

### **3.0 EXISTING ENVIRONMENTAL CONDITIONS**

#### **3.1 LAND**

##### **3.1.1 Soils and Topography**

###### *Soils*

Information regarding soils was obtained from several sources including the *Soil Survey of Nassau County, New York* (USDA, 1987) (hereinafter “Soil Survey”), soil test holes and test borings (see Appendix H), based upon the latest revised *Preliminary Subdivision Map*.

According to the *Soil Survey*, soils are classified according to distinct characteristics and placed (according to these characteristics) into “series” and “mapping units.” A “series” is a group of mapping units formed from particular disintegrated and partly weathered rocks which lie approximately parallel to the surface and which are similar in arrangement and differentiating characteristics such as color, structure, reaction, consistency, mineralogical composition and chemical composition. “Mapping units” differ from each other according to slope and may differ according to characteristics such as texture.

The general soil classification of the site, based upon the “General Soil Map” contained within *Soil Survey* and the surrounding area is Montauk-Enfield. This complex of soils is characterized as predominantly nearly level to strongly sloping, well-drained, medium-textured and moderately-coarse-textured soils located on knolls and hills.

According to the *Soil Survey*, the soils series contained on the subject property consist of Enfield, Montauk, Riverhead and Urban Land, and are characterized by the following mapping units:

- Montauk fine sandy loam (“MfB”) – 3-8 percent slopes;
- Montauk silt loam (“MkA”) – 0-3 percent slopes;
- Riverhead sandy loam (“RdA”) – 0-3 percent slopes; and
- Riverhead sandy loam (“RdC”) – 8-15 percent slopes.