



FLO-MAX
AUSTRALIA
PTY LTD

PROVIDING
QUALITY
SPECIALIST
SERVICES



COMPANY PROFILE
&
EXPRESSION OF
INTEREST

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"LONG TERM SOLUTIONS THROUGH
SPECIALIST SERVICES"

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Flo-Max Australia Pty Ltd is a 100% Australian owned and operated contracting organisation with an extensive background in pipeline and vessel cleaning, commissioning and testing extending over 25 years.

Flo-Max was incorporated as a 'stand alone' entity in 1995 packaging together the specialist services that is within this profile.

The diverse experience of our technical staff combined with an extensive variety of project work has led to the development of a powerful network of expertise and resources to draw upon

Today Flo-Max's expertise operates throughout Australia, Papua New Guinea, the Pacific Rim and South East Asia.

Branches are located across The Eastern sea board of Australia.





Pipeline Pigging & Swabbing



Chemical Cleaning



Fire Mains Cleaning & Testing



**Pipeline Operations,
Maintenance & Management**



**Pit Dewatering Systems Operations,
Maintenance & Management**



Pump Maintenance & Overhauls



Pipeline Inspections



Consultancy Services



Supply of Pipeline Products



The term “Pigging” refers to the cleaning of pipelines by inserting “pigs” and propelling them through the length of the pipeline usually by the product flow.



PIPELINE PIGGING & SWABBING

WHY? Pig a Pipeline?

- ✓ Pre-commissioning (Gauging, Dewatering, Drying)
- ✓ Pipeline Cleaning for improved Flow Efficiency
- ✓ Assist with Hydrostatic Testing of Pipelines
- ✓ Product Separation using Batching Pigs
- ✓ Removal of Construction Debris
- ✓ Cleaning of Pipeline for Product Conversion

Programmed Maintenance:

Flo-Max recommends to its clients that an on-going cleaning maintenance programme be incorporated as part of their complete pipeline maintenance package.

A complete package would include initial restoration of the client's pipeline to full flow, followed by a programme of regular pigging using conventional soft core Polyurethane pigs powered by the systems own pumps.

This will ensure the pipeline is operating at its maximum efficiency and eliminates build ups such as this.



POWA PIGGING TECHNOLOGY

The Flo-Max Powa Pigging System is a specifically designed process of pipeline cleaning for the removal of hardscale deposits from within pipeline systems



This system employs incremental pigging using, purpose built, controlled sized scraper, scouring and sweeping pigs selected to break and remove hard scales in a manner that is cost effective, safe and addresses all environmental concerns

**“A TECHNOLOGICALLY ADVANCED SYSTEM
TO SOLVE HARD SCALE DEPOSIT PROBLEMS
IN YOUR PIPELINE”**

“LONG TERM SOLUTIONS THROUGH SPECIALIST SERVICES”

**PIPELINE PIGGING &
SWABBING**

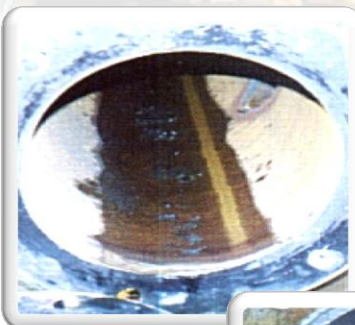


Chemical Cleaning provides a cost effective means of removing scale or deposits from very simple to very complex equipment, tanks or piping systems, complicated by pipe layout, multiple diameters, pressure limitations or access.

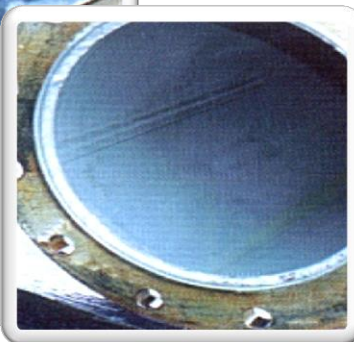


Chemical Cleaning Services Include:

- A. Commissioning of Pipework Systems
- B. Metal Cleaning & Passivation
- C. Removal of Scale
- D. Water treatment
- E. Corrosion Inhibition



Before



After

Examples of Chemical Cleaning Applications:

- Heat Exchanger / Boilers
- Compressed Air Systems
- Oxygen & Nitrogen Systems
- Marine & Instrumentation
- Process Pipelines & Vessels
- Hydraulic Systems





EQUIPMENT

Equipment must be carefully selected to ensure compatibility with the many corrosive cleaning chemicals needed and the corrosive nature of the product remaining on the equipment surface.



PRODUCT DISPOSAL

As in any industrial cleaning process, the waste disposal of both spend chemicals and removed process build up must be handled through specific methods approved by the EPA.

PIG-CHEM TRAINS

Flo-Max Australia's innovative culture and skills in both the technologies of Chemical Cleaning and Pipeline Pigging has enabled the development of simple solutions to the many complex problems often encountered in pipeline cleaning / commissioning.

Pigging techniques are usually employed in conjunction with all phases of the cleaning process and finally to ensure the total removal of all moisture as well as confirming the cleanliness level and gauging of weld penetration.

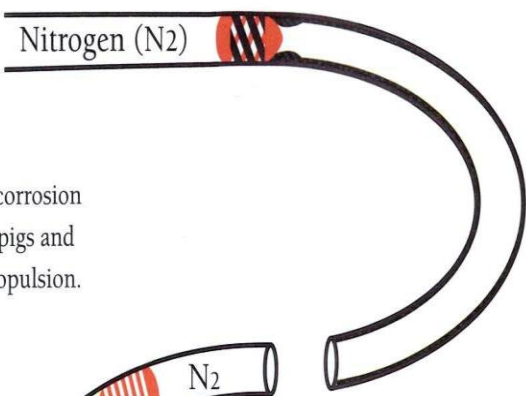
The use of inert nitrogen gas to drive the Pig-Chem Train not only adds a safety precaution but also allows the line to be preserved under an inert atmosphere until the final tie in is completed, ensuring the pipeline's integrity by preventing corrosion.



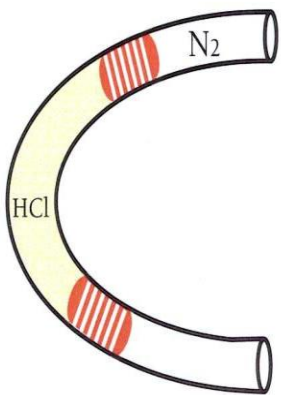


PIG-CHEM TRAINS

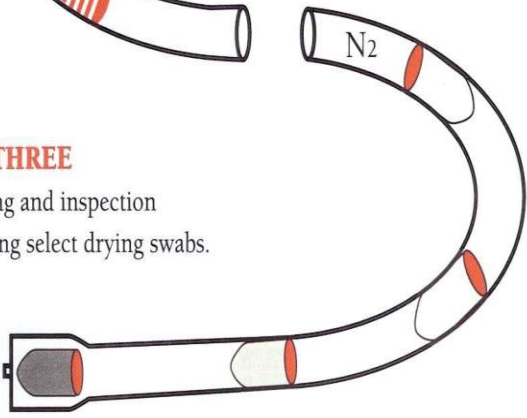
CHEMICAL CLEANING



STAGE ONE
Removal of heavy corrosion scales using select pigs and nitrogen gas for propulsion.



STAGE TWO
Chemical "Train" using batched chemicals for cleaning, passivation and hydrocarbon removal.



STAGE THREE
Final drying and inspection wiping using select drying swabs.



FIRE Are your systems ready and legal?

Australian law requires that all industry fire systems are maintained, tested and in the event of any emergency work.

Our Maintenance Services Include:

- Mains Cleaning for improved flow efficiency
- Systems Flow Testing
- Hydrostatic Testing
- Leak Testing



Flo-Max also have the business relationships to offer a 'Turn-Key' contract including these additional services:

- Pipeline Relining
- Response Maintenance Services
- Programmed Maintenance Services
- CCTV Inspection



It's the law.

Three Year Testing Regime AS2419.1

Water flow commissioning and testing at all pumps and the hydraulically disadvantage hydrants.

3
Every 3 Years

Six Year Testing Regime AS2419.1

Hydrostatic Testing of entire system.

6
Every 6 Years



Pipeline Operations & Management

Flo-Max holds the contract to ensure water supply is maintained to the Oaky Creek Coal Mines and the township of Tieri. The contract holds Flo-Max responsible for the pipeline and pumping station management, maintenance and operation 24 hours a day, 365 days per year.

The systems managed incorporate 78 kilometers of pipeline, associated high lift pumping sets up to 750kw, telemetry control systems, surface and bore pumps, balance tanks and major storages.



Pipeline Maintenance / System Modifications

In addition to the long term contracts, Flo-Max supply total turn key services in installation, upgrade and modifications to reticulation systems.

Contracts include all aspects of pipeline maintenance including internal cleaning, repairs to failed lines, routine valve inspections & maintenance, repairs to erosion prone areas (roads, dam walls & easements), weed eradication & control along the pipeline and around associated infrastructure as well as system modifications and/or the installation of new equipment.



Flo-Max have a number of contracts that involves the management and maintenance of mines dewatering pumps, pipework and pontoons.

Work performed consists of, but not limited to:

- On site personnel carrying out routine inspections and maintenance to the system
- Overhaul of the pumps and pumping sets
- Repairs to electrical motors
- Fitting and regular replacement of pontoon cable and pipeline floats
- Maintenance on MCC Cabinets and associated equipment



All units are regularly serviced according to a strict routine maintenance program developed by Flo-Max for each clients individual requirements



PUMP MAINTENANCE & OVERHAULS



BEFORE



AFTER

Flo-Max Australia Pty Ltd have the technical and skill capabilities to undertake system modifications and/or complete overhauls on any type and size of pump and complete pumping sets.



BEFORE



AFTER





The life-blood of most industries are the water, process and waste pipelines. To ensure the integrity and optimum performance of this infrastructure periodical inspections should be carried out.

Through our association with the management, operation and maintenance of various pipelines qualifies our personnel to carry out thorough inspections of any system. Succinct records are kept on 'Pipeline Maintenance Record Sheets' that are generated for each individual piece of equipment that is on the system.

All information collected onto the 'Record Sheets' is transformed into a detailed report that is issued to the customer. Along with all recommendations and quotations for any works that may be required.



With over 25 years of experience and a diverse range of technical knowledge in any of our core services Flo-Max have the capabilities of offering assistance with all facets of project delivery from the design stage through to final commissioning.

Our services may include:

- Assistance with the design of pipeline pigging systems
- Specification & Tender Preparation
- Project Management services to assist with pigging, chemical cleaning, hydrostatic testing or pipeline maintenance & renovation projects
- Selection of appropriate pipeline equipment

Not only do we have a complete package of our own management, people skills and technology, we are also able to draw on world's best suppliers of pipeline maintenance, protection and cleaning products.



"LONG TERM SOLUTIONS THROUGH SPECIALIST SERVICES"



Pipeline Pigs

Flo-Max Australia Pty. Ltd. Are able to offer a comprehensive range of pipeline products for cleaning, monitoring and control.

Our considerable experience in pipeline maintenance services allows us to provide our customers with qualified practical experience in the selection of appropriate pipeline equipment.

Flo-Max has the technology and knowledge to be able to assist with the design, manufacturing and installation of pig launchers, receivers etc.. For any new or existing line to assist with future pigging of the system.



Pigging Systems



Valves



Flow Meters



Fittings



**Pipeline Protection
Systems**



Flo-Max Australia Pty Ltd has formulated a Quality System based on the elements in the Standard AS/NZS ISO 9001. The Quality System is designed to meet the specific requirements of our company and our customers.

It is the policy of Flo-Max to implement this quality system effectively throughout our operations. This system will optimise and control quality so as to maximise customer benefit and offer a cost effective service. Quality shall be controlled by operational techniques and activities aimed at preventing unsatisfactory performance.

Compliance with the quality system is mandatory to all Flo-Max personnel, and all the staff shall undergo training to ensure that they all understand the company Quality Policy and its requirements.

We also will require effective implementation of the quality policy by our sub-contractors and suppliers.

Our objective for quality is to maintain effective business systems that enable us to:

1. Effectively ascertain our customers needs
2. Effectively plan and design to meet these needs
3. Control all job process in order to fully satisfy of all our requirements
4. Ensure the continuing process capability of all our equipment
5. Ensure all personnel are effectively qualified and trained to undertake appointed tasks
6. In order to improve our quality standards and achieve the company objective, Flo-Max shall continue monitoring the quality performance and comply with those standards required by the statutory authorities and our customers.

It is the policy of Flo-Max Australia Pty Ltd to ensure a healthy and safe workplace, so far as is reasonably practicable, and that all employees are safe from injury and risks to health while at work.

Flo-Max meets this commitment by ensuring that work practices and procedures adopted throughout the company comply with the Acts and Regulations governing Occupational Health, Safety and Welfare.

Management of health, safety and the environment is an integral part of our management responsibilities. All staff and contractors employed by Flo-Max will be held accountable in their areas of responsibility.

All persons employed by Flo-Max will be trained to perform their work safely. The person in control of the relevant workplace to ensure compliance with standards will supervise self-employed persons. Every person is responsible for working in a safe manner, following all safety rules, participating in safety training and communications meetings, identifying any safety and health hazards and alerting his or her supervisor accordingly.

Strict compliance with the Safety and Environment Management Plan is a minimum requirement and it is neither expected nor required of our employees to attempt anything likely to cause them harm.



It is the goal of Flo-Max Australia Pty Ltd to ensure that the activities of the company have minimum impact on the environment and comply with all relevant regulatory requirements.

We must first ensure that each member of our company understands all sources of environmental risks resulting for our specific services before improvements can be addressed.

We have devised an Environmental Management System that defines objectives, assigns responsibilities and will regularly review progress to ensure that our policy is maintained.

To achieve our environmental goal we will:

- ☀ Comply with applicable environmental legislation and regulations
- ☀ Develop in-house knowledge of effects associated with our service activities: in particular, the disposal of our clients waste
- ☀ Correctly transport and dispose all environmentally damaging waste projects
- ☀ Strategically plan to reflect market needs concerning the environment
- ☀ Continuously upgrade our standards of personnel knowledge, equipment processes and procedures
- ☀ Maintain sound recording system to document all aspects of progress made on environmental objectives
- ☀ Reduce waste and consumption of resources and production of pollutants
- ☀ Pursue new technologies to reduce client waste by waste recovery and reduction methods

Flo-Max Australia Pty Ltd accepts the responsibility of ensuring minimisation of all action that could damage the environment and that commitment is an expectation of all its personnel.



Anglo Coal
Dawson Mine, QLD
Moranbah North, QLD

Bucyrus
Mackay, QLD

Bundaberg Sugar
Millaquin Mill

Capcoal
German Creek Mine, QLD

Carpentaria Gold
Ravenswood Mine, QLD

Councils & Water Boards
Banana Shire Council, QLD
Gisbourne Water, VIC
Goulburn Valley Water, VIC
Gold Coast City Council, QLD
Hunter Water, NSW
Livingstone Shire Council, QLD
Mackay Water, QLD
Maryborough City Council, QLD
Melbourne Water, VIC
NQ Water, Townsville QLD
SA Water, SA
Sydney Water, NSW
Western Water, VIC

Howick Coal
Arkhill, NSW

Illuka resources
Murray Basin, VIC

Initec Pivot
Gibson Island, Brisbane QLD
Phosphate Hill, Mt Isa QLD

Lihir Gold Limited
Lihir Island, PNG

Mackay Sugar
Farleigh Mill, QLD
Marian Mill, QLD
Pleystowe Mill, QLD
Racecourse Mill, QLD

Ok Tedi Mining
Kiunga, PNG

Porgera Joint Venture
Porgera Mine, PNG

Ravenswood Mine
Ravenswood, QLD

Rio Tinto
Boyne Smelter Ltd, QLD
Hail Creek Mine, QLD
Kestrel Mine, QLD
QLD Alumina Ltd, QLD

Roche Mining
Coppabelle Mine, QLD

Tarong Coal
Kingaroy, QLD

Taronga Zoo
Sydney, NSW

Thiess
South Walker Mine, QLD

Xstrata Coal
Newlands Coal Mine, QLD
Oak Creek Coal, QLD
Mt Isa Mines, QLD

Flo-Max would be happy to provide reference contacts for any of our clients. Contact you nearest Flo-Max representative for any further information.

"LONG TERM SOLUTIONS THROUGH SPECIALIST SERVICES"



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FLO-MAX
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24 HOURS / 7 DAYS

"LONG TERM SOLUTIONS THROUGH SPECIALIST SERVICES"

7. CONTACTS



For additional information on our services and to view some past projects please peruse our official web site on the following address:

8. WEB SITE

www.flomax.com.au

