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Recovery of the Landfill of the Municipality of Calakmul, Campeche, Mexico

Abstract

In 2014, a sanitary landfill was built for the municipality of Calakmul in the state of Campeche, Mexico. Due to poor operation and lack of economic resources, the landfill became an open dumpsite, causing negative environmental impacts due to: the proliferation of harmful fauna; emanation of biogas causing greenhouse gases, infiltration of leachates into the subsoil and spontaneous fires. To remedy this problem, the environmental authorities of the state of Campeche financed the development of a project to clean up the disposal site and recover the landfill.

This paper presents the main basis of the project to convert an open dumpsite into a sanitary landfill to comply with Mexican regulations for final disposal sites for municipal solid waste and special management

Fig 1. Current operation of the final disposal site as an open dumpsite

Fig 2. Panoramic view of the open-air dumpsite

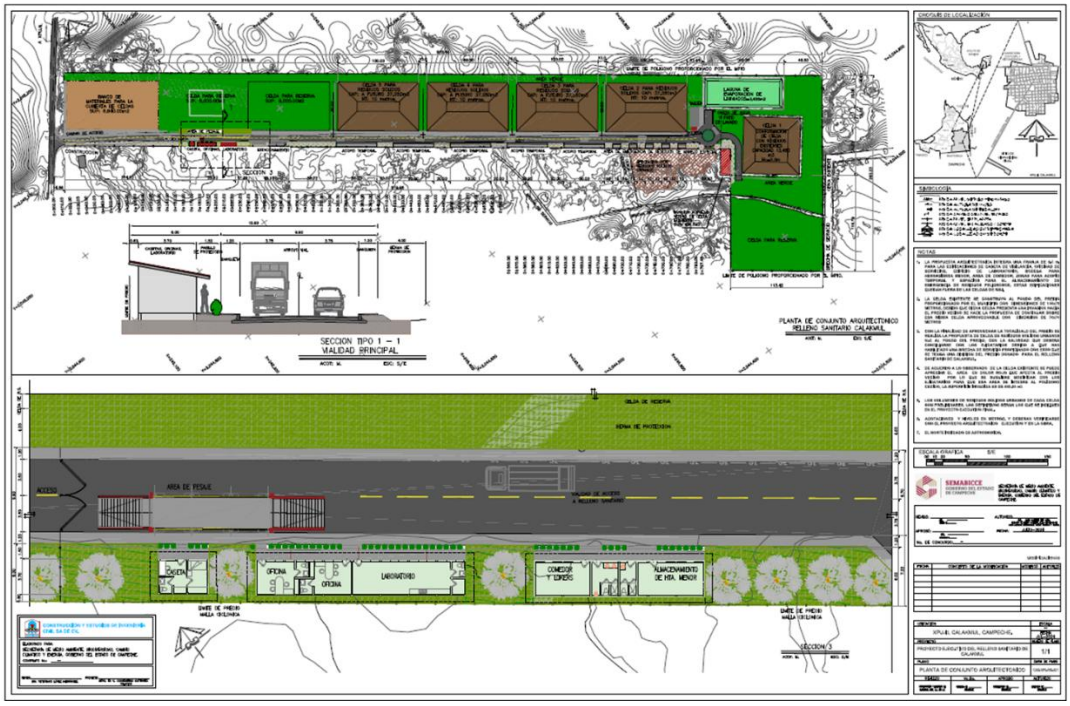

Fig 3. Project for the recovery of the sanitary landfill

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