To meet growing client demands for integrated geophysical and geological data recovery, EGS operates its own suite of geotechnical coring equipment and Cone Penetration Test units for ground truthing.

Applications include:

- Submarine cable route Burial Assessment Surveys
- Oil/Gas pipeline route and platform site surveys
- Port and harbour developments
- Dredging and reclamation studies
- Mining volume and ore resource estimates
- Sampling for geochemical analyses for oil exploration and environmental monitoring
- Windfarm investigations

EGS is an independent leading international group of marine survey companies which has offices in Asia, the Middle East, Australia, Americas and the United Kingdom. EGS provides global specialist multi-disciplinary support to the offshore construction, Oil & Gas, telecommunications, power, mining industries. The Group employs more than three hundred and fifty staff worldwide from the fields of surveying, oceanography, environment, engineering, electronics, geophysics and the marine environment.

The EGS Group

Australia, Hong Kong, Indonesia, Kazakhstan, Malaysia, Philippines, Singapore, United Arab Emirates, United Kingdom, United States, Vietnam
SEABED SAMPLING
Seabed and subsoil sampling provides geological samples required for geotechnical testing for engineering design as well as to ground truth geophysical survey results. Soil sampling also provides material for geochemical analyses for both exploration and environmental purposes. EGS successfully operates a number of seabed sampling and coring systems including:
- Grabs (Van Veen, Shipek) and box samplers
- Vibrocorers up to 7m length in 2 to 250m water depth
- 3 to 6m gravity corers and 6m piston corers to 2,000m water depth
- Soil sampling and rock coring to 100m below seabed from jack up or floating barges in 0 to 30m water depth

CONE PENETROMETER TESTING (CPT)
EGS have carried out thousands of cone penetration tests (CPTs) across the globe. It is a cost effective method of measuring the geotechnical properties of the shallow seabed materials. Equipment is mobilized to site efficiently through a modularized approach where either inshore survey equipment is compact enough to be air freighted, or the larger offshore equipment together with offices, laboratories and workshops are containerized for shipping.
EGS also owns standard 3m push, 100KN seabed CPTs with 10cm$^2$ cones and 3m push sampler to 3,000m, and up to 30m push in nearshore conditions.
Parameters measured by the CPT are:
- Tip resistance
- Sleeve friction
- Friction ratio
- Pore water pressure

Allowing interpretation for:
- Soil type
- Soil profile
- Undrained shear strength
- Soil density

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