



4.5 Sugar Creek

4.5.1 Introduction

The information presented in this sub-basin plan for Sugar Creek is intended to provide the reader with information necessary to understand the physical setting, methodology used, water quantity problems, results, alternatives evaluation, and recommendations. Section 2 of this study describes in greater details the general methodology, including data collection, engineering methods, and regional analysis. In general the Sugar Creek basin consists of the following sub-basins: One Mile Branch, Hightower Creek, Browns Canal and Sugar Creek. In this section we are focused on the Sugar Creek sub-basin and not the entire Sugar Creek basin.

4.5.2 Sub-basin Information

This section outlines information on the Sugar Creek Sub-basin infrastructure, and its ability to meet level of service requirements. The Sugar Creek Branch sub-basin extends from its confluence with Withlacoochee River in the north to Savannah Avenue in the south. The area of the sub-basin is approximately 2.5 sq mi (1,622 acres), which was divided into 16 hydrologic units ranging from 16 to 280 acres in size. The hydrologic unit boundaries and the In-stream PSWMS are shown on **Figure 4.5.1**. The HU delineation along with the areas and the loading node for each HU is shown in **Table 4.5.1**.

Table 4.5.1. Hydrologic Units: Area

Hydrologic Unit ID	Area (Acres)	Loading Node
HUSG17000	40.7	SG70050
HUSG17120	282.3	SG70120S
HUSG17150	242.6	SG70150S
HUSG17180	73.1	SG70180S
HUSG17185	175.4	SG70800APS
HUSG17190	62.8	SG70190
HUSG17330	106.2	SG70340
HUSG17370	23.7	SG70370S
HUSG17372	152.0	SG70375
HUSG17375	91.5	SG70700AP
HUSG17400	35.5	SG70400S
HUSG17420	16.7	SG70420AP
HUSG17435	97.1	SG70435AP
HUSG17445	57.6	SG70445AP
HUSG17450	112.7	SG70450AP
HUSG17500	51.4	SG70550
Total	1,621.5	