CITY OF CAPE TOWN 2022/2023 ANNUAL DRINKING WATER QUALITY REPORT. ANALYTICAL DATA AND APPROXIMATE DISTRIBUTION FOR CAPE TOWN DRINKING WATER. Sample period: 1 July 2022 to 30 June 2023

When our residents open their taps, they can trust their water is reliable, tested, treated and safe to drink. The City of Cape Town is legally required to publish tap water quality analytical data once a year, to demonstrate continued compliance with water quality standards, or inform residents of possible risks. City of Cape Town tap water has for many years maintained 'excellent' compliance status with prescribed national drinking water quality standards (SANS 241). The annual tap water quality reports from 2014 are available on the City's website (www.capetown.gov.za/waterquality). Regular monthly updates are also available on the National Department of Water and Sanitation's 'My Water' page for water quality (http://ws.dwa.gov.za/IRIS/mywater.aspx). This 'excellent' quality City water costs only 5c to 8c a litre compared to about R10 a litre for shop-bought bottled water. See the water quality results below provided across Cape Town for the July 2022 to June 2023 period.

PARAMETERS	SANS 241:2015 Specifications	BLACKHEATH SUPPLY Typical Analysis MAX 430 Mℓ/day	FAURE SUPPLY Typical Analysis MAX 500 Mℓ/day	KLOOF NEK SUPPLY Typical Analysis MAX 22.5 Mℓ/day	STEENBRAS SUPPLY Typical Analysis MAX 150 Mℓ/day	VOËLVLEI SUPPLY Typical Analysis MAX 273 Mℓ/day	WEMMERSHOEK SUPPLY Typical Analysis MAX 250 Mℓ/day	BROOKLANDS SUPPLY Typical Analysis MAX 5.5 Mℓ/day	HELDERBERG SUPPLY Typical Analysis MAX 12 Mℓ/day	WITZANDS SUPPLY Typical Analysis MAX 15 Mℓ/day	CONSTANTIA NEK SUPPLY Typical Analysis MAX 3 Mℓ/day	ALBION SPRINGS SUPPLY Typical Analysis MAX 2 Mℓ/day
PHYSICAL & AESTHETIC DETERMINANDS												
Colour mg/ℓ Pt-Co	≤15	5	6	6	5	6	6	6	5	6	7	5
Conductivity mS/m	≤170	10	13	16	12	14	6	52	15	22	20	21
Total Dissolved Solids mg/ℓ	≤1200	66	87	104	80	91	43	351	104	146	134	142
Turbidity NTU	Operational ≤1 / Aesthetic ≤5	0.6	0.6	0.6	0.6	0.7	0.7	0.6	0.7	0.7	0.7	1
pH	≥5 to ≤9.7	8.0	8.5	8.3	7.8	8.2	7.9	7.8	9.1	7.7	7.8	7
CHEMICAL - MACRO DETERMINANDS												
Free Chlorine as Cl_2 mg/ℓ	≤5	1.0	0.6	0.9	1.0	1.0	1.3	1.0	1.0	0.5	1.0	1.2
Nitrate as N mg/ℓ	≤11	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	1.8
Nitrite as N mg/ℓ	≤0.9	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Combined nitrate plus nitrite	≤1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2
Sulphate as SO_4^{2-} mg/ℓ	Aesthetic ≤250 / Acute health ≤500	12	25	37	19	14	6	99	4	18	50	10.1
Fluoride as F^- mg/ℓ	≤1.5	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Ammonia as N mg/ℓ	≤1.5	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4
Chloride as Cl^- mg/ℓ	≤300	15	16	16	19	21	10	89	27	33	22	47.0
Sodium as Na mg/ℓ	≤200	8	7	14	12	10	5	48	13	19	14	22.1
Zinc as Zn mg/ℓ	≤5	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
CHEMICAL - MICRO DETERMINANDS												
Antimony as Sb µg/ℓ	≤20	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Arsenic as As µg/ℓ	≤10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Barium as Ba µg/ℓ	≤700	<50	<50	<50	<50	<50	<50	<50	52	<50	<50	<50
Boron as B mg/ℓ	≤2.4	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Cadmium as Cd µg/ℓ	≤3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3
Chromium (Total) as Cr µg/ℓ	≤50	<5	<5	<5	<5	<5	<5	6	<5	<5	<5	<5
Copper as Cu µg/ℓ	≤2000	14	11	11	12	24	14	13	11	13	10	13
Cyanide as CN^- µg/ℓ	≤200	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Iron as Fe µg/ℓ	Chronic Health ≤2000 / Aesthetic ≤300	82	66	57	76	84	99	78	86	99	<50	68
Lead as Pb µg/ℓ	≤10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Manganese as Mn µg/ℓ	Chronic Health ≤400 / Aesthetic ≤100	7	5	7	12	5	14	8	5	13	8	7
Nickel as Ni µg/ℓ	≤70	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Selenium as Se µg/ℓ	≤40	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Aluminium as Al µg/ℓ	≤300	110	75	213	86	64	146	78	57	59	51	<50
CHEMICAL - ORGANIC DETERMINANDS												
Total Organic Carbon mg/ℓ	≤10	2	2	2	2	3	2	5	3	3	2	1
Phenols µg/ℓ	≤10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Trihalomethanes												
Chloroform µg/L	≤300	44	24	74	54	58	44	66	32	62	-	-
Bromoform µg/L	≤100	<10	<10	<10	<10	<10	<10	<10	<10	<10	-	-
Dibromochloromethane µg/L	≤100	<10	<10	<10	<10	<10	<10	<10	<10	<10	-	-
Bromodichloromethane µg/L	≤60	<10	<10	<10	<10	<10	<10	<10	<10	<10	-	-
Combined Trihalomethane	≤1	0.51	0.45	0.61	0.55	0.56	0.51	0.59	0.47	0.57	-	-
MICROBIOLOGICAL DETERMINANDS												
E coli count/100mℓ	Not Detected	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Heterotrophic Plate Count Count/mℓ	≤1000	4	4	4	14	58	9	9	36	2	3	88
Total coliforms Count/100mℓ	≤10	1	2	1	1	2	2	3	2	1	1	23
OTHER												
Hardness(Total) as $CaCO_3$ mg/ℓ	-	31	38	44	24	37	15	138	40	60	39	34
Alkalinity as $CaCO_3$ mg/ℓ	-	11	11	9	7	18	9	13	29	35	7	14
Calcium as Ca mg/ℓ	-	10	13	15	8	11	5	45	12	19	14	6
Potassium as K mg/ℓ	-	0.9	0.9	0.6	0.9	1.2	0.6	1.6	1.5	1.7	0.2	2
Magnesium as Mg mg/ℓ	-	1.2	1.2	0.8	1.0	2.1	0.5	5.5	2.1	2.9	1.9	5

KEY: ND = Not detected
- = No specification or no data

The water treatment plants supply water into an interconnected system of reservoirs and pipelines serving the municipal area.

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CITY MANAGER
CTA128/2023

CITY OF CAPE TOWN
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Making progress possible. Together.