

Engineered Solutions for Contaminated Land

**Best value
and optimum
risk reduction...**

- **Specialist
containment
membranes**
- **Bioremediation
membranes**
- **Gas protection**
- **Landfill ADC**



Engineered solutions for contaminated land

PAGeotechnical specialises in the management and risk reduction of contaminated land. Expertise in geosynthetic design is an important part of the company's portfolio and PAGeotechnical is thus able to provide design support and specialist services for clients and their professional advisors. PAGeotechnical offers a true turnkey service that includes all arrangements for construction and, with links to the mainstream geosynthetic industry, it can also supply a whole range of geosynthetic components to complement the project.

Experts in our field

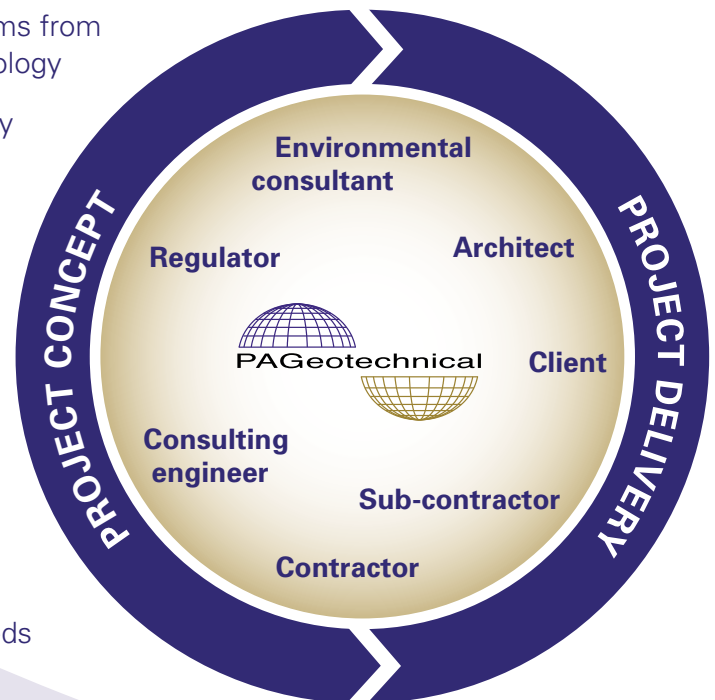


Contaminated land is a complex issue where legislation and standards are rapidly emerging and changing. As a result of the company's policy of keeping abreast of these changes, PAGeotechnical has developed a reputation as one of the UK's leading consultants in this field. Indeed, PAGeotechnical is actively involved in many of the industry's regulatory support and development processes.

Specialised support

Supplementing the work of specialist environmental, structural and civil engineering consultants is an important role played by PAGeotechnical. Working as part of the design team, PAGeotechnical offers specialist support in its areas of expertise as well as the incorporation of its solutions.

- Clean Air Blanket systems from Prestige Air Technology
- Supply, installation and integrity testing of gas barriers
- Landfill speciality applications
 - Petrochemical industry containment and linings
- Bioremediation membranes and covers / fleeces
 - Ornamental lake linings
 - Agricultural, process and irrigation lagoon linings
- Reed beds



As part of the design team PAGeotechnical offers expertise in its specialised areas, linking with all stakeholders to facilitate project delivery.

PROJECT NOTES

HORNCHURCH

Client:

AIG Engineering
Group Ltd.



Details: Construction of 87 foundation plots for a major housing developer on a contaminated site in NE London.

PAG's role: Involved in the design process at an early stage, PAGeotechnical was able to assist the client in providing a ventilation and footprint protection solution that both satisfied the regulator and provided both time and cost savings. Provision of 10,000 m² of geocomposite ventilation plus supply & installation of 5,000 m² of footprint protection material and proprietary gas membrane together with integrity testing.

SOUTHEND FARM RESERVOIR

Client: Goodend
Produce Ltd.



Design & construction: Land and Water Special Projects

Details: 16 million gallon water storage lagoon for irrigation of large horticultural farm in Chichester, W. Sussex. Designed to be on the water table, the lagoon had to be lined at the driest time of year and quickly!

PAG's role: 17,000 m² of Nicoflex 600 reinforced liner were supplied in prefabricated panels and installed along with geotextile underlay on site in 5 days under a PAGeotechnical project management contract.

IVER SOUTH SDW

Client: Thames Water

Engineer: BBV



Contractor: Costain Construction

Details: Construction of a 10,000 m² emergency sludge storage lagoon at the new sewage treatment works near Colnbrook, constructed as part of the Heathrow Terminal 5 project.

PAG's role: PAGeotechnical recommended the use of XR5, a specialist EIA material, for lining this lagoon. XR5 is both tough and UV resistant and offered design life performance without the necessity of providing concrete cover. The installation was completed by one of PAGeotechnical's approved installation contractors.

CROSSWAYS BUSINESS PARK

Client: Land Securities

Engineer: KRA



Contractor: Fitzpatrick Contractors Ltd

Details: Construction of 4 industrial units totalling 14,600 m² at Crossways business park, requiring gas protection.

PAG's role: As the specialist solutions provider, PAG proposed the use of a low energy Clean Air Blanket gas protection system to protect the buildings. Offering provable performance and construction advantage, this solution satisfied the requirements of the client, contractor and regulator.

With links to major international suppliers of specialised materials, PAGEotechnical is able to provide advice and designs that are always appropriate to the requirements of project engineers. Below are some of the key products and systems.



Clean Air Blanket

Clean Air Blanket, from Prestige Air Technology, is a system that maintains a safe, gas-free environment in buildings by maintaining a zone of positive pressure underneath. PAGEotechnical can provide bespoke systems for all levels of gas contamination.



Reinforced geomembranes

The use of high strength light weight reinforced geomembranes can offer distinct advantages in project design and construction. Reinforced LDPE and HDPE/LDPE coated fabrics from Ten Cate Nicolon form part of many PAGEotechnical solutions.



Specialised EIA membranes from Seaman Corporation

The development of high-tech membranes for the petrochemical industry enables PAGEotechnical to use geomembranes in applications not previously considered. XR5 material from Seaman Corporation couples chemical and UV resistance with immense strength, offering design solution advantage.



Specialist ADC membranes from EPI

EPI Enviro Cover is a degradable plastic film that provides daily, intermediate or long-term cover for landfill sites. This system is more efficient than soil cover and saves valuable void space, increasing the operational value of the site.

Whatever it takes...

PAGEotechnical can either work alongside clients or their engineers, or provide full contract management services. Whatever the requirement, PAGEotechnical will always give impartial, independent advice, as solutions can be drawn from a variety of providers.

PAGEotechnical does not charge for project consultancy - only for materials and contracting - so not only can PAGEotechnical provide top class engineering to solve contaminated land problems, but we can also promise excellent value.

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