



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

Sample From:

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

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

Date Received:

14-Mar-18

Date Analyzed:

14-Mar-18

Date Reported:

16-Mar-18

Quantity Analyzed:

9

Ref No: **C 764 - 772 / 18 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	ESCHERICHIA COLIFORM PER 100 ML	HETEROTROPHIC PLATE COUNT PER 1.0 ML
		DULLSTROOM	YES	NO					
D	C 764	DS/3/3/18: Dullstroom Waterworks Final	x		Nil	B	Nil	Nil	26
D	C 765	DS10/3/18: Sakhelwe Clinic	x		Nil	B	Nil	Nil	20
D	C 766	DS11/3/18: Cosmo General Dealer	x		Nil	B	Nil	Nil	38
D	C 767	DS12/3/18: Sakhelwe Creche'	x		Nil	B	Nil	Nil	32
D	C 768	DS13/3/18: La Bamba Centre	x		Nil	B	Nil	Nil	26
D	C 769	DS14/3/18: Municipal Offices	x		6	B	5	5	130
D	C 770	DS15/3/18: SA Epilepsy Centre	x		Nil	B	Nil	Nil	31
D	C 771	DS16/3/18: Sakhelwe Reservoir	x		Nil	B	Nil	Nil	26
D	C 772	DS18/3/18: Dullstroom Reservoir	x		Nil	B	Nil	Nil	37
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/3/3/18: Dullstroom Waterworks Final, DS10/3/18: Sakhelwe Clinic, DS11/3/18: Cosmo General Dealer, DS12/3/18: Sakhelwe Creche', DS13/3/18: La Bamba Centre, DS15/3/18: SA Epilepsy Centre, DS16/3/18: Sakhelwe Reservoir, DS18/3/18: Dullstroom Reservoir complies with the SANS 241:2015 microbiological drinking water standard for the tested parameters. The water is bacteriologically suitable for domestic use.
- b.) Sample DS14/3/18: Municipal Offices tested positive for Faecal coliform. These bacteria are pathogenic (disease forming) in nature and the water is not safe for human consumption. It is recommended to investigate the source of contamination and chlorinate the water for total disinfection. **DO NOT DRINK THIS WATER.**
- c.) Sample DS14/3/18: Municipal Offices does not comply with the limit for E.coli in drinking water as set out in the SANS 241:2015 standard. These bacteria are pathogenic (disease forming) in nature and the water is not safe for human consumption. It is recommended to investigate the source of contamination and chlorinate the water for total disinfection. **DO NOT DRINK THIS WATER.**

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

SANS
241-1
Edition 2
2015