

“Where will our knowledge take you?”

Specialist Dredging Services

Offshore Geotechnical Investigations



The collection of geotechnical data is a key step in the planning process for dredging and port related construction works. The availability of this data allows for the accurate interpretation of the sub-seabed conditions that are likely to be encountered. This information is subsequently required for the design of marine structures such as jetties or wharves, dredged navigation areas including channels, turning

“ **BMT JFA has extensive experience in the planning and execution of offshore geotechnical investigations.** ”

basins and berth pockets, and reclamation areas. The availability of accurate geotechnical data is also critical in the selection of suitable dredging plant and equipment, and the determination of the anticipated dredging costs. Typically, BMT JFA provides overall project management services to the client, with the provision of specialist services undertaken by suitably qualified contractors (e.g. drillers, divers, geotechnical engineers, etc) operating under BMT JFA’s overall supervision.

Key Capabilities

- Planning of offshore geotechnical investigation works
- Tendering and contract management
- Project management and site supervision
- Project close out.

Related Projects

- Southdown Magnetite Project
- Oakajee Port Development
- Wickham Point, Darwin.

Services Offered

- Review and assessment of available site data to assess requirements for additional data collection
- Planning of offshore geotechnical investigation works, including the selection

of proposed investigation methodologies and locations (including diver surface sample collection, vibro-coring, water jet probing, borehole drilling, cone penetrometer testing, field testing, laboratory testing, etc)

- Identification of likely project constraints, including anticipated environmental conditions
- Determination of an appropriate project execution methodology
- Preparation of detailed budget estimates for the works
- Tender preparation for the respective contractors, including drillers, jack-up platform (JUP) provider, crew transfer vessel(s) and for the provision of geological logging and factual reporting services
- Evaluation of tenders and preparation of recommendation report(s)
- Project management during the works, including regular liaison with contractor and key project stakeholders
- Production tracking and reporting and verification of contractor claims/logs
- Safety and environmental compliance auditing of all site operations
- Project closeout, including the review and acceptance of final geotechnical reports submitted by subcontractors.