

**WAC 246-260-999 Appendix A—Water quality standards.**

**Table 111.1  
Minimum and Maximum Levels of Disinfectant  
(ppm) \***

<b>SWIMMING POOL: ***</b>	<b>Minimum</b>
Chlorine	1.5
Chlorine with cyanurate compound	2.0
Bromine	2.5

  

<b>SPA &amp; WADING POOL: ***</b>	<b>Minimum</b>
Chlorine	3.0
Chlorine with cyanurate compound	3.5
Bromine	4.0

- \* Chlorine is measured as free available chlorine residual.
- \*\* Recirculating spray pools and sensory deprivation tanks shall meet spa and wading pool levels.
- \*\*\* The maximum disinfectant level shall conform with manufacturers' recommendations and shall not exceed 10 ppm for any pool.

**Table 111.2  
Acceptable Ranges of Selected Chemical and  
Physical Water Quality Constituents**

<b>CHEMICAL OR PHYSICAL CONSTITUENT</b>	<b>MINIMUM</b>	<b>MAXIMUM</b>
pH (Hydrogen ion)	7.2	8.0
Water clarity (safety)	Main drain and pool bottom visible at all times	-
Turbidity (shielding microorganisms T.U.)*	-	0.5
Cyanuric acid or its derivatives	0	90 ppm
Temperature**	-	104°F
Combined chlorine	-	50% of free chlorine
Ozone***	-	.05
Ionizers (Copper/Silver)	-	1.0/.05

- \* In peak periods, turbidity may increase to 1.0 T.U. provided turbidity returns to 0.5 T.U. within a six-hour period following peak use. Turbidity is not a required routine analysis. The local health officer may require turbidity monitoring if special conditions warrant.
- \*\* A pool facility thermometer shall be provided when the water temperature exceeds 95 degrees Fahrenheit.
- \*\*\* Atmospheric measurement.

**Table 111.3  
Required Ranges of Accuracy and Incremental Readings for Field Test Kits**

<b>CHEMICAL TEST</b>	<b>MINIMUM TEST KIT RANGE</b>	<b>MINIMUM REQUIRED INCREMENTS ON KITS</b>	<b>MINIMUM ACCURACY</b>
<b>Free and total available chlorine and total bromine</b>	0.5 - 10.0 ppm*	These increments are required to be on the test kit: 0.5, 1.0, 1.5, 2.0, 3, 5, 6, 10 ppm	±50% of the difference of incremental readings

CHEMICAL TEST	MINIMUM TEST KIT RANGE	MINIMUM REQUIRED INCREMENTS ON KITS	MINIMUM ACCURACY
<b>pH (hydrogen ion)</b>	7.0 - 8.2	Maximum increments of 0.4, e.g., 7.0, 7.4, 7.8, 8.2, Preferred increments of 0.2, e.g., 7.0, 7.2.... 8.0, 8.2	±50% of the difference of incremental readings
<b>Cyanuric acid</b>	20 - 100 ppm	20 ppm	±10
<b>Alkalinity</b>	0 - 300 ppm	20 ppm	±10
<b>Temperature</b>	60 - 110°F	Shall have increments of less than or equal to 2°F, e.g., 60, 62, 64 ... 108, 110	±2°F

\*Operators who demonstrate the ability to accurately perform test kit dilutions may be allowed to use test kits with a chlorine range of 1.5 - 5.0 ppm, thereby using dilutions to read up to 10 ppm.

[Statutory Authority: Chapters 70.90 and 43.20 RCW. WSR 04-18-096, § 246-260-999, filed 9/1/04, effective 10/31/04.]