

	Results	WHO Drinking Water limits	Limits Exceeded (Y/N)
Sample_ID	S29_2018		
Sampling date	29.05.2018		
Location ID	Cockle Park Farm		
Sample description	A - Central Borehole		
Sample Source	Borehole - Groundwater		
Label	BH		
Latitude	55.212013		
Longitude	-1.6856651		
Sea Level (mAOD)	91.19		
Depth below ground (m)	51		
pH			
Temp (degC)			
Salinity (ppm)			
TDS (mg/l)			
Conductivity (uS)			
Alkalinity (mg/L CaCO3)			
Faecal Coliforms (count/100ml)	0	0	N
Aluminium (mg/l)	0.011	0.2	N
Ammonium (mg/l)	0.135	<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)	0.137	1.3	N
Bromide (mg/l)		6	N
Cadmium (mg/l)	0.000	0.003	N
Calcium (mg/l)	17.541	100-300	N
Chloride (mg/l)	30.415	250	N
Chromium (mg/l)	0.001	0.05	N
Copper (mg/l)	0.001	2	N
Fluoride (mg/l)	0.776	1.5	N

Iron (mg/l)	0.004	2	N
Lead (mg/l)	0.005	0.01	N
Magnesium (mg/l)	6.903	<i>Not of health concerns at levels found in drinking water</i>	N
Manganese (mg/l)	0.729	0.4	Y
Nickel (mg/l)	0.002	0.07	N
Nitrate (mg/l) (HACH)	54.848	50	Y
Nitrate.1 (mg/l) (Ion Chrom)	33.630	50	N
Nitrite (mg/l) (HACH)	0.200	3	N
Nitrite.1 (mg/l) (Ion Chrom)	0.398	3	N
Phosphate (mg/l)	0.746	<i>Not of health concerns at levels found in drinking water</i>	N
Potassium (mg/l)	3.653	<i>Not of health concerns at levels found in drinking water</i>	N
Silicon (mg/l)	4.721	<i>Not of health concerns at levels found in drinking water</i>	N
Sodium (mg/l)	84.559	200	N
Strontium (mg/l)	0.110	4	N
Sulphate (mg/l)	20.128	500	N
Zinc (mg/l)	0.008	<i>Not of health concerns at levels found in drinking water</i>	N
TOC (mg/l)			
TIC (mg/l)			
UV abs 200 (cm-1)	3.059		
UV abs 210 (cm-1)	3.176		
UV abs 220 (cm-1)	2.618		
UV abs 230 (cm-1)	0.677		
UV abs 254 (cm-1)	0.013		
UV abs 260 (cm-1)	0.010		
UV abs 280 (cm-1)	0.008		
UV abs 300 (cm-1)	0.009		
Total Coliforms (total count)	189.5		

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 manganese level; High nitrate level;		
Health Effects	High manganese levels may cause taste to be affected; High Nitrate levels can lead to cyanosis, asphyxia and blue-baby syndrome in infants;		
Treatments	Manganese levels can be reduced using aeration or ion exchange; Nitrate can be reduced through ion exchange;		