



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:

23-Aug-18

Date Analyzed:

23-Aug-18

Date Reported:

25-Aug-18

Quantity Analyzed:

12

Ref No: H 993 - 1004 / 18 B

LAB REF ID	LAB NO	SAMPLE NAME	STERILIZED BOTTLE		STANDARD LIMITS				
					≤ 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	
		DULLSTROOM	YES	NO		A / B			
D	H 993	DS1/8/18: Dullstroom Waterworks Inlet	x		>2420	B	5	1	470
D	H 994	DS3/8/18: Dullstroom Waterworks Final	x		Nil	B	Nil	Nil	9
S	H 995	DS8/8/18: Dullstroom Sewerworks Final	x		-	B	Nil	-	-
D	H 996	DS10/8/18: Sakhelwe Clinic	x		Nil	B	Nil	Nil	6
D	H 997	DS11/8/18: Cosmo General Dealer	x		Nil	B	Nil	Nil	4
D	H 998	DS12/8/18: Sakhelwe Creche'	x		Nil	B	Nil	Nil	3
D	H 999	DS13/8/18: La Bamba Centre	x		Nil	B	Nil	Nil	109
D	H 1000	DS14/8/18: Municipal Offices	x		Nil	B	Nil	Nil	171
D	H 1001	DS15/8/18: SA Epilepsy Centre	x		Nil	B	Nil	Nil	740
D	H 1002	DS16/8/18: Sakhelwe Reservoir	x		Nil	B	Nil	Nil	10
D	H 1003	DS18/8/18: Dullstroom Reservoir	x		Nil	B	Nil	Nil	241
METHOD USED					A- SANAS 5221 OR B - COLILERT (MPN)		SANS 5221	COLILERT (MPN)	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 species : 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:

- Samples DS3/8/18: Dullstroom Waterworks Final, DS10/8/18: Sakhelwe Clinic, DS11/8/18: Cosmo General Dealer, DS12/8/18: Sakhelwe Creche', DS13/8/18: La Bamba Centre, DS14/8/18: Municipal Offices, DS15/8/18: SA Epilepsy Centre, DS16/8/18: Sakhelwe Reservoir complies with the SANS 241:2015 microbiological drinking water standard for the tested parameters. The water is bacteriologically suitable for domestic use.
- Sample DS1/8/18: Dullstroom Waterworks Inlet 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.
- Sample DS1/8/18: Dullstroom Waterworks Inlet 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

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