A2.4 Sidewall Core Descriptions

SWC #1 3099.77m Rec.: 2.5cm

Basalt: dark grey, friable, hard in parts;
- friable parts; fine sand, grey, mainly clear, some grey and light brown, angular, probably crushed while removing the sample from the bullet.
- harder parts; dark brown, pinkish brown groundmass (very fine-grained), with larger (fine to occasionally coarse) green glassy crystals.

SWC #2 3072m Rec.: NIL

SWC #3 3050.95m Rec.: 1.5cm

Basalt: dark grey, hard, fractured, very fine-grained crystalline groundmass with fine black and green crystals, weathered in fractures, calcareous throughout. Trace dull yellow mineral fuorescence.

SWC #4 3005.06m Rec.: 3.0cm

Laminated Siltstone and Sandstone:
Siltstone; medium grey/brown, firm, very argillaceous, fine with sandy interlaminations approximately 1 to 2 mm wide and 'floating' very fine sand grains.
Sandstone; medium grey/brown, soft, very fine to fine, angular, very argillaceous with dark specks, visible porosity nil to trace, very dull mineral fluorescence.

SWC #5 2967.03m Rec.: 2.0cm

Sandstone: white, firm, fine, angular quartz and lithic fragments, poorly sorted, white argillaceous, calcareous matrix. Dull yellow mineral fluorescence.

SWC #6 2899.93m Rec.: 2.0cm

Sandstone: white, friable, very fine to fine, angular, poorly sorted, white clay and silt matrix, quartz and biotite mica grains, approximately 20% dark grains and biotite mica.

The remaining 24 sidewall core bullets failed to fire due to a broken arming wire and a faulty detonator. The former may have been the result of the extra handling the tool recieved firstly while reloading the gun with hardened bullets for shooting the basalt and then when the tool was pulled out of the hole to try and fix the gamma ray after it failed at about 2500m. The two bullets which failed to fire were adjacent in the gun and so prevented the arming of subsequent shots. Time constraints in the turnkey contract prevented the rerunning of the tool.