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# BOREHOLE ENGINEERING LOG

BOREHOLE NO.

**BH71**

SHEET 1 OF 2

Client: QUEENSLAND DEPARTMENT OF MAIN ROADS  
Project: TUGUN BYPASS  
Borehole Location: EAST ABUTMENT - SOUTH; STEWART ROAD, CURRUMBIN  
Project Number: 2134070A-1352

Date Commenced: 7/5/03  
Date Completed: 7/5/03  
Recorded By: JM  
Log Checked By: *[Signature]*

Drill Model/Mounting: H/POWER SCOUT

Hole Angle: 90°

Surface RL: 4.0 m

Borehole Diameter: 100 mm

Bearing: —

Co-ords: E 47592 N 90186

| Borehole Information |         |       |       |          |                | Field Material Description |             |            |                                                                                                        |                                             |                                |                         |                                       |
|----------------------|---------|-------|-------|----------|----------------|----------------------------|-------------|------------|--------------------------------------------------------------------------------------------------------|---------------------------------------------|--------------------------------|-------------------------|---------------------------------------|
| 1                    | 2       | 3     | 4     | 5        | 6              | 7                          | 8           | 9          | 10                                                                                                     | 11                                          | 12                             | 13                      |                                       |
| METHOD               | SUPPORT | WATER | RL(m) | DEPTH(m) | FIELD TEST     | SAMPLE                     | GRAPHIC LOG | USC SYMBOL | SOIL/ROCK MATERIAL FIELD DESCRIPTION                                                                   | MOISTURE                                    | RELATIVE DENSITY / CONSISTENCY | HAND PENETROMETER (kPa) | STRUCTURE AND ADDITIONAL OBSERVATIONS |
| TC                   | Nil     |       |       |          |                |                            |             | CL         | SILTY CLAY: medium plasticity, grey and brown with a trace of sand.                                    | VS<br>FS<br>VL<br>JL<br>MD<br>VST<br>O<br>H |                                |                         | SLOPEWASH?                            |
|                      |         |       | 3     | 1        |                |                            |             |            |                                                                                                        |                                             |                                |                         |                                       |
|                      |         |       |       |          | 4.7,10<br>N=17 | SPT                        |             |            |                                                                                                        |                                             |                                |                         |                                       |
|                      |         |       | 2     | 2        |                |                            |             |            |                                                                                                        |                                             |                                |                         |                                       |
|                      |         |       | 2.80  |          |                |                            |             |            |                                                                                                        |                                             |                                |                         |                                       |
| WB                   |         | ▼     | 1     | 3        |                |                            |             | SC         | CLAYEY SAND: medium grained, pale grey and brown, well graded.                                         |                                             |                                |                         | ESTUARINE SEDIMENTS                   |
|                      |         |       |       |          | 4.4,6<br>N=10  | SPT                        |             |            |                                                                                                        |                                             |                                |                         |                                       |
|                      |         |       | 0     | 4        |                |                            |             |            |                                                                                                        |                                             |                                |                         |                                       |
|                      |         |       | -1    | 5        |                |                            |             |            |                                                                                                        |                                             |                                |                         |                                       |
|                      |         |       | -2    | 6        |                |                            |             |            |                                                                                                        |                                             |                                |                         |                                       |
|                      |         |       | 8.20  |          |                |                            |             |            |                                                                                                        |                                             |                                |                         |                                       |
|                      |         |       |       |          | 5.7,9<br>N=16  | SPT                        |             | CL         | SILTY CLAY: medium plasticity, pale grey with brown and red mottling and trace of ferruginous nodules. |                                             |                                |                         | RESIDUAL SOIL                         |
|                      |         |       | -3    | 7        |                |                            |             |            |                                                                                                        |                                             |                                |                         |                                       |
|                      |         |       | 7.70  |          |                |                            |             |            |                                                                                                        |                                             |                                |                         |                                       |
|                      |         |       |       |          | 13,R<br>/130mm | SPT                        |             |            |                                                                                                        |                                             |                                |                         | 13, 30 blows/130mm                    |
|                      |         |       |       |          |                |                            |             |            |                                                                                                        |                                             |                                |                         | WEATHERED ROCK                        |

This borehole log should be read in conjunction with Parsons Brinckerhoff's accompanying standard notes.



# BOREHOLE ENGINEERING LOG

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**BH71**

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| Borehole Information |         |       |       |          |              | Field Material Description |             |                                                                                                                                                         |          |                                |                         |                                       |
|----------------------|---------|-------|-------|----------|--------------|----------------------------|-------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|----------|--------------------------------|-------------------------|---------------------------------------|
| 1                    | 2       | 3     | 4     | 5        | 6            | 7                          | 8           | 9                                                                                                                                                       | 10       | 11                             | 12                      | 13                                    |
| METHOD               | SUPPORT | WATER | RL(m) | DEPTH(m) | FIELD TEST   | SAMPLE                     | GRAPHIC LOG | SOIL/ROCK MATERIAL FIELD DESCRIPTION                                                                                                                    | MOISTURE | RELATIVE DENSITY / CONSISTENCY | HAND PENETROMETER (kPa) | STRUCTURE AND ADDITIONAL OBSERVATIONS |
| WB                   |         |       |       |          |              |                            |             | ARGILLITE: grey and brown, extremely weathered, extremely low strength, very thinly to thinly bedded, bedding dipping at approximately 65°. (continued) |          |                                |                         |                                       |
|                      |         |       | 5     | 9        |              |                            |             | ... grading to highly weathered, very low strength, fragmented.                                                                                         |          |                                |                         |                                       |
|                      |         |       | 6     | 10       |              | SPT                        |             | END OF BOREHOLE AT 10.12 m                                                                                                                              |          |                                |                         | 30 blows/120mm                        |
|                      |         |       |       |          | R<br>(120mm) |                            |             |                                                                                                                                                         |          |                                |                         |                                       |
|                      |         |       | 7     | 11       |              |                            |             |                                                                                                                                                         |          |                                |                         |                                       |
|                      |         |       | 8     | 12       |              |                            |             |                                                                                                                                                         |          |                                |                         |                                       |
|                      |         |       | 9     | 13       |              |                            |             |                                                                                                                                                         |          |                                |                         |                                       |
|                      |         |       | 10    | 14       |              |                            |             |                                                                                                                                                         |          |                                |                         |                                       |
|                      |         |       | 11    | 15       |              |                            |             |                                                                                                                                                         |          |                                |                         |                                       |

This borehole log should be read in conjunction with Parsons Brinckerhoff's accompanying standard notes.