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MAIN ROADS DEPARTMENT

ENGINEERING BORE LOG

-/9/80

PROJECT CABBAGE TREE CREEK BRIDGE SITE FOUNDATION INVESTIGATION

Sheet 1 of 3

HOLE No. 3

LOCATION Pier 5, co-ordinates 38448.5E 46308N

REF. No. H 6228

DATUM AHD

JOB No. 140/U13C/201 PROJECT No. 1-616 DATE 11,14/9/89

SURFACE R.L. -1.3

| DEPTH (m) | STRATA DESCRIPTION |   | FIELD SAMPLE & N VALUE | GRAPHIC LOG | ENGINEERING PROPERTIES |          |                          |   |                                     |   |
|-----------|--------------------|---|------------------------|-------------|------------------------|----------|--------------------------|---|-------------------------------------|---|
|           | 1:50<br>R.L.       | LITHOLOGY<br>SOIL TYPE<br>OR WEATHERING   |                        |             | PARAMETERS & INDICES   |          | MC (%) <sup>x</sup>      |   | DD (t/m <sup>3</sup> ) <sup>q</sup> |   |
|           |                    |   |                        |             | x                      | □        | x                        | □ | x                                   | □ |
| -1.3      |                    |   |                        |             |                        |          |                          |   |                                     |   |
| -1.6      |                    | CLAY - Organic<br>Drillers log only.  |                        |             |                        |          |                          |   |                                     |   |
| 1         |                    | MUDSTONE<br>Pale grey, brown, blue grey dark grey green, fine grained, poorly consolidated sedimentary rock.  | A                      |             |                        |          |                          |   |                                     |   |
| 2         |                    | Red brown to yellow iron-staining concentrated near top.  |                        |             |                        |          |                          |   |                                     |   |
| 3         |                    | Shale and shaly mudstone in part.<br>Shale laminae ~30° dip.<br>Indurated in part.<br>Exhibits properties of a firm to hard, fissured, highly plastic clay. | B4                     |             |                        |          |                          |   |                                     |   |
| 4         |                    |   |                        |             |                        |          |                          |   |                                     |   |
| 5         |                    |   | C                      |             | c 90kPa<br>φ 4.5°      | MC 66.0% | DD 0.98 t/m <sup>3</sup> |   |                                     |   |
| 6         |                    |   |                        |             |                        |          |                          |   |                                     |   |
| 7         |                    |   | D15                    |             | Brown shale            |          |                          |   |                                     |   |
| 8         |                    |   | E                      |             | Dark grey-green shale  |          |                          |   |                                     |   |
| 9         |                    |   | F53                    |             |                        |          |                          |   |                                     |   |

REMARKS

GEOL. \_\_\_\_\_  
ENGR. \_\_\_\_\_

|        |                    |                            |                     |                      |             |
|--------|--------------------|----------------------------|---------------------|----------------------|-------------|
| S.P.T. | Core Loss          | <b>WEATHERED CONDITION</b> | Extremely Weathered | Moderately Weathered | Water Level |
| Hot    | Slightly Weathered |                            |                     |                      |             |

NOTE  
FOR TERMS AND SYMBOLS REFER  
TEST METHOD Q 188 - 1980  
MATERIALS TESTING MANUAL

MAIN ROADS DEPARTMENT ENGINEERING BORE LOG

-/9/80

PROJECT CABBAGE TREE CREEK BRIDGESITE FOUNDATION INVESTIGATION

Sheet 2 of 3

HOLE No. 3 Cont.

LOCATION

REF. No. H 6228

DATUM

JOB No. PROJECT No. DATE

SURFACE R.L.

| DEPTH (m) | STRATA DESCRIPTION |                         | FIELD SAMPLE & N VALUE | GRAPHIC LOG | ENGINEERING PROPERTIES             |  |          |     |                          |     |
|-----------|--------------------|-------------------------|------------------------|-------------|------------------------------------|--|----------|-----|--------------------------|-----|
|           | LITHOLOGY          | SOIL TYPE OR WEATHERING |                        |             | PARAMETERS & INDICES               |  | MC (%) x |     | DD (t/m <sup>3</sup> ) □ |     |
|           |                    |                         |                        |             |                                    |  | x □      | x □ | x □                      | x □ |
| 1:50      |                    |                         |                        |             |                                    |  |          |     |                          |     |
| R.L.      |                    |                         |                        |             |                                    |  |          |     |                          |     |
| -11.3     |                    |                         |                        |             |                                    |  |          |     |                          |     |
|           | MUDSTONE (Cont.)   |                         | G                      |             |                                    |  |          |     |                          |     |
| 11        |                    |                         |                        |             |                                    |  |          |     |                          |     |
|           |                    |                         | H32                    |             |                                    |  |          |     |                          |     |
| 12        |                    |                         |                        |             |                                    |  |          |     |                          |     |
|           |                    |                         | J36                    |             |                                    |  |          |     |                          |     |
| 13        |                    |                         |                        |             |                                    |  |          |     |                          |     |
|           |                    |                         | K51                    |             |                                    |  |          |     |                          |     |
| 14        |                    |                         |                        |             |                                    |  |          |     |                          |     |
|           |                    |                         | L38                    |             |                                    |  |          |     |                          |     |
| 15        |                    |                         |                        |             |                                    |  |          |     |                          |     |
|           |                    |                         | M <sub>30*</sub><br>70 |             | Pale brown-grey indurated mudstone |  |          |     |                          |     |
| 16        |                    |                         |                        |             |                                    |  |          |     |                          |     |
|           |                    |                         |                        |             |                                    |  |          |     |                          |     |
| 17        |                    |                         |                        |             |                                    |  |          |     |                          |     |
|           |                    |                         |                        |             |                                    |  |          |     |                          |     |
| 18        |                    |                         |                        |             |                                    |  |          |     |                          |     |
|           |                    |                         |                        |             |                                    |  |          |     |                          |     |
| 19        |                    |                         |                        |             |                                    |  |          |     |                          |     |
|           |                    |                         | N36                    |             | Shaly mudstone                     |  |          |     |                          |     |

REMARKS

GEOLOGICAL ENGINEERING

|                  |                    |                            |                     |                      |             |
|------------------|--------------------|----------------------------|---------------------|----------------------|-------------|
| S.P.T.           | Core Loss          | <b>WEATHERED CONDITION</b> | Extremely Weathered | Moderately Weathered | Water Level |
| Highly Weathered | Slightly Weathered |                            |                     |                      |             |

NOTE FOR TERMS AND SYMBOLS REFER TEST METHOD Q.188 - 1980 MATERIALS TESTING MANUAL

MAIN ROADS DEPARTMENT ENGINEERING BORE LOG

-/9/80

PROJECT CABBAGE TREE CREEK BRIDGESITE FOUNDATION INVESTIGATION

Sheet 3 of 3

HOLE No. 3 Cont.

LOCATION

REF. No. H 6228

DATUM

JOB No. PROJECT No. DATE SURFACE R.L.

| DEPTH (m) | 1:50  | STRATA DESCRIPTION |                         | FIELD SAMPLE & N VALUE | GRAPHIC LOG | ENGINEERING PROPERTIES |         |     |                         |     |
|-----------|-------|--------------------|-------------------------|------------------------|-------------|------------------------|---------|-----|-------------------------|-----|
|           | R.L.  | LITHOLOGY          | SOIL TYPE OR WEATHERING |                        |             | PARAMETERS & INDICES   | MC (%)x |     | DD (t/m <sup>3</sup> )□ |     |
|           | -21.3 |                    |                         |                        |             |                        | x □     | x □ | x □                     | x □ |
| 21        |       | MUDSTONE (Cont.)   |                         | P57                    |             |                        |         |     |                         |     |
| 22        |       | END OF HOLE        |                         |                        |             |                        |         |     |                         |     |
| 3         |       |                    |                         |                        |             |                        |         |     |                         |     |
| 4         |       |                    |                         |                        |             |                        |         |     |                         |     |
| 5         |       |                    |                         |                        |             |                        |         |     |                         |     |
| 6         |       |                    |                         |                        |             |                        |         |     |                         |     |
| 7         |       |                    |                         |                        |             |                        |         |     |                         |     |
| 8         |       |                    |                         |                        |             |                        |         |     |                         |     |
| 9         |       |                    |                         |                        |             |                        |         |     |                         |     |

REMARKS

GEOL. *Rdel*  
ENGR. *G Hobbs*

S.P.T.   
 Core Loss   
 WEATHERED CONDITION   
 Extremely Weathered   
 Moderately Weathered   
 Water Level   
 High   
 Slightly

NOTE  
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