



# HEAP LEACH

Independent Metallurgical Operations Pty Ltd (IMO) has extensive heap leach project experience. This includes significant expertise in the design and management of heap leach testwork programs, project flowsheet development and operations. Our scope of services ranges from geometallurgical sample selection, ore characterisation and mineralogy, through to management of metallurgical testwork, process aspects of scoping and feasibility studies and client representation through engineering and final plant commissioning, ramp up and optimisation.



PROJECT	CLIENT	OUR WORK
<b>Phu Kham Gold Heap Leach Laos</b>	Phu Bia Mining	Metallurgical testwork to confirm heap leach amenability followed by the pre-feasibility testwork. Provision of a commissioning team for the start-up of the heap leach operation.
<b>Etango Uranium Project, Namibia</b>	Bannerman Resources	Sighter test work, pre-feasibility testwork program, project support for flowsheet through to DFS level for Uranium acid heap and agitated tank leach flowsheet options.
<b>NiWest Heap Leach Project, Western Australia</b>	Alliance Nickel	Heap leach feasibility study testwork program including locked cycle and variability testing.
<b>Lake Maitland Uranium Project, Western Australia</b>	Mega Uranium	Alkaline Uranium Heap Leach testwork design, management and reporting, from scoping to DFS.
<b>Grosvenor Gold Project, Western Australia</b>	RNI	Combined CIL and Heap Leach options study and completion of supporting testwork and Project Management for the planned re-start of the Grosvenor CIL plant.
<b>Castle Hill, Western Australia</b>	Phoenix Gold	Complete metallurgical development in support of the BFS. Management of variability testwork. Completion of heap leach amenability studies.
<b>Nabarlek Uranium Mine, Northern Territory</b>	Queensland Mines	Provision of metallurgical support for all areas of the plant and heap leach.
<b>Mt Holland Gold Project, Western Australia</b>	Convergent Minerals Ltd	Management of the metallurgical development for several ore sources including heap leach, CIL and gravity.
<b>Ranger Uranium Mine, Northern Territory</b>	Rio Tinto	Provision of metallurgical support for the operation of the heap leach.
<b>Darlot Gold Mine Heap Leach Project, Western Australia</b>	Red 5	Heap Leach Sighter Amenability testwork programme, to evaluate the development of a heap leach project at the client's newly acquired gold mine. This work included Agglomeration, Percolation and Column Leach Testwork.

► Please contact us for more details on how we can provide you with assistance and support to your project.

[www.indmetops.com.au](http://www.indmetops.com.au)

## IMO Consulting & Operations

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## HEAP LEACH (continued)

PROJECT	CLIENT	OUR WORK
<b>Black Hill Nickel Laterite Heap Leach Project, Western Australia</b>	Cortona Resources	Low grade Ni heap leach concept study.
<b>Mick Adam/ Wadi Gold Project, Western Australia</b>	Waratah Gold Ltd	Third party review of heap leach scoping study including supporting testwork, flowsheet design and capital and operating cost estimates.
<b>Productora Project, Chile</b>	Hot Chili Ltd	Preliminary copper heap leach testwork (bottle rolls and column leach tests).
<b>Buccaneer Heap Leach Project, Northern Territory</b>	Prodigy Gold	Scoping study heap leach testwork design, management and reporting.
<b>Copperhead Gold Project, Western Australia</b>	Hanking Gold Mining	Heap Leach Amenability and Cost Study, including testwork (sizing, head assay analysis, leaching at varying crush sizes, agglomeration and percolation test).
<b>Aphrodite Gold Project, Western Australia</b>	Aphrodite Gold Ltd	Heap leach testwork design and management including: heap leach agglomeration, percolation and column testing.
<b>Mansounia Gold Project, Guinea</b>	Burey Gold Ltd	Scoping evaluation of CIL and Heap Leach capital and operating costs.
<b>Nickel Laterite, Western Australia</b>	Vale	Designed, constructed and commissioned a column leach testwork facility.

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