



CK. 89/14418/23
REGEN WATERS
 LABORATORY • LABORATORIUM

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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:

18-Apr-18

Date Analyzed:

18-Apr-18

Date Reported:

20-Apr-18

Quantity Analyzed:

19

Ref No: **D 923 - 941 / 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	ESCHERICHIA COLIFORM PER 100 ML	HETEROTROPHIC PLATE COUNT PER 1.0 ML	
WATERVALBOVEN			YES	NO	A / B				
D	D 923	WB3/4/18: Watervalboven Waterwork Final	x		95	B	6	5	183
S	D 924	WB8/4/18: Watervalboven Sewerworks Final	x		-	B	>1000	-	-
D	D 925	WB10/4/18: Stand P118 (602)	x		118	B	10	6	190
D	D 926	WB11/4/18: Khayalami Service Centre	x		109	B	7	5	140
D	D 927	WB12/4/18: Vulingcondo Stimulation Centre	x		78	B	Nil	Nil	81
D	D 928	WB13/4/18: Mississippi Restaurant	x		11	B	3	2	60
D	D 929	WB14/4/18: Technical Workshop	x		165	B	Nil	Nil	180
D	D 930	WB15/4/18: Silverdays Old Age Home	x		130	B	5	4	189
D	D 931	WB16/4/18: Watervalboven Reservoir	x		200	B	8	6	224
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 WB12/4/18: Vulingcondo Stimulation Centre and WB14/4/18: Technical Workshop 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 WB10/4/18: Stand P118 (602) , WB11/4/18: Khayalami Service Centre , WB13/4/18: Mississippi Restaurant , WB15/4/18: Silverdays Old Age Home and WB16/4/18: Watervalboven Reservoir 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.
- c.) Samples WB10/4/18: Stand P118 (602) , WB11/4/18: Khayalami Service Centre , WB13/4/18: Mississippi Restaurant , WB15/4/18: Silverdays Old Age Home and WB16/4/18: Watervalboven Reservoir 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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			YES	NO	A / B				
D	D 932	BF3/4/18: Belfast Waterworks Final Treated	X		Nil	B	Nil	Nil	20
D	D 933	BF10/4/18: Siyathuthuka Clinic	X		Nil	B	Nil	Nil	18
D	D 934	BF11/4/18: Leratong Creche'	X		Nil	B	Nil	Nil	22
D	D 935	BF12/4/18: Stand 3423/3	X		Nil	B	Nil	Nil	15
D	D 936	BF13/4/18: HA Grove Hospital	X		Nil	B	Nil	Nil	14
D	D 937	BF19/4/18: Bottom End Liquer Store	X		Nil	B	Nil	Nil	13
D	D 938	BF20/4/18: Belfast Old Age Home	X		1	B	Nil	Nil	26
D	D 939	BF21/4/18: Siyathuthuka Reservoir	X		Nil	B	Nil	Nil	18
D	D 940	BF22/4/18: Belfast Old Reservoir	X		Nil	B	Nil	Nil	17
D	D 941	BF23/4/18: Belfast New Reservoir	X		Nil	B	Nil	Nil	24
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
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EFFLUENT WATERRegional 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 BF3/4/18: Belfast Waterworks Final Treated, BF10/4/18: Siyathuthuka Clinic, BF11/4/18: Leratong Creche', BF12/4/18: Stand 3423/3, BF13/4/18: HA Grove Hospital, BF19/4/18: Bottom End Liquer Store, BF20/4/18: Belfast Old Age Home, BF21/4/18: Siyathuthuka Reservoir, BF22/4/18: Belfast Old Reservoir, BF23/4/18: Belfast New 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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 Technical Signatory

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