

SETTLEMENT CONTROL USING THE TENAX GEORaft SYSTEM

Location/date	Preston Waste Transfer Station, Lancashire, UK
Contractor	Eric Wright Civil Engineering Ltd
GeoRaft Consultant	P & S Consulting Engineers Ltd (PaSCoE)
Product	TENAX GeoRaft - Using 75,000m ² of Tenax Geogrids
TENAX Distributor	Geosynthetics UK

PROJECT DESCRIPTION

Part of the Lancashire Municipal Waste Management Strategy is to reduce the requirement for household waste to be taken to landfill.

Lancashire Waste Network comprises the treatment of household waste from 15 local authorities at 4 Central Waste Treatment facilities supported by 11 Waste Transfer Stations.

When complete, the Preston Waste Transfer Station (WTS) will process 60,000 tonnes/yr of mixed waste with future expansion to include a 26,000 tonnes/yr composting plant.

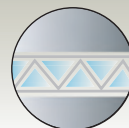
In order to protect the WTS from a 1 in 200 year flood from the adjacent River Ribble the level of the site was raised by up to 3m. The increased loading from the 3m high platform would cause immediate, consolidation and creep settlement.

The solution was a combination of pre-fabricated vertical drains and surcharging, allowing settlements to take place within a short period.

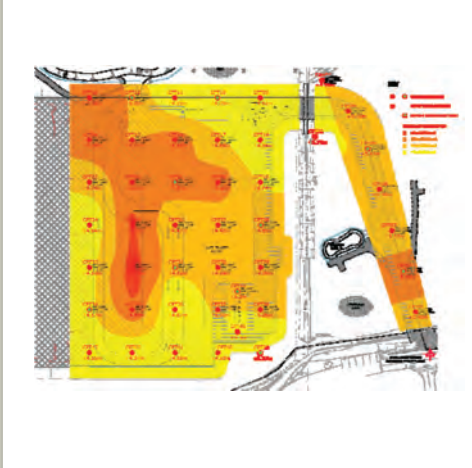
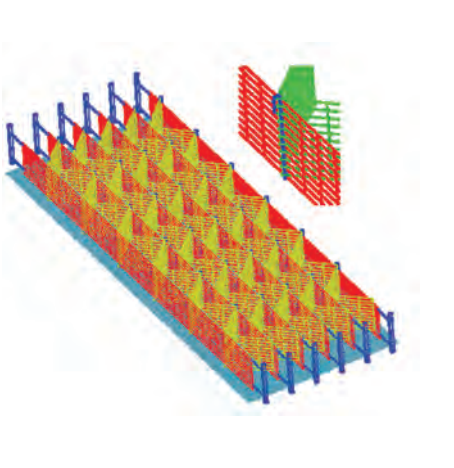
Differential settlement was controlled by the 500mm high, 22,000m² Tenax GeoRaft System foundation in accordance with BS8006 using a combination of bi-oriented and mono-oriented geogrids (**TENAX LBO** and **TENAX TT**)

Tenax Georraft System





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