Town *of* Morrisville

Landscape Water Budget Calculations

Application Date:_____ Irrigation Contractor Name:_____

Permit Number:_____ Irrigation Contractor Phone Number:_____

Service Address:_____ Irrigation Contractor Fax Number:_____

Irrigation Landscaped :_____(s.f) Irrigation Contractor Email Address:_____

To determine approximate water needs for the property identified above, measure the irrigated area in square feet and multiply by the conversion factor for the applicable month. This formula calculates all water requirements as if turf were being irrigated throughout the site, giving the area its maximum allocation. Official notification of water allocations will be sent to the customer, pending review by Town of Cary staff.

Month	**Conversion Factor**	**X Landscaped Area (ft ²)**	**= Water Budget (gallons/month)**
March	0.82		
April	1.53		
May	1.57		
June	2.21		
July	2.30		
August	1.77		
September	1.25		
October	0.45		

**January, February, November, and December irrigation system should be winterized

Water Budget per month=Landscaped Area x Evapotranspiration Rate x Crop Coefficient x Conversion Factor x Irrigation Efficiency – Effective Rainfall

Landscaped Area = Area measured in square feet
Evapotranspiration Rate = Rate in which water is used to grow plants and crops. This term comes from evaporation (water loss by soil) and transpiration (water loss by plants).
Crop Coefficient = Factor to convert cubic feet into gallons (7.48)
Irrigation Efficiency = Factor used to adjust for the inability of an irrigation system to distribute water evenly over the area being measured. The minimum industry standard of 62.5% was used for this calculation.
Effective Rainfall = The amount of rainfall that is available to be used by plants. (60% of total rainfall)

****Please list the number of zones and type of sprinkler heads per zone in the chart below****

	Rotor	Spray	Drip
Number of Zones			