

	Results	WHO Drinking Water limits	Limits Exceeded (Y/N)
Sample_ID	S26_2018		
Sampling date	06.05.2018		
Location ID	Cockle Park Farm		
Sample description	E - Borehole, 35m from A and 51m deep		
Sample Source	Borehole - Groundwater		
Label	BH		
Latitude	55.212075		
Longitude	-1.6851307		
Sea Level (mAOD)	90.32		
Depth below ground (m)	51		
pH			
Temp (degC)			
Salinity (ppm)			
TDS (mg/l)			
Conductivity (uS)			
Alkalinity (mg/L CaCO3)			
Faecal Coliforms (count/100ml)	10	0	Y
Aluminium (mg/l)	0.010	0.2	N
Ammonium (mg/l)	0.059	<i>Not of health concerns at levels found in drinking water</i>	N
Antimony (mg/l)	0.005	0.02	N
Arsenic (mg/l)	0.005	0.01	N
Barium (mg/l)	0.067	1.3	N
Bromide (mg/l)		6	N
Cadmium (mg/l)	0.000	0.003	N
Calcium (mg/l)	33.253	100-300	N
Chloride (mg/l)	32.166	250	N
Chromium (mg/l)	0.001	0.05	N
Copper (mg/l)	0.005	2	N
Fluoride (mg/l)	0.100	1.5	N

Iron (mg/l)	0.009	2	N
Lead (mg/l)	0.005	0.01	N
Magnesium (mg/l)	10.987	<i>Not of health concerns at levels found in drinking water</i>	N
Manganese (mg/l)	0.275	0.4	N
Nickel (mg/l)	0.008	0.07	N
Nitrate (mg/l) (HACH)	52.148	50	Y
Nitrate.1 (mg/l) (Ion Chrom)	39.806	50	N
Nitrite (mg/l) (HACH)	0.123	3	N
Nitrite.1 (mg/l) (Ion Chrom)	0.194	3	N
Phosphate (mg/l)	1.061	<i>Not of health concerns at levels found in drinking water</i>	N
Potassium (mg/l)	4.563	<i>Not of health concerns at levels found in drinking water</i>	N
Silicon (mg/l)	3.997	<i>Not of health concerns at levels found in drinking water</i>	N
Sodium (mg/l)	19.643	200	N
Strontium (mg/l)	0.150	4	N
Sulphate (mg/l)	41.998	500	N
Zinc (mg/l)	0.022	<i>Not of health concerns at levels found in drinking water</i>	N
TOC (mg/l)			
TIC (mg/l)			
UV abs 200 (cm-1)	3.062		
UV abs 210 (cm-1)	3.225		
UV abs 220 (cm-1)	2.748		
UV abs 230 (cm-1)	0.722		
UV abs 254 (cm-1)	0.019		
UV abs 260 (cm-1)	0.016		
UV abs 280 (cm-1)	0.014		
UV abs 300 (cm-1)	0.013		
Total Coliforms (total count)	185		

Putative Pathogens - Human E.coli (total count)			
Putative Pathogens - Total E.coli (total count)			
Putative Pathogens - Total Coliform (total count)			
Total Bacteria (total count)			
Enterococci (count/100ml)			
Contaminants	High faecal coliform count; High nitrate level;		
Health Effects	Faecal contamination can lead to vomiting and diarrhoea. Pathogens such as E coli, hepatitis and salmonella can cause severe health effects ; High Nitrate levels can lead to cyanosis, asphyxia and blue-baby syndrome in infants;		
Treatments	Faecal treatment - Heat water to a rolling boil and then allow to cool naturally, chemical disinfection, coagulation, distillation, reverse osmosis, slow sand filtration or solar disinfection; Nitrate can be reduced through ion exchange;		