Built by
NRS
Proven by
Time

South Cathkin Landfill Development Works (2012)

Client:	Glasgow City Council
Form of Contract:	ICE Conditions of Contract
Duration:	Jul 2012 to Nov 2012
NRS Role:	Main Civil Engineering Contractor & Principal Contractor

Main Description

Project Description:

The Development Works at South Cathkin Landfill Site comprised landfill capping works, surface water management works and landfill ancillary works on an operational landfill site under the provision of the sites PPC permit.

South Cathkin Landfill Site is an operational landfill site owned and operated by Glasgow Council for the disposal of non-hazardous waste. NRS have recently completed the 2012 Development Works which comprised of landfill capping works, surface water management works and landfill ancillary works on an operational landfill site under the provision of the sites Pollution Prevention and Control (PPC) permit. The Specification for the works was Standard Specification for Water and Sewerage Schemes 3rd Edition.

The landfill capping works comprised of the installation of 49000m2 of a geosynthetic clay liner, engineered fill and restoration soils constructed in line with the Specification for the works and the CQA Plan. This involved determining a suitable profile to cut-fill the refuse to provide surface water run-off and undertaking the cut-fill operation within strict odour tolerances. 45000m3 of fill from on site stockpiles and waste were used to form the required site profile and capping layers.

The exposed refuse was immediately covered using engineered soils screened on site to minimise odour. Working to an accepted field panel design, the Geosynthetic Liner was laid on the prepared surface layer and covered with the required

thickness of protection soils as works progressed. Each panel was labelled according to the agreed numbering scheme upon deployment and contemporary records kept. Works also included repairs to the existing geocomposite liners.

Surface water management works comprised of the construction of surface water ditches, pipe infrastructure, manholes and concrete headwalls construction to permit controlled discharge to the surrounding environs. The site was dewatered using suitable sized pumps positioned at key collection locations. This was particularly important as the leachate could not escape to the adjoining environmentally sensitive locations.

Landfill ancillary work including the construction of haul roads and access tracks to specification were also undertaken. These involved utilising floating roads and planned methodologies to complete these works across the completed landfill cap.