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## Certificate of Chemical Analysis

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<b>CSIR REFERENCE:</b> 09269 <b>DATE RECEIVED:</b> 07/12/2009 <b>DATE COMPLETED:</b> 17/12/2009 <b>SAMPLE DESCRIPTION:</b> WATER <b>ORDER NUMBER:</b> CASH		
<b>DETERMINAND</b>	<b>UNITS</b>	<b>1 (Mineral Water)</b>
pH @ 24 °C		8.09
Conductivity @ 22.2°C	mS/m	16.6
Total Alkalinity	mg/L	72.5
Total Dissolved Solids	mg/L	152
Fluoride (dissolved)	mg F/L	0.340
Iron (Total dissolved)	mg Fe/L	0.018
Manganese (Total dissolved)	mg Mn/L	<0.007
Calcium (Total dissolved)	mg Ca/L	15.3
Magnesium (Total dissolved)	mg Mg/L	7.38
Potassium (Total dissolved)	mg K/L	1.39
Sodium (Total dissolved)	mg Na/L	7.07
Faecal coliform	Count/100ml	2
E.Coli	Count/100ml	2
Total coliforms	Count/100ml	2
<b>NAME:</b> Gary Parsons <b>TITLE :</b> Chemistry Signatory <b>NAME:</b> Fathima Bux <b>TITLE:</b> Microbiology Signatory	<b>SIGNATURE:</b> <i>G. Parsons.</i> <b>DATE:</b> 18/12/2009 <b>SIGNATURE:</b> <i>F. Bux</i> <b>DATE:</b> 18/12/2009	

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### Method details

Parameter	Method	Method No.
pH	pH electrode	MM-FW001
Conductivity	Potentiometry	MM-FW006
Total Alkalinity	Turbidimetric analysis	MM-FW002
Total dissolved solids	Drying of sample at 180°C	MM-FW003
Fluoride	Ion specific electrode determination	MM-FW012
Total dissolved metals	Filtration, acidification and analysis by ICP-OES	MM-FW035
Faecal coliforms and E.coli	Filtration using a 0.45 µm membrane filter, incubation on media and, if necessary, confirmation of E.coli.	MM-MIC003
Total coliforms	Filtration using a 0.45 µm membrane filter, incubation on media	MM-MIC002