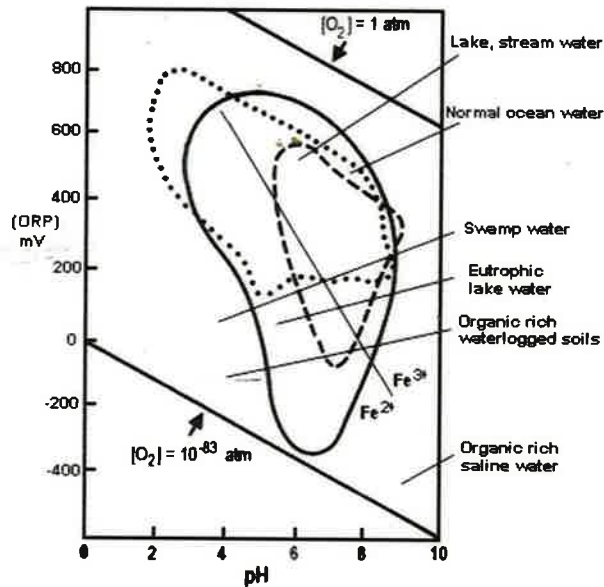
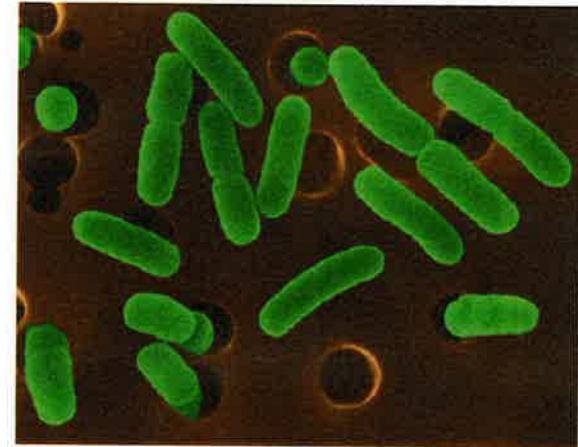


## Oxidation/Reduction Potential (ORP):

Measuring ORP is a simple way to determine the cleanliness of water and water's ability to break down unwanted contaminants. It is a measurement that is particularly useful in water treatment when treating for harmful bacteria, like fecal coliform.



Chlorine, Ozone, and Bromine are all effective oxidizers that will raise the ORP of water to enable disinfection or sterilization. Specific biological reactions and their associated ORP values

Biochemical Reaction or effect on water	ORP Values, mV
Water sterilization	>+800
Water disinfection	>+600
Nitrification	+100 to +350
Bio Oxygen Demand Degradation	+50 to +250
Biological phosphorous removal	+25 to +250
Denitrification	-50 to +50
Hydrogen Sulfide formation (rotten egg smell)	-250 to -50
Biological phosphorous release	-225 to -100
Acid formation (fermentation)	-250 to -100
Methane Production	-400 to -175