

Haloua SWMF Site Assessment

EDESSA was retained by AVERDA on behalf of the Lebanese government to conduct a preliminary site assessment for a proposed Solid Waste Management Facility (SWMF) in the remote areas of Haloua in the Bekaa - Lebanon. The proposed project was expected to comprise the construction of a new landfill, as part of an integrated SWMF.

The objective of the project was to document the preliminary site conditions and to identify the potential impacts of locating an integrated solid waste management facility at its proposed location.

The site assessment was based on a desk study of available maps and reports, a series of site visits, and the drilling of geotechnical boreholes to a depth of 50m with sampling and permeability testing.

The preliminary site assessment also covered various positive and negative environmental impacts in relation to SWMF site assessment, which included the following:



- **Access and Traffic:** Documenting the existing road conditions and its impact on the anticipated transportation of wastes from various collection points and transfer station within the country. The assessment also involved the impacts of traffic congestion on main roads leading to the proposed site.
- **Vegetation:** The preliminary evaluation of impacts from landfill site construction and operation on the existing fauna and flora at the proposed site.
- **Geology and Hydrogeology:** The geological and hydrogeological settings at the proposed site, with possible impacts anticipated from the landfill activities.