

# Contaminated Land Services



Phlorum Limited is an environmental consultancy that undertakes contamination work for a range of development projects.

We have specific qualifications and experience in projects where contamination is a major issue. With the addition of our capabilities in related environmental disciplines, we can offer a uniquely client-centred solution to many contaminated land problems that are regularly encountered by our clients.



## Other Services

- Environmental Management
- Air Quality
- Noise & Vibration
- Japanese Knotweed
- Sustainability

## The Problem

At present, Part II of the Environmental Protection Act (EPA) 1990, as amended, and the Contaminated Land Regulations 2006 are the main pieces of legislation covering contaminated land in England.

Solutions to contamination problems often need to be dealt with as conditions in planning permissions.

Enforcing authorities can serve Remediation Notices on appropriate persons, specifying what needs to be done to remediate an area of contaminated land.

With the implementation of the Landfill Directive, disposing of waste can be costly. As a result, on site treatment (either in situ or ex situ) is often the most sustainable and cost-effective option.

The fate of a contaminant in the soil is that it can be: broken down or neutralised; washed out by rain and/or ground water; evaporate; or remain in the soil, accumulating to higher concentrations with successive additions of contamination.

The remediation of a contaminant can depend on several variables. These include: the physical, chemical and biological properties of the contaminant; the properties of the ground medium; the presence of soil organisms; and the level of rainfall in the area.

Remediation methods can include a combination of the following:

- solidification** - where a binder is used to enclose the contaminants in a solid form;
- physical** - where contaminants are isolated or concentrated but not destroyed;
- chemical** - where contaminants are destroyed, immobilised, extracted or neutralised;
- thermal** - where contaminants are destroyed at high temperatures; and/or
- biological methods** - where contaminants are degraded to less harmful or more mobile forms that can be more easily treated.

## The Solution

At Phlorum, we can provide a complete contaminated land service that includes the following:

- geo environmental consultations;
- geo environmental auditing prior to sale, purchase or lease;
  - PHASE 1 - desk studies and site walkovers;
  - PHASE 2 - intrusive investigations (which can be undertaken in stages);
  - PHASE 3 - site remediation;
- risk assessments with regard to contaminated land; and/or
- ongoing monitoring/sampling (soil, gas, ground water, leachate).

To see how we can provide a cost-effective and professional service that works best for you, please contact us at the following address.