



CK. 89/14418/23
REGEN WATERS
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MICROBIOLOGICAL ANALYSIS TEST REPORT

Sample From:

**Nkangala District Municipality
 Municipal Health Services
 Emakhaseni Town Council**

Address: **Posbus 437
 Walter Sisulu
 Middelburg
 1050**

Date Received:

12-Dec-18

Date Analyzed:

12-Dec-18

Date Reported:

14-Dec-18

Quantity Analyzed:

18

Ref No: **L 544 - 561 / 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	
					YES	NO	A / B		
WATERVALBOVEN									
D	L 544	WB10/12/18: P118 Tap	X		Nil	B	Nil	Nil	39
D	L 545	WB11/12/18: Kayalami S.C. Tap	X		Nil	B	Nil	Nil	29
D	L 546	WB12/12/18: Vulingcondo - SC Tap	X		Nil	B	Nil	Nil	15
D	L 547	WB13/12/18: Missisipi Restaurant	X		Nil	B	Nil	Nil	66
D	L 548	WB14/12/18: Technical Workshop Tap	X		Nil	B	Nil	Nil	22
D	L 549	WB15/12/18: Silverdae Old Age Home	X		Nil	B	Nil	Nil	38
METHOD USED					A - SANAS 5221 (CFU) OR B - COLILERT (MPN)		SANS 5221	COLILERT (MPN)	SANS 5221
REGEN WATERS METHOD: MLPM 4A AND 4B.									

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 WB10/12/18: P118 Tap, WB11/12/18: Kayalami S.C. Tap, WB12/12/18: Vulingcondo - SC Tap, WB13/12/18: Missisipi Restaurant , WB14/12/18: Technical Workshop Tap, WB15/12/18: Silverdae Old Age Home complies with the SANS 241:2015 microbiological drinking water standard for the tested parameters. These water samples are bacteriologically suitable for domestic use.**

P.L.G UYS / A.KOHR

Technical Signatory

(A signed copy of this report is available)

SANS
 241-1
 Edition 2
 2015



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MACHADODORP			YES	NO		A / B				
D	L 550	MH14/12/18: Ethonjeni Clinic	X		Nil	B	Nil	Nil	16	
D	L 551	MH15/12/18: Municipal Office Tap	X		Nil	B	Nil	Nil	9	
D	L 552	MH16/12/18: Stanf 1845 Tap	X		Nil	B	Nil	Nil	19	
D	L 553	MH17/12/18: Machado Clinic Tap	X		Nil	B	Nil	Nil	10	
D	L 554	MH18/12/18: Nissan Higay Garage	X		Nil	B	Nil	Nil	9	
D	L 555	MH19/12/18: The Hog Tap	X		Nil	B	Nil	Nil	12	
D	L 556	MH26/12/18: Cement Reservoir	X		Nil	B	Nil	Nil	16	
D	L 557	MH22/12/18: Steeltank	X		Nil	B	Nil	Nil	88	
METHOD USED					A- SANAS 5221 (CFU) OR B - COLILERT (MPN)		SANS 5221	COLILERT (MPN)	SANS 5221	
REGEN WATERS METHOD: MLPM 4A AND 4B.										

S.A.N.S. 241-1:2015 MICROBIOLOGICAL REQUIREMENTS
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REMARKS:

- a.) Samples MH14/12/18: Ethonjeni Clinic, MH15/12/18: Municipal Office Tap, MH16/12/18: Stanf 1845 Tap, MH17/12/18: Machado Clinic Tap, MH18/12/18: Nissan Higay Garage, MH19/12/18: The Hog Tap, MH26/12/18: Cement Reservoir, MH22/12/18: Steeltank complies with the SANS 241:2015 microbiological drinking water standard for the tested parameters. These water samples are bacteriologically suitable for domestic use.

P.L.G UYS / A.KOHR

Technical Signatory

(A signed copy of this report is available)

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					YES	NO	A / B		
BELFAST									
D	L 558	BF22/12/18: Belfast Old Reservoir	X		>200	B	20	14	624
D	L 559	BF23/12/18: Belfast New Reservoir	X		>200	B	15	11	815
D	L 560	BF24/12/18: Bottom End Liquer Store	X		>200	B	10	8	840
D	L 561	BF25/12/18: Belfast Old Age Home Borehole	X		57	B	Nil	Nil	96
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REMARKS:

- a.) Sample BF25/12/18: Belfast Old Age Home Borehole 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 BF22/12/18: Belfast Old Reservoir, BF23/12/18: Belfast New Reservoir and BF24/12/18: Bottom End Liquer Store tested positive for pathogenic bacteria (E.Coli/ Faecal coliform bacteria). These bacteria are disease forming and the water samples are not safe for human consumption. It is recommended to investigate the source of contamination and chlorinate these water samples for total

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