

## CERTIFICATE OF MICROBIOLOGICAL ANALYSIS TEST REPORT

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

Date Received: **10-May-17**

Date Analyzed: **10-May-17**

Date Reported: **12-May-17**

Quantity Analyzed: **8**

Ref No: **E 508 - 515 / 17 B**

LAB NO	SAMPLE NAME	STERILIZED BOTTLE		STANDARD LIMITS				
				≤ 10	Nil	Nil	≤ 1000	
		YES	NO	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>BF BELFAST</b>							
E 508	12/5/17 Stand 3423	X		Nil	B	Nil	Nil	7
E 509	13/5/17 HA Grove Hospital	X		Nil	B	Nil	Nil	5
E 510	15/5/17 Belfast Old Age Home	X		15	B	Nil	Nil	11
E 511	8/5/17 Belfast Sewage Works Final	X		-	B	Nil	-	-
				A - SANAS 5221 OR B - COLILERT		SANS 5221	COLILERT	SANS 5221

### S.A.N.S. 241-1:2015 Ed 2 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.

SANS  
241-1  
Edition 2  
2015

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.) The sample BELFAST OLD AGE HOME contains high levels of Total Coliform Bacteria. These bacteria are not pathogenic (disease forming) in nature, however it is advisable to Chlorinate this water to achieve complete disinfection.



P.L.G UYS (M.D.)

Technical Signatory

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	<b>MH</b>	<b>MACHADODORP</b>			A / B				
E 512	14/5/17	Emthonjeni Clinic	X		Nil	B	Nil	Nil	16
E 513	17/5/17	Macha Clinic Tap	X		Nil	B	Nil	Nil	57
				A - SANAS 5221 OR B - COLILERT		SANS 5221	COLILERT	SANS 5221	

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#### REMARKS:

- a.) These samples fulfill the bacteriological criteria as specified by SANS 241 Standard for Human Consumption.



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E 514	15/5/17	Silwerdae Old Age Home Tap	X		>200	B	20	15	85
E 515	8/5/17	Sewage Works Outlet Final	X		-	B	>1000	-	-
					A - SANAS 5221 OR B - COLILERT		SANS 5221	COLILERT	SANS 5221

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#### REMARKS:

- a.) The sample SILWERDAE OLD AGE HOME TAP contains all types of bacteria. These bacteria are pathogenic (disease forming) in nature. DO NOT use this water for Human Consumption.



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