Clayton County Board of Health
Environmental Health
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Alpha Fowler Bryan, MD – District Health Director

Swimming Pool and Spa Calculations Worksheet

Name of Facility: _____

Address: _____

City: _____ **State:** _____ **Zip Code:** _____

Facility Representative: _____

Telephone Number: _____ **Fax Number:** _____

Type of Unit: ❒ **Swimming Pool** ❒ **Spa** ❒ **Falling Entry Pool** ❒ **Wading Pool**
❒ **Other:** _____

Certified Operator: _____ **Telephone Number:** _____

Surface Area:

Rectangle/Square = Length (ft.) x Width (ft.)
= _____ ft. x _____ ft.
Area = _____ ft.²

Circle = ¶ r²
= 3.14 x Radius (ft.) x Radius (ft.)
= 3.14 x _____ ft. x _____ ft.
Area = _____ ft.²

Triangle = Length (ft.) x Width (ft.) ÷ 2
= _____ ft. x _____ ft.
Area = _____ ft.²

For multi-sided units, divide the pool into known shapes and calculate the area for each individual shape. Then add the answers together to get the total surface area.

Depth:

Average Depth = (Shallow Depth (ft.) + Deep Depth (ft.)) ÷ 2
= (_____ ft. + _____ ft.) ÷ 2
Average Depth = _____ ft.

For units with more than one area (example - a diving well with a constant depth, two different sloped sections, etc.) perform the calculations for each.

Volume:

Volume = Surface Area (ft.²) x Average Depth (ft.) x 7.48 (gal./ft.³)
= _____ft.² x _____ft.² x 7.48 gal./ft.³
Volume = _____ gallons

For units with more than one area (examples - a diving well with a constant depth, two different sloped sections, etc.) perform the Average Depth calculation for each. Then, perform the Volume calculation for each section and add the answers together to get the total volume of the unit.