

**Background**

You will be responsible for field monitoring, production of desk study and “simple” geoenvironmental reports, supervision of ground investigation and remediation activities, and general support to more senior engineers based in the Wetherby office. You will report to a Project Manager and performance will be reviewed by an Associate Director/Director. Duties will include:

**Core duties**

Tech Ref	Description
2	Liaising with clients regarding access, planning consents and site layout etc.
5	Production of drawings for reports & search requests.
6	Review of historical OS plans, geological maps/memoirs, BGS radon reports etc for greenfield and simple brownfield sites. Assess CA data in relation to High Risk sites. Draft Desk Study (Sections 1 to 4 of template) for greenfield and simple brownfield sites.
7	Site walkovers in accordance with guidance provided by BRE 348, and site-specific instructions issued by the PM. Write-up of site description section for greenfield and brownfield sites.
8	Prepare RAMs and proposed exploratory hole location plans (Drawing X) for most sites.
9	Organisation and supervision of ground investigation activities (trial pitting, drilling etc) on brownfield sites and intrusive mining investigations.
10	Description of all soil & rock in general accordance with BS 5930 as amended by Lithos guidance in the Handbook. Production of exploratory logs using HoleBASE software.
11	Supervision of soakaway tests in trial pits and drafting of letter report.
12	Field monitoring, sampling and drafting letter report (including GRA to Amber 1), in accordance with Handbook guidance and site-specific briefs issued by PM. Tasks including: <ul style="list-style-type: none"> <li>• Emission rate &amp; concentration of hazardous gases using portable instruments</li> <li>• Monitoring well groundwater level</li> <li>• Retrieval of gas samples using Gresham tubes or Teflon bags</li> <li>• Retrieval of representative groundwater samples using Waterra system, bailers etc</li> <li>• Retrieval of surface water samples from watercourses</li> </ul>
13	Liaison with laboratories regarding sample collection. Draft more complex schedules for geotechnical and contaminant testing in close liaison with the PM & liaison with laboratories.
14	Review of exploratory logs, lab data etc to draft Sections 6 to 17 of SI Report for greenfield and simple brownfield sites. Amendment of conclusions & recommendations section after PM review and discussion.
17	Draft simple invoices to clients.
21	Comply fully with statutory and company policies regarding health, safety and the environment.
22	Background reading to increase understanding of relevant technical issues. Information sources should include: NHBC Standards (Parts 4, 5 & 10), British Standards (esp. BS 5930, BS10175), AGS, BRE, & CIRIA.

### Other duties

- Soil Cover Validation – site visits to check thickness (often with sampling to confirm quality) and drafting of letter report.
- Supervision of remediation projects (incl. drilling & grouting, earthworks, treatment\removal of grossly contaminated soil\fill etc) in accordance with our specification, site-specific briefs and instructions issued by the PM. Duties will include:
  - Supervision and quality control of the remedial and ground preparatory works to ensure that requirements of the Specification are complied with
  - Keeping site records up to date and filed in a logical manner. Records should to include a summary of the day's activities; date and weather conditions; plant, personnel and visitors present
  - Advice on the correct handling of materials and conditions encountered
  - Organisation and supervision of geotechnical control testing
  - Rapid assessment of geotechnical results in order to check that satisfactory compaction is being achieved
  - Rapid assessment of contamination test results and issue of appropriate advice
  - Writing-up the Verification Report
- Works on Network Rail Managed Infrastructure (NRMI).

### Key skills

- Attention to detail; accuracy of factual data
- Enthusiasm to learn and initiative, but with appreciation of own capabilities and limitations
- Reliable and responsible
- Personal effectiveness: organised, good at decision making and problem solving
- Verbal communication - drillers, site workers, laboratories, other Lithos staff, client etc
- Written communication – clear, logical, concise, scientific, grammatically correct, readability

**A full UK Driver's license is essential**