



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

4 Woltemade Street
 P.O. Box 8328
 WITBANK 1035
 Tel.: 013-690-1487
 Fax: 013-656-5050
 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

Attention: Marianne Joubert

Solly Links

E-Mail : marianne.joubert2011@gmail.com

Ref No: B 1196 - 1242 / 19 B

Date Received: 27 February 2019

Date Analyzed: 27 February 2019

Date Reported: 01 March 2019

Quantity Analyzed: 47

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	ESCHERICHIA COLIFORM PER 100 ML	HETEROTROPHIC PLATE COUNT PER 1.0 ML	
MACHADODORP					YES	NO				
D	D 1196	NMH1/2/19:Machado Waterworks Inlet	x		>2420	B	150	120	1570	
D	D 1197	NMH3/2/19:Machado Waterworks Final	x		Nil	B	Nil	Nil	19	
S	D 1198	NMH5/2/19: Emthonjeni Sewerworks Final	x		-	B	>1000	-	-	
D	D 1199	NMH5/2/19: Leeuwspruit Before Sewer	x		>200	B	90	74	481	
D	D 1200	NMH7/2/19: Leeuwspruit After Sewer	x		>200	B	190	165	490	
D	D 1201	NMH14/2/19: Emthonjeni Clinic	x		5	B	Nil	Nil	130	
D	D 1202	NMH18/2/19: Emthonjeni Library	x		10	B	Nil	Nil	200	
D	D 1203	NMH16/2/19: Emakazeni Housing Units	x		Nil	B	Nil	Nil	101	
D	D 1204	NMH17/2/19: Machado Clinic	x		2	B	Nil	Nil	21	
D	D 1205	NMH18/2/19: Highway Nissan Garage	x		3	B	Nil	Nil	25	
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 NMH5/2/19: Leeuwspruit Before Sewer and NMH7/2/19: Leeuwspruit After Sewer tested positive for pathogenic bacteria (E.Coli/ Faecal coliform bacteria). These bacteria are disease forming and the water samples are not safe for human consumption. It is recommended to investigate the source of contamination and chlorinate these water samples for total disinfection. **DO NOT DRINK THIS WATER.**
- b.) Samples NMH3/2/19:Machado Waterworks Final, NMH14/2/19: Emthonjeni Clinic, NMH18/2/19: Emthonjeni Library , NMH16/2/19: Emakazeni Housing Units, NMH17/2/19: Machado Clinic, NMH18/2/19: Highway Nissan Garage complies with the SANS 241:2015 microbiological drinking water standard for the tested parameters. These water samples are bacteriologically suitable for domestic use.

P.L.G UYS / A.KOHRIS

Technical Signatory

(A signed copy of this report is available)



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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: 27 February 2019

Date Analyzed: 27 February 2019

Date Reported: 01 March 2019

Quantity Analyzed: 47

Attention: Marianne Joubert

Solly Links

E-Mail : marianne.joubert2011@gmail.com

Ref No: B 1196 - 1242 / 19 B

LAB REF ID	LAB NUMBER	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	
		MACHADODORP	YES	NO		A / B			
D	D 1206	NMH19/2/19: Machado Police Station	X		1	B	Nil	Nil	30
D	D 1207	NMH20/2/19: Cement Reservoir	X		2	B	Nil	Nil	37
D	D 1208	NMH21/2/19: Steeltank	X		59	B	30	29	74
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:

- Sample NMH21/2/19: Steeltank tested positive for pathogenic bacteria (E.Coli/ Faecal coliform bacteria). These bacteria are disease forming 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.**
- Samples NMH19/2/19: Machado Police Station, NMH20/2/19: Cement Reservoir complies with the SANS 241:2015 microbiological drinking water standard for the tested parameters. These water samples are bacteriologically suitable for domestic use.

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

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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: 27 February 2019
 Date Analyzed: 27 February 2019
 Date Reported: 01 March 2019
 Quantity Analyzed: 47

Attention: Marianne Joubert
 Solly Links
 E-Mail : marianne.joubert2011@gmail.com
 Ref No: B 1196 - 1242 / 19 B

LAB REF ID	LAB NUMBER	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	
		WATERVALBOVEN	YES	NO		A / B			
D	D 1209	NWB1/2/19: Watervalboven Waterworks Inlet	X		>2420	B	850	727	1543
D	D 1210	NWB3/2/19: Watervalboven Waterworks Final	X		Nil	B	Nil	Nil	16
S	D 1211	NWB8/2/19: Watervalboven Sewerworks Final	X		-	B	>1000	Nil	-
D	D 1212	NWB10/2/19: Stand P118 (602)	X		Nil	B	Nil	Nil	20
D	D 1213	NWB11/2/19: Khayalami Service Centre	X		Nil	B	Nil	Nil	17
D	D 1214	NWB12/2/19: Vulingcondo Stimulation Centre	X		Nil	B	Nil	Nil	43
D	D 1215	NWB13/2/19: Boven Municipality Clinic	X		Nil	B	Nil	Nil	316
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.
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- Samples highlighted in grey are not within the limits as specified.

REMARKS:

- Sample NWB1/2/19: Watervalboven Waterworks Inlet tested positive for pathogenic bacteria (E.Coli/ Faecal coliform bacteria). These bacteria are disease forming 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.**
- Samples NWB3/2/19: Watervalboven Waterworks Final, NWB10/2/19: Stand P118 (602), NWB11/2/19: Khayalami Service Centre, NWB12/2/19: Vulingcondo Stimulation Centre, NWB13/2/19: Boven Municipality Clinic complies with the SANS 241:2015 microbiological drinking water standard for the tested parameters. These water samples are bacteriologically suitable for domestic use.

P.L.G UYS / A.KOHRIS

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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

Attention: Marianne Joubert

Solly Links

E-Mail : marianne.joubert2011@gmail.com

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Quantity Analyzed: 47

Ref No: B 1196 - 1242 / 19 B

LAB REF ID	LAB NUMBER	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
		WATERVALBOVEN	YES	NO		A / B		
D	D 1216	NWB14/2/19: Nkangala FET	X		Nil	B	Nil	5
D	D 1217	NWB15/2/19: Silverdays Old Age Home	X		Nil	B	Nil	143
D	D 1218	NWB16/2/19: Boven Reservoir	X		Nil	B	Nil	27
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 NWB14/2/19: Nkangala FET, NWB15/2/19: Silverdays Old Age Home, NWB16/2/19: Boven Reservoir complies with the SANS 241:2015 microbiological drinking water standard for the tested parameters. These water samples are bacteriologically suitable for domestic use.

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Address: Posbus 437
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 Ref No: B 1196 - 1242 / 19 B

LAB REF ID	LAB NUMBER	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	
		BELFAST	YES	NO		A / B			
D	D 1219	NBF1/2/19: Belfast Waterworks Inlet	x		649	B	10	5	589
D	D 1220	NBF3/2/19: Belfast Waterworks Final	x		200	B	Nil	Nil	189
S	D 1221	NBF8/2/19: Belfast Sewerworks Final	x		-	B	820	-	-
D	D 1222	NBF10/2/19: Siyathuthuka Clinic	x		Nil	B	Nil	Nil	7
D	D 1223	NBF11/2/19: Leratong Creche'	x		18	B	Nil	Nil	19
D	D 1224	NBF12/2/19: Siyathuthuka Community Hall	x		>200	B	Nil	Nil	237
METHOD USED					A- SANAS 5221 (CFU) OR B - COLILERT (MPN)	SANS 5221 (CFU)	COLILERT (MPN)	SANS 5221 (CFU)	
REGEN WATERS METHOD: MLPMP 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 NBF11/2/19: Leratong Creche', NBF12/2/19: Siyathuthuka Community Hall, NBF15/2/19: HA Grove Hospital, NBF14/2/19: Bottom End Liquor Store, NBF15/2/19: Belfast Old Age Home, NBF18/2/19: Belfast Old Reservoir and NBF20/2/19: Belfast New Reservoir 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.
- a.) Sample NBF1/2/19: Belfast Waterworks Inlet tested positive for pathogenic bacteria (E.Coli/ Faecal coliform bacteria). These bacteria are disease forming 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.**
- a.) Samples NBF10/2/19: Siyathuthuka Clinic, NBF16/2/19: Siyathuthuka Reservoir complies with the SANS 241:2015 microbiological drinking water standard for the tested parameters. These water samples are bacteriologically suitable for domestic use.

P.L.G UYS / A.KOHR

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Sample From: Nkangala District Municipality Municipal Health Services
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Address: Posbus 437

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Ref No: B 1196 - 1242 / 19 B

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LAB REF ID	LAB NUMBER	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				
		BELFAST							
D	D 1225	NBF15/2/19: HA Grove Hospital	X		53	B	Nil	Nil	59
D	D 1226	NBF14/2/19: Bottom End Liquor Store	X		118	B	Nil	Nil	187
D	D 1227	NBF15/2/19: Belfast Old Age Home	X		83	B	Nil	Nil	93
D	D 1228	NBF16/2/19: Siyathuthuka Reservoir	X		Nil	B	Nil	Nil	12
D	D 1229	NBF18/2/19: Belfast Old Reservoir	X		101	B	Nil	Nil	129
D	D 1230	NBF20/2/19: Belfast New Reservoir	X		118	B	Nil	Nil	148
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 NBF15/2/19: HA Grove Hospital, NBF14/2/19: Bottom End Liquor Store, NBF15/2/19: Belfast Old Age Home, NBF18/2/19: Belfast Old Reservoir and NBF20/2/19: Belfast New Reservoir 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.) Sample NBF16/2/19: Siyathuthuka 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 / A.KOHRIS

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**MICROBIOLOGICAL ANALYSIS
 TEST REPORT**

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

Address: Posbus 437
 Walter Sisulu
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 1050

Date Received: 27 February 2019
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Attention: Marianne Joubert
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 Ref No: B 1196 - 1242 / 19 B

LAB REF ID	LAB NUMBER	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		
		DULLSTROOM	YES	NO	A / B					
D	D 1231	NDS1/02/19: Dullstroom Waterworks Inlet	x			687	B	9	6	650
D	D 1232	NDS3/2/19: Dullstroom Waterworks Final	x			1	B	Nil	Nil	12
D	D 1233	NDS8/2/19: Dullstroom Sewerworks Final	x			-	B	>1000	-	-
D	D 1234	NDS10/2/19: Sakhelwe Clinic	x			Nil	B	Nil	Nil	13
D	D 1235	NDS11/2/19: Sakhelwe Community Hall	x			Nil	B	Nil	Nil	10
D	D 1236	NDS12/2/19: Sakhelwe Creche'	x			1	B	Nil	Nil	9
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.

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 NDS1/02/19: Dullstroom Waterworks Inlet and NDS8/2/19: Dullstroom Sewerworks Final tested positive for pathogenic bacteria (E.Coli/ Faecal coliform bacteria). These bacteria are disease forming and the water samples are not safe for human consumption. It is recommended to investigate the source of contamination and chlorinate these water samples for total disinfection. **DO NOT DRINK THIS WATER.**
- b.) Samples NDS3/2/19: Dullstroom Waterworks Final, NDS10/2/19: Sakhelwe Clinic, NDS11/2/19: Sakhelwe Community Hall, NDS12/2/19: Sakhelwe Creche' complies with the SANS 241:2015 microbiological drinking water standard for the tested parameters. These water samples are bacteriologically suitable for domestic use.

**SANS 241
 2015**

P.L.G UYS / A.KOHRNS
 Technical Signatory
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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: 27 February 2019
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Attention: Marianne Joubert
Solly Links
E-Mail : marianne.joubert2011@gmail.com
Ref No: B 1196 - 1242 / 19 B

LAB REF ID	LAB NUMBER	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	
		DULLSTROOM	YES	NO		A / B			
D	D 1237	NDS13/2/19: LaBamba Centre	X		1	B	Nil	Nil	21
D	D 1238	NDS14/2/19: Municipal Offices	X		Nil	B	Nil	Nil	19
D	D 1239	NDS15/2/19: SA Epilepsy Centre	X		1	B	Nil	Nil	5
D	D 1240	NDS16/2/19: Sakhelwe Reservoir	X		1	B	Nil	Nil	58
D	D 1241	NDS18/2/19: Dullstroom Reservoir	X		1	B	Nil	Nil	80
D	D 1242	NDS20/2/19: Norman Du Rand Borehole	X		Nil	B	Nil	Nil	60
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 NDS13/2/19: LaBamba Centre, NDS14/2/19: Municipal Offices, NDS15/2/19: SA Epilepsy Centre, NDS16/2/19: Sakhelwe Reservoir, NDS18/2/19: Dullstroom Reservoir, NDS20/2/19: Norman Du Rand Borehole complies with the SANS 241:2015 microbiological drinking water standard for the tested parameters. These water samples are bacteriologically suitable for domestic use.

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

(A signed copy of this report is available)