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ENGINEERING BOREHOLE

FOR GEOTECHNICAL TERMS AND SYMBOLS REFER FORM F:GEOT 017/2-2004

| BOREHOLE No | B <u>H121</u> |
|--------------|---------------|
| SHEET | _1_ of _2_ |
| REFERENCE No | H9430 |

PROJECT GATEWAY UPGRADE PROJECT GEOTECHNICAL INVESTIGATION - NORTHERN SECTION CONTROL LINE: MCAO - Ch. 21965.5 - OFFSET 37.6 R LOCATION COORDINATES 9319.1 E; 172248.7 N PROJECT No <u>FM2055</u> _ _ _ _ SURFACE R.L. _ 1.33 __. DATE STARTED _7/7/04 __. DATUM SETP ____ JOB No DATUM _AHD __ DATE COMPLETED _7/7/04 __ DRILLER R&D DRILLING PTY LTD R L RQD INTACT DEFECT AUGER CASING WASH BORING ()% ADDITIONAL DATA STRENGTH SPACING Ê MATERIAL (mm) DEPTH AND GRAPHIC DESCRIPTION TESTS SAMPL WEAT WEAT WEAT WEAT CORE 88888 **TEST RESULTS** 0 1.33 REC % Silty CLAY - FILL Mottled grey brown, moist, frim to stiff. CL 0.33 ESTUARINE WEATHERED OC CRUST U100 Dark grey to mottled brown, moist, firm. OL MC=49.6%, WD=1.70t/m3, High organic content; high plasticity; some jarosite crystals around partly to DD=1.14t/m3 0.47 compeletely decomposed roots. ESTUARINE SANDY CLAY Dark grey to grey, moist to mainly wet, Peak Su=31.5kPa, Res Su=4.5kPa FSV mainly soft to firm. Minor shell content; medium to coarse CI <1,RW,RW SPT grained sand. SPT penetrated to 3.5m LL=38.8%, PI=16.4%, LS=9.2% MC=53.4%, WD=1.74t/m3, U100 -2.05 DD=1.14t/m3 **ESTUARINE SILTY CLAY** Dark grey, moist, soft to firm, sensitive. High organic content; partly decomposed to unweathered shells; becoming slightly Peak Su=22.5kPa, Res Su=5.4kPa **FSV** sandy with depth; high shell fraction at the bottom. OH GD. MC=46.4%, WD=1.80t/m3, U100 DD=1.24t/m3 ENG BOREHOLE FINAL 4.67 SILTY SAND / SAND - ALLUVIUM Grey to mottled yellow brown, moist, loose SPT to mainly medium dense. GATEWAY NORTHERN UPGRADE.GPJ Fine to medium grained sand 6.6.9 SPT N=15 BOREHOLE WITH LITHOLOGY SPT N=10 REMARKS LOGGED BY B.Woodgate & A.Dissanayake



ENGINEERING BOREHOLE

FOR GEOTECHNICAL TERMS AND SYMBOLS REFER FORM F:GEOT 017/2-2004

| BOREHOLE No | BH121 |
|--------------|--------------|
| SHEET | _2_ of _2_ |
| REFERENCE No | <u>H9430</u> |

| B No | | | | SURFACE R.L. 1.33 DATUM AHD | | | E COMPLET | ED <u>7/7/</u> 0 | | | |
|-----------------------------|--------------------------------|----------------------------|--------|--|-----------|-------------------|-------------------------------|---------------------------|-------------|------------------------------------|---------|
| R.L. (m) | AUGER CASING WASH BORING | RQD ()% CORE REC% | SAMPLE | MATERIAL DESCRIPTION | гитногосу | USC WEATHERING | INTACT STRENGTH ニューシュンゴ | DEFECT SPACING (mm) | GRAPHIC LOG | ADDITIONAL DATA AND TEST RESULTS | SAMPLES |
| -9,12 | ''' | | *; | SILTY SAND / SAND - ALLUVIUM (As above) | | SM- SP | | | | 3,4,8 N=12 | SPT |
| 1 2 3 3 4 4 5 5 6 6 7 7 8 8 | | | | Borehole terminated at 10.45m | | | | | | | |