


**MICROBIOLOGICAL ANALYSIS
 TEST REPORT**

Sample From:

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

Date Received: 4-Jan-18

Date Analyzed: 4-Jan-18

Date Reported: 6-Jan-18

Quantity Analyzed: 32

Ref No: A 62 - 93 / 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	A 62	BF3/1/18: Belfast Waterworks Final	X		Nil	B	Nil	Nil	12
S	A 63	BF8/1/18: Belfast Sewerworks Final	X		-	A	Nil	-	-
D	A 64	BF10/1/18: Siyathuthuka Clinic	X		15	B	Nil	Nil	189
D	A 65	BF11/1/18: Leratong Creche'	X		11	B	Nil	Nil	190
D	A 66	BF12/1/18: Stand 3423/3	X		16	B	Nil	Nil	189
D	A 67	BF13/1/18: HA Grove Hospital	X		3	B	Nil	Nil	41
D	A 68	BF14/1/18: Bottom End Liquor Store	X		9	B	Nil	Nil	53
D	A 69	BF15/1/18: Belfast Old Age Home	X		12	B	Nil	Nil	88
D	A 70	BF16/1/18: Siyathuthuka Reservoir	X		15	B	Nil	Nil	234
D	A 71	BF18/1/18: Belfast Old Reservoir	X		16	B	Nil	Nil	95
D	A 72	BF20/1/18: Belfast New Reservoir	X		15	B	Nil	Nil	140
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 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 BF3/1/18: Belfast Waterworks Final, BF13/1/18: HA Grove Hospital, BF14/1/18: 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.

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

SANS
241-1
Edition 2
2015



CK. 89/14418/23

REGEN WATERS
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		MACHADODORP	YES	NO					
D	A 73	MH3/1/18: Machado Waterworks Final	x		Nil	B	Nil	Nil	15
D	A 74	MH15/1/18: Emthonjeni Clinic	x		1	B	Nil	Nil	34
D	A 75	MH16/1/18: TPA Offices	x		Nil	B	Nil	Nil	18
D	A 76	MH17/1/18: Stand 1785	x		Nil	B	Nil	Nil	33
D	A 77	MH18/1/18: Machado Clinic	x		Nil	B	Nil	Nil	22
D	A 78	MH19/1/18: Highway Nissan Garage	x		Nil	B	Nil	Nil	20
D	A 79	MH20/1/18: Speelgoed Creche'	x		Nil	B	Nil	Nil	21
D	A 80	MH21/1/18: Cement Reservoir	x		Nil	B	Nil	Nil	18
D	A 81	MH23/1/18: Steeltank	x		12	B	Nil	Nil	232
S	A 82	MH13/1/18: Emthonjeni Sewer Works	x		-	B	200	-	-
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
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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.

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REMARKS:

- a.) Sample MH23/1/18: Steeltank 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.) Samples MH3/1/18: Machado Waterworks Final, MH15/1/18: Emthonjeni Clinic, MH16/1/18: TPA Offices, MH17/1/18: Stand 1785, MH18/1/18: Machado Clinic, MH19/1/18: Highway Nissan Garage, MH20/1/18: Speelgoed Creche', MH21/1/18: Cement Reservoir 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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		MACHADODORP	YES	NO		A / B			
	A 83	MH6/1/18: Leeuwspruit Before Sewerworks	X		>2420	B	380	310	1342
	A 84	MH8/1/18: Leeuwspruit After Sewerworks	X		>2420	B	690	605	1578
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

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WATERVALBOVEN					YES	NO				
D	A 85	WB3/1/18: Watervalboven Waterworks Final	X		Nil	B	Nil	Nil	47	
D	A 86	WB10/1/18: Stand P118 (602)	X		1	B	Nil	Nil	140	
D	A 87	WB11/1/18: Khayalami Service Centre	X		Nil	B	Nil	Nil	55	
D	A 88	WB12/1/18: Vulindcondo Stimulation Centre	X		Nil	B	Nil	Nil	70	
D	A 89	WB13/1/18: Mississipi Resturant	X		Nil	B	Nil	Nil	260	
D	A 90	WB14/1/18: Technical Workshop	X		Nil	B	Nil	Nil	60	
D	A 91	WB15/1/18: Silverdays Old Age Home	X		Nil	B	Nil	Nil	78	
D	A 92	WB16/1/18: Boven Reservoir	X		Nil	B	Nil	Nil	32	
S	A 93	WB8/1/18: Sewer Works Outlet	X		-	B	820	-	-	
METHOD USED					A- SANAS 5221 OR B - COLILERT		SANS 5221	COLILERT	SANS 5221	

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REMARKS:

- a.) Samples WB3/1/18: Watervalboven Waterworks Final, WB10/1/18: Stand P118 (602), WB11/1/18: Khayalami Service Centre, WB12/1/18: Vulindcondo Stimulation Centre, WB13/1/18: Mississipi Resturant, WB14/1/18: Technical Workshop, WB15/1/18: Silverdays Old Age Home, WB16/1/18: Boven Reservoir 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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