

# Projects



Resource Development  
Consultants



### Pilot Plant Project Shark Bay Resources EPCM Services

MSP were engaged by Shark Bay Resources to provide a pilot plant for washing solar salt to produce a high quality salable salt for export from both their Useless Loop and Onslow salt operations.

The units were installed onsite and operated by MSP's process technicians.

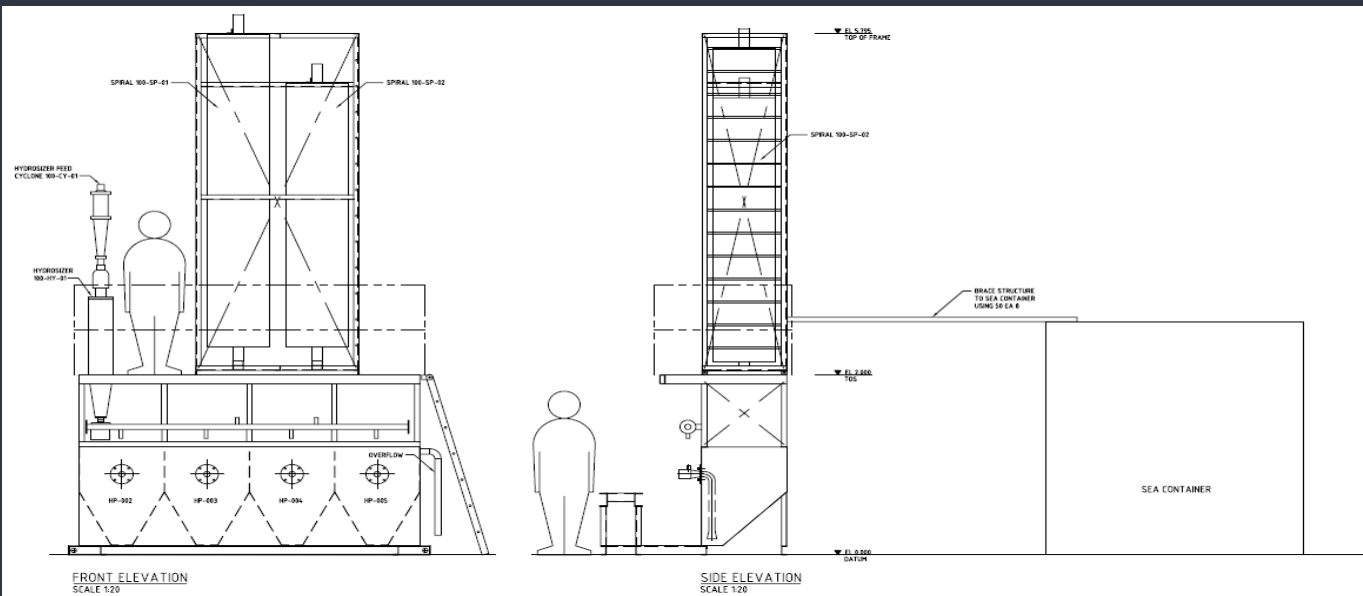


### Marampa Pilot Plant Project London Mining PLC EPCM Services

MSP were engaged by London Mining PLC to design, procure and construct a 5tphr gravity separation pilot plant. The plant was built and tested in Perth and then was packed on to two 20' flat rack containers and was shipped to Sierra Leone.



**MSP Engineering Pty Ltd**  
Resource Development Expertise  
Pilots Plants



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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



## Pilot Plants

**MSP has extensive experience and expertise in the design, construction, commissioning and operation of pilot plants throughout Australia and overseas.**

**MSP** has designed and constructed pilot plants for a wide range of mineral commodities including:

- Mineral sands (Wet & Dry)
- Garnet
- Salt
- Tantalum
- Tin
- Gold
- Diamonds
- Manganese
- Tin
- Tungsten

**MSP** has supplied plants for remote area bulk testwork programmes for continuous flowsheet trials along with individual step process units.

**MSP** metallurgists can work with Clients in selecting the optimal pilot plant configuration and equipment selection and tailor the pilot plant configuration to customer specific needs.

**MSP** also provides onsite metallurgical management of the pilot plant ensuring quality results are delivered including management of assays and interpretation of results for scale up in full plant design.

**MSP** also has extensive experience in designing and constructing full scale operating facilities in both industrial minerals, base metals and precious minerals and can work with the Client in providing studies and or delivering full scale operations.

Typical pilot plants include:

- Spiral circuits
- Heavy Media Separation (HMS) circuits
- Crushing circuits
- Screenings
- Classification
- Dryer circuit
- Magnetic separation
- Electrostatic

**MSP** can also work with laboratories and equipment suppliers to ensure that their test facility and pilot programmes meet specific Client requirements.

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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