ARUP Geotechnics

BOREHOLE RECORD

HOLE **BH11** SHEET 1 OF 3

PROJECT	Yandina Highway Upgrading Preliminary Geotechnical Investigation	LOCATION GROUND LEVEL	see Fig.2.
CONTRACTOR	Christensen Drilling	ANGLE	90
DRILL MODEL	Jacro 350	BEARING	–
MOUNTING	Truck	DIAMETER	100mm
		LOGGED BY	BS
		DATE/S	21 OCT '93

DRILLING	STRATA				MATERIAL DESCRIPTION	CONDITION		OBSERVATIONS
SAMPLE, TEST, BIT, SUPPORT ETC	R.L AHD	DEPTH m	GROUP SYMBOL	LEGEND	SOIL TYPE Colour, Plasticity, Grain Size, Minor Components	WATER/ MOISTURE	CONSISTENCY VS S F St VSt H VL L MD D VD	SOIL ORIGIN STRUCTURE, ETC
AD–T		0.0	CL		CLAY: grey – brown, low to medium plasticity, traces of silt.	M		ALLUVIUM
		1.0						
		1.1			CLAY: brown – grey, medium plasticity, traces of silt.			
SPT: 4,6,10 *N=16		1.5						
AD–T		2.0						
		2.4						
SPT: 6,12,17 *N=29		3.0						
		3.4						
AD–T		3.5	SC / SM		Clayey Silty SAND: yellow – brown, low plasticity clay, fine grained sand with some silt.			
		4.0						
		4.4						
SPT: 8,14,17 *N = 31		4.5	CL		Silty CLAY: grey, low to medium plasticity, some silt content.			
AD–T		5.0						
		5.6						
SPT: 5,3,4 *N = 7		6.0	SM / SC		Clayey Silty SAND: grey – brown traces of low plasticity clay, some fine silt and medium to coarse sand, traces of fine gravel (2mm).			
W–RR(C)		7.0	SP		Gravelly SAND: grey, fine through to coarse sand with some fine to medium gravel, poorly graded.			
SPT: 2,5,8 *N = 13		7.5						
		8.0						

NOTES

FIGURE

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ARUP Geotechnics

BOREHOLE RECORD

HOLE **BH11** SHEET 2 OF 3

PROJECT	Yandina Highway Upgrading Preliminary Geotechnical Investigation	LOCATION GROUND LEVEL	see Fig.2.
CONTRACTOR	Christensen Drilling	ANGLE	90
DRILL MODEL	Jacro 350	BEARING	–
MOUNTING	Truck	DIAMETER	100mm
LOGGED BY	BS		
DATE/S	22 OCT '93		

DRILLING	STRATA				MATERIAL DESCRIPTION	CONDITION		OBSERVATIONS
SAMPLE, TEST, BIT, SUPPORT ETC	R.L AHD	DEPTH m	GROUP SYMBOL	LEGEND	SOIL TYPE Colour, Plasticity, Grain Size, Minor Components	WATER/ MOISTURE	CONSISTENCY VS S F ST VST / VL L MD D VD	SOIL ORIGIN STRUCTURE, ETC
W–RR(C)		8.0	SP		Gravelly SAND: grey, fine through to coarse sand, with some fine to medium gravel, traces of coarse gravel, poorly graded.	M		ALLUVIUM
SPT: 22,23,– refusal		9.0 9.3			VOLCANIC TUFF: grey–green, highly weathered			HW ROCK
		10.0			Washbore – Rock Rolling refusal at 9.30m. Borehole continued by coring. See sheet 3.			
		11.0						
		12.0						
		13.0						
		14.0						
		15.0						
		16.0						

NOTES

FIGURE

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ARUP Geotechnics

CORED BOREHOLE RECORD

HOLE **BH11** SHEET 3 OF 3

PROJECT	Yandina Highway Upgrading Preliminary Geotechnical Investigation	LOCATION GROUND LEVEL	see Fig.2.
CONTRACTOR	Christensen Drilling	ANGLE	90
DRILL MODEL	Jacro 350	BEARING	–
MOUNTING	Truck	DIAMETER	100mm
		LOGGED BY	BS
		DATE/S	22 OCT '93

DRILLING			STRATA				MATERIAL DESCRIPTION	DISCONTINUITIES					
CASING RUN, REC. (%)	WATER	SAMPLE TEST	R.L. AHD	DEPTH m	GROUP SYMBOL	LEGEND	SOIL TYPE Colour, Plasticity, Grain Size, Minor Components	WEATHERING	ESTIMATED ROCK STRENGTH EL VL L M H VH EH	FREQUENCY 10 3 (per m)	SPECIFIC TYPE	SPECIFIC ANGLE	SPECIFIC THICKNESS (mm)	GENERAL CONDITION Planarity, Roughness, Coating, Infill
				8.0			Borehole 11 Auger drilled from 0.0m to 6.5m. Washbore Rock Rolling continued from 6.5m to 9.3m. Refer to Sheets 1 and 2 for description.							
				9.0			Poor core recovery, due to gravel fall in and clay matrix washed away by coring process.							
25%				9.30										
				9.55			CORE LOSS (100mm)							
				9.65			VOLCANIC TUFF: grey and brown, brecciated, alternating zones of SW rock and heavilly fractured HW rock with numerous clay seams.	HW to SW						Numerous clay seams and brecciated zones
50%				10.0										
				10.30										
				10.45			CORE LOSS (150mm)							
70%				10.9			As Above:	HW to SW						
				11.0			BH11 terminated at required depth 10.9m.							
				12.0										
				13.0										
				14.0										
				15.0										
				16.0										

NOTES

1. First core run only recovered fine to medium coarse grained gravel consisting of some fall in material and some insitu core therefore hole cased down to 1.5m to prevent fall in. 1 and 2 for description.

TYPE OF DISCONTINUITY

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

FIGURE

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