

TE: NDSTONE SUB-CROP MAY BE A SERIES OF STEPS.

000663

000664

BOREHOLE RECORD

PROJECT NAME: SYDNEY SPORTS CENTRE, MOORE PARK

HOLE A5

SHEET 1
OF 3

LOCATION: See Figure 2
GROUND LEVEL: RL. 43.75

[illegible]

REMARKS:

CONTRACTOR: ENGINEERING EXPLORATION P/L
EDSON 3000 (TRUCK)

BORING METHOD:
 Ø 130mm AD V-bit 0 - 12.50
 WB Roller Tricone (revert); NIL
 NMLC coring, 12.50 - 15.15m

MADE BY: TCT DATE: /11/85

FIGURE 4

JOB 3970

BOREHOLE RECORD

SHEET 2
OF 3

LOCATION: See Figure 2
GROUND LEVEL: RL 43.75

000665

JOB 3970

ARUP

GEOTECHNICS CORED BOREHOLE RECORD

HOLE A5

SHEET 3
OF 3

PROJECT NAME: SYDNEY SPORTS CENTRE, MOORE PARK

LOCATION: See Figure 2
GROUND LEVEL: RL 43.75 m

CORE DETAILS				STRATA DETAILS				FRACTURE DETAILS			
REC%	WEATHERING	ESTIMATED ROCK STRENGTH	LEGEND	DEPTH	REDUCED LEVEL	MATERIAL DESCRIPTION	DEPTH	THICKNESS	DIP	FRACTURE SPACING (mm)	FRACTURE DESCRIPTION
25	EL	VL	EH	m			m	mm	deg.	50 100 300 500 1000	
10						Moderately dense yellow brown medium grained well sorted SAND. (AOLIAN SAND)					
				11.70	32.05						
12	CW					Moderately dense orange red clayey SAND. (RESIDUAL HAWKESBURY SANDSTONE)					
				12.50	31.25						
	HW					SANDSTONE. Orange red and yellow fine to medium grained banded.	12.67	5	5		Clay smeared smooth bedding plane.
				13.25	30.50						
	MW					Orange red and yellow medium grained SANDSTONE.	13.10	10	5		
							13.50	5	20		Rough, clean joint.
							13.69	5	5		
14	SW			14.00	29.75	SANDSTONE. Light grey and pink medium to coarse grained quartzose with black specks. Cross bedded massive. (HAWKESBURY SANDSTONE)					Bedding, smooth, clean.
				14.80	28.95		14.80	10	5		Clay filled fractured bedding zone.
				15.15	28.60	END 15.15M					
			END								
16											

REMARKS: 1. Core photographed.

CONTRACTOR: ENGINEERING EXPLORATION

DRILL: NMLC
BIT: TCID
FLUSH: WATER
CASING: NW

MADE BY: TCT DATE: 4.11.85

FIGURE 6 JOB 3970

ARUP

GEOTECHNICS CORED BOREHOLE RECORD

HOLE **A6**

SHEET **1**
OF **1**

PROJECT NAME: SYDNEY SPORTS CENTRE, MOORE PARK

LOCATION: See Figure 2

GROUND LEVEL: RL 44.20m

CORE DETAILS				STRATA DETAILS				FRACTURE DETAILS			
REC%	WEATHERING	ESTIMATED ROCK STRENGTH	LEGEND	DEPTH	REDUCED LEVEL	MATERIAL DESCRIPTION	DEPTH	THICKNESS	DIP	FRACTURE SPACING (mm)	FRACTURE DESCRIPTION
25	00	75		m			m	mm	deg.	1000 500 300 200 100 50 20	
				0.2	44.0	Tarmac and gravel road base.					
				0.4	43.8	Loose dark grey sandy TOPSOIL.					
				1.0	43.0	START CORING					
	HW					SANDSTONE. Light grey and orange brown banded medium to coarse grained with black and orange specks. Moderately bedded (5-100mm intervals).	1.05	5	5		Rough, no clay infilling.
							1.42	0	5		Smooth clean joint.
	MW						2.42	2	5		Smooth clean surface.
				3.1	41.10		3.16	0	2		Rough no clay infill.
				3.5	40.70						
	SW					SANDSTONE. Light grey with dark grey bands and specks. Fine to medium grained quartzose, massive cross-bedding.	3.7	5	5		Rough sugary surface.
							4.8	0	5		Clean smooth surface.
							5.7	5	5		Rough sugary surface.
				6.1	38.1	END OF BOREHOLE.					

REMARKS:

1. SPT at 0.8m (2. Refusal) commence coring
2. Casing (100mm) at 1.19m
3. No seepage encountered

CONTRACTOR: ENGINEERING EXPLORATION

DRILL: NMLC
BIT: TCID
FLUSH: WATER
CASING: NW

MADE BY: YCI DATE: 5.11.85

FIGURE **7**

JOB 3970

00006666

00006667

GEOTECHNICS

BOREHOLE RECORD

HOLE **A7**

SHEET 1
OF 3

PROJECT NAME: SYDNEY SPORTS CENTRE, MOORE PARK

LOCATION: See Figure 2
GROUND LEVEL: RL 44.55

[illegible]

REMARKS:

- 1) Seepage at 1.75m
- 2) SPT refusal at 2.45.

CONTRACTOR:

ENGINEERING EXPLORATION PTY LTD
EDSON 3000 (TRUCK)

BORING METHOD:

Ø 130mm AD Y-bit 0 - 2.45
WB Roller Tricone (revert); NIL
NMLC coring; 2.45 - 10.16m

MADE BY: TCT DATE: 5.11.85

FIGURE 8

JOB 3970

SHEET 2
OF 3

LOCATION: See Figure 2
GROUND LEVEL: RL 44.55 m

Rough sugary surface.

Rough clear joint.

Rough clean fracture.

Rough clean sugary joints.

Rough clean orange brown stained joint surface.

Smooth clean surface.

Broken clayey fracture zone

Soft clayey fracture zone

FIGURE 9 **JOB 3970**

GEOTECHNICS CORED BOREHOLE RECORD

SHEET 3

OF 3

PROJECT NAME: SYDNEY SPORTS CENTRE, MOORE PARK

LOCATION: See Figure 2

GROUND LEVEL: RL 44.39m

CONTRACTOR: ENGINEERING EXPLORATION

DRILL: NMLC
BIT: TCID
FLUSH: WATER
CASING: KW

MADE BY: TCT DATE: 5/11/85

FIGURE 10

JOB 3970

BOREHOLE RECORD

SHEET 1
OF 3

LOCATION: See Figure 2
GROUND LEVEL: RL 41.66

[illegible]

1. Seepage at 5.0m
2. Hole collapsed at 5.5m

BORING METHOD:
 Ø 130mm AD V-bit 0 - 5.65
 WB Roller Tricone (revert); 5.65 - 11.2
 NMLC coring; 11.2 - 17.0m

MADE BY: TCT DATE: 8/11/85

JOB 3970

BOREHOLE RECORD

SHEET 2
OF 3

LOCATION: See Figure 2
GROUND LEVEL: RL 41.66

10
12
14
16

JOB 3970

000000

ARUP

GEOTECHNICS CORED BOREHOLE RECORD

HOLE **A8**

SHEET **3**
OF **3**

PROJECT NAME: SYDNEY SPORTS CENTRE, MOORE PARK

LOCATION: See Figure 2

GROUND LEVEL: RL 41.32m

CORE DETAILS				STRATA DETAILS			FRACTURE DETAILS				
REC. %	WEATHERING	ESTIMATED ROCK STRENGTH	LEGEND	DEPTH	REDUCED LEVEL	MATERIAL DESCRIPTION	DEPTH	THICKNESS	DIP	FRACTURE SPACING (mm)	FRACTURE DESCRIPTION
25				m			m	mm	deg.	3000 1000 300 100 30	
10						Loose light grey clayey SAND.					
	CN					Residual SANDSTONE very clayey.					
						START CORING 11.2m					
	HW			11.2	30.12	SANDSTONE red brown medium to coarse grained.	11.4	4	5		Rough weathered surface.
12	CN			11.6	29.72	CLAYEY SILT, medium dense pale grey with a trace of sand. (Poor recovery logged from cuttings).					Not visible.
						(RESIDUAL SANDSTONE)					
	HW			13.2	28.12						
	SW			13.58	27.74	SANDSTONE light grey with orange specks, very clayey.	13.50	5	5		Clayey smooth surface.
14				14.00	27.32	SANDSTONE, predominantly light grey with black specks and orange bands. Medium to coarse grained, quartzose massive with cross bedding.	13.72	0	5		Clean smooth.
	MW			14.48	26.84		14.64	0	5		Clean smooth.
				15.08	26.24	At 15m becoming dark grey, thinly bedded with clay partings.	14.90	5	70		Clean rough joint sugary surface.
				15.80	25.52	MUDSTONE, dark grey thinly laminated, very sandy, friable. (Grade IV-V)* Becoming more lithified at 16.8m.	15.2	5	5		Clayey smooth bedding surfaces.
16	HW										Very friable.
				16.8	24.52						
				17.0	24.50						
						END OF BOREHOLE					

REMARKS:

- Core photographed
- Poor recovery 11.6 to 13.2m
- * From Table III Australian Geomechanics Journal 1978, Design Values for Foundations on Shale.

CONTRACTOR: ENGINEERING EXPLORATION

DRILL: NMLC
BIT: TCID
FLUSH: MUD
CASING: NW. 100mm dia.

MADE BY: TCT DATE: 6.11.85

FIGURE **13**

JOB 3970

00000673

00000673

ARUP
GEOTECHNICS

BOREHOLE RECORD

HOLE A9

SHEET 1
OF 3

PROJECT NAME: SYDNEY SPORTS CENTRE, MOORE PARK

LOCATION: See Figure 2

GROUND LEVEL: RL 38.93

CASING DEPTH (SIZE)	SAMPLING & INSITU TESTING			CONSISTENCY						LEGEND	STRATA		DESCRIPTION OF STRATA	WATER	
	TYPE	DEPTH		COHESIVE			NON COHESIVE				DEPTH	REDUCED LEVEL			
		FROM	TO	VS	SL	CL	VL	ML	OL						ND
m (mm)		m	m									m	AHD		
0														Loose brown sandy TOPSOIL.	
	SPT	0.8	1.25									0.8	38.13		
	2,2,3													Loose yellow brown fine to medium poorly graded SAND.	
	N=5									SP					
2															
	SPT	2.2	2.65									2.2	36.73	Medium dense yellow brown SAND.	
	4,6,8														
	N=14														
														As above.	
	SPT	3.7	4.15							SP					
4	7,11,11														
100m	N=22														
	SPT	5.2	5.65									5.2	33.73	Medium dense yellow brown becoming pale grey SAND clayey below 5.2m, moist. (Loose band of sandy clay at 5.4m in SPT).	5.2
	9,7,16									SC					
	N=23											5.5	33.43		
										SP					
	SPT	6.7	7.15											Medium dense yellow brown fine well sorted SAND.	
	16,15,16														
	N= 31														
8															

REMARKS:

1. Hole caved at 4m after SPT.
2. Mud flush from 4.15m.
3. See page

CONTRACTOR:

ENGINEERING EXPLORATION PTY LTD
EDSON 3000 (TRUCK)

BORING METHOD:

ø 130mm AD V-bit 0 - 4.5
WB Roller Tricone (revert); 4.15 - 21.65
NMLC coring; 21.65 - 23.65

MADE BY: TCT

DATE: 6.11.85

FIGURE 14

JOB 3970