

## PROJECT SHEET

# Wet Process Engineering

### WET PROCESSING

Carnot has helped clients with the specification, design and sourcing of a range of wet minerals processes and equipment. Carnot brings experience and knowledge from a broad range of minerals industries together with waste water treatment, desalination and product development. We are at ease with various conventional technologies and keep abreast of new technologies and innovations. We excel at identifying the best solution for our clients specific needs because we are not allied with any one particular technology or supplier.

### RELATED PEOPLE



**Dean Goble**  
Senior Project Engineer

With qualifications as a materials engineer, Dean has 15 years engineering experience in diverse fields such as materials processing, desalination and water treatment, energy technologies and product development.



**Nigel Woodman**  
Principal Engineer

Nigel is a mechanical engineer with 15 years experience in engineering design, product development, project management and field commissioning of heavy engineering equipment. He is a founding Director of the Company.

### PROCESS AND PLANT DESIGN

Our experience spans the following process area

- » Dewatering / separation processes:
  - Filtration
  - Degritting screws
  - Spirals
  - Dewatering screens
  - Thickeners
  - Clarifiers
  - Hydrocyclones
  - Centrifuges
- » Slurry handling
  - Wet milling
  - Slurry pumping
  - Sensors
- » Desalination
  - Thermal desalination (MVC, MSF)
  - Membrane desalination
- » Solute recovery
  - Precipitation
  - Crystallization
  - Evaporation ponds

### RECENT PROJECTS

- » Carnot has undertaken the following design and project management projects:
  - Design of evaporation ponds for concentration and crystallization of brine discharge
  - Pre-feasibility investigation for recovery & reuse of water from plant and tailings at major gold plant
  - Design of filtration process and selection of equipment for sludge dewatering at secondary aluminium plant
  - Specification and selection of crystallization system for recovery of salt products.

For more information visit [carnot.com.au](http://carnot.com.au)

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