


**CERTIFICATE OF MICROBIOLOGICAL ANALYSIS  
 TEST REPORT**

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

Date Received: **12-Sep-17**Date Analyzed: **12-Sep-17**Date Reported: **14-Sep-17**Quantity Analyzed: **24**Ref No: **I / 613- 637 / 17/B**

LAB NO	DS	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				
I 613	3/9/17	Dullstroom Waterworks Final	x		Nil	B	Nil	Nil	21
I 614	8/9/17	Dullstroom Sewerworks Final	x		-	B	>1000	-	-
I 615	10/9/17	Sakhelwe Clinic	x		Nil	B	Nil	Nil	14
I 616	11/9/17	Cosmo General Dealer	x		Nil	B	Nil	Nil	23
I 617	12/9/17	Sakhelwe Creche'	x		Nil	B	Nil	Nil	17
I 618	13/9/17	La bomba Centre	x		Nil	B	Nil	Nil	13
I 619	14/9/17	Municipal Offices	x		Nil	B	Nil	Nil	12
I 620	15/9/17	SA Epilepsy Centre	x		Nil	B	Nil	Nil	8
I 621	16/9/17	Sakhelwe Reservoir	x		Nil	B	Nil	Nil	1
I 622	18/9/17	Dullstroom Reservoir	x		Nil	B	Nil	Nil	15
					A- SANAS 5221 OR B - COLILERT		SANS 5221	COLILERT	SANS 5221

**S.A.N.S. 241-1:2015 Ed 2 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:

- All of these Drinking water samples fulfill the bacteriological criteria as specified by SANS 241 Standard for human consumption.
- Excess Faecal Coliform bacteria as detected in the Dullstroom Sewerworks Final sample

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

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			YES	NO	TOTAL COLIFORM BACTERIA PER / 100ML	A / B	FAECAL COLIFORM PER / 100 ML	ESCHERISCHIA COLIFORM PER 100 ML
					≤ 10	Nil	Nil	≤ 1000
I 623	8/9/17	Waterval Boven Sewerworks final	X		-	B	>1000	-
I 624	9/9/17	Elandsriver before sewer	X		>2420	B	180	142
I 625	20/9/17	Elandsriver After sewer	X		>2420	B	TNTC	>2420
					A- SANAS 5221 OR B- COLILERT	SANS 5221	COLILERT	SANS 5221

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REMARKS:

# TNTC - Too numerous to count

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LAB NO	MH	SAMPLE NAME	STERILIZED BOTTLE		STANDARD LIMITS				
			YES	NO	≤ 10 TOTAL COLIFORM BACTERIA PER / 100ML	Nil FAECAL COLIFORM PER / 100 ML	Nil ESCHERISCHIA COLIFORM PER 100 ML	≤ 1000 HETEROTROPHIC PLATE COUNT PER 1.0 ML	
						A / B			
I 626	8/9/17	Emthonjeni Sewer Final	X		-	B	380	-	-
I 628	9/9/17	Leeuwspruit Before Sewer	X		>2420	B	TNTC	>2420	1328
I 629	20/9/17	Leeuwspruit After Sewer	X		>2420	B	TNTC	1553	1529
					A- SANAS 5221 OR B - COLILERT		SANS 5221	COLILERT	SANS 5221

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				A / B					
I 630	3/9/17	Waterval Boven waterworks final	X		Nil	B	Nil	Nil	65
I 631	10/9/17	Stand P118 / 602	X		Nil	B	Nil	Nil	7
I 632	11/9/17	Khayalami Service Centre	X		Nil	B	Nil	Nil	11
I 633	12/9/17	Vulingcondo Stimulation Centre			Nil	B	Nil	Nil	10
I 634	13/9/17	Mississippi Restaurant			Nil	B	Nil	Nil	7
I 635	14/8/17	Technical Workshop			Nil	B	Nil	Nil	20
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					A / B			
I 636	15/9/17	Silverdays Old Age Home	X		Nil	B	Nil	462
I 637	16/8/17	Boven Reservoir	X		Nil	B	Nil	39
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