



## Project Data Sheet



**Project** River-Estuary channel improvements to Port of Haiphong.  
**Client** Government of Vietnam  
In association with HR Wallingford, sub-consultants to Nippon Koi.  
**Project**

- Study of entire river and estuary system, approximately 40km, from Port of Hai Phong to open sea.
- Design of improved navigation channel to provide access for larger ships. Estimation of volumes of dredging to achieve the design channel profile and alignment.
- Determine alternative and optimum dredging plant and methods, estimate production rates and execution times, estimate costs for execution of capital dredging by international contractor.
- Propose alternative plant for direct labour operation for future post-improvement maintenance dredging, estimate production rates and annual costs.
- Report on environmental implications of the various alternative dredging methods and measures to be taken to minimise environmental impact.
- Examine and report on options for disposal of materials arising from capital and maintenance dredging, including land reclamation and disposal at sea.
- Recommend scope of further investigations, including: ground investigation, hydrographic investigations, tidal analysis, impact on fisheries, etc.

**Dates** Study commenced in 2000  
**Capital Value** \$10's millions, subject to options