



City of Johannesburg  
Johannesburg Water (SOC) Ltd

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## QUALITY OF WATER SUPPLIED IN JOHANNESBURG

June-18

### Microbiological safety requirements

|        |             | Limit | Compliance Target % | Compliance Achieved % | Number of tests | Number of non-compliances |
|--------|-------------|-------|---------------------|-----------------------|-----------------|---------------------------|
| E.coli | count/100ml | 0     | 99.0                | 100                   | 628             |                           |

### Physical, organoleptic and chemical requirements

|   |                         | Limit     | Compliance Target % | Compliance Achieved % | Number of tests | Number of non-compliances |
|---|-------------------------|-----------|---------------------|-----------------------|-----------------|---------------------------|
| <b>Chemical &amp; Physical properties</b>           |                         |           |                     |                       |                 |                           |
| Colour  | mg/L as Pt              | 20        | 95                  | 100.0                 | 612             | 0                         |
| Conductivity  | mS/m                    | 150       | 95                  | 100                   | 620             | 0                         |
| Odour   | TON                     | 5         | 95                  | 100                   | 49              | 0                         |
| pH  | pH units                | 5.0 - 9.5 | 95                  | 100                   | 628             | 0                         |
| Taste   | TTN                     | 5         | 95                  | 100                   | 49              | 0                         |
| Turbidity   | NTU                     | 1         | 95                  | 99.5                  | 619             | 3                         |
| <b>Chemical requirements - macro-determinand</b>    |                         |           |                     |                       |                 |                           |
| Ammonia   | mg/L as N               | 1         | 95                  | 100                   | 49              | 0                         |
| Calcium   | mg/L as Ca              | 150       | 95                  | 100                   | 49              | 0                         |
| Chloride  | mg/L as Cl              | 200       | 95                  | 100                   | 49              | 0                         |
| Fluoride  | mg/L as F               | 1         | 95                  | 100                   | 49              | 0                         |
| Magnesium   | mg/L as Mg              | 70        | 95                  | 100                   | 49              | 0                         |
| Nitrate and nitrite                                 | mg/L as N               | 10        | 95                  | 100                   | 49              | 0                         |
| Potassium   | mg/L as K               | 50        | 95                  | 100                   | 49              | 0                         |
| Sodium  | mg/L as Na              | 200       | 95                  | 100                   | 49              | 0                         |
| Sulphate  | mg/L as SO <sub>4</sub> | 400       | 95                  | 100                   | 49              | 0                         |
| Zinc  | mg/L as Zn              | 5         | 95                  | 100                   | 49              | 0                         |
| <b>Chemical requirements - micro-determinand</b>    |                         |           |                     |                       |                 |                           |
| Aluminium   | mg/L as Al              | 0.3       | 95                  | 100                   | 49              | 0                         |
| Antimony  | µg/L as Sb              | 10        | 95                  | 100                   | 49              | 0                         |
| Arsenic   | µg/L as As              | 10        | 95                  | 100                   | 49              | 0                         |
| Cadmium   | µg/L as Cd              | 5         | 95                  | 100                   | 49              | 0                         |
| Chromium  | µg/L as Cr              | 100       | 95                  | 100                   | 49              | 0                         |
| Cobalt  | µg/L as Co              | 500       | 95                  | 100                   | 49              | 0                         |
| Copper  | mg/L as Cu              | 1         | 95                  | 100                   | 49              | 0                         |
| Cyanide (Free)                                      | µg/L as CN              | 50        | 95                  | 100                   | 49              | 0                         |
| Iron  | mg/L as Fe              | 0.2       | 95                  | 100                   | 49              | 0                         |
| Lead  | µg/L as Pb              | 20        | 95                  | 100                   | 49              | 0                         |
| Manganese   | mg/L as Mn              | 0.1       | 95                  | 100                   | 49              | 0                         |
| Mercury   | µg/L as Hg              | 2         | 95                  | 100                   | 49              | 0                         |
| Nickel  | µg/L as Ni              | 150       | 95                  | 100                   | 49              | 0                         |
| Selenium  | µg/L as Se              | 20        | 95                  | 100                   | 49              | 0                         |
| Vanadium  | µg/L as V               | 200       | 95                  | 100                   | 49              | 0                         |
| <b>Chemical requirements - organic determinands</b> |                         |           |                     |                       |                 |                           |
| Dissolved Organic Carbon                            | mg/L as C               | 10        | 95                  | 100                   | 49              | 0                         |
| Total Trihalomethanes                               | µg/L                    | 200       | 95                  | 100                   | 9               | 0                         |
| Phenols as C <sub>6</sub> H <sub>5</sub> OH         | µg/L                    | 10        | 95                  | 100                   | 49              | 0                         |
| Free chlorine                                       | mg/L                    |           |                     |                       | 628             | 0                         |
| Monochloramine                                      |                         |           |                     |                       | 628             | 0                         |

Johannesburg Water supplies water to the Johannesburg Metropolitan area.

This water is tested regularly and is compared to the SABS National Standard SANS 241-1 : 2015

Further information on the quality of water in Johannesburg is also available at the following web sites:

[www.johannesburgwater.co.za](http://www.johannesburgwater.co.za)

[www.dwa.gov.za/dir\\_ws/dwqr](http://www.dwa.gov.za/dir_ws/dwqr)

<https://www.johannesburgwater.co.za/about/resource-centre/>