

# Demolition and Recycled Materials

The Materials Testing Division of Environmental Scientifics Group (ESG) provides high quality and independent advice and insitu testing services that are associated with demolition and recycled material processing.

With over 30 years experience we are able to effectively establish whether a material is compliant with a project specification, industry standard and/or legislation. In addition, our engineers and scientists offer specialist advice in a wide range of disciplines.

ESG understands that maximising the potential for a recycled material, particularly through waste recovery, can offer significant direct and indirect cost savings. With this in mind, the visual, physical and chemical assessment of a recycled material is essential to prove that it is no longer a waste and to ensure the best use of the recovered product, both in terms of areas for re-use and in gaining maximum benefit from its properties.

## Areas of expertise include:

- Analytical chemistry
- Asbestos testing and surveys
- Determination of coatings
- Occupational and environmental monitoring
- Physical testing (WRAP Quality Protocol)
- Specialist advice
- Waste classification



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As the UK's largest independent construction materials testing laboratory we understand that quality assurance is vital. ESG's wide scope of sampling and testing methods is based upon current British and European Standards and is accredited by UKAS to comply with ISO/IEC 17025, the management standard for testing and calibration laboratories, and the Environment Agency's MCERTS scheme. In addition, our quality management system meets the principles of ISO 9001:2000 and we hold 'Link-Up' accreditation.

## Analytical Chemistry

ESG provides a comprehensive analytical service that includes the assessment of soil, water and air. Capabilities also include compliance testing of aggregates, concrete and mortar using prescribed BS, EN & ISO standards.

## Asbestos Testing and Surveys

The new asbestos survey guide, HSG 264, which replaces the existing guide for bulk sampling of asbestos in commercial and domestic properties (MDHS 100) was released on 29th January 2010. ESG provides management and refurbishment/demolition surveys, air monitoring and laboratory testing against these new guidelines.

## Determination of Coatings

Prior to the demolition of a structure it is usually necessary to determine the composition of coatings and paints. A paint survey can comprise the recovery of full depth samples for subsequent chemical analysis or, if suitable, a portable XRF is utilised to immediately establish the composition of the paint. In addition to chemical analysis of a sample our laboratories are able to carry out analysis using scanning electron microscopes that determine the composition of each individual paint layer.

## Occupational/Environmental Monitoring

Dust, noise and vibration monitoring and advice are services that ESG provides in-house across the UK. With various methods and equipment available to our scientists we are able to offer both occupational and environmental support before works commence and during the demolition and recycling process.

## Physical Testing (WRAP Quality Protocol)

Our construction materials laboratories carry out various physical tests to determine strength, soundness and long term stability of a proposed material source. These tests ensure that a specific product complies with the WRAP (The Waste & Resources Action Programme) Quality Protocol, thereby maximising waste recovery potential and improving buyer confidence through establishing compliance with the Specification for Highway Works.

Tel 0845 6032112  
sales@esg.co.uk

## Specialist Advice

The WRAP quality protocol covers the production of aggregates from inert waste. Our engineers and scientists are able to provide advice relating to existing or proposed factory production control measures, including the development of an appropriate inspection and testing regime for each different product.

## Waste Classification

When it is not possible to economically reuse a material it becomes necessary to accurately classify it as a waste. Our environmental scientists are able to carry out hazard assessments in accordance with EA guidance and legal requirements and define the type of tests that should be undertaken. Based upon this information various disposal options can then be considered.

## Additional Services

In addition to testing and monitoring ESG is able to provide geo/environmental site investigations, building surveys and non destructive structural inspections.

## For More Information

If you would like more detailed information on the services that ESG provides please do not hesitate to call us on **0845 603 2112**. Alternatively, please email [sales@esg.co.uk](mailto:sales@esg.co.uk) and a member of our team will contact you directly.