



CK. 89/14418/23  
**REGEN WATERS**  
 LABORATORY • LABORATORIUM

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**MICROBIOLOGICAL ANALYSIS  
 TEST REPORT**

Sample From:

**EMAKHAZENI LOCAL  
 MUNICIPALITY**

Address: **P O Box 17  
 Belfast  
 1100**

Date Received: 23-Nov-18

Date Analyzed: 23-Nov-18

Date Reported: 25-Nov-18

Quantity Analyzed: 33

Ref No: **K 1447 - 1448 / 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	
		<b>BELFAST</b>	YES	NO		A / B			
D	K 1447	EABF1/11/18: Belfast Landfill Borehole 5	X		>2420	B	8	1	1380
D	K 1448	EABF3/11/18: Belfast Landfill Borehole 4	X		>2420	B	6	1	1330
METHOD USED					A - SANAS 5221 (CFU) OR B - COLILERT (MPN)	SANS 5221	COLILERT (MPN)	SANS 5221	
REGEN WATERS METHOD : MLPM 4A AND 4 B									

**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 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 EABF1/11/18: Belfast Landfill Borehole 5 and EABF3/11/18: Belfast Landfill Borehole 4 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.**

P.L.G UYS / A. KOHRS

Technical Signatory

( A signed copy of this report is available )

**SANS**  
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