



CK. 89/14418/23  
**REGEN WATERS**  
 LABORATORY - LABORATORIUM

4 Woltemade Street  
 P.O. Box 8328  
 WITBANK 1035  
 Tel.: 013-690-1487  
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### 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-Mar-18  
**Date Analyzed:** 23-Mar-18  
**Date Reported:** 25-Mar-18  
**Quantity Analyzed:** 18

**Ref No:** C 1293 - 1310 / 18 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	
BELFAST					YES	NO	A / B		
D	C 1293	BF30/3/18: Siyathuthuka Clinic	X		19	B	Nil	Nil	230
D	C 1294	BF31/3/18: Leratong Creche'	X		19	B	Nil	Nil	135
D	C 1295	BF32/3/18: Stand 3423/3	X		12	B	Nil	Nil	416
D	C 1296	BF33/3/18: HA Grove Hospital	X		8	B	3	1	304
D	C 1297	BF34/3/18: Bottom End Liquor Store	X		5	B	Nil	Nil	140
D	C 1298	BF35/3/18: Belfast Old Age Home	X		62	B	Nil	Nil	579
METHOD USED					A- SANAS 5221 OR B - COLLERT		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:

- Samples BF30/3/18: Siyathuthuka Clinic , BF31/3/18: Leratong Creche', BF32/3/18: Stand 3423/3 and BF35/3/18: Belfast Old Age Home 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.
- Sample BF34/3/18: Bottom End Liquor Store complies with the SANS 241:2015 microbiological drinking water standard for the tested parameters. The water is bacteriologically suitable for domestic use.
- Sample BF33/3/18: HA Grove Hospital 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.**
- Sample BF35/3/18: 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.**

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

SANS  
 241-1  
 Edition 2  
 2015



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<b>MACHADODORP</b>			YES	NO					
D	C 1299	MH26/3/18: Emthonjeni Clinic	X		Nil	B	Nil	Nil	190
D	C 1300	MH27/3/18: TPA Offices	X		1	B	Nil	Nil	35
D	C 1301	MH28/3/18: Stand 1485	X		Nil	B	Nil	Nil	20
D	C 1302	MH29/3/18: Machado Clinic	X		3	B	Nil	Nil	15
D	C 1303	MH30/3/18: Highway Nissan Garage	X		Nil	B	Nil	Nil	32
D	C 1304	MH31/3/18 : Speelgoed Creche'	X		2	B	Nil	Nil	57
METHOD USED					A- SANAS 5221 OR B - COLLERT		SANS 5221	COLILERT	SANS 5221

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#### REMARKS:

- a.) Samples MH26/3/18: Emthonjeni Clinic, MH27/3/18: TPA Offices, MH28/3/18: Stand 1485, MH29/3/18: Machado Clinic, MH30/3/18: Highway Nissan Garage, MH31/3/18 : Speelgoed Creche' complies with the SANS 241:2015 microbiological drinking water standard for the tested parameters. The water is bacteriologically suitable for domestic use.

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		<b>WATERVALBOVEN</b>	YES	NO					
D	C 1305	WB10/3/18: Stand P118 (602)	X		Nil	B	Nil	Nil	14
D	C 1306	WB11/3/18: Khayalami Service Centre	X		Nil	B	Nil	Nil	25
D	C 1307	WB12/3/18: Vulingcondo Stimulation Centre	X		34	B	6	5	311
D	C 1308	WB13/3/18: Mississippi Restaurant	X		Nil	B	Nil	Nil	10
D	C 1309	WB14/3/18: Technical Workshop	X		Nil	B	Nil	Nil	19
D	C 1310	WB15/3/18: Silverdays Old Age Home	X		Nil	B	Nil	Nil	25
METHOD USED					A- SANAS 5221 OR B- COLLERT		SANS 5221	COLLERT	SANS 5221

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#### REMARKS:

- Samples WB10/3/18: Stand P118 (602), WB11/3/18: Khayalami Service Centre, WB13/3/18: Mississippi Restaurant, WB14/3/18: Technical Workshop, WB15/3/18: Silverdays Old Age Home complies with the SANS 241:2015 microbiological drinking water standard for the tested parameters. The water is bacteriologically suitable for domestic use.
- Sample WB12/3/18: Vulingcondo Stimulation Centre 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.**
- Sample WB12/3/18: Vulingcondo Stimulation Centre 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.**

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