


**MICROBIOLOGICAL ANALYSIS  
 TEST REPORT**

Sample From:

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

Date Received: 21-Dec-17

Date Analyzed: 21-Dec-17

Date Reported: 23-Dec-17

Quantity Analyzed: 10

Ref No: L 1535 - 1544 / 17 B

LAB REF ID	LAB NO	SAMPLE NAME	STERILIZED BOTTLE		STANDARD LIMITS				
					≤ 10		Nil	Nil	≤ 1000
					TOTAL COLIFORM BACTERIA PER / 100ML	A / B	FAECAL COLIFORM PER / 100 ML	ESCHERISCHIA COLIFORM PER 100 ML	HETEROTROPHIC PLATE COUNT PER 1.0 ML
		<b>DULLSTROOM</b>	YES	NO					
D	L 1535	DS/3/12/17: Dullstroom Waterworks Final	x		Nil	B	Nil	Nil	6
S	L 1536	DS8/12/17: Dullstroom Sewerworks Final	x		-	A	>1000	-	-
D	L 1537	DS10/12/17:Sakhelwe Clinic	x		Nil	B	Nil	Nil	16
D	L 1538	DS11/12/17: Cosmo General Dealer	x		1	B	Nil	Nil	7
D	L 1539	DS12/12/17: Sakhelwe Creche'	x		1	B	Nil	Nil	34
D	L 1540	DS13/12/17: La Bomba Centre	x		Nil	B	Nil	Nil	24
D	L 1541	DS14/12/17: Municipal Offices	x		Nil	B	Nil	Nil	25
D	L 1542	DS15/12/17: SA Epilepsy Centre	x		Nil	B	Nil	Nil	4
D	L 1543	DS16/12/17: Sakhelwe Reservoir	x		Nil	B	Nil	Nil	27
D	L 1544	DS18/12/17: Dullstroom Reservoir	x		Nil	B	Nil	Nil	20
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.

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 DS/3/12/17: Dullstroom Waterworks Final, DS10/12/17:Sakhelwe Clinic, DS11/12/17: Cosmo General Dealer, DS12/12/17: Sakhelwe Creche', DS13/12/17: La Bomba Centre, DS14/12/17: Municipal Offices, DS15/12/17: SA Epilepsy Centre, DS16/12/17: Sakhelwe Reservoir, DS18/12/17: Dullstroom Reservoir 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

**SANS**  
**241-1**  
**Edition 2**  
**2015**