

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: **18-Jul-17**
Date Analyzed: **18-Jul-17**
Date Reported: **20-Jul-17**
Quantity Analyzed: **20** **Ref No: G 816 A - 880 / 17 B**

LAB NO		SAMPLE NAME	STERILIZED BOTTLE		STANDARD LIMITS				
					≤ 10	Nil	Nil	≤ 1000	
	WB	WATERVALBOVEN	YES	NO		A / B			
G 816 A	13/07/17	Mississippi Resturant	X		Nil	B	Nil	Nil	27
G 862	14/07/17	Technical Workshop	X		Nil	B	Nil	Nil	20
					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:

- a.) These samples fulfill the bacteriological criteria as specified by SANS 241 Standard for Human Consumption.



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

Technical Signatory

SANS
 241-1
 Edition 2
 2015

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LAB NO	RA	SAMPLE NAME	STERILIZED BOTTLE		STANDARD LIMITS				
			YES	NO	≤ 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	
						A / B			
G 863	1/7/17	Spoornet Tap	X		Nil	B	Nil	Nil	16
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					TOTAL COLIFORM BACTERIA PER / 100ML	A / B	FAECAL COLIFORM PER / 100 ML	ESCHERISCHIA COLIFORM PER 100 ML	HETEROTROPHIC PLATE COUNT PER 1.0 ML
G 864	3/7/17	Machado Waterworks Final Treated	X		Nil	B	Nil	Nil	11
G 865	8/7/17	Emthonjeni Sewer Final Treated	X		-	B	Nil	-	-
G 866	20/7/17	Machadodorp Cement Reservoir	X		Nil	B	Nil	Nil	10
G 867	22/7/17	Steeltank	X		Nil	B	Nil	Nil	19
G 868	18/7/17	Highway Nissan Garage	X		Nil	B	Nil	Nil	21
G 869	17/7/17	Machado Clinic	X		Nil	B	Nil	Nil	19
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			YES	NO	A / B				
G 870	11/7/17	Cosmo General Dealer	X		Nil	B	Nil	Nil	23
G 871	14/7/17	Municipal Offices	X		Nil	B	Nil	Nil	6
G 872	13/7/17	La Bamba Centre	X		Nil	B	Nil	Nil	8
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			YES	NO	A / B				
G 873	11/7/17	Leratong Creche'	X		Nil	B	Nil	Nil	30
G 874	12/7/17	Stand 3423/3	X		Nil	B	Nil	Nil	46
G 875	1/7/17	Belfast Waterworks Inlet	X		70	B	6	5	48
G 876	3/7/17	Belfast Waterworks Final	X		Nil	B	Nil	Nil	13
G 877	8/7/17	Belfast Sewerworks Final	X		-	B	Nil	-	-
G 878	16/7/17	Siyathuthuka Reservoir	X		Nil	B	Nil	Nil	15
G 879	18/7/17	Belfast Old Reservoir	X		1	B	Nil	Nil	33
G 880	20/7/17	Belfast New Reservoir	X		Nil	B	Nil	Nil	30
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REMARKS:

- a.) The sample BELFAST WATERWORKS INLET contains all types of bacteria. These bacteria are pathogenic (disease forming) in nature. DO NOT use this water for Human Consumption. It is advisable to Chlorinate this water to achieve complete disinfection.


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