	Results	WHO Drinking Water limits	Limits Exceeded (Y/N)
Sample_ID	S31_2018		
Sampling date	29.05.2018		
Location ID	Cockle Park Farm		
Sample description	D - Borehole, 30m from A and 51m deep		
Sample Source	Borehole - Groundwater		
Label	BH		
Latitude	55.212285		
Longitude	-1.6857617		
Sea Level (mAOD)	93.82		
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)	0.009	*0.2*	N
Ammonium (mg/l)	0.049	*Not of health concerns at levels found in drinking water*	N
Antimony (mg/l)	0.005	*0.02*	N
Arsenic (mg/l)	0.005	*0.01*	N
Barium (mg/l)	0.144	*1.3*	N
Bromide (mg/l)		*6*	N
Cadmium (mg/l)	0.000	*0.003*	N
Calcium (mg/l)	26.635	*100-300*	N
Chloride (mg/l)	31.197	*250*	N
Chromium (mg/l)	0.001	*0.05*	N
Copper (mg/l)	0.004	*2*	N
Fluoride (mg/l)	0.215	*1.5*	N

Iron (mg/l)	0.028	*2*	N
Lead (mg/l)	0.005	*0.01*	N
Magnesium (mg/l)	14.232	*Not of health concerns at levels found in drinking water*	N
Manganese (mg/l)	0.442	*0.4*	Y
Nickel (mg/l)	0.003	*0.07*	N
Nitrate (mg/l) *(HACH)*	78.155	*50*	Y
Nitrate.1 (mg/l) *(Ion Chrom)*	29.251	*50*	N
Nitrite (mg/l) *(HACH)*	0.112	*3*	N
Nitrite.1 (mg/l) *(Ion Chrom)*	0.169	*3*	N
Phosphate (mg/l)	0.521	*Not of health concerns at levels found in drinking water*	N
Potassium (mg/l)	3.843	*Not of health concerns at levels found in drinking water*	N
Silicon (mg/l)	4.863	*Not of health concerns at levels found in drinking water*	N
Sodium (mg/l)	15.609	*200*	N
Strontium (mg/l)	0.153	*4*	N
Sulphate (mg/l)	19.382	*500*	N
Zinc (mg/l)	0.014	*Not of health concerns at levels found in drinking water*	N
TOC (mg/l)			
TIC (mg/l)			
UV abs 200 (cm-1)	3.059		
UV abs 210 (cm-1)	3.221		
UV abs 220 (cm-1)	3.029		
UV abs 230 (cm-1)	0.975		
UV abs 254 (cm-1)	0.016		
UV abs 260 (cm-1)	0.012		
UV abs 280 (cm-1)	0.011		
UV abs 300 (cm-1)	0.012		
Total Coliforms (total count)	0		

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;		