

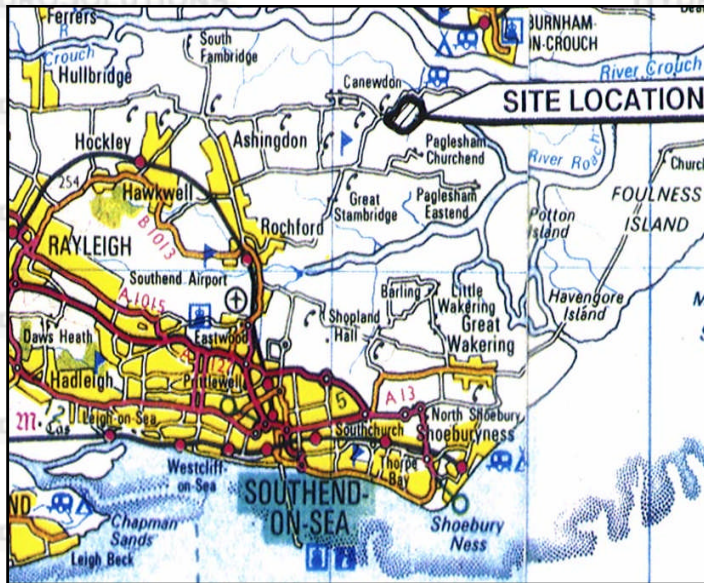


PROJECTS

CONTAMINATED LAND & GROUNDWATER

LONDON ENVIRONMENTAL SERVICES

Landfill Development Appraisal



Part map courtesy of Ordnance Survey

An investigation was undertaken of a proposed landfill development of a site adjacent to an ecologically sensitive salt marsh in Canewdon, Essex.

Void created by quarrying within a discrete lens of sand and gravel overlying London Clay had previously been used for mixed inert and putrescible waste disposal.

A groundwater monitoring bore network established the remaining landbank, groundwater flow/direction and quality.

Shallow unconfined groundwater flow discharges into the neighbouring Paglesham Creek. Groundwater quality was impacted by former waste disposal operations.

A contained landfill development was proposed, retaining surface water features. A detailed recharge estimate was undertaken to determine whether sufficient aquifer remained to support the wetlands.

Measures were proposed to divert groundwater flow around the landfill area to prevent flooding and channel sufficient groundwater to maintain the surface water features.

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