



	Results	WHO Drinking Water limits	Limits Exceeded (Y/N)
Sample_ID	S7		
Sampling date	19.06.2019		
Location ID	Birtley WWTP		
Sample description	WWTP effluent		
Sample Source	Wastewater (treated)		
Label	WW		
Latitude	54.90472		
Longitude	-1.6021		
Sea Level (mAOD)			
Depth below ground (m)			
pH	7.48		
Temp (degC)			
Salinity (ppm)	351		
TDS (mg/l)	508		
Conductivity (uS)	722		
Alkalinity (mg/L CaCO3)	100		
Faecal Coliforms (count/100ml)	21000	0	Y
Aluminium (mg/l)	0.014	0.2	N

Ammonium (mg/l)	0.024	<i>Not of health concerns at levels found in drinking water</i>	N
Antimony (mg/l)	0.002	0.02	N
Arsenic (mg/l)	0.001	0.01	N
Barium (mg/l)	0.011	1.3	N
Bromide (mg/l)		6	N
Cadmium (mg/l)	0.000	0.003	N
Calcium (mg/l)	64.407	100-300	N
Chloride (mg/l)	72.876	250	N
Chromium (mg/l)	0.000	0.05	N
Copper (mg/l)	0.015	2	N
Fluoride (mg/l)	0.640	1.5	N
Iron (mg/l)	0.038	2	N
Lead (mg/l)	0.000	0.01	N
Magnesium (mg/l)	13.128	<i>Not of health concerns at levels found in drinking water</i>	N
Manganese (mg/l)	0.067	0.4	N
Nickel (mg/l)	0.014	0.07	N
Nitrate (mg/l) (HACH)	40.327	50	N
Nitrate.1 (mg/l) (Ion Chrom)	42.245	50	N
Nitrite (mg/l) (HACH)	0.273	3	N
Nitrite.1 (mg/l) (Ion Chrom)	0.833	3	N
Phosphate (mg/l)	6.454	<i>Not of health concerns at levels found in drinking water</i>	N
Potassium (mg/l)	17.833	<i>Not of health concerns at levels found in drinking water</i>	N
Silicon (mg/l)		<i>Not of health concerns at levels found in drinking water</i>	N
Sodium (mg/l)	58.249	200	N
Strontium (mg/l)	0.223	4	N

Sulphate (mg/l)	24.376	500	N
Zinc (mg/l)		<i>Not of health concerns at levels found in drinking water</i>	N
TOC (mg/l)	9.730		
TIC (mg/l)	23.010		
UV abs 200 (cm-1)	2.935		
UV abs 210 (cm-1)	3.092		
UV abs 220 (cm-1)	2.288		
UV abs 230 (cm-1)	0.737		
UV abs 254 (cm-1)	0.210		
UV abs 260 (cm-1)	0.186		
UV abs 280 (cm-1)	0.146		
UV abs 300 (cm-1)	0.109		
Total Coliforms (total count)	75000		
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)	1000		
Contaminants	High faecal coliform count;		
Health Effects	Faecal contamination can lead to vomiting and diarrhoea. Pathogens such as E coli, hepatitis and salmonella can cause severe health effects ;		

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;		
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