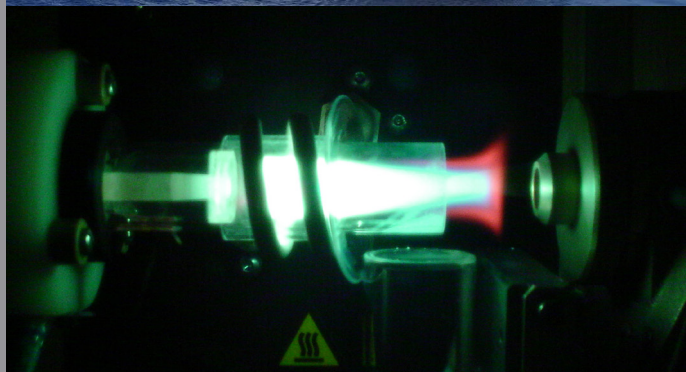
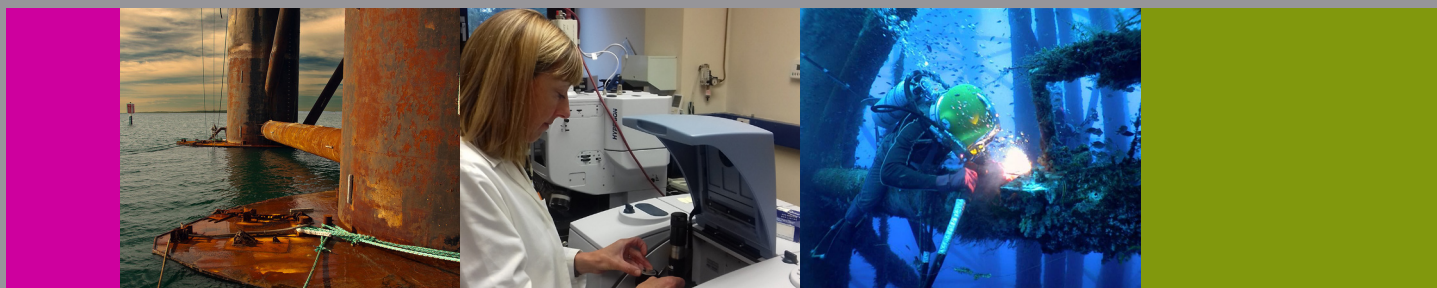


Services for DECOMMISSIONING

The James Hutton Institute is a respected, globally recognised research organisation. Scientists at the James Hutton Institute follow the inspiration of James Hutton, whose observations on Scotland's rock, soils, agriculture and landscapes forever changed the way we think about the world.

Making an impact through science, James Hutton Limited draws on the scientific expertise, intellectual property, facilities and resources of the James Hutton Institute to offer a comprehensive range of analytical, research and development, crop science and scientific project services.



James Hutton Limited has access to research facilities and analytical equipment at the James Hutton Institute's Aberdeen site that have been used extensively to assist both geologists during exploration and operators of offshore installations.

People are what set us apart from other analytical laboratories. The scientists that carry out analyses for James Hutton Limited are dedicated experts in their own techniques with many years of experience, which provides a more detailed understanding and interpretation of results than a high throughput laboratory. A small, close knit team also means that techniques are often combined to find the most accurate results for clients and there are extensive material libraries and experiences to draw from.

Accreditation

The James Hutton Institute analytical laboratories operate to the standards required by UKAS accreditation and many of our routine techniques are accredited. A full accreditation schedule can be found at www.UKAS.com. Search for testing Lab 7541.

Our ability to perform a huge variety of techniques means that in general a one-off analysis may not be accredited but our total commitment to high standards ensures it will be carried out to the exacting specifications that accreditation requires.

Legislation

James Hutton Limited will provide analysis and report to the specification of the appropriate legislation and regulating body.

ANALYTICAL SERVICES

Scientists at the James Hutton Institute have a long track record of working with the oil and gas sector. James Hutton Limited is a leading provider of chemical and geological analysis to the biggest names in the industry. These are just a few examples of James Hutton Limited analytical services which provide valuable information during decommissioning processes.

Identification of unknown substances to support the correct disposal

FTIR Spectroscopy is an extremely versatile technique capable of identifying the chemical composition of unknowns or confirming their identity against reference material. It excels at tackling 'problem samples', identifying unknowns or confirming identification based on a reference material. James Hutton Limited has been commissioned by the Scottish Government Challenge Fund to write a report on the need for identifying unknown chemicals during the process of decommissioning.

Analysis of paint residues to ascertain composition

Tributyltin and toxic metals quantified for environmental contamination compliance.

Heavy metal analysis (ICP-MS)

James Hutton Limited has a long established reputation of analysing soils, sediments and harbour sediments for heavy metals. The techniques will apply to the analysis of spoil piles and sediments at the bottom of tanks during the process of decommissioning.



STATISTICAL ANALYSIS

From concept to collection, sampling can be challenging. James Hutton Limited can provide expert advice on statistically sound sampling strategies to allow the production of robust data for justification of disposal. If sampling in all areas is not possible, the statisticians can provide information on how representative the analytical data is with respect to the total material being analysed. Through Biomathematics and Statistics Scotland (BIOSS), James Hutton Limited can offer an unparalleled array of expertise in the application of mathematics and statistics to decommissioning. Input from BioSS can be included in commercial projects to ensure sound experimental design and robust statistical evaluation or, BioSS consultants can provide advice on and the analysis of third party data for clients.

The Information and Computational Sciences Group at the James Hutton Institute can also provide a structured, data led approach to questions and analyses, providing access to strategically important data sets through conceptual or data models.



ECOLOGICAL MONITORING

The James Hutton Institute delivers fundamental and applied science to drive the sustainable use of land and natural resources. James Hutton Limited can supply expert advice and information for decommissioning based on a wide range of advanced laboratory and field studies, computer modelling, a sound understanding of the UK planning system and close professional links with many regulatory bodies.

Expertise in several disciplines at the James Hutton Institute lends itself to application in decommissioning, not least in monitoring environmental impacts throughout the decommissioning process. This might cover, but is not exclusive to, soil analysis, water analysis, flora and fauna, harbour sediments and leaching of hydrocarbons.