


**CERTIFICATE OF MICROBIOLOGICAL ANALYSIS
 TEST REPORT**

Sample From:

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

 Address: Posbus 437
 Walter Sisulu
 Middelburg
 1050

Date Received:

12-Oct-17

Date Analyzed:

12-Oct-17

Date Reported:

14-Oct-17

Quantity Analyzed:

12

Ref No:

J 665 - 676 / 17 B

LAB NO	MH	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				
J 665	3/10/17	Machado Waterworks Final	X		Nil	B	Nil	Nil	13
J 666	12/10/17	Emthonjeni Machado Sewerworks Final	X		-	A	600	-	-
J 667	5/10/17	Leeuwspruit Before Sewer	X		1986	B	100	88	414
J 668	7/10/17	Leeuwspruit After Sewer	X		>2420	B	1500	1203	636
J 669	14/10/17	Emthonjeni Clinic	X		1	B	Nil	Nil	766
J 670	15/10/17	TPA Offices	X		Nil	B	Nil	Nil	1110
J 671	16/10/17	Stand 1483	X		Nil	B	Nil	Nil	1120
J 672	17/10/17	Machado Clinic	X		3	B	Nil	Nil	952
J 673	18/10/17	Highway Nissan Garage	X		2	B	Nil	Nil	613
J 674	19/10/17	Speelgoed Creche'	X		Nil	B	Nil	Nil	767
J 675	20/10/17	Cement Reservoir	X		2	B	Nil	Nil	672
J 676	22/10/17	Steeltank	X		1	B	Nil	Nil	1230
					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:

- The sample **EMTHONJENI MACHADO SEWERWORKS** contains high levels of Faecal Coliform Bacteria.
- These samples **LEEUWSPRUIT BEFORE SEWER** and **LEEUWSPRUIT AFTER SEWER** contain all types of bacteria. These bacteria are pathogenic (disease forming) in nature.
- These samples **TPA OFFICES**, **STAND 1483** and **STEELTANK** contains high levels of Heterotrophic Plate Count. These bacteria are not pathogenic (disease forming) in nature, however it is advisable to chlorinate this water to achieve complete disinfection.

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

Technical Signatory

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