



(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

Date Received: 15 March 2019  
 Date Analyzed: 15 March 2019  
 Date Reported: 17 March 2019  
 Quantity Analyzed: 11

Attention: Marianne Joubert  
 Solly Links  
 E-Mail : [marianne.joubert2011@gmail.com](mailto:marianne.joubert2011@gmail.com)  
 Ref No: C 820 - 830 / 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	ESCHERICHIA COLIFORM PER 100 ML	HETEROTROPHIC PLATE COUNT PER 1.0 ML	
		<b>MACHADODORP</b>	YES	NO		A / B			
D	C 820	NMH1/3/19: Waterworks Inlet	X		1986	B	90	53	1284
D	C 821	NMH3/3/19: Waterworks Outlet	X		Nil	B	Nil	Nil	3
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.) Sample NMH3/3/19: Waterworks Outlet 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.KOHR

Technical Signatory

( A signed copy of this report is available )

SANS 241  
 2015



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		<b>WATERVALBOVEN</b>	YES	NO		A / B			
D	C 822	NWB1/3/19: Waterworks Inlet	X		>2420	B	TNTC	1733	1450
D	C 823	NWB3/3/19: Waterworks Outlet Final	X		Nil	B	Nil	Nil	4
D	C 824	NWB10/3/19: P118 Stand Tap	X		Nil	B	Nil	Nil	5
D	C 825	NWB12/3/19: Vuling Condo STC Tap	X		Nil	B	Nil	Nil	27
D	C 826	NWB13/3/19: Boven Municipal Offices Tap	X		Nil	B	Nil	Nil	40
D	C 827	NWB14/3/19: Nkangala College Tap	X		Nil	B	Nil	Nil	14
D	C 828	NWB15/3/19: Silwerdae Old Age Home	X		Nil	B	Nil	Nil	1
D	C 829	NWB16/3/19: Boven Reservoir	X		Nil	B	Nil	Nil	3
D	C 830	NWB11/3/19: SL Tap	X		Nil	B	Nil	Nil	2
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:

- Sample NWB1/3/19: 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 NWB3/3/19: Waterworks Outlet Final, NWB10/3/19: P118 Stand Tap, NWB12/3/19: Vuling Condo STC Tap, NWB13/3/19: Boven Municipal Offices Tap, NWB14/3/19: Nkangala College Tap, NWB15/3/19: Silwerdae Old Age Home, NWB16/3/19: Boven Reservoir, NWB11/3/19: SL Tap 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

SANS 241  
 2015