

# Projects



Resource Development  
Consultants



**North Lanut Gold Treatment Facility, Indonesia**  
Pt. Avocet Bolaang Mongondow  
Engineering Design & Procurement Management

MSP undertook the detailed design, tender and procurement management of Avocet's North Lanut \$6.0m heap leach project located in Northern Sulawesi.



**Simberi Gold Project, Papua New Guinea**  
Allied Gold  
Client Representative

MSP were appointed during project construction to provide assistance as Allied Gold's client representative team for the \$80.0m Simberi Gold Project, located on Simberi Island in Papua New Guinea.

MSP's significantly assisted Allied Gold in achievement of project deliverables and management of key engineering and construction sub-contractors.



**Minjar Gold Treatment Upgrade**  
Gindalbie Gold  
Definitive Engineering Study

MSP were engaged by Gindalbie Gold to provide a Definitive Engineering Cost Study for the \$5.5m upgrade of their existing Minjar circuit to accommodate a CCD and Merrill Crowe circuit.



**MSP Engineering Pty Ltd**  
Resource Development Expertise  
Gold & Precious Metals

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## RESOURCE COMMODITY EXPERTISE

### Industrial Minerals

Mineral sands  
Tantalite  
Tin  
Silica sands  
Salt  
Graphite  
Manganese

### Precious & Base Metals

Gold  
Silver  
Nickel  
Copper

## PROCESS EXPERTISE

Crushing & grinding circuits  
Material handling systems  
Recovery circuits including gravity & cyanidation  
Flotation circuits  
Hydraulic transportation  
Plant upgrades & expansions

## INFRASTRUCTURE EXPERTISE

Remote area housing & camps  
Mine site infrastructure  
Power stations  
Pump stations  
Air strips & wharfs  
Cyclone refuge shelters  
Waste water & sewerage systems



### Resource Development Consultants

Previously known as McSweeney Partners Pty Ltd, with over 40 years experience as a leader in its field, **MSP** has established a reputation of providing simple, innovative and cost efficient solutions that successfully deliver projects which consistently exceed client expectations and performance targets.

**MSP** has a state of the art office facility with dedicated professional and para-professionals including process, mechanical, structural, civil and electrical engineers, design managers, draftspersons, project managers, construction managers and supervisors, and project controllers.

**MSP's** delivery of services is characterised by a:

- Collaborative approach with valued clients based on its years of experience in the resources industry.

**MSP Engineering** is a Western Australian based resource development consultancy specialising in the evaluation, engineering design, project management and construction of minerals processing facilities and associated infrastructure, both in Australia and overseas.

- Capability to mould the engineering and project delivery models to meet the Client's time, quality & cost expectations
- Project management systems and personnel with a culture that supports an Integrated owners team approach, or the provision of total turnkey solutions through Lump Sum, Guaranteed Maximum Price or EPCM project delivery models.

In the past 10 years **MSP** has provided over \$ 300 million in project studies and evaluations, project management and engineering services to its Clients.

These projects have been completed within tight schedules and budgets in accordance with its client's expectations.

## MSP'S KEY CAPABILITIES

### Project Studies and Evaluations

Conceptual scoping studies  
Pre-feasibility studies  
Bankable feasibility studies  
Definitive feasibility studies

### Engineering Design

Metallurgical & chemical process engineering design  
Mechanical engineering design  
Civil engineering design  
Structural engineering design  
Electrical & instrumentation engineering design

### Project Management

Engineering design management  
Integrated owners team representation  
Construction management  
Commissioning & training  
Health, safety & environmental management  
Estimating & scheduling  
Procurement, expediting & logistics management  
Project costs & contracts management  
Risk management  
Quality management systems

### Design and Construction

Lump Sum, Guaranteed Maximum Price & EPCM



## Gold and Precious Metal Expertise

**MSP has over 40 years experience in the design, construction, commissioning and debottlenecking of gravity and CIP / CIL gold and other precious metal processing facilities both in Australia and overseas.**

**MSP** has continually provided efficient, low cost and innovative solutions to its Clients.

**MSP** has designed and constructed modular mobile gold treatment plants for both alluvial projects and hard rock right through to large tonnage CIP / CIL facilities.

**MSP** provides project management and client representation services for the design and construction of precious metal projects.

**MSP** can undertake project assignments from scoping study level through to detailed feasibility and then provide design and construction solutions for full project implementation.



## PROJECT IN FOCUS

### NORTH LANUT GOLD PROJECT

In 2003, **MSP** successfully engineered and provided project management and procurement services for Avocet Mining's North Lanut Gold Project in Northern Sulawesi, Indonesia.

The project is a dump leach operation and incorporated the use of resin leach technology and represents one of the first facilities to be constructed of its kind.

Following a one year construction period, gold production commenced in October 2004.

In 2008, the project achieved a record gold product of 74,000 ounces at very favourable cash operating costs to Avocet Mining.

The project reflects **MSP's** ongoing commitment to providing simple, innovative and cost efficient solutions for its Clients.



**MSP** provides its Clients with ongoing operational technical support services in both a process and engineering capacity to assist in optimising plant performance.

For further information regarding **MSP Engineering's** capabilities and recent project achievements please visit our website.

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

Or contact **MSP** to discuss your project requirements

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