| Shearbox Test - consolidation  |                      |  |          |  |
|--|----------------------|--|----------|--|
| Shearbox test - specimen data  |                      |  |          |  |
| Location   | Job ref.             | Job ref.   |          |  |
|  | Borehole/Pit         | t no.  |          |  |
| Soil description   | Sample No.           | Sample No.                                       |          |  |
|  | Depth                |  | m        |  |
|  | Date                 |  |          |  |
| Test method BS1377: Part 7: 1990   | 5/15/94 <b>4/5</b> * |  |          |  |
| $\frac{1}{1000} = \frac{1}{1000} = 1$ |                      |  |          |  |
| Machine no Type of specimen  |                      |  |          |  |
| undisturbed/compacted/loosely deposited*   |                      |  |          |  |
| Prenaration procedure  |                      |  |          |  |
| Weighings g Initially  | After test           | Nominal dimensions                               |          |  |
| Wet soil + cutter + tray*  |                      | Length L <sub>4</sub> mm                         |          |  |
| Dry soil + cutter + tray* g  |                      | Longui La mm                                     |          |  |
| Cuttor + tray  |                      | $\Delta ros = \Delta mm^2$                       |          |  |
| Wat soil   |                      | Height H mm                                      |          |  |
| wet soli g   |                      |  |          |  |
| Dry soil g   |                      | Volume V cm <sup>2</sup>                         |          |  |
| water g  |                      | Particle   |          |  |
| Moisture content : measured %  |                      | density psMg/m <sup>2</sup>                      |          |  |
| trimmings %  |                      |  |          |  |
| Density Mg/m <sup>2</sup>  |                      | in original sample                               |          |  |
| Dry density Mg/m <sup>3</sup>  |                      |  |          |  |
| Voids ratio e  |                      | 4  |          |  |
| Degree of saturation %   |                      | -  |          |  |
| of disturbed soil*   |                      |  |          |  |
| Mass of soil remaining g   |                      | -  |          |  |
| Mass of specimen g   |                      | 4  |          |  |
| Shearbox details and setting up  |                      | •  |          |  |
| Top of box to top of baseplate $h_1$ mm  | Top of load ca       | p above  |          |  |
| Top of box to top porous plate $h_2$ mm  | top of box, unl      | top of box, unloaded $h_3$ mm                    |          |  |
|  | Top of load ca       | p above  |          |  |
| Combined thickness of plates tp mm   | top of box. wit      | top of box, with yoke $h_4$ mm                   |          |  |
| Sample thickness $H_{-} = h_{1} - (h_{2} + tp)$ mm   | Settlement und       | Settlement under loading voke mm                 |          |  |
| Mass of load hanger m <sub>1</sub> kg  | Initial reading      | Initial reading of vertical                      |          |  |
| Lever ratio r  | deformation ga       | deformation gauge R <sub>1</sub>                 |          |  |
| Mass on hanger $m_{\rm e}$ kg r* m <sub>2</sub> – kg   | Zero reading o       | Zero reading of gauge R0<br>= $R1 + /-(h3 - h4)$ |          |  |
|  | -R1 + /-(h)          |  |          |  |
| Total mass on specimen m kg  |                      | 5 117  |          |  |
| Normal stress $\sigma_{n}=0.0210 \text{ m/A} = 1000 \text{ km}$  | Da                   |  |          |  |
|  | . a                  |  |          |  |
|  | Operator             | Checked  | Approved |  |
|  |                      |  |          |  |
|  |                      |  |          |  |
| * Delete as appropriate  |                      |  |          |  |
|  |                      |  | Form 7A  |  |