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REPORT OF BOREHOLE: BH410

SHEET: 1 OF 3

DRILL RIG: Fox B40

CONTRACTOR: Schneider Drilling Pty Ltd

LOGGED: BC DATE: 15/9/11

CHECKED: NK DATE: 27/9/11

CLIENT: McConnell Dowell Constructors (Aust) P/L COORDS: 85447.3 m E 60188.7 m N GCCC

PROJECT: Gold Coast Rapid Transit SURFACE RL: -5.11 m DATUM: AHD

LOCATION: Zone 4 INCLINATION: -90°

JOB NO: 117632047 HOLE DEPTH: 15.80 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	CONSISTENCY DENSITY	STRUCTURE AND ADDITIONAL OBSERVATIONS			
RT	L		0	-5.11	SPT 1.60-2.05 m 1, 1, 4 N=5			ML	Sandy SILT medium plasticity, dark grey, fine to coarse angular sand	W	L				
			1	SPT 3.50-3.95 m 17, 20, 26 N=46									SP	SAND fine to coarse grained, sub-rounded to angular, pale brown	
			2										SP	SAND fine to coarse grained, sub-rounded to angular, dark brown, odourous	
			3										CL- CI	Gravelly CLAY medium plasticity, brown, fine to medium angular to sub-rounded quartz gravel	
			4										ML	Clayey SILT medium plasticity, grey to pale grey and pale green	
			5	5.35	SPT 5.00-5.41 m 11, 17, 30/110 mm N>47 PP =180 kPa					M	St - VSt				
			6												
			7												
			8												
			9												
10															

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GAP gINT FN. F01a
RL3



REPORT OF BOREHOLE: BH410

SHEET: 3 OF 3

DRILL RIG: Fox B40

CONTRACTOR: Schneider Drilling Pty Ltd

LOGGED: BC DATE: 15/9/11

CHECKED: NK DATE: 27/9/11

CLIENT: McConnell Dowell Constructors (Aust) P/L COORDS: 85447.3 m E 60188.7 m N GCCC
PROJECT: Gold Coast Rapid Transit SURFACE RL: -5.11 m DATUM: AHD
LOCATION: Zone 4 INCLINATION: -90°
JOB NO: 117632047 HOLE DEPTH: 15.80 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 $I_{s(50)}$ MPa	DEFECT DESCRIPTION & Additional Observations			AVERAGE DEFECT SPACING (mm)	
NMLC			99 43 (64)	10			ARGILLITE fine grained, grey to green with dark grey layers	SW		9.32 m: J, 10°, Un, Sm, Cn 9.40 m: J, 40°, Un, Sm, Cn 9.42 m: HB 9.46 m: J, 10°, Un, Sm, Cn 9.70 m: J, 65°, Un, Sm, Cn 9.90 m: J, 50°, Un, Sm, Cn 9.93 m: J, 50°, Un, Sm, Ct, pale grey clay veneer in places 10.04 m: J, 80°, Un, Sm, Cn 10.10 m: J, 0°, Un, Sm, Cn 10.13 m: J, 60°, Un, Sm, Ct 10.30 m: FC, 60°, Un, Sm, Cn, surfaces appear polished 10.45 m: J, 70°, Un, Sm, Cn, sp = 30 mm 10.73 m: DB 10.76 m: J, 30°, Un, Sm, Cn 10.82 m: J, 65°, Un, Sm, Cn-Vr, 1 mm 10.87 m: J, 35°, Un, Ro, Cn 10.92 m: J, 50°, Un, Sm, Vr, grey clay 10.98 m: J, 30°, Un, Ro, Cn 11.22 m: J, 5°, Un, Ro, Cn 11.27 m: J, 50°, Un, Ro, Cn 11.61 m: J, 45°, Un, Ro, Cn 11.68 m: J, 35°, Pl, Ro, Cn 11.75 m: J, 0°, Un, Ro, Cn 11.85 m: J, 5°, Un, Sm, Cn 11.98 m: J, 40°, Un, Sm, Cn-Ct, with rare pyrite coating 12.15 m: J, 10°, Un, Sm, Ct, rare pyrite coating 12.26 m: J, 45°, Un, Sm, Cn 12.36 m: J, 25°, Un, Sm, Cn 12.42 m: J, 40°, Un, Ro, Cn 12.54 m: J, 40°, Un, Sm, Cn-Ct, rare pyrite coating 12.66 m: J, 60°, Un, Sm, Cn-Ct, rare pyrite coating 12.73 m: J, 55°, Un, Sm, Ct, pyrite coating 12.82 m: J, 60°, Un, Sm, Cn-Ct, rare pyrite coating 12.92 m: J, 65°, Un, Sm, rare pyrite speckles 13.05 m: J, 40°, Un, Sm, Ct, pyrite coating 13.32 m: J, 15°, Un, Sm, Cn, with rare pyrite speckles 13.42 m: J, 45°, Un, Sm, Cn-Ct, with pyrite speckles 13.53 m: J, 20°, Un, Ro, Cn 13.55 m: J, 80°, Un, Sm, Cn, with rare pyrite speckles 13.74 m: J, 5°, Un, Sm, Cn 13.87 m: J, 5°, Un, Sm, Vr, grey clay veneer 14.00 m: J, 55°, Un, Sm, Cn, with rare pyrite speckles 14.05 m: J, 55°, Un, Sm, Cn, with rare pyrite speckles 14.28 m: J, 0°, Un, Sm, Cn 14.48 m: J, 45°, Un, Sm, Cn 14.89 m: J, 30°, Un, Sm, Cn 15.08 m: J, 35°, Un, Sm, Cn 15.14 m: J, 5°, Un, Sm, Cn 15.32 m: J, 40°, Pl, Sm, Cn, with rare pyrite speckles 15.34 m: J, 35°, Un, Sm, Cn				
			100 60 (80)	11										
			100 81 (86)	12										
				13										
				14										
				15	15.80 -20.91		END OF BOREHOLE @ 15.80 m DRILLED OVER WATER							
				16										
				17										
				18										
				19										
				20										

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GAP gINT FN. F02a
RL3

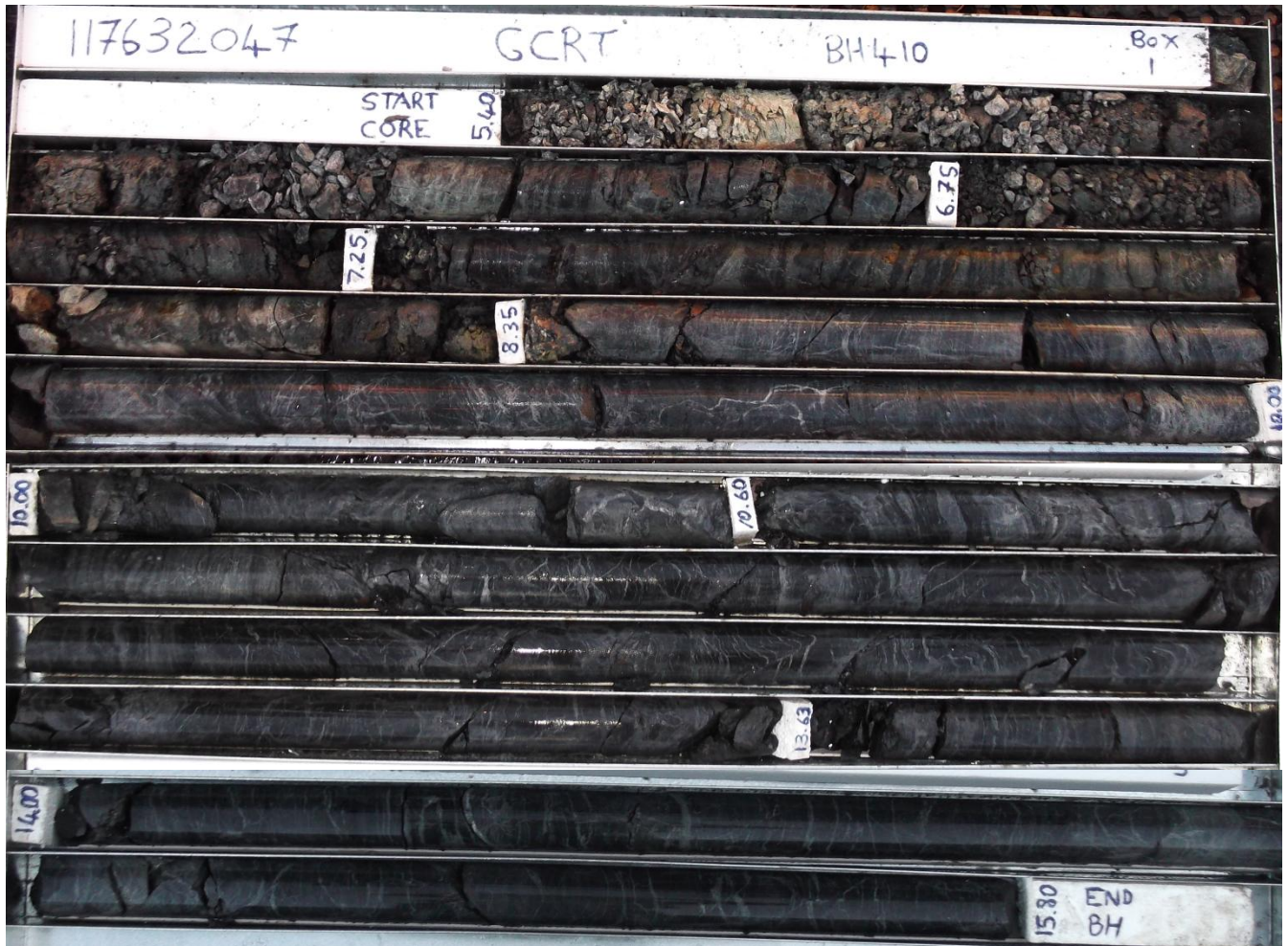


REPORT OF PHOTOGRAPHS: BH410

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

COORDS: 85447.3 m E 60188.7 m N
SURFACE RL: -5.11 m DATUM: AHD
INCLINATION: -90°
HOLE DEPTH: 15.80 m

DEPTH RANGE: 5.40 – 15.80 m
DRILL RIG: Fox B40
DRILLER: Schneider Drilling Pty Ltd
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5.40 – 15.80 m