



contaminated soil



overview

It is not too long ago that removing soil contaminated with pollutants from site and placing it in landfill, where it received no form of treatment, was common practice. This had the potential to leak pollutants into the surrounding soil and water, and therefore under the provisions of the Waste Management Act 1996, all wastes (including excavated soils), which are contaminated with petroleum hydrocarbons are classified as a hazardous waste and must be dealt with through licensed contractors.



We are the first Irish company to be so licensed for the treatment and disposal of hydrocarbon contaminated soil, receiving our licence from the Environmental Protection Agency in January 2000. This means that there is no longer a need for costly export to other European countries for incineration or disposal to landfill.

Our licence covers soils contaminated with a range of pollutants such as heavy metals, diesel range organics, petrol range organics, mineral oils, etc.

We provide a number of services that allow natural processes to decontaminate that soil by breaking down hydrocarbon compounds, after which the soil can be safely recycled by using it as fill or topsoil.

bio-remediation

Bio-remediation of contaminated soil uses living organisms to remove pollutants, including hydrocarbons, from soil. It can be carried out ex-situ in the Enva purpose-built facility in Portlaoise, where the basic process consists of a number of different stages.

Petroleum hydrocarbons will degrade over time - given the right conditions - as a result of metabolism by bacteria normally present in soil. Under normal conditions, it will take many years before the contamination is reduced to acceptable levels. However; the process can be vastly accelerated under controlled conditions - by bio-remediation - to reduce the timeframe to months rather than years.

Ex-situ treatment can deal with higher levels of contamination and more difficult soil types. It also allows for immediate removal of contaminated soil, so that development of the site can continue. Once treated, soils are disposed of through a variety of routes, which are pre-agreed with the EPA.



stabilisation

Stabilisation is a chemical and physical immobilisation technique, incorporating the use of specially formulated reagents, which can be applied for the effective remediation of contaminated soils and groundwater. This technology has been implemented successfully for gas works sites, petrol stations, industrial sites, etc.

Enva have received approval from the EPA for the stabilisation of contaminants in soil. This added technology has helped to expand our capabilities, allowing us to offer our customers alternative treatment options.



export

Enva has years of experience in exporting hazardous materials to the continent. Each facility used by Enva is fully licensed and audited by Enva, and we have the ability to offer a service of complete traceability of waste, from cradle to grave.



total service offering

All excavation, loading, transport, treatment, disposal or export and the preparation of the transportation documentation can be co-ordinated by Enva. We have close working relations with a number of plant hire companies, which also allows us to offer an all-in-service including the following:

- Soil Sampling and Analysis
- Excavation
- Loading
- Haulage



about enva

A subsidiary of the Environmental Division of DCC plc; Enva is an integrated solutions provider across a diverse range of waste management and environmental issues.

Enva comprises of a number of different business areas, with each business area focusing on specific waste streams and activities, as well as having its own identity within Enva. These business areas include:

- On-site services (cleaning works on customer sites)
- Emergency response
- Oil and packaged waste
- Hazardous waste
- Water and effluent treatment
- Effluent and waste laboratory analysis
- Micro-laboratory analysis

What differentiates Enva is that we provide tailored solutions that effectively solve waste and effluent problems. Our success is built on the foundation that we are more than just an equipment or chemical provider, but a solutions providers, backed up by highly qualified, professional employees who understand that no two customers or applications are the same. This gives us the ability to increase efficiencies and reduce operating costs in all areas of waste and effluent management.

We operate high tech laboratories at our Portlaoise, Shannon and Cork facilities, which focus on developing innovative treatment processes, focusing primarily on recovery rather than disposal. We also operate a INAB accredited micro-biological laboratory specialising in providing top quality analysis and interpretation of results for the food, beverage, agricultural, retail, and environmental industries.

Customers of Enva can also be assured that we operate under very stringent and tightly controlled environmental, health and safety, and quality management procedures. Operating to the highest standards within the sector has always been part of our identity and a guiding principle. We operate an open door policy and welcome audits of our services and facilities to clearly demonstrate this continuing commitment to our customers, and reassure them that their wastes are being dealt with in the most effective and appropriate manner, and in complete regulatory compliance.



contaminated soil



Enva Ireland Ltd.
Call-save: 1850 504 504
Fax: 057 867 8699
Email: info@enva.ie
www.enva.ie