OUR SERVICES

Release the Value of Your Land

ABOUT US

ERS is a specialist site investigation and remediation contractor, headquartered in Glasgow and operating throughout the UK. We are an independent, 100% employee-owned, company.

Our mission is to help you "Release the Value of Your Land". We will work with you to design a site-specific solution which meets your needs and allows you to overcome the challenges associated with your site. In other words, we don't offer a one size fits all approach, thereby ensuring cost effective and sustainable solutions.

ERS' multidisciplinary team comes from a wide variety of scientific and engineering backgrounds, allowing us to provide a broad range of site investigation services and cover all aspects of the remediation of complex brownfield, derelict and contaminated sites.

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SOIL AND GROUNDWATER REMEDIATION

The key to finding the right remedial solution for a contaminated site is a detailed understanding of both the site and the stakeholder requirements. This includes: contaminant type and concentration; affected media (soil, vapour, groundwater, surface water); geology; remediation drivers and targets; time and budget constraints; and local environment and neighbours. In ERS' experience, the better and earlier you understand a site, the more options become available.

ERS is a service provider and not a technology or product vendor. Our experienced multi-disciplinary team of scientists and engineers provide the breadth of skills and experience required to consider all of the site's factors and ensure the optimal solution is applied to your site, whether it is off-site soil disposal or a complex in-situ groundwater remediation technique.

With over 25 years of experience as specialist remediation contractor, ERS has an enviable track record of success covering a wide variety of sites and contaminants – literally from Arsenic and Asbestos to Zinc; employing a wide range of remediation techniques, including:

- Bioremediation
- Chemical Oxidation/Reduction
- Soil Washing
- Stabilisation/Solidification

> *"This was a difficult project around occupied homes so I was pleased with the efforts of ERS to accommodate residents."*

MATERIALS AND WASTE MANAGEMENT

“The combination of detailed assessment and on-site analysis cut our disposal costs by 70%”

Sustainability and budgetary requirements align to drive maximum re-use of soils on-site. However, on a development site, ensuring stakeholder confidence is key. In order to provide detailed and auditable reassurance to all involved, ERS designs and implements Materials Management Plans in accordance with the CL:AIRE DoW Code of Practice.

Sometimes off-site disposal is the best option, whether it is required to remove a hazard or because there are surplus soils which happen to be contaminated.

With so many disposal options available and given the massive costs for choosing an incorrect disposal option, including possible fines for getting it wrong, our clients want peace of mind at the right price. ERS’ waste classifiers ensure the correct disposal option is chosen and that any beneficial pre-treatment is undertaken in advance.

ERS brings a detailed understanding of the relevant legislation, professionals who understand the site investigation data, and experienced site staff who recognize the risks and manage them safely, including CAR-SOIL assessments for dealing with asbestos contaminated soils. They are supported by in-house site chemists who can provide real-time on-site analysis for delineation and segregation when required.

SITE INVESTIGATIONS

Site investigations are an essential part of land development. They enable designers to determine geotechnical properties of the ground to aid in foundation design and to determine the presence of any harmful contamination in soil or groundwater to assess risks and determine remediation requirements.

ERS's team of geologists, drillers and scientists can undertake and manage site investigations and provide factual reports to cover all your geoenvironmental and geotechnical needs.

Our capabilities include the undertaking and supervision of trial pitting, windowless sampling drilling, cable percussive drilling, rotary core drilling with dynamic sampling and sonic drilling and the installation of gas, vapour and groundwater monitoring wells.

Our team also undertakes in-situ testing including infiltration testing for soakaway design, dynamic cone penetrometer (DCP) testing, plate load testing, resistivity surveys and site monitoring and sampling.

As a specialist contaminated land contractor, ERS can design and supervise site investigations on contaminated sites (e.g. BDA, red sites) and propose appropriate mitigation measures to protect site staff and the environment.

ERS can also provide high resolution site characterisation for contaminated sites using pXRF analysis for metals and a variety of hydrocarbon analytical techniques.

> *“All requirements for the GI were met and exceeded. Very happy with ERS' performance, particularly site/ post-site management.”*

> *ERS worked hard to achieve our challenging project brief, as well as keeping on top of the resourcing, planning, cost, and communication.*

MONITORING AND SAMPLING

High quality monitoring and sampling data is vital for both the characterisation and remediation of brownfield sites and also for meeting the strict monitoring requirements of licensed industrial sites.

Our team of field engineers and scientists are experienced in collecting accurate and reliable data and trained in the use of a wide range of specialist instruments for the monitoring and sampling of soil, gas, vapour and groundwater.

We use modern instruments operated by highly experienced and trained monitoring staff who will check the data, spot potential problems and report the data in an agreed format.

We have experience of a range of site settings, including both legacy contaminated sites and active industrial sites (oil and gas terminals, manufacturing facilities, landfills etc.)

We offer a wide range of monitoring and sampling services including: surface water and groundwater monitoring and sampling, low-flow sampling, permeability tests (falling/rising head tests), aquifer tests, NAPL thickness monitoring and baildown tests, and gas/vapour monitoring and sampling, including continuous monitoring and fluxbox monitoring.

INVASIVE WEEDS TREATMENT

ERS' highly experienced team of Invasive Weeds specialists work with home owners, property developers, local authorities and other stakeholders to identify, assess, manage and remediate land infested with invasive weeds.

Our expertise covers a wide range of weeds, including Japanese Knotweed, Giant Hogweed, Himalayan Balsam, Buddleja, Rhododendron and many more.

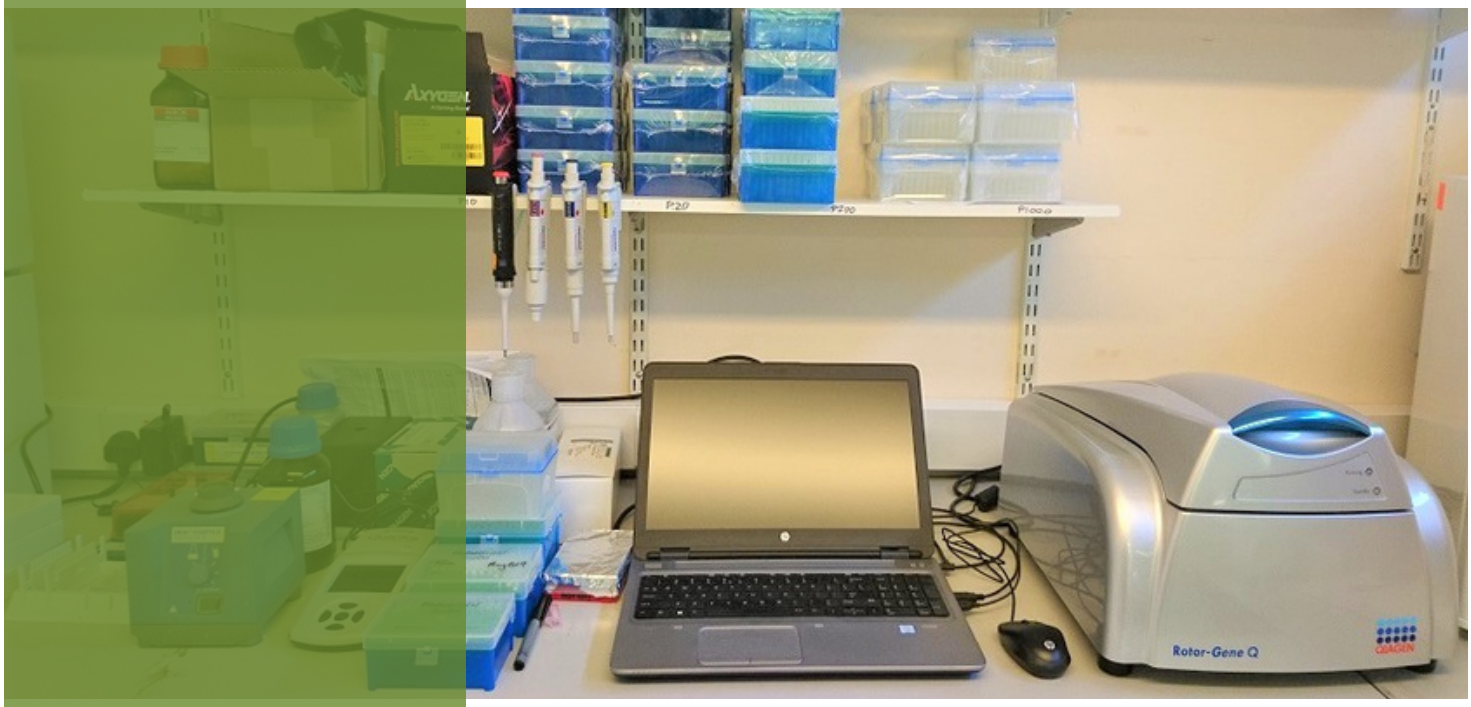
Our treatment programmes start with a thorough site survey to assess the extent of the infestation. This is followed by a complete management plan which outlines the most appropriate treatment methods.

As Property Care Association (PCA) members, we offer a 10-year insurance backed guarantee for all our treatments.

The most common treatment techniques for invasive weeds remediation are in-situ herbicide treatment, excavation and stockpiling for on-site treatment/ off-site disposal or combined excavation and herbicide treatment.

ERS has also successfully employed a variety of barrier systems to prevent weeds returning or spreading on to neighbouring land.

> *“Very happy with the work and performance of the team on site. The job was on time and on budget.”*



LABORATORY TREATABILITY TESTING

Treatability testing can support the technical and financial evaluation of potential treatment options. Laboratory based tests can also be used to monitor the progress and performance of ongoing remediation, helping to ensure that projects proceed as expected.

Our Technical Team includes experienced laboratory scientists skilled in execution of standard testing, and development and validation of bespoke treatability tests.

As well as laboratory scale testing, we can also run pilot scale trials (at our facilities or on your site) prior to full scale treatment to ensure effective remediation technique scale-up.

Our services include:

- Ex-situ soil bioremediation – intrinsic activity and nutrient amendment optimisation
- In-situ bioremediation – total bacteria and specific degrader abundance
- Soil washing – particle size distribution and surfactant selection/ optimisation
- Chemical oxidation – oxidiser/activator selection and optimisation
- Chemical reduction – reducing agent selection and pH conditions
- Stabilisation/ solidification – binder (mix) selection and optimisation

> *“I was very happy with ERS' input to the project and their proactive approach to assist us and our client.”*

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