GOVERNMENT OF WESTERN AUSTRALIA

ChemCentre
EXPERT SOLUTIONS

LEAF Leaching Environmental Assessment Framework

The Leaching Environmental Assessment Framework (LEAF) is a collection of data management tools, leaching tests and methods developed to assess a wide range of waste-derived materials and by-products from a range of industrial processes, including water treatment and mineral processing residues. The LEAF approach can be used to compare scenarios for a range of possible applications of the tested materials.

Why ChemCentre?

- Highest accreditation standards
- Independent and trusted
- Innovation with impact
- Future focused
- Commitment to safety, science, and service

Partner with ChemCentre – Science that Serves the Environment

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Scan for more information

ChemCentre has collaborated with the developers of the LEAF tests from the Energy Research Centre of the Netherlands (ECN), and were the first laboratory to set up this capability in Australia in 2014.

ChemCentre is a NATA accredited laboratory, and provides a full LEAF service of testing, data interpretation, field studies, and consultancy.

LEAF services

ChemCentre offers the four leaching tests recommended under LEAF, each designed to test a different critical release-controlling parameter, such as liquid-to-solid ratios, and varying pH. Our LEAF service complies with the Environmental Standard: Assessing leachates from waste-derived materials, released by the WA Department of Environmental Regulation.

ChemCentre leaching tests recommended

Test	Procedure
LEAF 1313 (USA EPA SW-846 Method 1313)	Liquid-Solid Partitioning as a Function of Extract pH using a Parallel Batch Extraction Procedure
LEAF 1314 (USA EPA SW-846 Method 1314)	Liquid-Solid Partitioning as a Function of Liquid-Solid Ratio (L/S) using an Up-flow Percolation Column Procedure
LEAF 1315 (USA EPA SW-846 Method 1315)	Mass Transfer Rates in Monolithic and Compacted Granular Materials using a Semi-dynamic Tank Leaching Procedure
LEAF 1316 (USA EPA SW-846 Method 1316)	Liquid-Solid Partitioning as a Function of Liquid-Solid Ratio using a Parallel Batch Extraction Procedure