



PROJECT SUMMARY

Site Investigation, Risk Assessment and Remediation Confidential Client, UK



KEY PROJECT ELEMENTS

- PHASE 1
ASSESSMENT
- SITE
INVESTIGATION
- REGULATOR
LIAISON
- RISK
ASSESSMENT

A multi-national corporation commissioned CRA to carry out an Environmental Site Assessment at a chemical manufacturing plant. This was conducted to allow evaluation of potential corporate environmental liabilities. The site is 55 acres in area and has been manufacturing chemicals for in excess of 50 years; prior to its prior use it formed part of a larger industrial complex.

A Phase I (non-intrusive) assessment of the site was carried out over a period of a week by both CRA staff and the client's staff; this identified a number of potential areas of environmental concern associated with both the current and historic use of the site. Based on this assessment CRA developed an assessment of potential liabilities for the site, which was in the region of £6,000,000. In order to refine the assessment an intrusive investigation was undertaken, this included:

- Soil vapour survey;
- Shallow soil assessment; and
- Shallow and deep groundwater assessment.

The investigation identified localised hydrocarbon contamination in the shallow groundwater body beneath the site and chlorinated solvent contamination in the deep, fractured bedrock aquifer.

Following the initial results CRA conducted further targeted investigation of the site in order to determine the extent and characteristics of the contamination and allow a detailed risk assessment to be conducted.



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The results of the investigation allowed CRA to develop probabilistic cost estimates for various potential remedial activities. CRA also chaired a meeting with, and presented the data to, both the Environment Agency and the Local Authority.

CRA are currently conducting a human health risk assessment; groundwater risk assessment/modelling, further investigation and removal of soil contaminant sources; on-going groundwater monitoring and discussion with the regulators.