

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

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

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