

Project Profile: Coal Mining Risk Assessments & Treatment

Remada

Former Site Use: Potential historical Coal Mining

Value: £15,000

Due Diligence

Client: Lidl UK GmbH

Location: Lancashire/Derbyshire

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 Lidl (UK) GmbH to undertake several Coal Mining Risk Assessments on properties in Lancashire and Derbyshire. Subsequent to the findings of these assessments, additional intrusive site investigation works were undertaken.



Location map
Approximate position of property



Enquiry boundary
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Key
Approximate position of enquiry boundary shown

The coal mining assessment report was completed by a competent person, as defined by the Coal Authority, who reviewed:

- the Coal Authority records
- acquisition of the Coal Mining Report
- the historical Ordnance Survey mapping
- the British Geological Survey mapping
- previous surrounding site investigation surveys

Upon review of the above sources, a *coal mining risk assessment* was generated for the client, which highlight the potential level of mining related risk to their site.

Where a medium to high risk of near surface mining activity was recorded, Remada applied to the Coal Authority for a Permit to Enter and Disturb Mine Workings on behalf of the Client and undertook a near surface rotary drilling site investigation.

All intrusive activities were undertaken in accordance with recommendations stipulated within **Guidance on Managing the Risk of Hazardous Gases when Drilling or Piling Near Coal**.

Coal Mining Hazard	Potential for Coal Mining Hazard to impact proposed development of the site
Deep underground coal mining >30m depth (past, present and currently proposed)	No significant risk identified.
Recorded shallow underground coal mining <30m depth	No risk identified.
Un-recorded shallow underground coal mine workings and associated entries <30m (including bell pits, pillar & stall and crop working, etc.)	Potential risk of unrecorded workings in the Yard coal seam beneath the western area of the site. Potential risk of unrecorded workings in the 'unamed' coal seams and perhaps the Upper Kiburn coal beneath the central and eastern area of the site. Potential for unrecorded mine entries on the site.
Recorded Mine entries (shafts and adits)	No risk identified
Coal mining induced or reactivated faults / lines of weaknesses (fissures, etc.)	No risk identified
Mine gas emissions	Potential risk identified
Recorded surface mining (opencast workings)	No risk identified



Following the discovery of near surface mine workings at one project location, subsequent ground treatment consisted of grouting (mixed at a 10:1 PFA to OPC), on a 6m by 6m drill-hole grid spacing with an additional centre drill-hole as per the guidelines stated within **CIRIA special publication 32 – Construction of abandoned mine workings**.

Upon completion of the treatment works, Remada provide the client with a Validation Report, which was subsequently issued to support fulfilment of planning application conditions.