

Health Determinands

Determinand	Risk	Unit	Minimum	Average	Maximum	SANS 241:2015 Limits
<i>E. coli</i> or faecal coliforms	Acute health	Count per 100 mL	0	0 [#]	0	Not detected
<i>Cryptosporidium</i>	Acute health	Count per 10 L	0	0 [#]	0	Not detected
<i>Giardia</i>	Acute health	Count per 10 L	0	0 [#]	0	Not detected
Nitrite as N	Acute health	mg/L	<0.10	<0.10	<0.10	≤ 0.9
Nitrate as N	Acute health	mg/L	1.06	1.06	1.06	≤ 11
Combined Nitrate plus Nitrite ratio	Acute health		0.21	0.21	0.21	≤ 1
Sulfate as SO ₄ ²⁻	Acute health	mg/L	7.73	7.73	7.73	≤ 500
Cyanide (recoverable) as CN ⁻	Acute health	µg/L	<25.00	<25.00	<25.00	≤ 200
Free Chlorine	Chronic health	mg/L	0.80	1.07	1.25	≤ 5
Fluoride as F ⁻	Chronic health	µg/L	<100.00	<100.00	<100.00	≤ 1500
Antimony as Sb	Chronic health	µg/L	<2.00	<2.00	<2.00	≤ 20
Arsenic as As	Chronic health	µg/L	<2.00	<2.00	<2.00	≤ 10
Barium as Ba	Chronic health	µg/L	55.30	55.30	55.30	≤ 700
Boron as B	Chronic health	µg/L	<25.00	<25.00	<25.00	≤ 2400
Cadmium as Cd	Chronic health	µg/L	<1.00	<1.00	<1.00	≤ 3
Total chromium as Cr	Chronic health	µg/L	<5.00	<5.00	<5.00	≤ 50
Copper as Cu	Chronic health	mg/L	<0.05	<0.05	<0.05	≤ 2
Iron as Fe	Chronic health	mg/L	<0.02	<0.02	<0.02	≤ 2
Lead as Pb	Chronic health	µg/L	<4.00	<4.00	<4.00	≤ 10
Manganese as Mn	Chronic health	mg/L	<0.01	<0.01	<0.01	≤ 0.4
Mercury as Hg	Chronic health	µg/L	<0.50	<0.50	<0.50	≤ 6
Nickel as Ni	Chronic health	µg/L	<10.00	<10.00	<10.00	≤ 70
Selenium as Se	Chronic health	µg/L	<2.00	<2.00	<2.00	≤ 40
Uranium as U	Chronic health	µg/L	<1.00	<1.00	<1.00	≤ 30
Total organic carbon as C	Chronic health	mg/L	1.90	3.80	5.10	≤ 10
Chloroform	Chronic health	µg/L	<10.00	N/A	50.00	≤ 300
Bromoform	Chronic health	µg/L	<10.00	<10.00	<10.00	≤ 100
Dibromochloromethane	Chronic health	µg/L	<10.00	N/A	11.20	≤ 100
Bromodichloromethane	Chronic health	µg/L	<10.00	N/A	27.00	≤ 60
Combined trihalomethane ratio	Chronic health		<0.40	N/A	0.83	≤ 1

Aesthetic Determinands

Determinand	Risk	Unit	Minimum	Average	Maximum	SANS 241:2015 Limits
Colour	Aesthetic	mg/L Pt-Co	<1.00	N/A	2.00	≤ 15
Conductivity at 25 °C	Aesthetic	mS/m	16.60	17.93	20.90	≤ 170
Total dissolved solids	Aesthetic	mg/L	120.00	120.00	120.00	≤ 1200
Turbidity	Aesthetic	NTU	0.10	0.21	0.40	≤ 5
Sulfate as SO ₄ ²⁻	Aesthetic	mg/L	7.73	7.73	7.73	≤ 250
Ammonia as N	Aesthetic	mg/L	<0.10	<0.10	<0.10	≤ 1.5
Chloride as Cl ⁻	Aesthetic	mg/L	18.00	18.00	18.00	≤ 300
Sodium as Na	Aesthetic	mg/L	11.50	11.50	11.50	≤ 200
Zinc as Zn	Aesthetic	mg/L	<0.03	<0.03	<0.03	≤ 5
Iron as Fe	Aesthetic	mg/L	<0.02	<0.02	<0.02	≤ 0.3
Manganese as Mn	Aesthetic	mg/L	<0.01	<0.01	<0.01	≤ 0.1
Phenols	Aesthetic	µg/L	<10.00	<10.00	<10.00	≤ 10
Hardness	Aesthetic	mg/L	48.50	48.50	48.50	

Operational Determinands

Determinand	Risk	Unit	Minimum	Average	Maximum	SANS 241:2015 Limits or UW Internal Operating Limit*
Total coliforms	Operational	Count per 100 mL	0	0 [#]	0	≤ 10
Heterotrophic plate count	Operational	Count per mL	0	0 [#]	12	≤ 1000
Somatic coliphages	Operational	Count per 10 mL	0	0 [#]	0	Not detected
Turbidity	Operational	NTU	0.10	0.21	0.40	≤ 1
pH at 25 °C	Operational	pH units	7.6	N/A	8.4	≥ 7.6 to ≤ 8.9*
Aluminium as Al	Operational	µg/L	<25.00	<25.00	<25.00	≤ 300
Free chlorine	Operational	mg/L	0.80	1.07	1.25	0.8 - 1.2*
Total chlorine	Operational	mg/L	1.00	1.35	1.80	

Value represents the median

When only one sample taken within date range, minimum = average = maximum.

N/A cannot be calculated since some results are below detection limit.