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BOREHOLE RECORD

HOLE BH107

SHEET 1

OF 1

PROJECT Nundah Bypass

LOGGED BY MS/PF

DATES 25/1/99

CONTRACTOR Daly Bros

ANGLE Vertical

GROUND LEVEL RL 21.91

DRILL MODEL DB1000

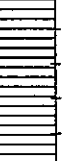




BEARING

EASTING 40473

MOUNTING Tandem Drive Truck

DIAMETER NMLC

NORTHING 38745

| DRILLING | STRATA | | | | MATERIAL DESCRIPTION | CONDITION | | OBSERVATION | | | | | | | | |
|----------------------------------|--------|-------|--------------|---|--|------------------|-------------|-------------|----|-----|--------------|----|----|----|------------------------------|---------------|
| SAMPLE, TEST, BIT, SUPPORT, ETC. | R.L. | DEPTH | GROUP SYMBOL | LEGEND | SOIL TYPE Colour, Plasticity, Grain Size, Minor Components | WATER / MOISTURE | CONSISTENCY | | | | | | | | SOIL ORIGIN, STRUCTURE, ETC. | |
| | AHD | m | | | | | COHESIVE | | | | NON COHESIVE | | | | | |
| | | | | | | | VS | SL | ST | VST | VL | ML | DL | VD | | |
| Wash boring Rock roller bit | | 0.3 | CL |  | Reinforced Concrete Slab, 75mm thick CLAY: Grey mottled orange and red brown iron staining, medium plasticity | M | | | | | | | | | | RESIDUAL SOIL |
| SPT @ 1m 4/9/12 N=21 | | 1.0 | |  | | | | | | | | | | | | |
| | | 2 | |  | | | | | | | | | | | | |
| SPT @ 2.5m 7/16/20 N=36 | | 2.5 | |  | CLAY: Grey with trace orange mottling, medium plasticity, trace sand and ironstone lenses | | | | | | | | | | | XW ROCK |
| | | 3 | | | | | | | | | | | | | | |
| SPT @ 4m 10/19/26 N=45 | | 4.0 | |  | Sandy CLAY: (XW Sandstone) Grey with red ironstone lenses, fine grained, extremely weathered | | | | | | | | | | | |
| | | 5 | | | Start coring at 4.5m Refer to cored borehole logs | | | | | | | | | | | |
| | | 6 | | | | | | | | | | | | | | |
| | | 7 | | | | | | | | | | | | | | |
| | | 8 | | | | | | | | | | | | | | |

NOTES

1. Groundwater not encountered prior to commencement of washboring

JOB

11177/1

| | |
|-----------|---------|
| LOGGED BY | MS/PF |
| DATE/S | 25/1/99 |

| | |
|----------|----------|
| ANGLE | Vertical |
| BEARING | |
| DIAMETER | NMLC |

GROUND LEVEL RL 21.91
NORTHING 38745
EASTING 40473

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CORED BOREHOLE RECORD

HOLE **BH107**

SHEET 2

OF 4

PROJECT Nundah Bypass

LOGGED BY MS/PF
DATE/S 25/1/99

CONTRACTOR Daly Bros

ANGLE Vertical

DRILL MODEL DB1000

BEARING

MOUNTING Tandem Drive Truck

DIAMETER NMLC

GROUND LEVEL RL 21.91

NORTHING 38745

EASTING 40473

| DRILLING | | | STRATA | | MATERIAL DESCRIPTION | | | | DISCONTINUITIES | | | |
|--------------|-------|------------------|--------|-------|----------------------|--|------------|-------------------------------|-----------------------|----------|-------------------------|--|
| RUN REC. (%) | WATER | SAMPLE TEST | R.L. | DEPTH | LEGEND | ROCK TYPE Colour, Grain Size, Structure, Minor Components | WEATHERING | ESTIMATED ROCK STRENGTH | FREQUENCY (per mm) | SPECIFIC | | GENERAL DESCRIPTION |
| | | | AHD | m | | | | | | TYPE | ANGLE THICKNESS (mm) | |
| 100% | | Is (50) =0.66 | | 8.2 | | Hard CLAY band 100mm, grey, high plasticity | | | | Cr | 50 | Rock core displays development of slickensided fissure/ joint planes |
| | | | | 8.5 | | SANDSTONE: as at 6.0m | | | | | | |
| | | | | 8.9 | | | | | | | | |
| 90% | | | | 9 | | Core loss 150mm | | | | | | |
| | | | | 9.2 | | Ironstone band 200mm | | | | | | |
| | | | | 9.5 | | SILTSTONE: Light grey with red brown iron staining, fissured, occasional sandy bands | XW | | | | | |
| | | | | 10 | | | | | | | | |
| 80% | | | | 10.0 | | | | | | | | |
| | | | | 11 | | | | | | | | |
| | | | | 11.2 | | Core loss 300mm | | | | | | |
| | | | | 11.5 | | | | | | | | |
| 100% | | | | 12 | | SILTSTONE: Light grey with orange iron staining | DW | | | | | |
| | | | | 12.0 | | | | | | | | |
| | | | | 12.45 | | SANDSTONE: Red brown with grey mottling, fine to medium grained | | | | | | |
| | | | | 13 | | SILTSTONE: Dark grey | | | | | | |
| | | | | 13.0 | | | | | | | | |
| 100% | | | | 13.6 | | SANDSTONE: Light orange to orange brown, fine grained | | | | | | |
| | | | | 14 | | SILTSTONE: Dark grey | | | | | | |
| | | | | 14.0 | | | | | | | | |
| | | | | 14.5 | | SANDSTONE: Light grey with red brown mottling, fine grained | | | | | | |
| | | | | 14.8 | | | | | | | | |
| 100% | | | | 15 | | SILTSTONE: Dark grey | | | | | | |
| | | | | 15 | | | | | | | | |
| | | | | 15.73 | | Fragments of angular Sandstone with Coal | | | | Cr | 70 | |
| | | | | 16 | | | | | | | | |

NOTES

TYPE OF DISCONTINUITY

JOB

Jo JOINT
Be BEDDING PLANE PARTING
Fo FOLIATION PARTING
Cl CLAY SEAM
We WEATHERED SEAM
Cr CRUSHED SEAM
Sh SHEARED ZONE

11177/1

CORED BOREHOLE RECORD

HOLE **BH107**

SHEET 3
OF 4

PROJECT Nundah Bypass

LOGGED BY MS/PF
DATE/S 25/1/99

CONTRACTOR Daly Bros

ANGLE Vertical

GROUND LEVEL RL 21.91

DRILL MODEL DB1000

BEARING

NORTHING 38745

MOUNTING Tandem Drive Truck

DIAMETER NMLC

EASTING 40473

| DRILLING | | STRATA | | | MATERIAL DESCRIPTION | | | | DISCONTINUITIES | | | |
|--------------|-------|-------------|------|-------|----------------------|--|---|-------------------------------|----------------------|----------|---------|---|
| RUN REC. (%) | WATER | SAMPLE TEST | R.L. | DEPTH | LEGEND | ROCK TYPE Colour, Grain Size, Structure, Minor Components | WEATHERING | ESTIMATED ROCK STRENGTH | FREQUENCY (per m) | SPECIFIC | | GENERAL DESCRIPTION |
| | | | AHD | m | | | | | | TYPE | ANGLE | |
| 100% | | | | 16.27 | | SANDSTONE: Light brown with some iron staining, fine to medium grained | | | | CI | 30 | Soft grey Clay |
| 100% | | | | 16.9 | | SILTSTONE: Dark grey Occasional harder sandstone bands to 80mm | | | | | | |
| 100% | | | | 17 | | | | | | | | |
| 100% | | | | 17.15 | | | | | | | | |
| 100% | | | | 18 | | | | | | | | |
| 100% | | | | 18.55 | | | | | | | | |
| 100% | | | | 19 | | | | | | Jo | 30 | Thin bedding at 40 deg. Closed, smooth joints @ 100mm intervals parallel to bedding. Intersects with opposing joint set of equal inclination and interval |
| 100% | | | | 20 | | | | | | | | |
| 100% | | | | 20.05 | | | | | | | | |
| 100% | | | | 21 | | | | | | | | |
| 100% | | | | 21.65 | | SANDSTONE: Grey, fine grained | | | | Jo | 90 | Occasional high angle joints, smooth and undulating |
| 100% | | | | 22 | | | | | | | | |
| 100% | | | | 23 | | | | | | | | |
| 100% | | | | 23.25 | | Harder Sandstone band 350mm | | | | | | |
| 100% | | | | 23.35 | | | | | | | | |
| 100% | | | | 24 | | | | | | | | |
| NOTES | | | | | | | TYPE OF DISCONTINUITY | | | | JOB | |
| | | | | | | | Jo JOINT Be BEDDING PLANE PARTING Fo FOLIATION PARTING CI CLAY SEAM We WEATHERED SEAM Cr CRUSHED SEAM Sh SHEARED ZONE | | | | 11177/1 | |

FN32.14 October 1994

CORED BOREHOLE RECORD

HOLE **BH107**

SHEET 4

OF 4

PROJECT Nundah Bypass

LOGGED BY MS/PF

DATE/S 25/1/99

CONTRACTOR Daly Bros

ANGLE Vertical

DRILL MODEL DB1000

BEARING

MOUNTING Tandem Drive Truck

DIAMETER NMLC

GROUND LEVEL RL 21.91

NORTHING 38745

EASTING 40473

| DRILLING | | | STRATA | | | MATERIAL DESCRIPTION | | | | DISCONTINUITIES | | | |
|--------------|-------|-------------|--------|-------|--------|---|------------|-------------------------------|-----------------------|-----------------|-------|---------------------|--|
| RUN REC. (%) | WATER | SAMPLE TEST | R.L. | DEPTH | LEGEND | ROCK TYPE Colour, Grain Size, Structure, Minor Components | WEATHERING | ESTIMATED ROCK STRENGTH | FREQUENCY (per mm) | SPECIFIC | | GENERAL DESCRIPTION | |
| | | | AHD | m | | | | | | TYPE | ANGLE | | |
| 100% | | | | | | SILTSTONE: Grey, traces of sand | | | | | | | |
| | | | | 25 | | End BH107 at 24.85m | | | | | | | |
| | | | | 26 | | | | | | | | | |
| | | | | 27 | | | | | | | | | |
| | | | | 28 | | | | | | | | | |
| | | | | 29 | | | | | | | | | |
| | | | | 30 | | | | | | | | | |
| | | | | 31 | | | | | | | | | |
| | | | | 32 | | | | | | | | | |

NOTES

TYPE OF DISCONTINUITY

JOB

Jo JOINT
Be BEDDING PLANE PARTING
Fo FOLIATION PARTING
Cl CLAY SEAM
We WEATHERED SEAM
Cr CRUSHED SEAM
Sh SHEARED ZONE

11177/1