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REPORT OF BOREHOLE: BH426

SHEET: 1 OF 6

DRILL RIG: Hydrapower Scout

CONTRACTOR: GeoDrill Pty Ltd

LOGGED: BT DATE: 7/9/11

CHECKED: NK DATE: 27/9/11

CLIENT: McConnell Dowell Constructors (Aust) P/L COORDS: 85473.6 m E 60105.9 m N GCCC

PROJECT: Gold Coast Rapid Transit SURFACE RL: 4.63 m DATUM: AHD

LOCATION: Zone 4 INCLINATION: -90°

JOB NO: 117632047 HOLE DEPTH: 23.34 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
ADT			0.0	4.63				FILL: Sandy Clayey GRAVEL fine to coarse grained, sub-rounded to sub-angular, pale brown, low plasticity clay, fine to coarse grained sand, trace shards of plastic		Grass at surface. Roots
			0.5		SPT 0.50-0.95 m 3, 3, 2 N=5					
			1.0	1.00 3.63	SPT 1.00-1.45 m 2, 2, 2 N=4			FILL: Silty SAND fine to coarse grained, sub-rounded to sub-angular, pale brown	M	
			1.5						VL	
			2.0							
RT	L	Groundwater not observed	2.5		SPT 2.50-2.95 m 1, 2, 2 N=4					
			3.0							
			3.5							
			4.0	4.00 0.63	SPT 4.00-4.45 m 4, 6, 9 N=15		SM	Silty SAND fine to coarse grained, sub-rounded to sub-angular, pale brown	MD	
			4.5	4.40 0.23				grey, with some shell fragments up to 5 mm in diameter		
			5.0							

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GAP gINT FN. F01a
RL3



REPORT OF BOREHOLE: BH426

SHEET: 2 OF 6

DRILL RIG: Hydrapower Scout

CONTRACTOR: GeoDrill Pty Ltd

LOGGED: BT DATE: 7/9/11

CHECKED: NK DATE: 27/9/11

CLIENT: McConnell Dowell Constructors (Aust) P/L COORDS: 85473.6 m E 60105.9 m N GCCC

PROJECT: Gold Coast Rapid Transit SURFACE RL: 4.63 m DATUM: AHD

LOCATION: Zone 4 INCLINATION: -90°

JOB NO: 117632047 HOLE DEPTH: 23.34 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	Groundwater not observed	5.0				SM	Silty SAND fine to coarse grained, sub-rounded to sub-angular, pale brown					
				SPT 5.30-5.75 m 5, 6, 8 N=14									
											</		

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REPORT OF BOREHOLE: BH426

SHEET: 3 OF 6

DRILL RIG: Hydrapower Scout

CONTRACTOR: GeoDrill Pty Ltd

LOGGED: BT DATE: 7/9/11

CHECKED: NK DATE: 27/9/11

CLIENT: McConnell Dowell Constructors (Aust) P/L COORDS: 85473.6 m E 60105.9 m N GCCC

PROJECT: Gold Coast Rapid Transit SURFACE RL: 4.63 m DATUM: AHD

LOCATION: Zone 4 INCLINATION: -90°

JOB NO: 117632047 HOLE DEPTH: 23.34 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	Groundwater not observed	10.0		SPT 9.80-10.25 m 5, 6, 9 N=15		SM	Silty SAND fine to coarse grained, sub-rounded to sub-angular, pale brown			
			10.5								
			11.0								
			11.5		SPT 11.30-11.75 m 7, 8, 14 N=22					MD	
			12.0								
			12.5							W	
			13.0		SPT 12.80-13.22 m 16, 29, 30/120 mm N>59						
			13.5							VD	
			14.0								
			14.5		14.40 -9.77	SPT 14.30-14.75 m 6, 7, 10 N=17				dark grey, increasing silt content, tending to low plasticity clay	MD

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REPORT OF BOREHOLE: BH426

SHEET: 4 OF 6

DRILL RIG: Hydrapower Scout

CONTRACTOR: GeoDrill Pty Ltd

LOGGED: BT DATE: 7/9/11

CHECKED: NK DATE: 27/9/11

CLIENT: McConnell Dowell Constructors (Aust) P/L COORDS: 85473.6 m E 60105.9 m N GCCC

PROJECT: Gold Coast Rapid Transit SURFACE RL: 4.63 m DATUM: AHD

LOCATION: Zone 4 INCLINATION: -90°

JOB NO: 117632047 HOLE DEPTH: 23.34 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	Groundwater not observed	15.0					SM	Silty SAND fine to coarse grained, sub-rounded to sub-angular, pale brown		MD	
			15.70	-11.07	SPT 15.80-16.25 m 1, 4, 5 N=9		SC	Clayey SAND fine to coarse grained, sub-rounded to sub-angular, brown, inferred coffee rock		W		
			16.0							L		
			16.5									
			17.0									
			17.45	-12.82	SPT 17.30-17.75 m 5, 5, 9 N=14		CL-Cl	Silty CLAY low to medium plasticity, pale grey with pale green staining, inferred EW argillite		MD		
			17.5									
			18.0									
			18.5									
			19.0		SPT 18.80-18.87 m 30/70 mm				M (<PL)	VD		
19.5												

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RL3



REPORT OF BOREHOLE: BH426

SHEET: 5 OF 6

CLIENT: McConnell Dowell Constructors (Aust) P/L COORDS: 85473.6 m E 60105.9 m N GCCC
PROJECT: Gold Coast Rapid Transit SURFACE RL: 4.63 m DATUM: AHD
LOCATION: Zone 4 INCLINATION: -90°
JOB NO: 117632047 HOLE DEPTH: 23.34 m

DRILL RIG: Hydrapower Scout
CONTRACTOR: GeoDrill Pty Ltd
LOGGED: BT DATE: 7/9/11
CHECKED: NK DATE: 27/9/11

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	H		20.0									

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GAP gINT FN. F01a
RL3



REPORT OF BOREHOLE: BH426

SHEET: 6 OF 6

DRILL RIG: Hydrapower Scout

CONTRACTOR: GeoDrill Pty Ltd

LOGGED: BT DATE: 7/9/11

CHECKED: NK DATE: 27/9/11

CLIENT: McConnell Dowell Constructors (Aust) P/L COORDS: 85473.6 m E 60105.9 m N GCCC

PROJECT: Gold Coast Rapid Transit SURFACE RL: 4.63 m DATUM: AHD

LOCATION: Zone 4 INCLINATION: -90°

JOB NO: 117632047 HOLE DEPTH: 23.34 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)	
				20.0										
				20.37			Continuation of Sheet 5							
				-15.74			ARGILLITE	MW						
				20.5			fine grained, dark grey, bedded, dipping 10-20°, quartz veins up to 2 mm thick at approximate spacings of 5 mm in places							
				-15.87			becoming more massive, bedding not clear							
				20.60			recovered as fine to coarse gravel, inferred break due to drilling							
				-15.97			bedding more evident, quartz veins up to 2 mm thick at approximately 5 mm spacing							
				20.70			recovered as fine to coarse gravel, inferred break due to drilling							
				-16.07			becoming more massive							
				21.0										
				-16.37										
				21.40										
				-16.77			bedding more evident							
				21.5			quartz veins up to 2 mm thick at approximately 5 mm spacings, bedding plane distorted							
				-16.87										
				21.80										
				-17.17			recovered as fine to coarse gravel							
				22.0			more massive, crumbles easily under finger pressure							
				-17.37			bedded, 10-20° dip angle, quartz veins up to 2 mm thick at approximately 5 mm spacings							
				22.40										
				-17.77			more massive, bedding less evident, some healed veins							
				22.88										
				-18.25			some green chlorite crystals							
				23.0										
				23.34			END OF BOREHOLE @ 23.34 m							
				-18.71			TARGET DEPTH							
				23.5			GROUNDWATER NOT OBSERVED							
				24.0										
				24.5										
				25.0										

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GAP gINT FN. F02a
RL3



REPORT OF PHOTOGRAPHS: BH426

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

COORDS: 85473.6 m E, 60105.9 m N
SURFACE RL: 4.63 m DATUM: AHD
INCLINATION: -90°
HOLE DEPTH: 23.34m

DEPTH RANGE: 20.37 – 23.34 m
DRILL RIG: Hydrapower Scout
DRILLER: Geodrill Pty Ltd
LOGGED: BT DATE: 7/9/11
CHECKED: NK DATE: 25/9/11



20.37 – 23.34 m