

Table 3.3-Peak Season Influent Flow and Concentration

Pigeon Forge Wastewater Treatment Plant
Influent Data- July- August 1999-2006

	Flow (MGD)	CBOD ₅		Suspended Solids	
		mg/L	lb	mg/L	lb
Average	3.3	269	6421	456	10592
Max	7.3	1458	37272	9120	199279
Min	1.8	46	1024	78	1702

As seen from the data, the seven year summer average flow exceeds 80% of the plant's design capacity of 4.0 MGD. In addition, the plant has experienced a seven day average dry weather flows greater than 3.9 MGD in four instances over the past seven years.

Combining data from the 2003 Wastewater System Study, monthly operating reports, and planning limits, design parameters are recommended in Table 3.4 for the new wastewater treatment plant.