
CHAPTER TWO

Load Estimation

2.1 INTRODUCTION

Sewer collection systems must be designed to safely convey anticipated peak discharges. During dry weather conditions, flows directly reflect water usage of the community and, therefore, can be expected to fluctuate significantly on an hourly, daily, or seasonal basis. For existing systems, the best data upon which to base sanitary sewer loads are actual records and flow measurements. In the absence of measured data, however, general guidelines exist for estimating flow rates. For storm and combined sewer systems, flows must be estimated based on a hydrologic analysis of excess precipitation and resulting runoff. Consider that for severe wet weather events, flow rates can increase by as much as a factor of 10^3 over the corresponding dry weather average.

2.2 DRY WEATHER LOAD ESTIMATION

Wastewater flows in sanitary sewers, and in combined sewers during dry weather periods, consist of three major components: (1) domestic wastewater, (2) industrial wastewater, and (3) infiltration and other inflows. Principal sources of domestic sanitary sewer loads are residential areas and commercial developments. Recreational and institutional facilities can contribute to large domestic loads as well. The average per capita domestic loading rate can be expected to vary between 50 and 265 gpd (190 and 1,000 Lpd) (ASCE, 1982). Peak daily flows, however, can range from two to four times greater than average daily flows. The wide range of flows reflects variations that can be caused by location, climate, community size, as well as related factors such as standard of living, water pricing, water quality, distribution system pressure, extent of meterage, and systems management (Fair et al., 1971). In the absence of measured data, Table 2-1 provides typical loading rates for various domestic sources. The design period throughout which the sewer capacity should be deemed adequate is between 25 and 50 years. Therefore, accurate population projections are essential in estimating future dry weather loads.

Industrial wastewater flows vary with the type and size of facility, as well as the degree of onsite treatment and reuse, if any. Typical values for facilities with little to no wet-process type industry range from 1,000 to 1,500 gpd/ac (9,350 to 14,020 Lpd/ha) for small developments and 1,500 to 3,000 gpd/ac (14,020 to 28,040 Lpd/ha) for medium-sized developments (Metcalf and Eddy,

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