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| CLIENT | DMR | | | | | | | | | | | CS | |
|--|-----------------------------|---|----------------|---|---|---------------------|------|-----|-------------------------------|-----------------|---|-----|-------------------------|
| PROJECT | | IPSWICH MOTORWAY UPGRADE - WACOL TO DARRA | | | | | | | CHECKED BY DRILLED DATE 03-Ju | | | | |
| CONTRACTOR DRILL MODEL DRILLER | Eds | rratest son 3000 ent Ormsb | у | | ANGLE Vertical BEARING - HOLE DIAMETER 100mm () | LOCATION 3215 | | | | 2157 ustrali | 13.74m 57 E 152471 N ralian Height Datu I Grid | | |
| DRILLING | | STRA | TA | | MATERIAL DESCRIPTION | CONDITION | | | | | OBSERVA | | |
| SAMPLE, TEST, BIT, SUPPORT, ETC. | R.L. | DEPTH m | GROUP SYMBOL | LEGEND | SOIL TYPE Plasticity / Grain Size, Colour, Minor Components | WATER / MOISTURE | NS O | OHE | SIVE | cc | NON OHES | IVE | SOIL OI STRUC ET(|
| | | - | SP | 7, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, | Silty SAND (SP) fine grained, black grey-brown, with gravel, medium grained, red with a trace of silt, and grass rootlets in upper 50mm. | D-M | | | | | | Ť | TOF |
| | 43.44 | 0.30 | CL | | Silty CLAY (CL) stiff, brown-red and red 0.45 becoming very stiff, and red in colour 0.60 becoming hard | D | | | <u>\</u> _ | 1 | | | СОНЕ |
| SPT at 1.17m N 10;30/45 | 42.74 - 42.64 42.57 - | +1 1.00 1.10 1.17 | CL SC CL | ************************************** | Silty CLAY (CL) hard, mottled red-brown grey. Clayey SAND/Sandy CLAY (SC) hard, fine to medium grained, grey. Silty CLAY (CL) hard, mottled red-brown grey. Borehole continued as a Cored Drillhole | 7 | | | | J | | | COHE NONC COHE |
| · · | - | -2 | | | · - |] | | | | | | | |
| · | - | † - - | | | • • | - | | | | | | | |
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| - | - | -4 - | | | - - - | _ | | | | | | | |
| | | - - -5 | | | | _ | | | | | | | |
| | - | + | | | | - | | | | | | | |
| · · - | - | † + +6 | | | · · - | - - - | | | | | | | |
| · | - | † - - | | | · · | - - - | | | | | | | |
| - | - | + -7 - | | | · - · | - - - | | | | | | | |
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| - | - | -8 | | | <u> </u> | | | | | | | | |
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| - | - | +9 - - | | | - | - | | | | | | | |
| - | - | † | | | | 1 | | | | | | | |

SHEET 2 **CORED BOREHOLE RECORD BH204** OF 3 LOGGED BY ACS CLIENT CHECKED BY IPSWICH MOTORWAY UPGRADE - WACOL TO DARRA **PROJECT** DRILLED DATE 03-Jul-07 to 05-Jul-07 CONTRACTOR Vertical **GROUND LEVEL** RL 43.74m Terratest **DRILL MODEL BEARING** LOCATION 32157 E 152471 N Edson 3000 Brent Ormsby HOLE DIAMETER **DRILLER** 100mm () **ELEVATION DATUM** Australian Height Datum COORDINATE SYSTEM Local Grid **DRILLING STRATA** MATERIAL DESCRIPTION DISCONTINUITIES **SPECIFIC** GENERAL DESCRIPTION L0G FREQUENCY FCR % (Drill rate) HRETURN TYPE) SCR / (RQD Is 50 (MPa) SAMPLES CaCO₃, SPT, UCS, Ê **ESTIMATED** THICKNESS R.L. DEPTH GRAPHIC **ROCK TYPE** ANGLE (per ROCK TYPE Planarity, Roughness, Grain Size, Texture/Fabric, Colour, Minor Components STRENGTH FLUSH Coating, Infill m 8 42.54 Continued from Borehole SILTSTONE, fine grained, mottled red-brown grey. polymer + water) 100/(100) 100() 41.74 2.00 41.59 CORELOSS: 0.15m SILTSTONE, fine grained, grey (with interbedded fine to medium grained ironstone bands). PL Ro3 S -PL Ro2 S 95/(93) 950 **\$** 3.87 predominantly grey coloured -UN Ro3 S 4.40m - 4.90m - medium to coarse grained sub-angular to angular quartz gravel present (Tuff polymer + water) 100 % UN Ro2 CL PL Ro3 S 100/(99) 100() 36.57 7 17 lgeotechnics/ginkmaster w2d(14.12.07).gpj Vgeotechnics/ginkgint libraryaus_ library_12 (04.10.007).glb YC ORE LOG (rev 22Jan08 checked ABIACP Feb 2006) 22Jan08 (1047 SANDSTONE, medium to coarse grained, red-brown grey (with interbedded fine to medium grained ironstone bands). 35.62 SILTSTONE, fine grained, grey (ironstaining apparent A0.07 in core) 100/(100) 100() O 34.54 9.20 SANDSTONE, medium to coarse grained, red-brown grey. . 9.50m - 10.40m - ironstone nodules present in -20 sandstone **NOTES** JOB Hole Diameter 100mm to 15.00m depth. (Solid Flight Augering to 1.2m. HQ casing to 1.2m. NMLC coring from 1.2m to 15m. No free groundwater observed during drilling.) gINT v8.
Project:
Library:
Log: 1.2.
gINT out 86015

78.1

SHEET 3 **CORED BOREHOLE RECORD BH204** OF 3 LOGGED BY ACS CLIENT CHECKED BY IPSWICH MOTORWAY UPGRADE - WACOL TO DARRA **PROJECT** DRILLED DATE 03-Jul-07 to 05-Jul-07 CONTRACTOR Vertical **GROUND LEVEL** RL 43.74m Terratest **DRILL MODEL BEARING** LOCATION 32157 E 152471 N Edson 3000 Brent Ormsby HOLE DIAMETER 100mm () **DRILLER ELEVATION DATUM** Australian Height Datum COORDINATE SYSTEM Local Grid **DRILLING STRATA** MATERIAL DESCRIPTION DISCONTINUITIES **SPECIFIC** GENERAL DESCRIPTION FREQUENCY WEATHERING TCR % (Drill rate) HRETURN TYPE) SCR / (RQD SAMPLES , SPT, UCS, Is 50 (MPa) Ê **ESTIMATED** THICKNESS R.L. DEPTH GRAPHIC **ROCK TYPE** ANGLE (per ROCK Planarity, Roughness, Grain Size, Texture/Fabric, Colour, Minor Components STRENGTH FLUSH Coating, Infill m SANDSTONE, medium to coarse grained, red-brown grey. (continued) 100 100() 100/ 10.90m - 11.05m - fine grained UN Ro4 S PL Ro4 S . 11.75m - 11.90m - clayey sand : coarse grained mottled brown grey 100 12 (Tuff polymer + water) MW 12.30mm - fine grained 100() ·**13** _{13.10} 30.64 SANDSTONE, medium to coarse grained, grey <10 -10 -IR Ro4 S & G 13.40m - 14.00m - with quartz gravel inclusions, medium to coarse grained sub-rounded to -IR Ro4 S 29.35 14.39 SAND and GRAVEL (GP) medium to coarse grained, sub-angular to sub-rounded, grey, (Poorly 93/(100) 0.0 93() Ö 00 cemented). 28.79 28.74 14.95 **15** 15.00 * CORELOSS: 0.05m End of Borehole at 15.00m eotechnics\gin\text{funaster} vZd(14.12.07).gpj sotechnics\gin\text{gint}\gint\text{library_lz} (04.10.07).glb CORE LOC (rev Z2Jan08 checked AB/ACP Feb 2006) Jan08 10.47 JOB NOTES Hole Diameter 100mm to 15.00m depth. (Solid Flight Augering to 1.2m. HQ casing to 1.2m. NMLC coring from 1.2m to 15m. No free groundwater observed during drilling.) 86015

BOREHOLE PHOTOGRAPHS



PROJECT: Upgrade Centenary Highway CLIENT: Department of Main Roads PROJECT NUMBER: 86015

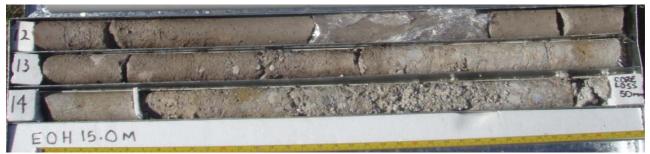
Hole: BH 204



Depth: 1.2m - 6m



Depth: 6m - 12m



Depth: 12m - 15m