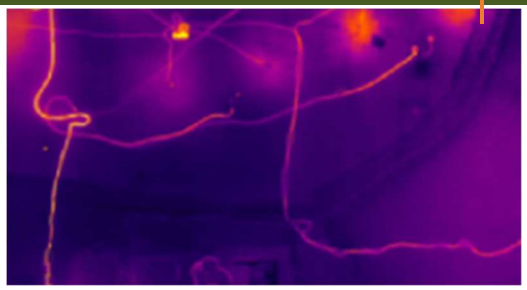
In-situ Thermal and Multi Phase Recovery Remediation

- Phased Thermal Remediation, Applied Intelligently
- Continuous Optimisation to Maximise Performance
- Integrated LNAPL Recovery and Multi Phase Extraction



Client:
Sanctus

Nature of site:
Large mixed-use redevelopment (former railway yard)

The challenge

Beneath a historical railway yard lay stubborn hydrocarbon contamination, trapped within complex fractured bedrock. A conventional, blanket approach to in-situ thermal remediation risked high energy demand, long run-times and diminishing returns. The real challenge was not simply applying heat – it was how to apply it intelligently.

Our approach

RemTech designed the remediation implementation around control, flexibility and ongoing optimisation rather than a one-size-fits-all treatment.

Instead of heating the entire site at once, the works were divided into smaller zones and delivered in a phased sequence. In addition, RemTech isolated specific depths where contamination was present to target individual contaminated fracture zones rather than treating the full depth of the borehole.

The in-situ thermal system was combined with multi-phase recovery. Any contamination mobilised by heating was captured and managed in a controlled way.

Outcome:

Residual hydrocarbons were successfully recovered from the fractured bedrock, with no evidence of rebound. The phased and targeted approach reduced overall energy use compared with a site-wide thermal programme and delivered a controlled, auditable remediation in line with sustainable remediation principles. The site was left in a condition suitable to support redevelopment, allowing the wider scheme to move forward with confidence.

Value Added:

By combining phased thermal treatment, continuous optimisation and careful depth-specific targeting, RemTech delivered a solution that was effective without being excessive. The works demonstrate the benefits of experienced supervision, flexibility on site and applying established technologies in a thoughtful way to achieve better environmental and commercial results.

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