

## UNIT 4 – CHEMISTRY OF THE ENVIRONMENT

### THE SOIL CHEMISTRY



#### LEARNING OBJECTIVES

- Describe the nature and composition of soil.
- Discuss the effects of different compounds in soil.
- Explore different pollutants in soil and remediation techniques for the conservation of soil.

#### 1.0 NATURE AND COMPOSITION OF SOIL

It is known that soil has its importance in different aspects. For example, in the production of food; maintaining the balance of carbon, nitrogen, and phosphorus; and for the construction of building materials.

The chemical nature of soil is that, it is a mixture of weathered rocks and minerals; decayed plants and animal material (humus and detritus); and small living organisms which includes plants, animals and bacteria. Soil is also consists of water and air. A typical productive soil has a solid fraction of almost five (5) percent organic matter and ninety five (95) percent inorganic matter. There are other soils which has as at least one (1) percent organic matter but some soil such as peat soils may contain as much as ninety five (95) percent organic matter.

#### Distinctive Layers of a Typical Soil

A layer of a typical soil which is called **horizon**, is the product of complex interactions between processes that develop during weathering. The rainwater that percolates through the soil bring dissolved and colloidal solids to lower horizons where they are deposited.

Bacterial decay of residual plant biomass (biological process) produce slightly acidic carbon dioxide ( $\text{CO}_2$ ), organic acids, and complexing compounds that are carried by rainwater to lower horizons where they combine with clays and other minerals resulting to the change in the properties of minerals.

The A horizon or topsoil which is the top layer of soil is several inches in thickness. Maximum biological activity in the soil happens in this layer. This layer also contains most of

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