

SELECTED PROJECT PORTFOLIO

Project: Underwater Sound Reduction from Gravel Islands
Client: U.S. Department of Interior, Minerals Management Service

Services Provided:

- Investigated causes of underwater noise generation from gravel islands during production activities.
- *Northstar* gravel island (owned and operated by BP Exploration (Alaska)) was used as a 'prototype' gravel island for research purposes. Airborne noise and vibration data were collected on the island. Underwater noise data was provided by BP.
- Identified major sources of underwater sound for *Northstar*, and applied them to a generic gravel island.
- Identified major propagation paths from sources to the water.
- Identified potential methods for reducing underwater sound from 'generic' gravel islands, ranging from structural modifications to resilient mounting and other machinery treatments.