

news

IGS News

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Geotechnical Services

CPT & Piezocone

Dilatometer

Seismic Dilatometer

Vane Shear

Tee-Bar

Piston & Eziprobe Sampling

Piezometer Installation

In Situ Permeability

Field Fleet ("the girls")

Esme – 10-20t all-terrain



Beryl – 15t 4 wheel drive



Eunice – 20t 6x4 bogey



Baby Jayne – 15t portable



Introducing "Tough Tommy"

our new 13t articulated-rubber-track rig



remote
control
by
wireless
for
tough
access,
load &
unload
etc

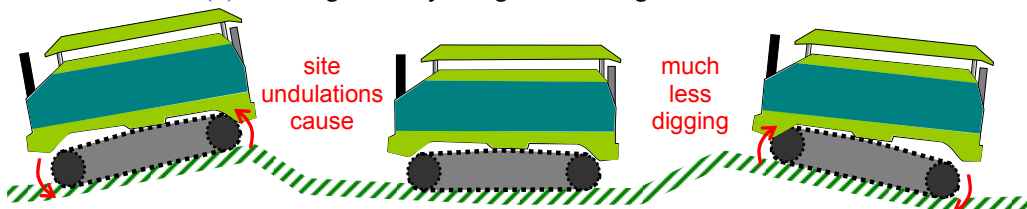
IGS

"new"
"tough"
"small"
"clever"

Allan went to China and had the tracks made especially for IGS - to our own design

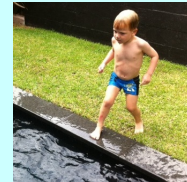
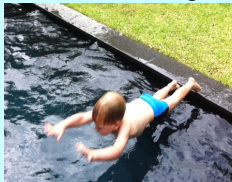
Why articulate the tracks?

Normal rigid-track rigs induce high local ground contact stresses, causing track ends to dig in and damage sites. Articulated tracks, a true innovation on this rig, can follow the ground much more closely, distribute the rig load much more uniformly, and hence (i) access softer sites and (ii) cause significantly less ground damage on all sites.



What's in the name?

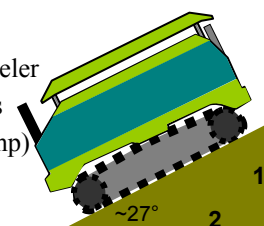
Tough Tommy is named after Allan's grandson - Thomas.



Judge for
yourself if
the name
fits

Tough Tommy can:

- travel to site on our own dog trailer or on our own Acco 8-wheeler
- travel across soft ground with less damage than other track rigs
- push to 130kN (using a fantastic Geomil 20t pusher & rod clamp)
- climb a site's slope of 1:2 or steeper - fully loaded.
- do any testing or sampling from IGS's normal list



reducing geotechnical uncertainty

Insitu Geotech Services Pty Ltd



ABN 46 091 597 661



reducing geotechnical uncertainty



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RIGS AVAILABLE FROM IGS

21 February 2012



Esme

Well-proven all-terrain rig.
Already worked on many projects.
Large balloon tyres that can run at very low pressures.



Tough Tommy - New

Just completed. 13t
Articulated rubber tracks designed to access soft sites and minimise ground damage.
Can climb <1:2 slopes.



Beryl

Well-proven 15t 4x4 truck rig.
Already worked on many projects.
High ground clearance for off-road work.



Eileen - in two weeks

Under construction. Complete before March.
9t 4x4 truck rig with very high ground clearance.
Massive floatation tyres
8t winches front & back
For rough terrain access.



Eunice

Well-proven 20t+ 6x4 truck rig.
Already worked on many projects.
Suitable for hard track access.

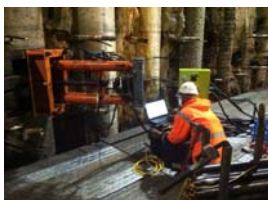


Anne

Rugged 15t 6x4 truck rig.
Most suitable for hard track access, but can be used off track if the ground is hard.
Handles reasonably rough terrain



Multi-Purpose Rigs Baby Jayne & Little Jack



Minnie

Self-contained and self-propelled mini-jack-up rig.
For difficult access water-covered areas.
Can work in water depths from 0.5m to 4.0m.

Note that while nine different rigs are shown above (all currently available for any projects), IGS is staffed to run any five rigs at one time on a continuous basis. For short durations, one other very experienced crew can be deployed, using our supervisory staff. Rigs can be chosen from the above "menu" based on best-for-project suitability.

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reducing geotechnical uncertainty

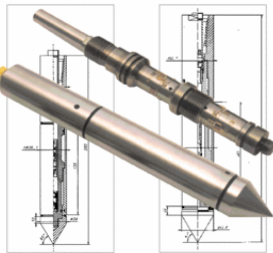


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TESTS ETC AVAILABLE FROM IGS

21 February 2012



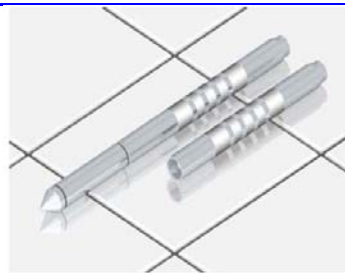
10cm² CPTu

Our C10 piezocones are calibrated by us to exceed Application Class 1 accuracy as defined by the draft international standard for CPTu - EN-ISO 22476-1.



15cm² CPT & CPTu

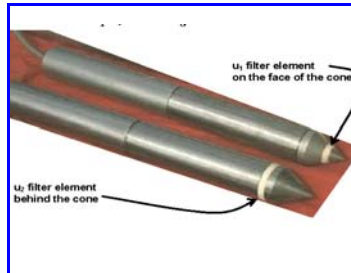
Our 15cm² subtraction cones are calibrated by us to a very high standard. They are more robust than 10cm² CPTu cones and are suited to faster site profiling.



Soil Moisture Probe

Our SMP module is mounted above a 15cm² CPTu (piezo) cone.

In situ probing of moisture content, conductivity and temperature.



U1 & U2 Piezocones

The U2 position behind the cone tip is standard.

The U1 position provides much better pore pressure response in difficult (even "near-impossible") soils. It can be used for PPDT.



Tee Bar

A full-flow penetrometer for use (only) in soft clay.

Mark Randolph (UWA) and Tom Lunne (NGI) claim "If S_u is the key issue use Tee Bar in addition to CPTu".

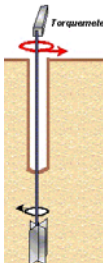
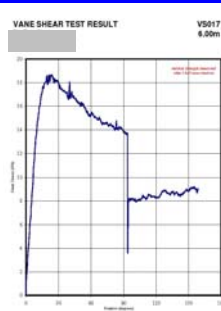


DMT & SDMT

Marchetti's Dilatometer and Seismic Dilatometer.

Determine soil modulus, strength and other properties.

The seismic module can also be used in boreholes.



Vane Shear

Our vane shear system from Geomil is PLC speed controlled and logs torque and rotation angle direct into a spreadsheet for plotting.

It can be adapted to borehole testing for use on any project if desired.



Also Eziprobe and 83mm & 95mm Window Samplers



Our own PPI Piston Air-Injection Sampler

Note that, in addition to the above, IGS can very efficiently install a range of piezometers. These can be either of the Casagrande open standpipe type or more sophisticated vibrating wire types.