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REPORT OF BOREHOLE: BH404

SHEET: 1 OF 3

DRILL RIG: Fox B40

CONTRACTOR: Schneider Drilling Pty Ltd

LOGGED: FHH DATE: 18/8/11

CHECKED: NK DATE: 26/9/11

CLIENT: McConnell Dowell Constructors (Aust) P/L COORDS: 85398.9 m E 60373.5 m N GCCC

PROJECT: Gold Coast Rapid Transit SURFACE RL: -3.04 m DATUM: AHD

LOCATION: Zone 4 INCLINATION: -90°

JOB NO: 117632047 HOLE DEPTH: 13.88 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	-3.04			SW	SAND fine to medium grained, yellow brown and dark grey, trace dark grey medium plasticity clay, grading to clayey sand in places, wet, very loose			
			1							VL	
			2	2.00 -5.04	SPT 1.80-2.25 m 0, 0, 0 N=0			becoming very loose to loose below approximately 2.0 m depth			
			2.60 -5.64							VL - L	
			2.80 -5.84				CI	Gravelly CLAY (EW Argillite) medium plasticity, pale brown to pale green grey, medium sub-angular gravel, moist to wet, stiff		M - W	St
			3	3.10 -6.14	SPT 3.30-3.48 m 17, 30/30 mm N>30			ARGILITE pale brown to pale green grey, distinctly weathered, very low strength to low strength becoming medium to high strength below approximately 3.1 m depth			
	M										
	M-H										
			4					For Continuation Refer to Sheet 2			
			5								
			6								
			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



DRILL RIG: Fox B40

CONTRACTOR: Schneider Drilling Pty Ltd

LOGGED: FHH DATE: 18/8/11

CHECKED: NK DATE: 26/9/11

PROJECT: Gold Coast Rapid Transit

SURFACE RL: -3.04 m DATUM: AHD

LOCATION: Zone 4

INCLINATION: -90°

JOB NO: 117632047

HOLE DEPTH: 13.88 m

VMLC

GAP gINT FN. F02a
RI.3



REPORT OF BOREHOLE: BH404

SHEET: 3 OF 3

DRILL RIG: Fox B40

CONTRACTOR: Schneider Drilling Pty Ltd

LOGGED: FHH DATE: 18/8/11

CHECKED: NK DATE: 26/9/11

CLIENT: McConnell Dowell Constructors (Aust) P/L COORDS: 85398.9 m E 60373.5 m N GCCC
PROJECT: Gold Coast Rapid Transit SURFACE RL: -3.04 m DATUM: AHD
LOCATION: Zone 4 INCLINATION: -90°
JOB NO: 117632047 HOLE DEPTH: 13.88 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	71	10	-13.04	ARGILLITE fine grained, pale green grey to green grey, numerous quartz veins	SW		7.42 m: J, 40°, Pl-St, Ro, Vr 7.43 m: J, 90°, Pl, Ro, Cn 7.65 m: V, 85°, 1 mm, quartz 7.68 m: J, 20°, Pl, Ro, Cn 7.70 m: V, 75°, 1 mm, quartz 7.73 m: J, 90°, Un, Sn-Vr, FeO 7.84-8.17 m: multiple handling breaks, core recovered without breaks 8.24 m: J, 80°, Pl, Ro, Cn 8.43 m: V, 40°, 5 mm, quartz 10.02 m: J, 75°, Pl, Cn 10.07 m: J, 70°, Pl, Sm, Cn 10.16 m: J, 70°, Pl, Sm, Cn 10.24 m: J, 80°, Pl, Cn 10.27 m: J, 40°, Pl-St, Sm, Cn 10.48 m: V, 20°, 20 mm, quartz 10.50 m: J, Pl, Sm, Cn 10.65 m: J, 70°, Pl, Sm, Cn 10.70 m: V, 80°, 3 mm 10.76 m: J, 30°, Pl, Ro, Cn 10.83 m: V, 60°, 10 mm, quartz 10.84 m: V, 30°, 3 mm, quartz 11.14 m: V, 50°, 8 mm, quartz 11.31 m: J, 60°, Pl, Sm, Cn 11.35 m: V, 65°, 5 mm, quartz 11.38 m: IS, 75°, Pl, Ro, Vr 11.49 m: DB 11.74 m: DB 11.78 m: DB 11.82 m: J, 15°, Pl, Sm, Cn, possible drilling break 11.93 m: DB 12.09 m: V, 70°, 3 mm, quartz 12.27 m: DB 12.58 m: V, 45°, 2 mm, quartz 12.65 m: DB			
					11	11.00 -14.04	dark green grey to green grey, some dark grey clast (?)						
			100	85									
						12							
						13	pale green grey to green grey, some quartz veins						
						14	some dark grey thin (5-10 mm) layers in places below 13.66 m depth						
						15	END OF BOREHOLE @ 13.88 m TARGET DEPTH DRILLED OVER WATER						
						16							
						17							
						18							
						19							
						20							

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GAP gINT FN. F02a
RL3



REPORT OF CORE PHOTOGRAPHS: BH404

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

COORDS: 85398.95 m E 60373.48 m N
SURFACE RL: -3.04 m DATUM: AHD
INCLINATION: -90°
HOLE DEPTH: 13.88 m

DEPTH RANGE: 3.80 – 13.88 m
DRILL RIG: FOX B40
DRILLER: Schneider Drilling Pty Ltd
LOGGED: FHH DATE: 17/08/11
CHECKED: NK DATE: 16/9/11



3.80 – 13.88 m