CITY OF CAPE TOWN 2020/ 2021 ANNUAL DRINKING WATER QUALITY REPORT. ANALYTICAL DATA AND APPROXIMATE DISTRIBUTION FOR CAPE TOWN DRINKING WATER. Sample period: July 2020 to June 2021

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 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 (SANS241). The annual tap water quality reports from 2014 are available on the City's website, see www.capetown.gov.za/waterquality. Regular monthly updates are also available on 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 4c -7c 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 2020 to June 2021 period.

PARAMETERS	SANS 241 : 2015 Specs	BLACKHEATH SUPPLY Typical Analysis MAX 430 Mt/day	FAURE SUPPLY Typical Analysis MAX 500 Mt/day	KLOOF NEK SUPPLY Typical Analysis MAX 22.5 Ml/day	STEENBRAS SUPPLY Typical Analysis MAX 150 M&/day	VOËLVLEI SUPPLY Typical Analysis MAX 273 Ml/day	WEMMERSHOEK SUPPLY Typical Analysis MAX 250 Mt/day	BROOKLANDS SUPPLY Typical Analysis MAX 5.5 Ml/day	HELDERBERG SUPPLY Typical Analysis MAX 12 M&/day	WITZANDS SUPPLY Typical Analysis MAX 15 M&/day	CONSTANTIA NEK SUPPLY Typical Analysis MAX 3 Mt/day	ALBION SPRINGS SUPPLY Typical Analysis MAX 1.999 M&/day	MONWABISI DESALINATION SUPPLY Typical Analysis MAX 7 Mℓ/day
PHYSICAL & AESTHETIC DETERMINAN	DS												in der me, day
Colour mg/l Pt-Co	≤15	5	6	6	5	6	7	12	6	7	6	<5	5
Conductivity mS/m	≤170	12	17	21	14	14	7	76	18	31	19	20	73
Total Dissolved Solids mg/ℓ	≤1200	79	113	140	92	92	48	509	122	206	124	131	486
Turbidity NTU	Operational ≤1 / Aesthetic ≤5	0.6	0.6	0.7	0.6	0.7	0.7	0.6	0.6	0.7	0.6	1	0.6
pH (pH units)	≥5 to ≤9.7	8.7	8.2	8.6	7.6	7.7	8.2	8.5	8.4	7.6	7.5	7	8.6
CHEMICAL - MACRO DETERMINANDS	25 to 27.7	0.7	0.2	0.0	7.0	7.7	0.2	0.5	0.4	7.0	7.5	,	0.0
Free Chlorine as Cl2 mg/ ℓ	≤5	1.3	1.1	0.9	1.2	1.2	1.4	1.1	0.8	1.0	1.0	0.1	0.7
	≤3 ≤11	0.2	0.2	0.7	0.2	0.3	0.3	0.2	0.4	0.3	0.2	1.4	0.7
Nitrate as N mg/ℓ										<0.1			
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	<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	0.2	0.1
Sulphate as SO ₄₂ - mg/ℓ	Aesthetic ≤250 / Acute health ≤500	12	32	33	18	12	4	186	6	23	34	11.5	3
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	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	<0.4
Chloride as Cl ⁻ mg/l	≤300	16	21	25	25	24	11	108	35	47	28	40.7	200
Sodium as Na mg/l	≤200	6.6	10.1	16.9	13.6	10.9	3.2	57.2	16.7	20.6	-	16.7	144
Zinc as Zn mg/ℓ	≤5	0.03	0.02	-	0.02	0.01	0.02	-	0.02	0.02	-	0.04	-
CHEMICAL - MICRO DETERMINANDS		_	_										
Antimony as Sb μg/ℓ	≤20	20	20	20	20	20	20	20	20	20	-	20	20
Arsenic as As μg/ℓ	≤10	10	10	10	10	10	10	10	10	10	-	10	10
Barium as Ba μg/ℓ	≤700	20	20	20	20	20	20	20	20	20	-	20	20
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	1
Cadmium as Cd μg/ℓ	≤3	1	1	1	1	1	1	1	1	1	-	1	1
Chromium (Total) as Cr µg/ℓ	≤50	20	20	20	20	20	20	20	20	20	=	20	20
Copper as Cu µg/ℓ	≤2000	20	20	20	38.6	32.1	20	20	20	20	-	20	20
Cyanide as CN ⁻ μg/ℓ	≤200	20	2	1	11	11	13	11	13	12	12	<10	21
Iron as Fe μg/ℓ	Chronic Health ≤2000 / Aesthetic ≤300	226.5	78	23.7	46.9	130.9	150	53	71.5	103.2	-	84.8	69.2
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	20	20	20	20	20	20	20	20	20	_	20	20
Mercury as Hg µg/ℓ	≤6	5	5	5	5	5	5	5	5	5	_	5	5
Nickel as Ni μg/ℓ	≤70	20	20	20	20	20	20	20	20	20	-	20	20
Selenium as Se µg/ℓ	≤70 ≤40	10	10	10	10	10	10	10	10	10	-	10	10
Uranium as U µg/ℓ	≤30	15	15	15	15	15	15	15	15	15	-	15	15
	≤300	143.9	61.5	109	108.1	42.2	158	50	54.2	50.8	_	75.9	40
Aluminium as Al μg/ℓ CHEMICAL - ORGANIC DETERMINAND		143.9	01.5	109	106.1	42.2	130] 50	54.2	50.8	-	/5.9	40
			2	2	2		1	T .	2		2	1	
Total Organic Carbon mg/l	≤10	2	Z			2	1	4		3	2	1	2
Trihalomethanes	000		0.7			07		10				101	
Chloroform μg/ℓ	≤300	65	37	-	58	87	87	62	50	86	-	104	1
Bromoform µg/ℓ	≤100	1	1	-	1	1	1	1	9	2	-	5	13
Dibromochloromethane μg/ℓ	≤100	5	2	-	8	7	3	7	55	23	-	40	1
Bromodichloromethane μg/ℓ	≤60	20	7	-	32	23	13	23	42	51	-	58	1
Combined Trihalomethane	≤1	0.6	0.3	-	0.8	0.8	0.4	0.7	1.5	1.7	-	2	0.2
Phenols µg/ℓ	≤10	<10	<10	<10	<10	<10	<10	-	<10	<10	<10	-	-
MICROBIOLOGICAL DETERMINANDS									1				
E coli count/100ml	Not Detected	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Heterotrophic Plate Count Count/mℓ	≤1000	9	3	2	4	26	4	4	14	25	21	298	19
Total coliforms Count/100ml	≤10	1	1	1	1	1	1	2	3	1	1	26	12
Protozoan parasites													
Cryptosporidium Species Count/10ℓ	Not Detected	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-
Giardia Species Count/10ℓ	Not Detected	ND	ND	ND	ND	ND	ND	-	ND	ND	ND	-	-
OTHER							-						
Hardness(Total) as CaCO3 mg/ℓ	_	29.6	43.7	50.3	22.8	29.1	12.1	212.3	63.5	58.8	-	29.3	107.7
Alkalinity as CaCO3 mg/ ℓ	_	18	12	26	7	16	16	22	28	50	8	12	16
Calcium as Ca mg/ℓ	-	10.2	15.7	18.5	7.5	8.7	8.1	76.1	9.6	19.6	-	9.1	2.5
Potassium as K mg/ℓ		10.2	1.1	10.5	7.5 1	1	1	1.6	1.4	1.3	-	1.2	6.3
Li Otassiaini as ix my/t	-	<u> </u>	1.1	1	1.8	1.8	1	5.4	2.3	2.4	-	1.6	1.1

KEY: ND = Not Detected. The water treatment plants supply water into an interconnected system of reservoirs and pipelines serving the municipal area.

