



Case Study

Vietnam Waste Solutions: MRF/Transfer Station, Da Phouc Landfill

Background

A new municipal solid waste landfill and materials recovery facility was in the process of being developed by Vietnam Waste Solutions. The facility was located outside of Saigon and plans called for the facility to accept up to 6,000 tons of waste per day.

DEI Scope of Work

DEI was hired to prepare conceptual designs for the landfill infrastructure, a transfer station and a materials recovery station (MRF) for processing solid waste and recyclables.

DEI Tasks

DEI was responsible for the following work tasks:

- Development of conceptual plans for the infrastructure, including: layout of administrative buildings, scale houses, on-site traffic flow, truck wash system, landfill maintenance, leachate control system, electrical generation and employee facilities
- Development of designs for the transfer station and materials recovery facility, including: profiles, ventilation and drainage, as well as calculations to determine building size and the preparation of plans showing building elevation
- Development of interior designs that provided the layout of sort lines and equipment positioning for optimum use of available space
- Design of traffic flow, material handling areas and loading systems at the transfer station for the unloading of waste from inbound trucks, and loading and transfer of waste out to the landfill
- MRF design to effectively manage the movement and handling of material from receipt, to recyclables removal on the sort line, and then loading and export of recyclable materials from the facility

Results

- The DEI conceptual designs were approved and used to develop detailed design and construction packages
- The facility has since been constructed and is now in operation

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