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ENGINEERING BOREHOLE

FOR GEOTECHNICAL TERMS AND SYMBOLS REFER FORM F:GEOT 017/2-2004 BOREHOLE No ___BH130 ___

SHEET __1_ of __3_

REFERENCE No ___H9439 ___

PRO	DJECT GATEWAY UPGRADE PROJECT GEOTECHNICAL INVESTIGATION - NORTHERN SECTION										
		CONTROL LINE			: MCAO - Ch. 23442.9 - OFFSET 0.4 R	OORDINATES 9431.1 E; 173692.0 N					
		FM2055									
JOB	No				DATUM <u>AHD</u> .		DAT	E COMPLETED _17/8/	04	DRILLER R&D DRILLING	<u>3 PTY L</u> TI
DEPTH (m)	R.L. (m)	M AUGER CASING WASH BORING CORE DRILLING	RQD ()%	SAMPLE	MATERIAL DESCRIPTION	ПТНОСОСУ	THERING	INTACT DEFECT SPACING (mm)	GRAPHIC LOG	ADDITIONAL DATA AND	LES S
0	4.96	SAN S	CORE REC %	SAM		Ē	USC	88888 PF™XXX	GR.	TEST RESULTS	SAMPLES
1					LANDFILL Brown, moist, firm silty clay comprising bricks, glass, rocks, wood, rags, plastic and metals.			# + + + + + + + + + + + + + + + + + + +		3,7,8 N=15	SPT
-2								1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		1,4,3 N=7	SPT
-3										1,3,4 N=7	SPT
-4	0.66				Minor organic content. SANDY SILTY CLAY / FILL (??)	777				Wood 150mm. 10/0,-,- Hammer bounced. N>50	SPI
SDT 30/4/05					Orange brown to dark grey brown, moist, firm.		CI	+ + + + + + + + +		Sandy at base	-
REHOLE FINAL.G	-0.34				CLAYEY SANDY GRAVEL / FILL (??) Orange brown to dark brown, moist to wet, loose.					2,2,4 N=6	SPT
ADE.GPJ ENG BOR	-2.04						GC			2,3,5 N=8	SPT
BOREHOLE WITH LITHOLOGY GATEWAY NORTHERN UPGRADE.GPJ ENG BOREHOLE FINAL.GDT 30/4/05	-2.04				ESTUARINE SILTY CLAY Dark grey, moist, firm, sensitive. Minor organic content, high plasticity. Some cubic structures and fissuring					MC=60.2%,WD=1.66t/m3, PP=40kPa	U50 :
HOLOGY GATEW					towards bottom.		ОН	+ + + + + + + + + + + + + + + + + + +		Peak Su=41.6kPa, Res Su=9.6kPa	FSV
BOREHOLE WITH LIT	-5.04							1		APD=2.676t/m3, LL=77.8%, PI=47.2%, LS=19.8% PP=30kPa MC=71.56t/m3; APD=2.676t/m3 LL=77.8%; PI=47.2%, LS=19.8	U50 ;
REMARKS Defect angles have been measured with respect to a horizontal plane. LOGGED BY											
										B.Woodgate & A.Dissana	ayake



BOREHOLE WITH LITHOLOGY GATEWAY NORTHERN UPGRADE.GPJ ENG BOREHOLE FINAL.GDT 30/4/05

ENGINEERING BOREHOLE

FOR GEOTECHNICAL TERMS AND SYMBOLS REFER FORM F:GEOT 017/2-2004

BOREHOLE No	BH130
SHEET	2 of3
REFERENCE No	H9439

			RADE PROJECT GEOTECHNICAL INVESTI				CTION		
OCATION CONTROL LINE: MCAO - Ch. 23442.9 - OFFSET 0.4 R								OORDINATES 9431.1 E; 173692.0 N	
PROJECT No FM2055						ATE STARTED _17			
JOB No _			DATUM <u>AHD</u> .		DAT	E COMPLETED _17	/8/04	DRILLER R&D DRILLING PTY LT	
	CORE DRILLING SEC	SAMPLE	MATERIAL DESCRIPTION	гітногову	USC	INTACT DEFEC STRENGTH SPACIN (mm)	ic Log	ATAD LANOITIDDA DATA DATA AND SWEET SWE	
10 -5.04 < C			ESTUARINE SILTY CLAY (As above)	183333333333	ر ا			Peak Su=38.4, Res Su=6.4kPa FSV	
7-11					ОН	† † † † † † † † † † † † † † † † † † †		MC=76.8, WD=1.56t/m3, DD=0.88t/m3; APD=2.62t/nRg=30kPa	
-			SANDY CLAY - ALLUVIUM Grey, moist, stiff. High plasticity, fine to medium grained sand.		<u> </u>			Peak Su=112kPa, Res Su=9.6kPa FSV	
-13					CL.	+ + + + + + + + + + + + + + + + + + +		3,5,8 N=13	
-14 -3.54 -15			SANDSTONE FINE TO MEDIUM GRAINED, LAMINATED, POORLY CEMENTED SEDIMENTARY ROCK. HW: Generally exhibits engineering properties of pale green to mottled orange, dry, hard sandy silty clay gradually grading to low strength rock with depth.					11,22,30 N=52	
- 16 - 17					HW			12,19,28 N=47	
-12.54 -18	(91)		SILTSTONE FINE GRAINED, THINLY LAMINATED, SEDIMENTARY ROCK. MW: Orange brown to grey brown, thinly laminated, very low to low strength with some low to medium strength bands. Defects: - Frequent lamination parting <20deg (4-5/m).		MW			Is(50)=0.08 MPa	
-14.94 20 -15.04 REMARKS [100 (92) Defect angles	have	been measured with respect to a horizontal plane.					LOGGED BY B.Woodgate & A.Dissanayake	



ENGINEERING BOREHOLE

FOR GEOTECHNICAL TERMS AND SYMBOLS REFER FORM F:GEOT 017/2-2004

BOREHOLE №	BH130				
SHEET	_3_ of _3_				
REFERENCE No	H9439				

PROJECT GATEWAY UPGRADE PROJECT GEOTECHNICAL INVESTIGATION - NORTHERN SECTION CONTROL LINE: MCAO - Ch. 23442.9 - OFFSET 0.4 R LOCATION COORDINATES 9431.1 E; 173692.0 N PROJECT No <u>FM2055</u> _ _ _ SURFACE R.L. 4.96 DATE STARTED _17/8/04__ DATUM SETP _______ JOB No DATUM _AHD _. DATE COMPLETED _17/8/04__ DRILLER R&D DRILLING PTY LTD R.L. RQD INTACT DEFECT ()% ADDITIONAL DATA STRENGTH SPACING DEPTH (m) MATERIAL (mm) AND GRAPHIC SAMPLES DESCRIPTION CANGE SAMPL CORE TEST RESULTS REC % 20 мW ls(50)=0.40 MPa ls(50)=0.13 MPa SANDSTONE FINE TO MEDIUM GRAINED, LAMINATED, POORLY CEMENTED, SEDIMENTARY ROCK. ls(50)=0.38 MPa ls(50)=0.40 MPa MW: Orange brown to brown, thinly laminated to slightly massive, mainly medium to some high strength bands. MW Occasional carbonaceous up to 2-5mm. Is(50)=0.51 MPa 0 ls(50)=0.35 MPa Defects: Drilling induced lamination partings <25deg (1-2/m). 22 ls(50)=1.11 MPa 0 Is(50)=0.64 MPa х <u>10</u>0 17.54 Borehole terminated at 22.5m -24 30/4/05 ENG BOREHOLE FINAL.GDT GATEWAY NORTHERN UPGRADE.GPJ BOREHOLE WITH LITHOLOGY -29 REMARKS Defect angles have been measured with respect to a horizontal plane. LOGGED BY B.Woodgate & A.Dissanayake

Project: Gateway Upgrade Project Geotechnical Investigation

Borehole No: BH 130
Start Depth: 17.50m
Finish Depth: 22.50m
Project No: FM2055

