

WALTERS

Tir John Landfill Site



Project:

Tir John Landfill Site

Client:

Swansea City Waste Disposal
Company Ltd.

Value:

£3.5 million

At-a-glance:

- Excavation of 2,000m³ of waste material
- Installation of 2,500m² starter layer and geogrid
- Import and placing of 110,000m³ of general fill material
- Installation of leachate and surface water drainage pipework

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Walters is accredited to ISO 9001 for Quality Management, ISO 14001 for Environmental Management and OHSAS 18001 for Occupational Health & Safety.

Challenges

The Tir John landfill project required Walters to work closely with landfill project designer Jacobs Engineering Limited, who had divided this scheme into two sections. The first stage of the project was capping works to remediate a used landfill area; this involved site clearance, surface water drainage and the installation of leachate drains.

The second stage was preparation works for the new 'cell 15' and included all preliminary work required prior to the site being used as a new landfill area.

Solution

Phase 1 capping works involved the process of sealing a previously used landfill cell and capping the land to prevent the surrounding area from becoming contaminated by landfill pollutants. To accomplish this, Walters had to install pipework for leachate and water drainage as well as 60,000m² of 1mm LLDPE liner with drainage and protective geocomposite geotextiles.

The second phase was cell 15 preparation. This involved the excavation of 2,000m³ of waste material and the installation of 25,000m² of starter layer and geogrid.

Walters also imported and placed 110,000m³ of general fill material at a rate of approximately 3,600 tonnes per day while the project was concluded with the positioning of settlement and monitoring equipment to ensure the environmental success of the project.