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REPORT OF BOREHOLE: BH405

SHEET: 1 OF 3

DRILL RIG: Fox B40

CONTRACTOR: Schneider Drilling Pty Ltd

LOGGED: FHH DATE: 19/8/11

CHECKED: NK DATE: 26/9/11

CLIENT: McConnell Dowell Constructors (Aust) P/L COORDS: 85407.0 m E 60343.7 m N GCCC

PROJECT: Gold Coast Rapid Transit SURFACE RL: -5.13 m DATUM: AHD

LOCATION: Zone 4 INCLINATION: -90°

JOB NO: 117632047 HOLE DEPTH: 16.00 m

Drilling				Sampling		Field Material Description					
METHOD	PENETRATION RESISTANCE	WATER	DEPTH (metres)	DEPTH RL	SAMPLE OR FIELD TEST	RECOVERED GRAPHIC LOG	USC SYMBOL	SOIL/ROCK MATERIAL DESCRIPTION		MOISTURE CONDITION	STRUCTURE AND ADDITIONAL OBSERVATIONS
RT	L		0	-5.13			SW	SAND	fine to medium grained, yellow brown and dark grey, in dark grey low plasticity clayey matrix in some place, wet, very loose to loose		
			1							VL - L	
			2		SPT 1.60-2.05 m 3, 1, 1 N=2						
			2.50	-7.63				becoming loose to medium dense below approximately 2.50 m depth		W	
			3		SPT 3.10-3.55 m 10, 16, 12 N=28					L - MD	
			3.90	-9.03			GP	Sandy GRAVEL	fine grained, sub-angular to angular, grey and yellow brown, medium grained sand, with some shells, wet, medium dense	MD	
			4.20	-9.33			SM	Silty SAND	fine to medium grained, brown, wet, loose		
			5		SPT 4.80-5.25 m 3, 3, 4 N=7					L	
			5.60	-10.73			CI	Silty CLAY	medium plasticity, pale grey to pale green grey, moist, stiff	M	St
			6	-6.10	-11.23			ARGILITE	fine grained, pale grey to pale green grey, low strength, distinctly weathered		
					SPT 6.30-6.35 m 30/50 mm			For Continuation Refer to Sheet 2			
			7								
			8								
			9								
			10								

This report of borehole must be read in conjunction with accompanying notes and abbreviations. It has been prepared for geotechnical purposes only, without attempt to assess possible contamination. Any references to potential contamination are for information only and do not necessarily indicate the presence or absence of soil or groundwater contamination.

GAP gINT FN. F01a
RL3



REPORT OF BOREHOLE: BH405

SHEET: 3 OF 3

DRILL RIG: Fox B40

CONTRACTOR: Schneider Drilling Pty Ltd

LOGGED: FHH DATE: 19/8/11

CHECKED: NK DATE: 26/9/11

CLIENT: McConnell Dowell Constructors (Aust) P/L COORDS: 85407.0 m E 60343.7 m N GCCC
PROJECT: Gold Coast Rapid Transit SURFACE RL: -5.13 m DATUM: AHD
LOCATION: Zone 4 INCLINATION: -90°
JOB NO: 117632047 HOLE DEPTH: 16.00 m

Drilling					Field Material Description					Defect Information				
METHOD	WATER	TCR	RQD (SCR)	DEPTH (metres)	DEPTH RL	GRAPHIC LOG	ROCK / SOIL MATERIAL DESCRIPTION	WEATHERING	INFERRED STRENGTH Is (50) MPa	DEFECT DESCRIPTION & Additional Observations				AVERAGE DEFECT SPACING (mm)
NMLC			100	34	10		ARGILLITE fine grained, pale green grey, numerous quartz veins	SW		9.45 m: V, 75°, 5 mm, quartz 9.45 m: J, 75°, Pl, Ro, Cn, possible drilling break along the quartz vein 9.47 m: V, 75°, 5 mm, quartz 9.60 m: J, 60°, Pl, Sm, Cn 9.65 m: DB 9.85 m: DB 10.00-10.16 m: numerous small (10-15 mm) cavities in core 10.50 m: IS, 50°, Pl, Sm, Cn 10.58 m: DB 10.61 m: DB 10.62 m: J, 90°, Pl, Sm, Cn, possible drilling break on quartz vein 10.67 m: J, 80°, Pl, Ro, Cn 10.81 m: J, 40°, Pl, Ro, Cn 10.86 m: J, 40°, Pl-St, Ro, Cn 11.16 m: J, 65°, Pl, Ro, Cn 11.18 m: J, 70°, Pl, Ro, Cn 11.32 m: J, 80°, Pl-St, Ro, Vr 11.38 m: DB 11.47 m: DB 12.00: with some pyrite in some joints / drilling breaks below 12.0 m depth 12.68 m: V, 70°, 1 mm, quartz 12.86 m: DB				
			100	81	11									
					12									
					13									
					14									
					15									
			100	82	16									
					17									
					18									
					19									
					20		END OF BOREHOLE @ 16.00 m TARGET DEPTH DRILLED OVER WATER							

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GAP gINT FN. F02a
RL3



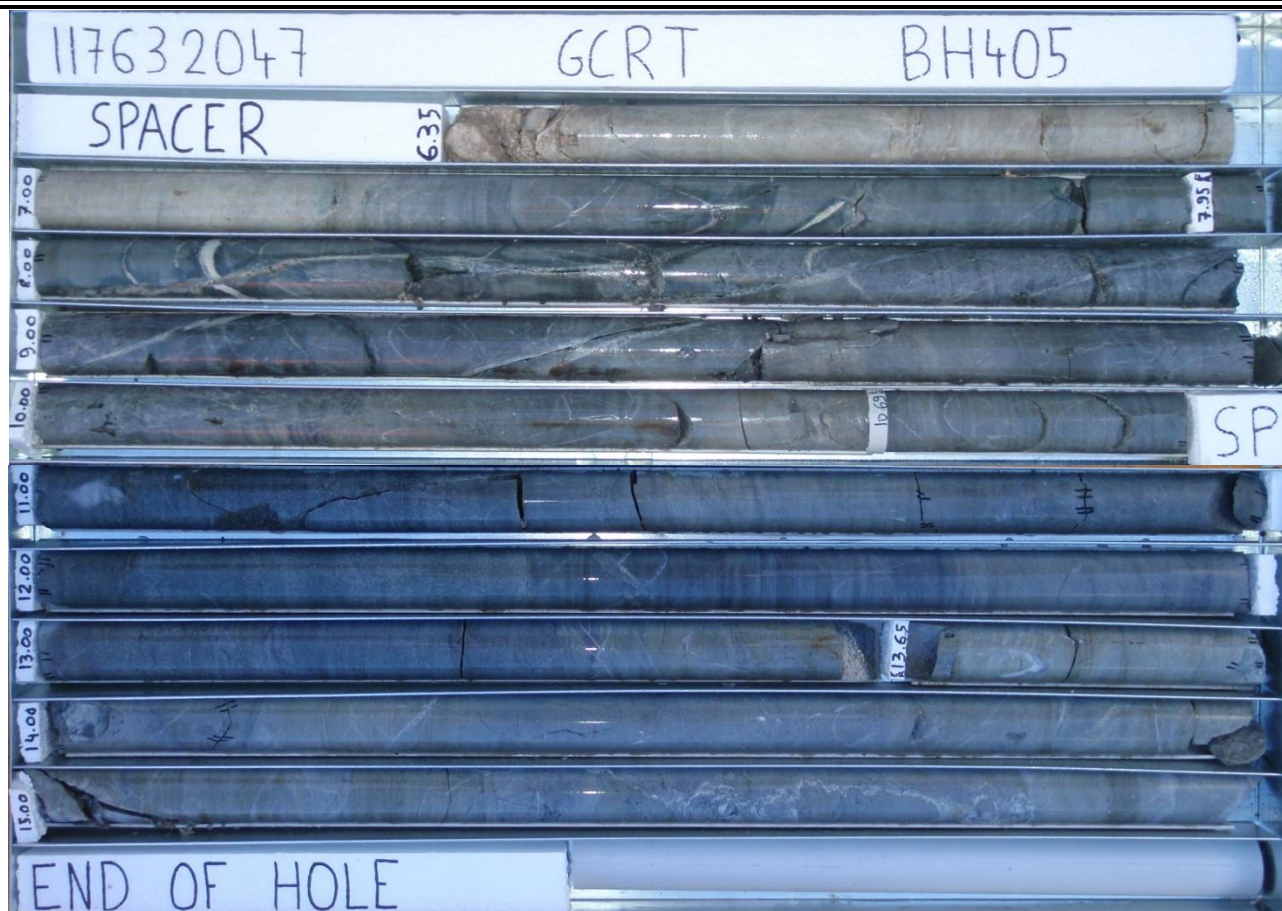
PRELIMINARY REPORT OF PHOTOGRAPHS:

BH405

CLIENT: McConnell Dowell Constructors
PROJECT: Gold Coast Rapid Transit
LOCATION: Zone 4
JOB NO: 117632047

COORDS: 85407.06 m E 60343.69 m N
SURFACE RL: -5.13 m DATUM: AHD
INCLINATION: -90°
HOLE DEPTH: 16.00 m

DEPTH RANGE: 6.35 – 16.00 m
DRILL RIG: FOX B40
DRILLER: Schneider Drilling Pty Ltd
LOGGED: FHH DATE: 18/08/11
CHECKED: NK DATE: 16/9/11



6.35 – 16.00 m