UCB-BYU-UCLA ZETAS-SaU-METU Joint Research Project Name: Ground Failure and Building Performance in Adapazari, Turkey

Location: Site C - Bölük Street, Istiklal District, Adapazari

Date: June 27, 2000

Field Log by: Rodolfo B. Sancio

Sponsored by: Operator: ZETAS (Zemin Teknolojisi, A. S.)

NSF, Caltrans CEC, PG&E **Drilling Method:** Rotary wash with 9 cm-diameter tricone bit

Water Table Elevation: GWL = 1.45 m 06/28/00, 1.59 m 07/08, 0.98 m 08/03

Notes: Solid flight auger used to a depth of 1.6 m

Test ID: SPT-C2

GPS Coordinates: 40.78370°N 30.39221°E

**Elevation:** -11 cm with respect to CPT-C4

**Drilling Equipment:** Custom made, equivalent to Crealius XC90H **Responsible Engineers:** J. D. Bray and R. B. Sancio, U. C. Berkeley **SPT System:** Rope, pulley and cathead method. AWJ rods.

Hammer Type: Safety Hammer (per Kovacs et al. 1983)

| Notes: Solid flight auger used to a depth of 1.6 m |                                         |             |                        |                          |                    |                     |                |                  |                                                                                                                                                 |                        |                                 |                         |              |                  |                 |            |            |              |              |                                          |
|----------------------------------------------------|-----------------------------------------|-------------|------------------------|--------------------------|--------------------|---------------------|----------------|------------------|-------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|---------------------------------|-------------------------|--------------|------------------|-----------------|------------|------------|--------------|--------------|------------------------------------------|
| Depth Scale (m)                                    | Lithology                               | NSCS        | Sample Type<br>and No. | Recovery/<br>Length (cm) | SPT<br>Blows/15 cm | Casing<br>Depth (m) | Rod Length (m) | Energy Ratio (%) | Description                                                                                                                                     | qu<br>Pocket Pen (kPa) | <sup>S</sup> u<br>Torvane (kPa) | Moisture<br>Content (%) | Liquid Limit | Plasticity Index | % fines < 75 µm | < 5 µm (%) | < 2 µm (%) | D50 (mm)     | D10 (mm)     | Remarks                                  |
| -1                                                 | H                                       |             |                        |                          |                    |                     |                |                  | CLAYEY SILT: Dark brown clayey silt with uniform color. Moist, soft consistency.  CLAYEY SILT: Brown clayey silt to high plasticity silty clay. |                        |                                 |                         |              |                  |                 |            |            |              |              | Located near the sediment ejecta         |
| -2                                                 | ± : : : : : : : : : : : : : : : : : : : | CL/ML       | S-C2-1                 | 38/45                    | 1-1-1              |                     | 4.27           | 54               | Traces of fine sand                                                                                                                             | 50                     | 20                              | 37                      | 40           | 15               | 97              | -          | -          | -            | -            |                                          |
| -3                                                 | H:::                                    | ML/CL       | SH-C2-2                | 42/42                    | -                  | 2.4                 | -              | -                |                                                                                                                                                 | 80                     | 45                              | 43                      | 42           | 15               | 94              | 22         | 8          | 0.013        | 0.003        |                                          |
|                                                    | H                                       | СН          | S-C2-3                 | 35/45                    | 2-2-4              | 3.2                 | 7.32           | 69               |                                                                                                                                                 | 170                    | 72                              | 41                      | 74           | 45               | 99              | -          | -          |              |              |                                          |
| -4<br>-                                            | H                                       | МН          | SH-C2-4                | 40/42                    | -                  | 4.05                | -              | -                |                                                                                                                                                 | 85                     | 53                              | 26                      | 73           | 28               | 99              | 60         | 41         | 0.003        | <2µm         |                                          |
| -5                                                 | H : : :                                 | ML/CL       | S-C2-5                 | 36/45                    | 2-4-3              | 4.85                | 8.84           | 73               | CLAYEY SILT: Olive gray<br>clayey silt with fine sand to<br>sandy silt interbedded with<br>clay seams. Very thin                                | 230                    |                                 | 33                      | 42           | 15               | 87              | -          | -          | -            | -            |                                          |
| 6                                                  | H                                       | ML<br>SW-SM | S-C2-6A<br>S-C2-6B     | 38/45                    | 5-15-19            | 5.65                | 8.84           | 70               | lamination at about 5.25 m.  SW-SM: Well graded gray                                                                                            |                        |                                 | 26<br>13                | 27           | -                | 71<br>5         | 34         | 24         | 0.014<br>0.7 | <2µm<br>0.15 |                                          |
| -7                                                 | H::::                                   | ML          | S-C2-7                 | 36/45                    | 2-5-6              | 6.45                | 10.37          | 75               | sand with silt. Approximately<br>8% gravel content                                                                                              | 300                    |                                 | 29                      | 34           | -                | 92              | -          | -          | -            | -            | Black fibrous wood chip at approx. 6.5 m |
| -<br>-<br>-<br>-8<br>-                             | ]<br>                                   | CL/CH       | S-C2-8                 | 35/45                    | 1-3-3              | 7.5                 | 10.37          | 65               | CLAYEY SILT: Alternating strata of gray silty clay and clayey silt.                                                                             | 130                    |                                 | 38                      | 49           | 26               | 99              | 48         | 40         | 0.006        | <2µm         |                                          |
| -<br>- 9                                           | H H                                     | ML          | S-C2-9                 | 43/45                    | 4-3-4              | 8.9                 | 13.42          | 71               |                                                                                                                                                 | 280                    | 50                              | 36                      | 37           | -                | 99              | 60         | 49         | 0.002        | <2µm         |                                          |