



4 Woltemade Street  
P.O. Box 8328  
WITBANK 1035  
Tel.: 013-690-1487  
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E-mail: regenlab@mweb.co.za

**MICROBIOLOGICAL ANALYSIS  
TEST REPORT**

Sample From: Nkangala District Municipality Municipal Health Services  
Emakhazeni Town Council

Address: Posbus 437  
Walter Sisulu  
Middelburg  
1050

Date Received: 09 April 2019  
Date Analyzed: 09 April 2019  
Date Reported: 11 April 2019  
Quantity Analyzed: 12

Attention: Marianne Joubert  
Solly Links

E-Mail : [marianne.joubert2011@gmail.com](mailto:marianne.joubert2011@gmail.com)

Ref No: D 416 - 427 / 19 B

LAB REF ID	LAB NUMBER	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	D 416	NDS1/4/19: Dullstroom Waterworks Inlet	x		5	B	Nil	Nil	8
D	D 417	NDS3/4/19: Dullstroom Waterworks Final	x		Nil	B	Nil	Nil	10
S	D 418	NDS8/4/19: Dullstroom Sewerworks Final	x		-	B	Nil	-	-
D	D 419	NDS10/04/19: Sakhelwe Clinic	x		66	B	Nil	Nil	110
D	D 420	NDS11/4/19: Sakhelwe Community Hall	x		11	B	Nil	Nil	78
D	D 421	NDS12/4/19: Sakhelwe Creche'	x		Nil	B	Nil	Nil	29
D	D 422	NDS13/4/19: La Bomba Centre	x		Nil	B	Nil	Nil	24
D	D 423	NDS14/4/19: Municipal Offices	x		Nil	B	Nil	Nil	14
D	D 424	NDS15/4/19: SA Epilepsy Centre	x		Nil	B	Nil	Nil	15
D	D 425	NDS16/4/19: Sakhelwe Reservoir	x		Nil	B	Nil	Nil	21
D	D 426	NDS18/4/19: Dullstroom Reservoir	x		Nil	B	Nil	Nil	38
METHOD USED					A- SANAS 5221 (CFU) OR B - COLILERT (MPN)	SANS 5221 (CFU)	COLILERT (MPN)	SANS 5221 (CFU)	
REGEN WATERS METHOD: MLPM 4A AND 4B.									

**S.A.N.S. 241:2015 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.

**SANS 241  
2015**

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 NDS10/04/19: Sakhelwe Clinic and NDS11/4/19: Sakhelwe Community Hall have Total Coliform counts not within the SANS 241:2015 limit. These bacteria are not pathogenic (disease forming) but it is advised to chlorinate these water samples for total disinfection.
- b.) Samples NDS1/4/19: Dullstroom Waterworks Inlet, NDS3/4/19: Dullstroom Waterworks Final, NDS12/4/19: Sakhelwe Creche', NDS13/4/19: La Bomba Centre, NDS14/4/19: Municipal Offices, NDS15/4/19: SA Epilepsy Centre, NDS16/4/19: Sakhelwe Reservoir complies with the SANS 241:2015 microbiological drinking water standard for the tested parameters. These water samples are bacteriologically suitable for domestic use.



(PTY) LTD 2018/379064/07  
**REGEN WATERS**  
 LABORATORY • LABORATORIUM

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		<b>BELFAST</b>	YES	NO		A / B			
D	D 427	NBF22/4/19: HA Grove Hospital	X		165	B	Nil	Nil	46
METHOD USED					A- SANAS 5221 (CFU) OR B - COLILERT (MPN)	SANS 5221 (CFU)	COLILERT (MPN)	SANS 5221 (CFU)	
REGEN WATERS METHOD: MLPM 4A AND 4B.									

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REMARKS:

- a.) Sample NBF22/4/19: HA Grove Hospital has a Total Coliform count not within the SANS 241:2015 limit. These bacteria are not pathogenic (disease forming) but it is advised to chlorinate the water for total disinfection.

P.L.G UYS / A.KOHRIS  
 Technical Signatory