



# Remediation Technologies



## MILDENHALL

### • CLIENT

Environmental Protection Strategies

### • PROJECT DURATION & VALUE

18 months | £100,000

### • KEY SERVICES

Safety control  
Regulator, main contractor and client liaison  
Waste characterisation and classification  
Service avoidance  
Excavation and dewatering  
Effluent treatment  
In-situ chemical oxidisation  
In-situ soil vapour extraction and air sparging  
Remediation monitoring, maintenance and optimisation  
Decommissioning and removal of remediation equipment

### • OUTCOME

The works were carried safely with no incidents or accidents. The project programme was met, planning conditions satisfied, and the site was handed over for redevelopment. The property now comprises a busy retail park including new petrol station, fast food outlet, car park and retail area.

## TREATMENT TRAIN: EXCAVATION, DEWATERING & WATER TREATMENT, CHEMICAL DOSING, AIR SPARGE & SOIL VAPOUR EXTRACTION

Ahead of a proposed site redevelopment which included the demolition of an existing petrol filling station, private dwelling and MOT garage, RemTech was appointed to assess and resolve subsurface contamination before development work.

RemTech was responsible for reducing known petrol contamination in soil and groundwater to agreed, target concentrations in order to allow redevelopment for continued commercial use. Its work included the following:

- Identifying and exposing all old tanks, lines and other petrol station infrastructure. Emptying and de-gassing infrastructure.
- Breaking out the concrete cover and cradles then removing the tanks so they can be cold cut and disposed of.
- Removing contaminated water and any liquid fuel from the excavation areas and treating the water to remove dissolved contamination prior to disposal under permit.
- Excavating contaminated soils and then treatment of any residual exposed contaminated soils with chemical oxidiser.
- Reinstating the area with clean imported structural aggregate compacted in 250mm layers.
- Pilot testing of chosen remediation technology.
- Installation of buried pipework to allow air sparge and soil vapour extraction.
- Construction of a bespoke air sparge and soil vapour extraction unit for operation at the site during redevelopment work.
- Monitoring, maintenance and optimisation of in-situ treatment to maximise efficiency and minimise remediation timescales.