



Scottish
Water

Development
Centre
Waste Water

Bo'ness

World-Class Waste Water Research and Test Facility

Innovation is vital to meeting the challenges faced by the waste water industry both now and in the future.

Research and academic institutions have a pivotal role to play in developing new and innovative processes and technologies to inform and shape the future of the waste water sector.

Our Waste Water Development Centre offers researchers a unique opportunity to meet these challenges head on. By facilitating access to a pilot-scale testing site, researchers can test and develop prototype products, processes and technologies on an industrial scale for real-world application.

As the only facility of its kind, trials can be carried out under live conditions to facilitate testing and problem-solving on a range of waste water applications.

We recognise that the key to a sustainable future is the successful collaboration between academia and industrial organisations. We are engaging with a number of companies and research institutions to foster a culture of knowledge sharing and co-working, with the aim of delivering industry relevant solutions.



Our Waste Water Development Centre is Scotland's first full-scale test facility dedicated to supporting research and innovation in the waste water sector.

Located on a live, operational treatment works, the centre enables researchers to test, develop and demonstrate new processes and equipment in a safe and dynamic environment.

As our facility carries a Waste Management Licence, researchers have the flexibility to import waste from alternative industrial streams to test on non-domestic sewage, enabling industry relevant results.

The centre benefits from a small-scale waste water treatment test rig, as well as a screening area to facilitate trials at the inlet to the works.

The facility also provides a platform for research students to gain hands-on industrial and practical work experience.

Supported by specialist technical expertise and access to UKAS accredited sampling and analysis services, the centre can be hired out at bespoke commercial rates.

What's included?

- Health and safety assessments before trials begin
- Environmental licences for operating trial units
- Bespoke insurance for equipment*
- Support with funding applications
- Project supervision and access to skilled operators
- Specialist guidance and support
- Modern welfare facilities and a laboratory area

Additional services

- UKAS accredited sampling and analysis
- Access to a small-scale waste water treatment test rig
- Additional operator support

Test areas

Our centre has three test bays, each with live feeds at different stages in the

* *Terms and Conditions apply*

treatment process namely, post screening, post primary treatment and final effluent. Other features of the centre include:

- Screening test area
- Small-scale waste water treatment test rig
- Drainage discharge points
- Compressed air
- Power supply 240v, 110v, 400v

Waste water quality

An indication of waste water entering the centre:

Chemical Oxygen Demand	820mg/l max – 52mg/l min
Total Suspended Solids	171mg/l max – 19mg/l min
Biochemical Oxygen Demand	109mg/l max - 7.4mg/l min
Ammonia	27.24mg/l max - 3.97mg/l min
Alkalinity	400mg/l max – 180mg/l min

Waste water flow

- Maximum of 13,510 m3 per day
- Minimum of 5,271 m3 per day
- Average of 10,800 m3 per day

Find us

Our Waste Water Development Centre is located in Bo'ness, Falkirk.

From Edinburgh (M9) – 20 miles
From Glasgow (M80) – 35 miles

Waste Water Development Centre
Carriden Industrial Estate
Bo'ness, EH51 9NZ

Get in touch

To find out how we can help you or to arrange a site visit, contact Rebecca Skuce, Project Manager:

Tel:
07483 143 439

Email:
swdevelopmentcentres@scottishwater.co.uk

Web:
scottishwater.co.uk/developmentcentres