

## POOL WATER TESTING HELP SHEET

### Chemical Parameters

CHLORINATION of a PUBLIC POOL and SPA POOL: CHEMICAL PARAMETERS								
TYPE OF POOL	Minimum Free Cl <sub>2</sub> (mg/L)	Total Cl <sub>2</sub> (mg/L)	Combined Cl <sub>2</sub> (Chloramines)	pH	Alkalinity (mg/L as CaCO <sub>3</sub> )	Isocyanuric Acid (mg/L)	Ozone (mg/L)	ORP
Outdoor	1.0	<10.0	<1.0	7.0 – 7.8	80 - 200	N/A	0.0	720 mV
Outdoor (pH > 7.6)	2.0	<10.0	<1.0	7.0 – 7.8	80 - 200	N/A	0.0	720 mV
Outdoor stabilised with isocyanuric acid	3.0	<10.0	<0.1	7.0 – 7.8	80 - 200	< 50	0.0	720 mV
Outdoor stabilised with isocyanuric acid (pH > 7.6)	4.0	<10.0	<0.1	7.0 – 7.8	80 - 200	<50	0.0	720 mV
Indoor	2.0	<10.0	<1.0	7.0 – 7.8	80 - 200	N/A	0.0	720 mV
Indoor (pH > 7.6)	3.0	<10.0	<1.0	7.0 – 7.8	80 - 200	N/A	0.0	720 mV
Spa	2.0	<10.0	<1.0	7.0 – 7.8	80 - 200	N/A	0.0	720 mV
Spa (pH > 7.6)	3.0	<10.0	<1.0	7.0 – 7.8	80 - 200	N/A	0.0	720 mV

BROMINATION of a PUBLIC POOL and POOL SPA: CHEMICAL PARAMETERS					
TYPE OF POOL	Minimum Br <sub>2</sub> (mg/L)	Maximum Br <sub>2</sub> (mg/L)	pH	Alkalinity (mg/L as CaCO <sub>3</sub> )	ORP
Outdoor	2.25	9	7.0 – 8.0	80 - 200	700 mV
Indoor	4.5	9	7.0 – 8.0	80 - 200	700 mV
Spa	4.5	9	7.0 – 8.0	80 - 200	700 mV

**Testing Frequency**

Public Pools must be sampled daily and records kept available for at least 6 months. It is advisable that the testing frequency be increased beyond the minimum requirements described below in response to increased bathing load, increased outdoor temperature, shallower pool depth, and longer hours of operation.

<b>Continuous Metered Disinfectant Dosing System</b> <i>Delivers the disinfectant in a controlled continuous and steady rate (e.g. salt water pool).</i>	
<b>Test</b>	<b>Frequency</b>
<b>Free Chlorine</b>	<i>Once per day</i>
<b>Total Chlorine</b>	<i>Once per day</i>
<b>pH</b>	<i>Once per day</i>
<b>Alkalinity</b>	<i>Once per day</i> If sodium hypochlorite (liquid chlorine) or carbon dioxide pH control are used, alkalinity only needs to be tested once per month.
<b>Cyanuric Acid (Stabiliser)</b>	<i>Once per week</i> Cyanuric acid must not be used in an indoor pool or spa.
<b>Ozone</b>	<i>Once per week</i> If used in the disinfection process, ozone must be tested to ensure it is not present in the pool.

<b>Automated Disinfectant Dosing System</b> <i>Uses probes to detect disinfectant levels or activity and make automatic adjustments to the rate the chlorine is dosed.</i>	
<b>Test</b>	<b>Frequency</b>
<b><u>System Reading</u></b> - <b>Disinfectant Level</b> (ORP/Free Chlorine) - <b>pH</b>	<i>Twice per day</i> Once each day before the pool opens for use and again during the period in which the pool is operated.
<b><u>Manual Test</u></b> <b>pH</b> <b>Free Chlorine</b> <b>Total Chlorine</b>	<i>Once per day</i>
<b>Alkalinity</b>	<i>Once per day</i> If sodium hypochlorite (liquid chlorine) or carbon dioxide pH control are used, alkalinity only needs to be tested once per month.
<b>Cyanuric Acid (Stabiliser)</b>	<i>Once per week</i> Cyanuric acid must not be used in an indoor pool or spa.
<b>Ozone</b>	<i>Once per week</i> If used in the disinfection process, ozone must be tested to ensure it is not present in the pool.