Object
Solidification of silty and sandy soil with in-situ soil-cement mixing for construction of boat berth and channel walls.

Project Description
Foundations and soil retaining walls for construction of a private luxury boat house, 25m long boat berth, channel walls and boat ramp.

Type of Work

Owner
Private.

Designer
Warnes Associates Co., Ltd.

Project Schedule
June 2006

Construction Method
- Mechanical Deep Soil Mixing
- Pile Driving

Construction Details
- Soil-Cement Columns: 1,707 (Ø0.8mx4-8m)
- Driven Piles:
  - 0.25x0.25x10m = 64
  - 0.30x0.30x10m = 86
  - WF 250x250-64.4kg = 23
  - H 10x10-17.2kg = 47

Subsoil Conditions
- Silty fine sand: 0.0-9.0m
- Hard silty clay: 9.0-12.0m
- Weathered Rock: 9.0-12.0m

REFERENCES:

Installation of concrete facing walls for boat berth and ramp by other — soil retained by soil-cement columns.