



# STRUCTURAL SOILS

## KEY TO EXPLORATORY HOLE LOGS

### SAMPLING

B	Bulk disturbed sample.
BLK	Block sample.
C	Core sample.
CBR	CBR mould sample.
CS	Core sample taken from rotary core for laboratory testing.
D	Small disturbed sample.
J	Glass jar sample.
LB	Large bulk disturbed sample (for earthworks testing).
P	Undisturbed pushed piston sample - 102 mm diameter, 1000 mm long.
TW	Thin walled push in sample.
U	Undisturbed driven tube sample - 102 mm diameter, 450 mm long. Number of blows indicated.
VL	Vial sample.
W	Water sample.
U+, P+	No recovery in undisturbed sample.

### IN-SITU TESTING

SPT	Standard Penetration Test using split spoon sampler. (SPT <sub>(NR)</sub> indicates 'No Sample Recovery').
SPT <sub>(c)</sub>	Standard Penetration Test using a solid 60 degree cone. The N Value is the number of blows required to complete a test drive of 300 mm after a seating drive of 150 mm or 25 blows. Where the full test drive is not completed, a linearly extrapolated N value is given and suffixed by a '*' character. 'NP' denotes No Penetration in the Test Drive.
HP	Hand Penetrometer Test. Value given as shear strength cu, in kPa.
V <sub>(cu)</sub>	Field Vane Test. Peak value given as shear strength cu, in kPa.
V <sub>(cr)</sub>	Field Vane Test. Residual value given as shear strength cr, in kPa.
G	Gas Test
PID	Photo Ionisation Detector Results, in ppm.

### DRILLING RECORDS

W	Water flush returns.	Core	Hole progressed by rotary coring techniques.
TCR	Total Core Recovery, %.	O/H	Hole progressed by rotary percussive drilling techniques.
SCR	Solid Core Recovery, %.	W/S	Hole progressed by dynamic drilling techniques.
RQD	Rock Quality Designation, %.		
If	Fracture spacing, mm. Where variable, the minimum, average and maximum spacing may be quoted. 'NI' denotes non intact core. 'NA' denotes not applicable.		

### WATER COLUMN SYMBOLS

	First water strike, second water strike etc.
	Standing water level following first strike, standing water level following second strike etc.
	Seepage.
	Standing water level recorded at documented date.

### INSTRUMENTATION SYMBOLS

	Arisings		Gravel filter		Sand filter		Bentonite seal
	Bentonite cement grout		Concrete		Solid pipe		Slotted pipe
	Stopcock cover		Upstand cover				

- NOTES:**
1. All soil and rock descriptions and legends in general accordance with BS5930:1999.
  2. All lengths used to determine rock core mechanical properties taken along the centre line of the core. Obvious induced fractures have been ignored.
  3. The assessment of solid core is based on lengths that show a full diameter and not necessarily a full circumference.
  4. Material types divided by a broken line ( - - - ) indicates an unclear boundary.