

## Deerplay Landfill, Lancashire: Contract - Cell 4

### Project Particulars

Value:	£650,000
Duration:	22 weeks
Client:	Shanks Waste Solutions
Engineer:	AIG Consultants

Greyhound Plant Services were awarded the contract for Cell 4 Construction at Deerplay Landfill Site, as principal contractor. The works included construction of a landfill containment cell within the Deerplay Landfill Site, located in a deep sandstone and shale quarry. The project initially required the clearance of the 13,000m<sup>2</sup> cell footprint which involved the excavation of 45,000m<sup>3</sup> of sandstone rock, 6,000m<sup>3</sup> of shale rock and 25,000m<sup>3</sup> of the engineered soils which

previously were lagoons and access road embankments. During this clearance work, the composite liner systems of the adjacent four landfill containment cells were exposed to ensure continuity with the lining system of the new containment cell.



Some of the excavated sandstone rock was crushed on site to produce two types of graded aggregate for use in groundwater and leachate collection layers as well as in a 550m long surface water collection and control drain. Shale was processed to produce a graded material conforming to the Environment Agency specification for use in the mineral landfill liner. Quarry overburden was selectively excavated for use in an engineered sub-liner leachate attenuation layer. Despite significant revisions to the overall cell design caused by discrepancies in the 'as built' details of adjoining containment cells, both sectional completion of the works and completion of the whole of the works were achieved 3 weeks ahead of the employer's key programme dates. All aspects of the works met with the required design and performance specification. The phasing of the works was carried out in accordance with the employer's logistical requirements for an operational landfill site.

"At all times we found Greyhound Plant Services site and head office staff to be proactive, knowledgeable and helpful, demonstrating effective communication between all parties." AIG Consultants



"This project was the first in the region to have the final account resolved amicably and to the satisfaction of both parties within four weeks of substantial completion Certification, from my view this puts Greyhound above the competition." Shanks Waste Solutions