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### MICROBIOLOGICAL ANALYSIS TEST REPORT

Sample From: EMAKHAZENI LOCAL MUNICIPALITY

Address: P O Box 17  
Belfast  
1100

Date Received: 11 March 2019  
Date Analyzed: 11 March 2019  
Date Reported: 13 March 2019  
Quantity Analyzed: 3

Attention: Marianne Joubert  
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Ref No: C 416 - 418 / 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	
		<b>BELFAST</b>	YES	NO		A / B			
D	C 416	EBF1/3/19: Belfast Waterworks Inlet	x		>2420	B	30	16	1292
D	C 417	EBF3/3/19: Belfast Waterworks Final	x		Nil	B	Nil	Nil	6
S	C 418	EBF8/3/19: Belfast Sewerworks Final	x		-	B	>1000	-	-
METHOD USED					A- SANAS 5221 (CFU) OR B - COLILERT (MPN)		SANS 5221 (CFU)	COLILERT (MPN)	SANS 5221 (CFU)
REGEN WATERS METHOD : MLPM 4A AND 4 B									

#### 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:

- Sample EBF3/3/19: Belfast Waterworks Final complies with the SANS 241:2015 microbiological drinking water standard for the tested parameters. The water is bacteriologically suitable for domestic use.
- Sample EBF1/3/19: 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.

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

SANS 241  
2015