

CASE STUDY CS441

PROJECT: Remediation of Fuel Oil Contaminated Soil and Groundwater

CLIENT: Industrial Manufacturer, Midlands

DURATION: Three months

COST RANGE: £20,000 to £30,000

STATUS: Completed and Validated



WORKS

- TRM investigated a leaking fuel tank at a commercial facility
- Source-term removal of remnant contamination in soils followed rapidly
- Off-site disposal of contaminated arisings was undertaken, the site was backfilled, compacted and the roadway reinstated
- Site investigation (SI) works followed, characterising the hydrocarbon plume in soils and groundwaters *via* drilling, sampling and surveying
- A Remediation Options Appraisal (ROA) and Remediation Strategy (RS) were compiled following the SI works, as required by the Environment Agency (EA) and local Environmental Health Officer (EHO)

SYNOPSIS

The facility had suffered a leak of heating oil from pipework connected to an above ground bulk fuel storage tank. The fuel oil had spilled onto and into the ground, permeated the soil and structure of the building, and entered storm water drains. The works required the rapid removal of impacted soils, visual-olfactory delineation of the contamination and soil analysis to refine the next phase of works.

Site restoration was undertaken involving placement of clean backfill material imported to site, vibratory-compaction and reinstatement of the tarmac surface.

SI works determined the extent of any remaining contamination, which led to TRM developing a suitable options appraisal for further remediation works. This was accompanied by an outline remediation strategy presenting TRM-derived target criteria and issued to the regulator.



Specialist drill rig adapted for confined areas