

QUALITY WATER SUPPLIED FROM GROOTHOEK PLANT IN MODDER RIVER REGION

JANUARY – JUNE 2015

Microbiological Safety Requirements

| | Count/ml | Limit | Compliance Target % | Compliance Achieved % | Number of tests | Number of non-compliances |
|--------|-------------|-------|---------------------|-----------------------|-----------------|---------------------------|
| HPC | Count/100ml | 0 | 99.0 | 100.0 | 150 | 0 |
| E.Coli | Count/100ml | 0 | 99.0 | 100.0 | 150 | 0 |
| FC | Count/100ml | 0 | 99.0 | 100.0 | 150 | 0 |

Physical and Chemical Requirements

| | | Class 1 Limit | Compliance Target % | Compliance Achieved % | Number of tests | Number of non-compliances |
|---|------------|---------------|---------------------|-----------------------|-----------------|---------------------------|
| Conductivity | mS/m | 150 | 95 | 100 | 36 | 0 |
| pH | pH units | 5.0 – 9.5 | 95 | 100 | 36 | 0 |
| Turbidity | NTU | 0 – 1.0 | 95 | 100 | 36 | 0 |
| Chemical Requirements – macro-determinants | | | | | | |
| Ammonia | mg/l as N | 1 | 95 | 100 | 36 | 0 |
| Calcium H | mg/l as Ca | 500 | 95 | 100 | 36 | 0 |
| Chloride | mg/l as Cl | 200 | 95 | 100 | 36 | 0 |
| Fluoride | mg/l as F | 1 | 95 | 100 | 36 | 0 |
| Magnesium H | mg/l as Mg | 70 | 95 | 100 | 36 | 0 |
| Potassium | mg/l as K | 50 | 95 | 100 | 36 | 0 |
| Chemical Requirements – micro-determinants | | | | | | |
| Arsenic | µg/L as As | 10 | 95 | 100 | 7 | 0 |
| Iron | mg/L as Fe | 0.2 | 95 | 100 | 7 | 0 |
| Manganese | mg/L as Mn | 0.1 | 95 | 100 | 7 | 0 |
| Aluminium | mg/L as Al | 0.3 | 95 | 100 | 36 | 0 |
| Copper | mg/L as Cu | 1 | 95 | 100 | 7 | 0 |
| Chemical Requirements – macro-determinants | | | | | | |
| DOC | mg/L as C | 10 | 95 | 100 | 4 | 0 |
| Total Trihalomethanes | µg/L | 200 | 95 | 100 | 4 | 0 |

Modder River Region at Groothoek plant supplies water to the greater part of Thaba-Nchu Township and Thaba-Nchu Southern Villages areas. This water is tested regularly and is compared to the SANS 241.

Further information on the water quality of Bloemwater is also available at the following web site.

www.bloemwater.co.za

www.dwa.gov.za/mywater