

### MICROBIOLOGICAL ANALYSIS TEST REPORT

Sample From: Nkangala District Municipality Municipal Health Services  
Emakhazeni Town Council

Address: Posbus 437

Walter Sisulu  
Middelburg  
1050

Date Received: 29 May 2019  
Date Analyzed: 29 May 2019  
Date Reported: 31 May 2019  
Quantity Analyzed: 3

Attention: Marianne Joubert  
Solly Links

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Ref No: E / 1559 - 1561 / 19 B

LAB REF ID	LAB NUMBER	SAMPLE NAME	STERILIZED BOTTLE		STANDARD LIMITS				
					≤ 10	Nil	Nil	≤ 1000	
					TOTAL COLIFORM BACTERIA PER / 100ML	FAECAL COLIFORM PER / 100 ML	ESCHERISCHIA COLIFORM PER 100 ML	HETEROTROPHIC PLATE COUNT PER 1.0 ML	
<b>BELFAST</b>					YES	NO	A / B		
D	E 1559	NBF23/5/19 Belfast Old Reservoir	x		83	B	Nil	Nil	767
D	E 1560	NBF24/5/19 Belfast New Reservoir	x		Nil	B	Nil	Nil	8
D	E 1561	NBF14/5/19 Bottom End Liquor Store	x		101	B	Nil	Nil	769
METHOD USED					A - SANAS 5221 (CFU) OR B - COLILERT (MPN)		SANS 5221 (CFU)	COLILERT (MPN)	SANS 5221 (CFU)
					REGEN WATERS METHOD: MLPM 4A AND 4B.				

**S.A.N.S. 241:2015 MICROBIOLOGICAL REQUIREMENTS**  
Allowable compliance for **DRINKING WATER**

Determinant	Risk	Unit	Standard limits
Escherichia Coliform / or Faecal Coliform bacteria	Acute Health - 1	Count per 100 ml	Not Detected
Heterotrophic Plate Count	Operational	Count per 1 ml	≤ 1 000
Total Coliform Bacteria	Operational	Count per 100 ml	≤ 10

Results exceeding alert levels will require immediate remedial action and follow-up sampling.

**EFFLUENT WATER**

Regional Standard (Department Water Affairs and Forestry) of 26 March 2004 No.399 for Waste water specifies : Waste water or Effluent shall **not** contain more than 1000 Faecal Coliform per 100 ml.

These results relate only to samples tested.

Opinions and interpretations expressed herein are outside the scope of SANAS accreditation.

# - Samples highlighted in grey are not within the limits as specified.

REMARKS:

- Samples NBF23/5/19 Belfast Old Reservoir and NBF14/5/19 Bottom End Liquor Store have Total Coliform counts not within the SANS 241:2015 limit. These bacteria are not pathogenic (disease forming) but it is advised to chlorinate these water samples for total disinfection.
- Sample NBF24/5/19 Belfast New Reservoir complies with the SANS 241:2015 microbiological drinking water standard for the tested parameters. The water is bacteriologically suitable for domestic use.

P.L.G UYS / A.KOHR'S  
Technical Signatory

**SANS 241  
2015**



(PTY) LTD 2018/379064/07

**REGEN WATERS**  
**LABORATORY • LABORATORIUM**

QPM 18 APP 1

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