



The predominant land use in the sub-basin is Medium Density Residential, which accounts for little over 35 percent of the total land use, followed by Light Industrial, Commercial & Institutional. The land use categories along with their respective associated area and percentage for all of Sugar Creek sub-basin are shown in **Table 4.5.2**. The predominant soil within the sub-basin, almost 50 percent, is B. **Table 4.5.3** shows the soils breakdown based on HSG. The soil coverage, infiltration and storage capacity was based on the available data from the NRCS Lowndes County soil survey. Detailed discussion on the Soils and Land Use is available in the Methodology Section of the report.

The In-stream PSWMS consists of a main stem channel, which at its most downstream section confluences with the Withlacoochee River. Browns Canal, Hightower Creek, One Mile Branch and Two Mile Branch all confluence into Sugar Creek in that order, from upstream to downstream of Sugar Creek. A schematic showing the model representation (hydraulic network along with nodes) of the sub-basin is presented on **Figure 4.5.2.1**.

Table 4.5.2. Land Use

Land Use Category	Area (Acres)	Area (Percent)
Forest, Open & Park	272.7	16.8
Pasture	0.0	0.0
Agricultural	0.0	0.0
Low Density Residential	69.8	4.3
Medium Density Residential	594.9	36.7
High Density Residential	21.2	1.3
Light Industrial, Commercial & Institutional	393.9	24.3
Heavy Industrial & Roadways	255.1	15.7
Wetlands	0.0	0.0
Watercourses & Water bodies	13.8	0.9
Total	1,621.5	100.0

Table 4.5.3. Soils Breakdown

Hydrologic Soil Group	Area (Acres)	Area (Percent)
A	20.4	1.3
B	780.6	48.1
C	417.2	25.7
D	403.3	24.9
Total	1,621.5	100.0