


**MICROBIOLOGICAL ANALYSIS  
 TEST REPORT**

Sample From:

**Nkangala District Municipality  
 Municipal Health Services  
 Emakhazeni Town Council**

 Address: **Posbus 437  
 Walter Sisulu  
 Middelburg  
 1050**

Date Received:

30-Nov-17

Date Analyzed:

30-Nov-17

Date Reported:

2-Dec-17

Quantity Analyzed:

7

Ref No: **K 1818 - 1824 / 17 B**

LAB REF ID	LAB NO	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	K 1818	BF36/11/17: Water Works Outlet Final	x		27	B	Nil	Nil	211
D	K 1819	BF37/11/17: Siyathuthuka Reservoir	x		Nil	B	Nil	Nil	21
D	K 1820	BF38/11/17: Belfast Old Reservoir	x		19	B	Nil	Nil	630
D	K 1821	BF39/11/17: Belfast Reservoir New	x		18	B	Nil	Nil	535
METHOD USED					A- SANAS 5221 OR B - COLILERT		SANS 5221	COLILERT	SANS 5221

**S.A.N.S. 241-1:2015 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 species :  
 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:

- a.) Samples BF36/11/17: Water Works Outlet Final , BF38/11/17: Belfast Old Reservoir and BF39/11/17: Belfast Reservoir New has a Total Coliform count not within the SANS 241:2015 limit. These bacteria are not pathogenic (disease forming) but it is advised to chlorinate the water for total disinfection.
- b.) Sample BF37/11/17: Siyathuthuka 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 (M.D.)  
 Technical Signatory

 SANS  
 241-1  
 Edition 2  
 2015

