

“Where will our knowledge take you?”

Specialist Dredging Services

Dredge Disposal, Reclamation and Ground Improvement Works



“ The determination of the optimal location and methodology for the disposal material removed during a dredging process is a major consideration for all dredging. ”

comprehensive assistance in the consideration of such pertinent factors in order to determine the most appropriate method for the disposal of dredge material. Where land reclamation is the preferred approach, BMT JFA’s experience and expertise extends to the design of the reclamation area and the determination of the optimal construction methodology, including the staging of site works and management of the tailing overflow to minimise environmental impacts. BMT JFA will consider the geotechnical stability of the proposed reclamation area structures and is able to procure and manage the execution of detailed geotechnical stability assessment studies if required. This role includes the identification and assessment of any required ground improvement works following construction.

Key Capabilities

- Planning of the disposal aspects of dredging works
- Design of underwater disposal ground, and reclamation areas
- Management of geotechnical stability studies
- Assessment of ground improvement requirements and methodologies.

Related Projects

- Esperance Port Expansion
- Geraldton Port Expansion
- Port Coogee Development
- Bandy Creek Reinstatement Project
- Southdown Magnetite Project.

Services Offered

- Identification of project requirements and likely constraints dictating the disposal requirements
- Assessment of dredge material disposal options including reclamation studies and/or offshore disposal
- Provision of assistance/input in the environmental approvals process
- Design of reclamation areas and offshore disposal locations to maximise efficiency and minimise environmental impact
- Assessment of ‘constructability’ for dredge disposal locations including the consideration of any environmental constraints (i.e. capping requirements)
- Development of staged construction methodologies for reclamation areas whilst considering environmental or geotechnical requirements
- Management of geotechnical stability studies to confirm the structural integrity of reclamation area designs
- Assessment of future use requirements for reclamation sites, and consideration of any ground improvement requirements
- Management of ground improvement studies.

Factors that need to be taken into consideration in the identification and assessment of dredge disposal options include environmental constraints, beneficial re-use opportunities, geotechnical soil strata of the dredge material, future usage of the reclamation sites, dredging methodology and the proximity of the disposal site to the dredge area(s).

BMT JFA provides