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REPORT OF BOREHOLE: BH2D05

SHEET: 1 OF 2

CLIENT: McConnell Dowell Constructors (Aust) P/L COORDS: 82406.8 m E 61413.0 m N GCCC
PROJECT: Gold Coast Rapid Transit SURFACE RL: 21.94 m DATUM: AHD
LOCATION: Zone 2 INCLINATION: -90°
JOB NO: 117632047 HOLE DEPTH: 19.45 m

DRILL RIG: FD500

CONTRACTOR: Foundril Pty Ltd

LOGGED: CA DATE: 25/8/11

CHECKED: NK DATE: 26/9/11

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	
ADT	M		0	21.94	SPT 1.00-1.45 m 8, 9, 10 N=19			GC	FILL: Clayey Sandy GRAVEL fine to medium grained, sub-rounded to angular, brown, fine to medium grained sand, low plasticity clay, coarse gravel sized asphalt fragments present	M	D	SPT results may be affected by materials other than soil within the landfill	
			0.60	21.34				GM	FILL: Silty Sandy GRAVEL fine to coarse grained, sub-angular to angular, pale brown, fine to medium grained sand, low liquid limit silt, glass fragments present				
			1	1.50									
			2	20.44				CI	FILL: Gravelly CLAY medium plasticity, brown, fine to coarse gravel, with some fine to medium grained sand, with asphalt fragments up to 100 mm, wood, metal scraps and plastic pieces present				
			2.50	19.44					FILL SPT recovered timber (no soil), 100% water loss between 2.5 m and 5.5 m				
			3										
			4										
			5	5.10				CH	FILL: Sandy CLAY high plasticity, grey, medium grained sand, trace fine gravel, metal fragments present up to 10 mm	M			
			6	5.80				SP	FILL: SAND fine to medium grained, rounded to sub-rounded, grey	F			
			7	16.14									
RT	M		8		SPT 4.00-4.45 m 7, 8, 3 N=11					M	F	Object causing high auger refusal at 2.0 m depth	
			9										
			10										
			11										
RD	L		12		SPT 5.50-5.95 m 8, 3, 3 N=6					M	F	Object causing refusal, borehole advanced by continual grinding with rotary tricone bit	
			13										
			14										
			15										
RT	H		16		SPT 7.00-7.45 m 3, 3, 4 N=7					M	F	Drilling rods return scored, NW casing installed to 5.5 m with high resistance	
			17										
			18										
			19										
RD	L		20		SPT 8.50-8.95 m 5, 4, 8 N=12					M	F	Drilling rods return scored, NW casing installed to 5.5 m with high resistance	
			21										
			22										
			23										
RT	H		24		SPT 8.50-8.95 m 5, 4, 8 N=12					M	F	Drilling rods return scored, NW casing installed to 5.5 m with high resistance	
			25										
			26										
			27										
RD	L		28		SPT 8.50-8.95 m 5, 4, 8 N=12					M	F	Drilling rods return scored, NW casing installed to 5.5 m with high resistance	
			29										
			30										
			31										
RT	H		32		SPT 8.50-8.95 m 5, 4, 8 N=12					M	F	Drilling rods return scored, NW casing installed to 5.5 m with high resistance	
			33										
			34										
			35										
RD	L		36		SPT 8.50-8.95 m 5, 4, 8 N=12					M	F	Drilling rods return scored, NW casing installed to 5.5 m with high resistance	
			37										
			38										
			39										
RT	H		40		SPT 8.50-8.95 m 5, 4, 8 N=12					M	F	Drilling rods return scored, NW casing installed to 5.5 m with high resistance	
			41										
			42										
			43										
RD	L		44		SPT 8.50-8.95 m 5, 4, 8 N=12					M	F	Drilling rods return scored, NW casing installed to 5.5 m with high resistance	
			45										
			46										
			47										
RT	H		48		SPT 8.50-8.95 m 5, 4, 8 N=12					M	F	Drilling rods return scored, NW casing installed to 5.5 m with high resistance	
			49										
			50										
			51										
RD	L		52		SPT 8.50-8.95 m 5, 4, 8 N=12					M	F	Drilling rods return scored, NW casing installed to 5.5 m with high resistance	
			53										
			54										
			55										
RT	H		56		SPT 8.50-8.95 m 5, 4, 8 N=12					M	F	Drilling rods return scored, NW casing installed to 5.5 m with high resistance	
			57										
			58										
			59										
RD	L		60		SPT 8.50-8.95 m 5, 4, 8 N=12					M	F	Drilling rods return scored, NW casing installed to 5.5 m with high resistance	
			61										
			62										
			63										
RT	H		64		SPT 8.50-8.95 m 5, 4, 8 N=12					M	F	Drilling rods return scored, NW casing installed to 5.5 m with high resistance	
			65										
			66										
			67										
RD	L		68		SPT 8.50-8.95 m 5, 4, 8 N=12					M	F	Drilling rods return scored, NW casing installed to 5.5 m with high resistance	
			69										
			70										
			71										
RT	H		72		SPT 8.50-8.95 m 5, 4, 8 N=12					M	F	Drilling rods return scored, NW casing installed to 5.5 m with high resistance	
			73										
			74										
			75										
RD	L		76		SPT 8.50-8.95 m 5, 4, 8 N=12					M	F	Drilling rods return scored, NW casing installed to 5.5 m with high resistance	
			77										
			78										
			79										
RT	H		80		SPT 8.50-8.95 m 5, 4, 8 N=12					M	F	Drilling rods return scored, NW casing installed to 5.5 m with high resistance	
			81										
			82										
			83										
RD	L		84		SPT 8.50-8.95 m 5, 4, 8 N=12					M	F	Drilling rods return scored, NW casing installed to 5.5 m with high resistance	
			85										
			86										
			87										
RT	H		88		SPT 8.50-8.95 m 5, 4, 8 N=12					M	F	Drilling rods return scored, NW casing installed to 5.5 m with high resistance	
			89										
			90										
			91										
RD	L		92		SPT 8.50-8.95 m 5, 4, 8 N=12					M	F	Drilling rods return scored, NW casing installed to 5.5 m with high resistance	
			93										
			94										
			95										
RT	H		96		SPT 8.50-8.95 m 5, 4, 8 N=12					M	F	Drilling rods return scored, NW casing installed to 5.5 m with high resistance	
			97										
			98										
			99										
RD	L		100		SPT 8.50-8.95 m 5, 4, 8 N=12					M	F	Drilling rods return scored, NW casing installed to 5.5 m with high resistance	
			101										
			102										
			103										
RT	H		104		SPT 8.50-8.95 m 5, 4, 8 N=12					M	F	Drilling rods return scored, NW casing installed to 5.5 m with high resistance	
			105										
			106										
			107										
RD	L		108		SPT 8.50-8.95 m 5, 4, 8 N=12					M	F	Drilling rods return scored, NW casing installed to 5.5 m with high resistance	
			109										
			110										
			111										
RT	H		112		SPT 8.50-8.95 m 5, 4, 8 N=12					M	F	Drilling rods return scored, NW casing installed to 5.5 m with high resistance	
			113										
			114										
			115										
RD	L		116		SPT 8.50-8.95 m 5, 4, 8 N=12					M	F	Drilling rods return scored, NW casing installed to 5.5 m with high resistance	
			117										
			118										
			119										
RT	H		120		SPT 8.50-8.95 m 5, 4, 8 N=12					M	F	Drilling rods return scored, NW casing installed to 5.5 m with high resistance	
			121										
			122										
			123										
RD	L		124		SPT 8.50-8.95 m 5, 4, 8 N=12					M	F	Drilling rods return scored, NW casing installed to 5.5 m with high resistance	
			125										
			126										
			127										
RT	H		128		SPT 8.50-8.95 m 5, 4, 8 N=12					M	F	Drilling rods return scored, NW casing installed to 5.5 m with high resistance	
			129										
			130										
			131										
RD	L		132		SPT 8.50-8.95 m 5, 4, 8 N=12					M	F	Drilling rods return scored, NW casing installed to 5.5 m with high resistance	
			133										
			134										
			135										
RT	H		136		SPT 8.50-8.95 m 5, 4, 8 N=12					M	F	Drilling rods return scored, NW casing installed to 5.5 m with high resistance	
			137										
			138										
			139										
RD	L		140		SPT 8.50-8.95 m 5, 4, 8 N=12					M	F	Drilling rods return scored, NW casing installed to 5.5 m with high resistance	
			141										
			142										
			143										
RT	H		144		SPT 8.50-8.95 m 5, 4, 8 N=12					M	F	Drilling rods return scored, NW casing installed to 5.5 m with high resistance	
			145										
			146										
			147										
RD	L		148		SPT 8.50-8.95 m 5, 4, 8 N=12					M	F	Drilling rods return scored, NW casing installed to 5.5 m with high resistance	
			149										
			150										
			151										
RT	H		152		SPT 8.50-8.95 m 5, 4, 8 N=12					M	F	Drilling rods return scored, NW casing installed to 5.5 m with high resistance	
			153										
			154										
			155										
RD	L		156		SPT 8.50-8.95 m 5, 4, 8 N=12					M	F	Drilling rods return scored, NW casing installed to 5.5 m with high resistance	
			157										
			158										
			159										
RT	H		160		SPT 8.50-8.95 m 5, 4, 8 N=12					M	F	Drilling rods return scored, NW casing installed to 5.5 m with high resistance	
			161										
			162										
			163										
RD	L		164		SPT 8.50-8.95 m 5, 4, 8 N=12								



REPORT OF BOREHOLE: BH2D05

SHEET: 2 OF 2

DRILL RIG: FD500

CONTRACTOR: Foundril Pty Ltd

LOGGED: CA DATE: 25/8/11

CHECKED: NK DATE: 26/9/11

CLIENT: McConnell Dowell Constructors (Aust) P/L COORDS: 82406.8 m E 61413.0 m N GCCC

PROJECT: Gold Coast Rapid Transit SURFACE RL: 21.94 m DATUM: AHD

LOCATION: Zone 2 INCLINATION: -90°

JOB NO: 117632047 HOLE DEPTH: 19.45 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		10						FILL: REFUSE mixture of well-preserved paper pieces, string, plastic, polystyrene, bottle tops, timber and roots (no soil present)				
			11										
			11.50										
			10.44	SPT 11.50-11.95 m 7, 9, 7 N=16		GC	FILL: Clayey Sandy GRAVEL fine to coarse grained, sub-angular, grey and red, fine to coarse grained sand, medium plasticity clay, glass fragments present	M	MD				
			12										
			12.20										
			9.74										
			13	SPT 13.00-13.07 m 30/70 mm									
			14										
			14.20										
RD	H	Groundwater not observed	13						FILL: INFERRED BRICKS high drilling resistance and orange red fragments in return water				Possibly natural
			14										
			14.20										
			7.74			OL	FILL: Organic CLAY low plasticity, brown and grey, leaves and timber present	M					
			14.60	SPT 14.50-14.95 m 29, 16, 13 N=29		CI	Gravelly CLAY medium plasticity, grey and pale brown, fine to medium, angular (appears to be quartz) gravel		VSt				
			15										
			15.30										
			6.64			CI	Sandy CLAY medium plasticity, pale grey with red and orange, fine to medium grained sand						
			16	SPT 16.00-16.45 m 8, 9, 10 N=19 PP ≈300 kPa									
			17										
RD	M		18	SPT 17.50-17.95 m 5, 7, 8 N=15 PP ≈350 kPa						VSt		Natural	
			19										
			19.00	SPT 19.00-19.45 m 7, 9, 10 N=19 PP ≈250 kPa			increased sand content, reduced red and orange staining, with some fine to medium quartz gravel						
			2.49					END OF BOREHOLE @ 19.45 m TARGET DEPTH GROUNDWATER NOT OBSERVED					
			20										

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