


**MICROBIOLOGICAL ANALYSIS  
 TEST REPORT**

Sample From:

**Nkangala District Municipality  
 Municipal Health Services  
 Emakhazeni Town Council**
**Address: Posbus 437  
 Walter Sisulu  
 Middelburg  
 1050**

Date Received:

23-Feb-18

Date Analyzed:

23-Feb-18

Date Reported:

25-Feb-18

Quantity Analyzed:

17

Ref No: B 1463 - 1479 / 18 B

LAB REF ID	LAB NO	SAMPLE NAME	STERILIZED BOTTLE		STANDARD LIMITS				
			YES	NO	≤ 10 TOTAL COLIFORM BACTERIA PER / 100ML	A / B	Nil FAECAL COLIFORM PER / 100 ML	Nil ESCHERISCHIA COLIFORM PER 100 ML	≤ 1000 HETEROTROPHIC PLATE COUNT PER 1.0 ML
<b>BELFAST</b>									
D	B 1463	BF18/2/18: Belfast Old Reservoir	X		>200	B	6	4	1030
D	B 1464	BF20/2/18: Belfast New Reservoir	X		>200	B	6	5	1100
D	B 1465	BF22/2/18: Stand 3423 / 3	X		9	B	Nil	Nil	728
D	B 1466	BF27/2/18: Siyathuthuka Reservoir	X		4	A	Nil	Nil	981
D	B 1467	BF30/2/18: Siyathuthuka Clinic	X		4	B	Nil	Nil	1080
D	B 1468	BF31/2/18: Leratong Creche'	X		3	B	Nil	Nil	1010
D	B 1469	BF33/2/18: H.A. Grove Hospital	X		145	B	7	6	892
D	B 1470	BF34/2/18: Bottom End Liqueur Store	X		118	B	7	5	992
D	B 1471	BF35/2/18: Belfast Old Age Home	X		130	B	6	4	1350
METHOD USED					A - SANAS 5221 OR B - COLLILERT		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 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:

- a.) Samples BF18/2/18: Belfast Old Reservoir, BF20/2/18: Belfast New Reservoir, BF33/2/18: H.A. Grove Hospital, BF34/2/18: Bottom End Liqueur Store and BF35/2/18: Belfast Old Age Home tested positive for Faecal coliform. These bacteria are pathogenic (disease forming) in nature and the water is not safe for human consumption. It is recommended to investigate the source of contamination and chlorinate the water for total disinfection. **DO NOT DRINK THIS WATER.**
- b.) Samples BF18/2/18: Belfast Old Reservoir, BF20/2/18: Belfast New Reservoir, BF33/2/18: H.A. Grove Hospital, BF34/2/18: Bottom End Liqueur Store and BF35/2/18: Belfast Old Age Home does not comply with the limit for E.coli in drinking water as set out in the SANS 241:2015 standard. These bacteria are pathogenic (disease forming) in nature and the water is not safe for human consumption. It is recommended to investigate the source of contamination and chlorinate the water for total disinfection. **DO NOT DRINK THIS WATER.**
- c.) Samples BF30/2/18: Siyathuthuka Clinic and BF31/2/18: Leratong Creche' does not comply with the SANS 241:2015 drinking water standard for Heterotrophic Plate Count in water. These bacteria are not pathogenic (disease forming) but it is advised to chlorinate the water for total disinfection.
- d.) Samples BF22/2/18: Stand 3423 / 3, BF27/2/18: 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



CK. 89/14418/23  
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					≤ 10		Nil	Nil	≤ 1000
					TOTAL COLIFORM BACTERIA PER / 100ML	A / B	FAECAL COLIFORM PER / 100 ML	ESCHERISCHIA COLIFORM PER 100 ML	HETEROTROPHIC PLATE COUNT PER 1.0 ML
<b>WATERVALBOVEN</b>					YES	NO			
D	B 1472	WB20/2/18: Kayalami S.C. Tap	X		1	B	Nil	Nil	761
D	B 1473	WB21/2/18: Mississippi Rest Tap	X		Nil	B	Nil	Nil	312
D	B 1474	WB22/2/18: Waterworks Final	X		Nil	B	Nil	Nil	858
D	B 1475	WB23/2/18: Boven Reservoir	X		Nil	A	Nil	Nil	905
D	B 1476	WB24/2/18: Stand P118 Tap	X		Nil	B	Nil	Nil	876
D	B 1477	WB26/2/18: Vullingcondo S.C. WB Tap	X		Nil	B	Nil	Nil	926
D	B 1478	WB28/2/18: Technical Workshop	X		Nil	B	Nil	Nil	936
D	B 1479	WB29/2/18: Silwerdae Old Age Home Tap	X		Nil	B	Nil	Nil	798
METHOD USED					A - SANAS 5221 OR B - COLILERT		SANS 5221	COLILERT	SANS 5221

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- a.) Samples WB20/2/18: Kayalami S.C. Tap, WB21/2/18: Mississippi Rest Tap, WB22/2/18: Waterworks Final, WB23/2/18: Boven Reservoir, WB24/2/18: Stand P118 Tap, WB26/2/18: Vullingcondo S.C. WB Tap, WB28/2/18: Technical Workshop, WB29/2/18: Silwerdae Old Age Home Tap 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

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**241-1**  
**Edition 2**  
**2015**