

Project Profile:

Remediation of former Chemical Works at a Residential Development

Remada

Former Site Use: Chemical Works

Value: £170,000

Due Diligence

Client: HH Housebuilders

Location: Cheadle, Greater Manchester

Desk Study

Intrusive Ground Investigation

Human Health Risk Assessment

Water Resource Risk Assessment

Mining Risk Assessment

Preliminary Foundation Design Recommendations

Remediation Strategies & Method Statements

Pre-acquisition Advice

Abnormal Cost Assessment

Materials Management Plans & Declarations

UST Decommissioning

Soil Bio-remediation

Soil Stabilisation

In-situ Groundwater Remediation

EA Remediation Permit

Verification & Completion Reports

Soil Treatment Facility

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Remada was commissioned by H&H Homes to remediate chlorinated solvents within soil and groundwater a former Chemical Works, Mill Lane Cheadle. The site overlies a Principal Aquifer and is close proximity to the River Mersey and adjacent to a tributary.



The project had been dormant for a number of years and Remada reviewed historic site investigation data and remediation proposals. The Scope of Remediation Works entailed:

- Remediation of the site under Remada's EA Approved Standard Rules Permit.
- Preparation of Deployment Plan for EA approval
- Trial of High Vacuum Extraction System within unsaturated soils and saturated zone (below groundwater).
- Verification Report to be submitted to the EA and LA on completion of work.

On completion of the HVE trial, Remada found that insufficient drawdown could be achieved in the underlying sandstone Principal Aquifer in order prove viability of the technique. Remada proceeded with an alternative Regenesis in-situ product and:

- Installed 19 No groundwater injection wells in a horse-shoe formation whilst houses were being constructed
- Regenesis injection of 3Dme enzyme into saturated soils to promote in-situ anaerobic biodegradation
- Delineation of unsaturated soil hotspots and removal of impacted soils by the housebuilder.



On completion of the in-situ works, Remada:

- Monitored groundwater for a reduction in TCE, DC, VC and indicators of anaerobic biodegradation
- Prepared a residual Detailed Quantitative Risk Assessment for the protection of controlled waters
- Conducted vapour monitoring
- Vapour Risk Assessment for Potential Health Hazard
- Submitted a Verification Report to the EA and LA.