AS CO_3	mg/L	0	4	0	0	0	0	0	0	0	0	0	1	5
ALKALINITY, BICARBONATE AS HCO_3	mg/L	168	156	161	112	44	123	98	127	115	110	117	111	72
SULFATE	mg/L	236	236	216	88	10	41	42	134	137	128	94	122	35
CHLORIDE	mg/L	107	108	100	50	12	74	60	75	68	66	54	71	49
NITRATE	mg/L	1.8	1.4	1.1	4.7	0.6	0.8	0.7	0.2	1.0	1.1	4.7	1.0	1.0
FLUORIDE	mg/L	0.3	0.3	0.3	0.3	<0.1	0.1	0.1	0.2	0.6	0.7	0.6	0.7	0.7
TOTAL DISSOLVED SOLIDS (TDS)	mg/L	658	653	612	324	82	285	245	420	412	393	344	392	210
TOTAL HARDNESS AS $CaCO_3$	mg/L	309	303	287	146	37	120	105	195	187	176	145	173	84
TOTAL ALKALINITY AS $CaCO_3$	mg/L	138	134	132	92	36	101	80	104	94	90	96	93	67
FREE CARBON DIOXIDE	mg/L	2.1	1.0	3.7	4.3	1.3	3.6	2.0	1.9	0.9	0.9	1.1	1.2	0.3
pH	pH	8.12	8.42	7.86	7.64	7.76	7.76	7.92	8.04	8.32	8.31	8.23	8.20	8.71
SPECIFIC CONDUCTANCE	µS/cm	1060	1050	987	553	134	522	442	712	704	670	583	681	386
COLOR	CU	3	2	3	5	15	5	5	5	1	1	1	1	1
TURBIDITY	NTU	0.88	0.18	1.5	1.4	3.6	0.84	0.63	0.93	0.05	0.03	0.04	0.07	0.05
TEMPERATURE	°C	24	26	17	12	23	18	17	24	21	22	19	28	27
BROMIDE	mg/L	0.09	0.08	0.08	0.18	0.03	0.24	0.18	0.10	--	--	--	--	--
TOTAL ORGANIC CARBON	mg/L	3.01	3.02	2.81	3.04	3.38	4.44	3.14	3.48	--	--	--	--	--
SATURATION INDEX	--	--	--	--	--	--	--	--	--	0.54	0.50	0.37	0.47	0.56
STATE PROJECT WATER	%	0	0	0	100	100	100	100	43	46	51	100	51	100