MAIN ROADS DEPARTMENT — ENGINEERING BORE LOG

FORM 23 ZL (c) -/9/80

PROJECT AIRPORT DRIVE ROUNDABOUT GRADE SEPARATION
FOUNDATION INVESTIGATION

Sheet 1 of 3

HOLE No. 1

LOCATION Chainage 21948.4, 9m left of control line

REF. No. H 6099

DATUM AHD

JOB No. 140/U13C/201 PROJECT No. 1-596 DATE 23/11/88

SURFACE R.L. 4.69

AUGER / DRILLING / CASING / OTHER	DEPTH (m)	1:50 R.L. 4.69	STRATA DESCRIPTION — LITHOLOGY / SOIL TYPE OR WEATHERING	FIELD SAMPLE & N VALUE	GRAPHIC LOG	ENGINEERING PROPERTIES — PARAMETERS & INDICES	MC (%) x / DD (t/m³) □ (x 20 x 25 x 30 x 35; □ 1.4 1.6 1.8 2.0)
	0		**SILTY CLAY (1)** Dark grey to grey brown. Moist, very stiff alluvium. Fine grained sandy in parts.	A		c = 159kPa ϕ = 13.0°	x □
	1			B16			
	2	2.69	**SILTY SAND** Grey white, brown ironstained in part, wet, loose to medium dense fine to coarse grained alluvium.	C			
	3		Gravelly in part. Gravel quartzose to 20mm mainly 6-10mm.		▽	12/12/88	
	4	1.02	Less sandy in part Slightly clayey near base.	D18			
	5			E16		gravelly	
	6			F27			
	7			G25		slightly clayey	
	8	-3.51		H7			
	9		**CLAY** Grey to dark grey, brown ironstained in part, moist, stiff to very stiff alluvium Structure evident with ironstaining along defects. Slickensides present.	J10			
				K		c = 90kPa ϕ = 11.5°	

REMARKS Other Drilling - Wash Boring and Drilling Mud.

GEOL.
ENGR.
APPR.

S.P.T. | Core Loss | WEATHERED CONDITION | Extremely Weathered | Moderately Weathered | Water Level

NOTE FOR TERMS AND SYMBOLS REFER

FORM 23 ZL (c)
-/9/80

MAIN ROADS DEPARTMENT . ENGINEERING BORE LOG

PROJECT AIRPORT DRIVE ROUNABOUT GRADE SEPARATION
FOUNDATION INVESTIGATION

Sheet 2 of 3

HOLE No. 1(cont'd)

LOCATION

REF. No. H

DATUM

JOB No. PROJECT No. DATE

SURFACE R.L.

AUGERING / CORE DRILLING / CASING / OTHER	DEPTH (m)	1:50 R.L.	STRATA DESCRIPTION: LITHOLOGY / SOIL TYPE OR WEATHERING	FIELD SAMPLE & N VALUE	GRAPHIC LOG	ENGINEERING PROPERTIES: PARAMETERS & INDICES	MC (%) x 20 x 25 x 30 x 35 / DD (t/m³) □ 1.4 1.6 1.8 2.0
		-5.31					
	11	-6.51	CLAY (Cont'd)	L		c = 210kPa ø = 16.0°	
	12		CLAYEY SAND AND GRAVEL Dark grey mottled brown to pale grey mottled, wet medium dense to very dense alluvium. Very clayey throughout. Gravelly clay in part. Gravel consists of very low strength weathered rock as well as high strength rock to 50mm. Less gravelly near top Sand fraction fine to coarse grained.	M39		less gravelly	
	13			N			
	14			P29		gravelly clay	
	15			Q57			
	16			R52			
	17	-12.51		S70			
	18		MUDSTONE fine grained Greygreen, poorly consolidated. Sedimentary rock. Swells and cracks readily. HIGHLY WEATHERED Material exhibits properties of a dense to very dense clayey silt.	T42			
	19			U30			
		-15.11	MODERATELY WEATHERED	V 35/130			

REMARKS + no sample recovered - stone jammed in cone
Other Drilling - Wash Boring and Drilling Mud.

GEOL.
ENGR.
APPR.

S.P.T. | Core Loss | WEATHERED | Extremely Weathered | Moderately Weathered | Water Level

NOTE

MAIN ROADS DEPARTMENT — ENGINEERING BORE LOG

FORM 23 ZL (d) -/9/80

PROJECT AIRPORT DRIVE ROUNDABOUT GRADE SEPARATION FOUNDATION INVESTIGATION

Sheet 3 of 3

HOLE No. 1 Cont.

LOCATION

REF. No. H

DATUM

JOB No. PROJECT No. DATE

SURFACE R.L.

AUGERING / CORE DRILLING / CASING / OTHER	DEPTH (m)	1:50 R.L. -15.31	STRATA DESCRIPTION: LITHOLOGY / SOIL TYPE OR WEATHERING	R.Q.D. ( )% CORE REC. %	GRAPHIC LOG	STRUCTURE	ENGINEERING PROPERTIES: INTACT STRENGTH / DEFECT SPACING
	21		MUDSTONE (Cont.) MODERATELY WEATHERED (Cont.) Defects along joints brown or black ironstained. Joints subvertical or low to medium angle.			subvertical defects	
	22	-17.11		96		black ironstaining; subvertical joints; brown ironstaining	
	23		END OF HOLE				
	24						
	25						
	26						
	27						
	28						
	29						

EH VH H M L VL EC VC C M W VW EW

REMARKS ⊗ axial point load test

GEOL. RdeV

ENGR.

APPR.

S.P.T. | Core Loss | WEATHERED FORMATION | Extremely Weathered | Moderately Weathered | Water Level

NOTE: For notes see attached cover pages.