



OUTSTANDING QUALITY, RELIABILITY AND TECHNICAL EXPERTISE

The Element Materials Technology Group is one of the world's leading global providers of testing, inspection, and certification services for a diverse range of products, materials, and technologies. Headquartered in London, UK, Element's c.7,000 scientists, engineers, and technologists work in our global network of over 200 laboratories to support customers across a wide range of sectors and geographies.

Element Deeside is the largest environmental chemistry laboratory within the Element Group. It is a centre of excellence and market leading UK laboratory routinely receiving soils, waters, wastes, sediments, petroleum products, and gases including ambient air and soil vapors, from over 30 countries worldwide including mainland Europe, South Asia and Africa.

ABOUT US

The Deeside laboratory was set up in 2008 by industry experts and caters for leading operators, contractors, engineers and consultants that require a high level of technical expertise, reliability in data quality and seamless project management. The Element team has a wealth of experience in environmental analysis for the energy, waste, mining, marine and contaminated land industries. Business growth and success has been achieved by an emphasis on exceptional project management backed by sound technical advice and a culture of working with each client to achieve a strong working relationship.

The laboratory undertakes the routine analysis of c.170,000 samples per year as well as offering bespoke sample preparations and extractions, non-routine analysis, client specific reporting, method development for exotics/non-routine analysis projects and a high level of client technical support.

WHY USE ELEMENT?

Element analyses soils, sediments, waters, leachates, gases, wastes, and petroleum products producing data you can rely on. In addition we supply all sample containers with appropriate preservatives along with Chain of Custody paperwork, icepacks, and cool boxes.

We organize collections from sites or offices using reliable couriers. We can offer faster turnarounds for your urgent samples (3, 4 or 5 working days, plus transit).

We have a bespoke Laboratory Information Management System (LIMS) which allows us to track every sample & subsample, monitor quality data and monitor stock to ensure we have the right reagents and the right consumables in each area of the laboratory. We provide an on-line portal for immediate access to results as well as delivering results via email in a variety of formats including EQUIS.

We support you technically including bespoke technical webinars, laboratory familiarisation tours and we can develop new methods to meet your non routine testing requirements.

ELEMENT DEESIDE & INDIA

Element Deeside has worked in the Indian market for more than ten years and, on a weekly basis, routinely receives multiple sample consignments. We have an established track record with multiple environmental consultancies and engineering firms and we are also a trusted laboratory for many end clients such as Shell, BP, Exxon, AkzoNobel and Hotpoint.

In addition to our standard testing range we offer analytical packages tailored to the Indian market, such as the Indian Brownfield Suite, along with those required by particular end clients who operate in India.

We have a proven and well-established logistics system and utilize DHL for the delivery of sample containers (preservatives included) and collection of samples. A dedicated Element project manager provides support through all aspects of a project including assistance with paperwork and customs where needed.

ELEMENT DEESIDE

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ACCREDITATION

Quality is at the heart of Element Deeside. We are accredited by the United Kingdom Accreditation Service (UKAS) under the ISO 17025:2017 standard “General Requirements for the Competence of Testing and Calibration Laboratories” and under the UK Environment Agency Monitoring Certification Scheme (MCERTS). The ISO 17025:2017 accreditation is recognized internationally under the International Laboratory Accreditation Cooperation (ILAC) organisation.

In addition, we are currently in the process of becoming a Marine Management Organisation (MMO) approved laboratory.

We hold a Letter of Authority from the Department for Environment Food & Rural Affairs (DEFRA) which licences the import of material into Great Britain for chemical and physical analysis.

We have preferred supplier status for many end market clients.



KEY ANALYTICAL SERVICES

Element Deeside offers standard routine analysis including petroleum hydrocarbons (TPH CWG, EPH, GRO/BTEX), volatile and semi-volatile organic compounds, polychlorinated biphenyls, pesticides, dioxins & furans, metals, anions & cations, asbestos and more.

In addition to the standard testing Element Deeside also undertakes the following:

- Emerging contaminants including PFAS compounds, TOPs assay, 1,4-Dioxane
- Bioaccessibility testing to ISO 17924:2018 / Unified BARGE method for bioaccessibility/bioavailability of metals in soil
- Bioaccessibility testing for PAHs (FOREHST)
- Hydrocarbon Environmental Forensics including aging of diesel spills, PAH double ratio plots, PIANO, interpretation of chromatograms
- Bench Scale Remediation Trials
- Coal Tar analysis for waste disposal purposes
- Dioxins, Furans, PCBs and PAHs for stacks, ash, soils and water
- VOC analysis to comply with BS 10176 – Methanol preserved soil analysis
- Monolithic Leachability (tank test) for waste assessment and physiochemical remediation
- Marine sediment analysis for a wide range of parameters including trace metals, organotins, PCBs, total hydrocarbon content, PAHs, organochlorine pesticides
- VOC and formaldehyde analysis in automotive components and similar
- Method development for non-routine compounds

We have specialist expertise in soil gas/vapor and air analysis using from Suma type evacuated canisters and thermal desorption tubes.

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