













Microbial Quality: Guideline: Free available chlorine (Residual)

FREE AVAILABLE CHLORINE (MG/L)	DRINKING		FOOD PREPARATION 	BATHING 	LAUNDRY 
	(Health) 	(Aesthetics) 			
<0.05	Serious risk of infection if raw water source microbiologically contaminated	No effects	Serious risk of infection if raw water source microbiologically contaminated	Risk of infection if raw water source microbiologically contaminated	No effects
0.05 -0.1	Disinfection may be compromised	No effects	Disinfection may be compromised	Slight risk of infection	No effects
0.1-0.2	Slight risk of infection	No effects	Slight risk of infection	Insignificant risk of infection	No effects
0.2-0.3	Insignificant risk of infection, disinfection adequate	Slight odour	Insignificant risk of infection, disinfection adequate	No health risks	No effects
0.3-0.6	Disinfection good	Slight odour	Disinfection good	No health risks	No effects
0.6-0.8	Disinfection good; insignificant risk of health effects	Marked odour and disinfectant taste	Disinfection good; insignificant risk of health effects	No health effects, marked odour	Insignificant effects
0.8-1.0	Slight risk of mucous membrane irritation	Unpleasant odour and taste	Slight risk of mucous membrane irritation	Unpleasant odour and taste	Insignificant effects

1.0-1.5	May cause nausea and mucous membrane irritation	Unpleasant odour and taste	May cause nausea and mucous membrane irritation	May cause skin rashes; unpleasant odour	Bleaching action on some dyes
>1.5	Danger of toxic effects, nausea and vomiting	Repulsive odour and taste	Danger of toxic effects, nausea and vomiting at high concentrations	Danger of toxic effects and severe skin irritation	Bleaching action on coloured clothing at high concentrations

	Blue - Ideal		Green - Good		Yellow - Marginal
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	Red - Poor		Purple – Completely unacceptable*
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\*Not to be used without treatment

DWAF (1998). Quality of domestic water supplies. Volume 1: Assessment Guide. WRC No. TT 101/98, p. 53.