



Site History:

The site consisted of a small (~100m²) disused barn structure on a farm in Hampshire. The client had purchased the brick and timber barn, which had previously been part of the neighbouring out buildings redevelopment, for redevelopment to a new residential dwelling. Contamination conditions had historically been closed by a desk study for this wider development. The client started works on the property, digging out the foundations, and came across gross contamination.

WDE was appointed and quickly mobilised to site to conduct an Intrusive investigation. Desk study information identified a potential underground storage tank, which was confirmed through a targeted investigation, along with below ground contamination across the site. It extended beneath the existing structure as well as in external areas which posed a risk to human health of future residents.

WDE Scope of Works:

- Targeted Site Assessment
- Detailed Quantitative Risk Assessment
- Remedial Options Appraisal and Strategy
- Material Management Plan (CLAIRE Code of Practice)
- Verification of Remedial Works
- Environmental Monitoring
- Discharge of Planning Conditions

Remediation: Working with Rake Remediation WDE formulated an effective, economic and practical strategy to deal with the identified contamination onsite. This consisted of excavation of the 300m³ of impacted materials from the external areas of the site into segregated stockpiles for reuse and offsite disposal. The internal areas of the barn required a more adaptable approach due to the restricted space and risk of undermining the walls with excavation, therefore an in-situ treatment option was chosen.

Verification: Additional measures, including surface cover and enhanced gas proof membranes, were installed and verified. Completion of a verification report outlining all the actions undertaken was submitted to the local authority and discharge of the contamination conditions was completed in Summer 2016.