

TECHNICAL DOCUMENT ENVIRONMENTAL SITE ASSESSMENTS

OVERVIEW

WD Environmental conducts **Environmental Site Assessments (ESA)** using a phased approach when assessing sites, in line with UK guidance and best practice. This will ensure that the potential risks associated with contamination are identified early in the process and recommendations can be made on how best to proceed.

A **Phase 1 ESA**, often referred to as the Desk Study, will involve an assessment of published information, site history, previous investigations and possibly a site walk over to formulate the **Site Conceptual Model**. A targeted site investigation is then carried during the **Phase 2 ESA** to fully characterise the sources of contamination, the sensitive receptors and the active migration pathway. Reports will be written in a format and structure that is considered suitable for submission to the regulatory authorities. This methodology is of financial benefit to our clients in that monies spent on the investigation are focussed on the potential areas of concern and are not needlessly wasted.

INTRUSIVE FIELD METHODS

Underground utilities will need to be identified prior to conducting any intrusive work on site as part of our Health and Safety policy. WD Environmental will tailor the intrusive method to be suitable for the site. Intrusive methods that are used include:

- Window Sampling
- Trial Pitting
- Cable Percussive Techniques
- Hollow Stem Auger
- Rotary Drilling



WD Environmental will be on site during the drilling to log and screen recovered samples. Screening is generally carried out for organic vapour concentrations (OVC) using a photo-ionisation detector (PID). Groundwater samples are taken from monitoring wells following purging of three well volumes and monitoring for ground gas can also be undertaken. More specific field techniques will be utilised if necessary to determine the hydrogeological properties of the strata. Ground gas measurements can also be obtained from the monitoring wells on site.

LABORATORY TEST METHODS

WD Environmental only use UKAS accredited laboratories that are compliant with the Environment Agency MCERTS requirements.