

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.

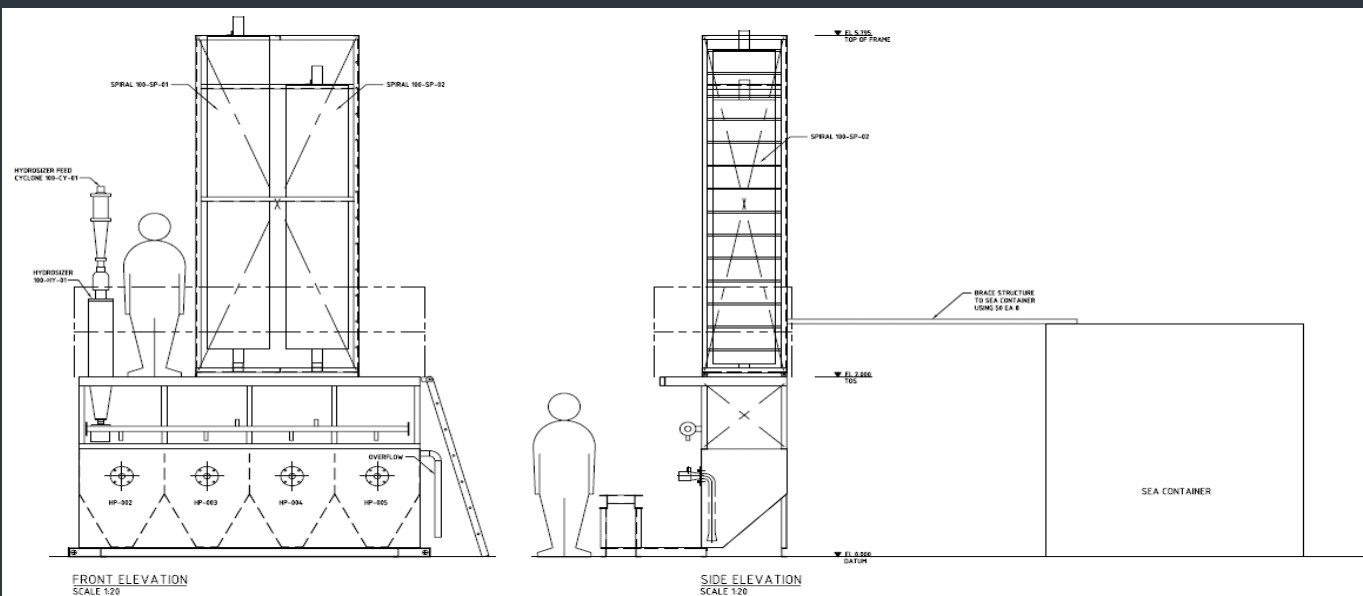


Marampa Pilot Plant Project London Mining PLC EPCM Services

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



MSP ENGINEERING PTY LTD

Suite 3.01, Level 3, 110 Erindale Road, BALCATTA, WA, 6021
Telephone: +61 8 6241 4900
Facsimile: + 61 8 6241 4988
E-mail: admin@mspengineering.com.au
Website: www.mspengineering.com.au

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

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

Peter McSweeney - Managing Director

P: + 61 8 6241 4900

E: p.mcsweeney@mspengineering.com.au

