Project Profile:

Residential Development – Desk Study, with Generic Risk Assessment & Foundation Design Recommendations

Former Site Use: Residential Development of Greenfield Sites — *Value: £42,000*

Client: CPC Civils Ltd — *Location: Various*

CPC Civils Ltd commissioned Remada Ltd to investigate a series of brownfield/greenfield housing development schemes, combined with the demolition/removal of any existing structure/s. The site investigations comprised of a Desk Study and Intrusive Ground Investigation in order to meet planning conditions for the proposed developments.

The objectives of the phase 1 desk study comprised:

a) assess the potential for previous contaminate use
b) develop a conceptual of pollutant linkages; and
c) geotechnical conditions relevant to the proposed residential development.

Dependent upon the site, the scope of ground investigation works comprised:

- trial pits & window sample boreholes for geotechnical and environmental purposes
- CBR tests for proposed roads
- plate bearing tests for proposed roads
- insitu geotechnical testing
- laboratory soil strength testing
- chemical analyses

The Interpretative Report presented preliminary design recommendations included:
shallow foundations – swelling /shrinkage resultant depth, bearing capacity or pile load capacity;

- assessment of ground sulphate class; and
- ground gas protection measures.

Contaminant concentrations were compared with generic assessment criteria for the protection of human health, and separately water resource quality standards.

Remada

Due Diligence

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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