



PRINCE WILLIAM COUNTY
Department of Development Services – Building Development Division

COMMERCIAL POOL AND SPA CIRCULATION DESIGN FORM

Version 2017_0227

PROJECT NAME _____

ADDRESS _____

Staff Use Only
 BLD _____ - _____

Pool types (check all that apply): Main Pool Spa Wading Pool Other
 Water: Public (municipal) Well (private)
 Sewer: Public (municipal) Well (private)

PLEASE FILL OUT THE FOLLOWING INFORMATION THAT APPLIES:

Pool: Gallons _____ Flow Rate _____ GPM x 60 = _____ GPH
 Water Surface _____ Sq. ft. Turnover rate _____ HRS
 # Skimmers _____ Flow per Skimmer _____ GPM
 # Returns _____ Flow per Return _____ GPM
 # Main Drains _____ Flow per Main Drain _____ GPM
 Total Dynamic Head _____
 Gallons/ GPH = Turnover _____ / _____ = _____ HRS

Spa: Gallons _____ Flow Rate _____ GPM x 60 = _____ GPH
 Water Surface _____ Sq. ft. Turnover rate _____ HRS
 # Skimmers _____ Flow per Skimmer _____ GPM
 # Returns _____ Flow per Return _____ GPM
 # Main Drains _____ Flow per Main Drain _____ GPM
 Total Dynamic Head _____
 Gallons/ GPH = Turnover _____ / _____ = _____ HRS

Wading Pool: Gallons _____ Flow Rate _____ GPM x 60 = _____ GPH
 Water Surface _____ Sq. ft. Turnover rate _____ HRS
 # Skimmers _____ Flow per Skimmer _____ GPM
 # Returns _____ Flow per Return _____ GPM
 # Main Drains _____ Flow per Main Drain _____ GPM
 Total Dynamic Head _____
 Gallons/ GPH = Turnover _____ / _____ = _____ HRS

Other: Gallons _____ Flow Rate _____ GPM x 60 = _____ GPH
 Water Surface _____ Sq. ft. Turnover rate _____ HRS
 # Skimmers _____ Flow per Skimmer _____ GPM
 # Returns _____ Flow per Return _____ GPM
 # Main Drains _____ Flow per Main Drain _____ GPM
 Total Dynamic Head _____
 Gallons/ GPH = Turnover _____ / _____ = _____ HRS

Total water surface (sq.ft): MAIN + SPA + WADING + OTHER = _____ + _____ + _____ + _____ = _____
 TOTAL BATHER LOAD = $\frac{\text{Total water surface (sq.ft)}}{27}$ = _____