

## Port Botany Container Terminal Expansion

Principal: Sydney Port Corporation

Location: Botany Bay, Sydney, NSW

### Overview of Project

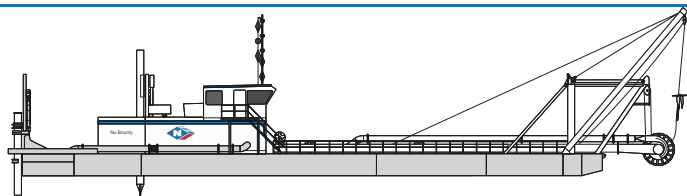
Port Botany Container Terminal Expansion was a significant infrastructure project for the Sydney Port Corporation on the North Eastern end of Botany Bay, South Sydney N.S.W. The project was to expand the existing container port terminal and involved capital dredging and land reclamation. Neumann Contractors employed their 450mm dredge *Nu Bounty* and 250mm dredge *Nu Enterprise*.

### Scope of Works

- Mobilisation to site 1 x 450mm dredge, 1 x 250mm dredge, 1 x spreader barge, booster station, 800m of 450mm pipe, 450m of 250mm pipe and support vessels.
- Dredging of 2,100,000 cubic meters of sand for land-based reclamation.
- Dredging of batters around the boundaries of the project.
- 250mm dredge *Nu Enterprise* dredged shallower areas within the Penrhyn estuary.

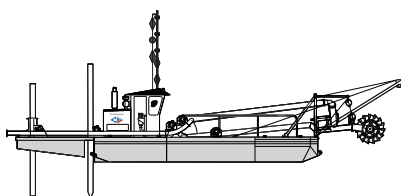
### Challenges

- Critical dredging tolerances.
- Tight project delivery timeframes.
- Extreme and sudden changes in water and weather conditions.
- Interfacing with other project construction activities.



Nu Bounty Cutter Suction Dredge

Length (short/long): ..... 33.4/41.30m  
 Nominal Production Rate:.....650m<sup>3</sup>/hr  
 Total Power/Power at Pump: .... 1,454/1,044kw (1,950/1400 hp)  
 Pipeline Diameter:..... 450 mm  
 Maximum Digging Depth (short/long): ..... 15/22 metres  
 Gross Weight (short/long):..... 220/240 Tonnes



Nu Enterprise Cutter Suction Dredge

Length:..... 12.0m (18.0m LOA)  
 Nominal Production Rate:..... 125m<sup>3</sup>/hr  
 Total Power/Power at Pump: ..... 216/172kw (290/230 hp)  
 Pipeline Diameter:.....250 mm  
 Maximum Digging Depth:.....7.5 metres

Gross Weight: ..... 32 Tonnes