CK. 89/14418/23
REGEN WATERS
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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: 20-Nov-17
Date Analyzed: 20-Nov-17
Date Reported: 22-Nov-17
Quantity Analyzed: 23

Ref No: K 1118 - 1140 / 17 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	K 1118	BF 26/11/17: Belfast Waterworks Final	x		10	B	Nil	Nil	850
D	K 1119	BF27/11/17: Siyathuthuka Reservoir	x		Nil	B	Nil	Nil	31
D	K 1120	BF28/11/17: Belfast Old Reservoir	x		Nil	B	Nil	Nil	40
D	K 1121	BF29/11/17:Belfast New Reservoir	x		Nil	B	Nil	Nil	24
D	K 1122	BF30/11/17:Siyathuthyka Clinic	x		Nil	B	Nil	Nil	141
D	K 1123	BF31/11/17: Leratong Creche'	x		Nil	B	Nil	Nil	150
D	K 1124	BF32/11/17: Stand 3423/3	x		Nil	B	Nil	Nil	112
D	K 1125	BF33/11/17: HA Grove Hospital	x		3	B	Nil	Nil	475
D	K 1126	BF34/11/17: Bottom End Liquor Store	x		2	B	Nil	Nil	310
D	K 1127	BF35/11/17: Belfast Old Age Home	x		Nil	B	Nil	Nil	105
	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.

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.) **Sample BF 26/11/17: Belfast Waterworks Final 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 BF27/11/17: Siyathuthuka Reservoir , BF28/11/17: Belfast Old Reservoir, BF29/11/17:Belfast New Reservoir, BF30/11/17:Siyathuthyka Clinic, BF31/11/17: Leratong Creche', BF32/11/17: Stand 3423/3, BF33/11/17: HA Grove Hospital, BF34/11/17: Bottom End Liquor Store, BF35/11/17: Belfast 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.**

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

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TEST REPORT

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Municipal Health Services
Emakhazeni Town Council

Address: **Posbus 437**
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Middelburg
1050

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Ref No: **K 1118 - 1140 / 17 B**

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					≤ 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
		SPECIAL	YES	NO		A / B			
D	K 1128	RA1/11/17: Life Esidimeni JoJo	x		Nil	B	Nil	Nil	41
D	K 1129	RA2/11/17: Life Esidimeni JoJo	x		Nil	B	Nil	Nil	48
	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.

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SANS 241-1 Edition 2 2015

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REMARKS:

a.) **Samples RA1/11/17: Life Esidimeni JoJo, RA2/11/17: Life Esidimeni JoJo 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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MICROBIOLOGICAL ANALYSIS
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					TOTAL COLIFORM BACTERIA PER / 100ML		FAECAL COLIFORM PER / 100 ML	ESCHERISCHIA COLIFORM PER 100 ML	HETEROTROPHIC PLATE COUNT PER 1.0 ML
		WATERVALBOVEN	YES	NO		A / B			
D	K 1130	WB22/11/17:Watervalboven Waterworks Final	x		Nil	B	Nil	Nil	160
D	K 1131	WB23/11/17: Watervalboven Reservoir	x		Nil	B	Nil	Nil	122
D	K 1132	WB24/11/17: Stand P118 (602)	x		Nil	B	Nil	Nil	35
D	K 1133	WB25/11/17: Khayalami Service Centre	x		Nil	B	Nil	Nil	151
D	K 1134	WB26/11/17: Vulindkondo Stimulation Centre	x		Nil	B	Nil	Nil	194
D	K 1135	WB27/11/17: Mississipi Resturant	x		Nil	B	Nil	Nil	188
D	K 1136	WB28/11/17: Technical Workshop	x		Nil	B	Nil	Nil	17
D	K 1137	WB29/11/17: Silverdays Old Age Home	x		Nil	B	Nil	Nil	6
	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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SANS 241-1 Edition 2 2015

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REMARKS:

a.) **Samples WB22/11/17:Watervalboven Waterworks Final, WB23/11/17: Watervalboven Reservoir, WB24/11/17: Stand P118 (602), WB25/11/17: Khayalami Service Centre, WB26/11/17: Vulindkondo Stimulation Centre, WB27/11/17: Mississipi Resturant , WB28/11/17: Technical Workshop, WB29/11/17: 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.**

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		MACHADODORP	YES	NO		A / B			
S	K 1138	MH38/11/17: Leeuwspruit Before Sewerworks	x		1553	B	70	58	1308
S	K 1139	MH40/11/17: Leeuwspruit After Sewerworks	x		>2420	B	TNTC	>2420	1842
S	K 1132	MH42/11/17: Emthonjeni Sewerworks Final	x		-	B	850	-	-
		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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