coffey geotechnics

Engineering Log - Borehole

Borehole No.	BH 4
Sheet	2 of 2
Project No:	GEOTTUNC01736AB
Date started:	14.3.2008
Date completed:	14.3.2008
Logged by:	P.E
Checked by:	SRM

Client: SINCLAIR KNIGHT MERZ

Principal: GREATER TAREE CITY COUNCIL

Project: PITT ST, WATERFRONT PRECINCT, TAREE

Borehole Location: SEE FIGURE 2

drill model and mounting: JACKRO TRAILER | Easting: 451190 | slope: -90° | R.L. Surface: 2.4

hole diameter: 100 mm | Northing 6470192 | bearing: | datum: AHD

drilling information | **material substance**

method	penetration 1 2 3	support	water	notes samples, tests, etc	RL	depth metres	graphic log	classification symbol	material: soil type: plasticity or particle characteristics, colour, secondary and minor components.	moisture condition	consistency/ density index	pocket penetrometer kPa 100 200 300 400	structure and additional observations
AST		N		SPT 7,3,3 N*=6	-6	9			**SILTSTONE** etxtremly weathered, pale brown, some coarse Sand, fine Gravel. *(continued)*	M+Wp	St-VSt		
					-7	10			**SANDSTONE/SILTSTONE** weathered, fine to medium, pale brown, Gravel, low plasticity Silt, fine to medium Sand.	D	VD		ROCK
					-8	11			Borehole BH 4 terminated at 10.1m				
					-9	12							
					-10	13							
					-11	14							
					-12	15							
					-13	16							

method

AS	auger screwing*
AD	auger drilling*
RR	roller/tricone
W	washbore
CT	cable tool
HA	hand auger
DT	diatube
B	blank bit
V	V bit
T	TC bit

*bit shown by suffix e.g. ADT

support: M mud, C casing, N nil

penetration: 1 2 3 4 — no resistance ranging to refusal

water: 10/1/98 water level on date shown; water inflow; water outflow

notes, samples, tests

U_{50}	undisturbed sample 50mm diameter
U_{63}	undisturbed sample 63mm diameter
D	disturbed sample
N	standard penetration test (SPT)
N*	SPT - sample recovered
Nc	SPT with solid cone
V	vane shear (kPa)
P	pressuremeter
Bs	bulk sample
E	environmental sample
R	refusal

classification symbols and soil description based on unified classification system

moisture

D	dry
M	moist
W	wet
Wp	plastic limit
W_L	liquid limit

consistency/density index

VS	very soft
S	soft
F	firm
St	stiff
VSt	very stiff
H	hard
Fb	friable
VL	very loose
L	loose
MD	medium dense
D	dense
VD	very dense

coffey geotechnics

Engineering Log - Borehole

Borehole No.	**BH 5**
Sheet	1 of 2
Project No:	**GEOTTUNC01736AB**
Client:	**SINCLAIR KNIGHT MERZ**
Date started:	**14.3.2008**
Principal:	**GREATER TAREE CITY COUNCIL**
Date completed:	**14.3.2008**
Project:	**PITT ST, WATERFRONT PRECINCT, TAREE**
Logged by:	**P.E**
Borehole Location:	**SEE FIGURE 2**
Checked by:	**SRM**

drill model and mounting: JACKRO TRAILER | Easting: 451174 | slope: -90° | R.L. Surface: 2.89

hole diameter: 100 mm | Northing 6470140 | bearing: | datum: AHD

drilling information | **material substance**

method	penetration 1 2 3	support	water	notes samples, tests, etc	RL	depth metres	graphic log	classification symbol	material: soil type: plasticity or particle characteristics, colour, secondary and minor components.	moisture condition	consistency/ density index	pocket penetrometer kPa (100 200 300 400)	structure and additional observations
AST		N			2	1		ML	**TOPSOIL** Clayey SILT, low plasticity, brown, some organics (rootlets), trace fine Sand.	M<Wp	S-F		TOPSOIL/ALLUVIUM
								CL	**Silty CLAY** low to medium, brown, trace of organics (rootlets).	M>Wp	St	×	ALLUVIAL
				SPT 2,2,3 N*=5	1	2							
			▼					CL	**Silty CLAY** low to medium, brown and grey mottled, trace of fine Sand.	M>Wp	S		
					0	3		ML	**Sandy SILT** low plasticity, grey, trace of Clay.	M>Wp	S		
				SPT 0,0,0 N*=0				CL	**Silty CLAY** low to medium plasticity, dark grey, trace of fine Sand.	M>Wp	S-F	×	
					-1	4							
				SPT 2,4,7 N*=11	-2	5		CL	**Sandy CLAY** low to medium plasticity, dark grey.	M<Wp	H	×	ALLUVIAL
								GP	**Sandy GRAVEL** fine to medium, grey to dark grey, some low plasticity Silt.	W	VD		ALLUVIAL
					-3	6		GP	**Sandy GRAVEL** fine to medium, grey to dark grey, some low plasticity Silt.	W	D		ALLUVIAL
				SPT 6,7,7 N*=14	-4	7		GP	**GRAVEL** fine to medium, grey, some coarse Sand.	W	D		
					-5	8							

BOREHOLE GEOTTUNC01736AB.GPJ COFFEY.GDT 14.4.08

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method

AS	auger screwing*
AD	auger drilling*
RR	roller/tricone
W	washbore
CT	cable tool
HA	hand auger
DT	diatube
B	blank bit
V	V bit
T	TC bit

*bit shown by suffix e.g. ADT

support: M mud, C casing, N nil

penetration: 1 2 3 4 — no resistance ranging to refusal

water: ▼ 10/1/98 water level on date shown; water inflow; water outflow

notes, samples, tests

U_{50}	undisturbed sample 50mm diameter
U_{63}	undisturbed sample 63mm diameter
D	disturbed sample
N	standard penetration test (SPT)
N*	SPT - sample recovered
Nc	SPT with solid cone
V	vane shear (kPa)
P	pressuremeter
Bs	bulk sample
E	environmental sample
R	refusal

classification symbols and soil description based on unified classification system

moisture

D	dry
M	moist
W	wet
Wp	plastic limit
W_L	liquid limit

consistency/density index

VS	very soft
S	soft
F	firm
St	stiff
VSt	very stiff
H	hard
Fb	friable
VL	very loose
L	loose
MD	medium dense
D	dense
VD	very dense

coffey geotechnics

Engineering Log - Borehole

Borehole No.	**BH 5**
Sheet	2 of 2
Project No:	**GEOTTUNC01736AB**
Client:	**SINCLAIR KNIGHT MERZ**
Date started:	**14.3.2008**
Principal:	**GREATER TAREE CITY COUNCIL**
Date completed:	**14.3.2008**
Project:	**PITT ST, WATERFRONT PRECINCT, TAREE**
Logged by:	**P.E**
Borehole Location:	**SEE FIGURE 2**
Checked by:	**SRM**

drill model and mounting: JACKRO TRAILER | Easting: 451174 | slope: -90° | R.L. Surface: 2.89

hole diameter: 100 mm | Northing 6470140 | bearing: | datum: AHD

drilling information | **material substance**

method	penetration 1 2 3	support	water	notes samples, tests, etc	RL	depth metres	graphic log	classification symbol	material: soil type: plasticity or particle characteristics, colour, secondary and minor components.	moisture condition	consistency/ density index	pocket penetrometer kPa 100 200 300 400	structure and additional observations
AST		N			-6	9		GP	**GRAVEL** fine to medium, grey, some coarse Sand. *(continued)*	W	D		
								CH	**CLAY** medium to high plasticity, dark grey, some Silt and fine Sand.	M>Wp	St	X	RESIDUAL
				SPT 2,4,6 N*=10	-7	10							
					-8	11		CH	**Silty CLAY** medium ti high, grey and brown mottled, trace of fine Sand.	M>Wp	VSt	X	RESIDUAL
				SPT 4,5,8 N*=13	-9	12			Borehole BH 5 terminated at 11.9m				
					-10	13							
					-11	14							
					-12	15							
					-13	16							

method

AS	auger screwing*
AD	auger drilling*
RR	roller/tricone
W	washbore
CT	cable tool
HA	hand auger
DT	diatube
B	blank bit
V	V bit
T	TC bit

*bit shown by suffix e.g. ADT

support: M mud, C casing, N nil

penetration: 1 2 3 4 — no resistance ranging to refusal

water: 10/1/98 water level on date shown; water inflow; water outflow

notes, samples, tests

U_{50}	undisturbed sample 50mm diameter
U_{63}	undisturbed sample 63mm diameter
D	disturbed sample
N	standard penetration test (SPT)
N*	SPT - sample recovered
Nc	SPT with solid cone
V	vane shear (kPa)
P	pressuremeter
Bs	bulk sample
E	environmental sample
R	refusal

classification symbols and soil description based on unified classification system

moisture

D	dry
M	moist
W	wet
Wp	plastic limit
W_L	liquid limit

consistency/density index

VS	very soft
S	soft
F	firm
St	stiff
VSt	very stiff
H	hard
Fb	friable
VL	very loose
L	loose
MD	medium dense
D	dense
VD	very dense

coffey geotechnics

Engineering Log - Borehole

Borehole No.	**BH 6**
Sheet	1 of 2
Project No:	**GEOTTUNC01736AB**
Client:	**SINCLAIR KNIGHT MERZ**
Date started:	**14.3.2008**
Principal:	**GREATER TAREE CITY COUNCIL**
Date completed:	**14.3.2008**
Project:	**PITT ST, WATERFRONT PRECINCT, TAREE**
Logged by:	**P.E**
Borehole Location:	**SEE FIGURE 2**
Checked by:	**SRM**

drill model and mounting: JACKRO TRAILER | Easting: 451236 | slope: -90° | R.L. Surface: 2.1

hole diameter: 100 mm | Northing 6470183 | bearing: | datum: AHD

drilling information | **material substance**

method	penetration 1 2 3	support	water	notes samples, tests, etc	RL	depth metres	graphic log	classification symbol	material: soil type: plasticity or particle characteristics, colour, secondary and minor components.	moisture condition	consistency/ density index	pocket penetro-meter kPa 100 200 300 400	structure and additional observations
AST		N			2	1		ML	**TOPSOIL** Clayey SILT, low plasticity, brown, some organics (rootlets), trace of fine Sand,	M<Wp	S-F		TOPSOIL/ALLUVIUM
					1			CL	**Silty CLAY** low to medium, brown, trace of organics (rootlets), fine Sand.	M>Wp	F		ALLUVIAL
				SPT 1,2,2 N*=4	0	2		CL	**Silty CLAY** low to medium, brown, trace of organics (rootlets), fine Sand.	M>Wp	S-F	×	ALLUVIAL
											S	×	
					-1	3		ML	**Sandy SILT** low to medium, grey, some medium plasticity Clay.	M>Wp	F	×	ALLUVIAL
				SPT 0,2,2 N*=4							S		
					-2	4		SM	**Silty SAND** fine to medium, grey.	M>Wp	L	×	ALLUVIAL
				SPT 3,3,6 N*=9	-3	5		GP	**GRAVEL** fine to medium, grey and brown, some coarse Sand.	W	MD-D		ALLUVIAL
						6		SP	**GRAVEL** fine to medium, grey to dark grey, some Clay medium to high lenses, coarse Sand.	W	MD-D		ALLUVIAL
				SPT 4,6,5 N*=11	-4			SP	**Gravelly SAND** coarse, dark grey, some low to medium, Clay lenses.	W	MD-D		ALLUVIAL
					-5	7		GP	**GRAVEL** fine to medium, grey to dark grey, some coarse Sand.	W	MD		ALLUVIAL
				SPT 7,5,4 N*=9		8		GP	sample recovered probably cause in GP- Gravel, fine to medium, trace fine Sand.	W	L-MD		

method

AS	auger screwing*
AD	auger drilling*
RR	roller/tricone
W	washbore
CT	cable tool
HA	hand auger
DT	diatube
B	blank bit
V	V bit
T	TC bit

*bit shown by suffix e.g. ADT

support: M mud, N nil, C casing

penetration 1 2 3 4: no resistance ranging to refusal

water: 10/1/98 water level on date shown; water inflow; water outflow

notes, samples, tests

U_{50}	undisturbed sample 50mm diameter
U_{63}	undisturbed sample 63mm diameter
D	disturbed sample
N	standard penetration test (SPT)
N*	SPT - sample recovered
Nc	SPT with solid cone
V	vane shear (kPa)
P	pressuremeter
Bs	bulk sample
E	environmental sample
R	refusal

classification symbols and soil description based on unified classification system

moisture

D	dry
M	moist
W	wet
Wp	plastic limit
W_L	liquid limit

consistency/density index

VS	very soft
S	soft
F	firm
St	stiff
VSt	very stiff
H	hard
Fb	friable
VL	very loose
L	loose
MD	medium dense
D	dense
VD	very dense

BOREHOLE GEOTTUNC01736AB.GPJ COFFEY.GDT 14.4.08

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Engineering Log - Borehole

Borehole No.	**BH 6**
Sheet	2 of 2
Project No:	**GEOTTUNC01736AB**
Client:	**SINCLAIR KNIGHT MERZ**
Date started:	**14.3.2008**
Principal:	**GREATER TAREE CITY COUNCIL**
Date completed:	**14.3.2008**
Project:	**PITT ST, WATERFRONT PRECINCT, TAREE**
Logged by:	**P.E**
Borehole Location:	**SEE FIGURE 2**
Checked by:	**SRM**

drill model and mounting: JACKRO TRAILER | Easting: 451236 | slope: -90° | R.L. Surface: 2.1

hole diameter: 100 mm | Northing 6470183 | bearing: | datum: AHD

drilling information | **material substance**

method	penetration 1 2 3	support	water	notes samples, tests, etc	RL	depth metres	graphic log	classification symbol	material: soil type: plasticity or particle characteristics, colour, secondary and minor components.	moisture condition	consistency/ density index	pocket penetro-meter kPa 100 200 300 400	structure and additional observations
AST		N			-6			GP	sample recovered probably cause in GP- Gravel, fine to medium, trace fine Sand. *(continued)*	W	L-MD		
								CH	**CLAY** medium to high, grey, some fine to medium Gravel.				RESIDUAL
					-7	9							
				SPT 3,8,8 N*=16				CH	**CLAY** high plasticity, grey.	M<Wp	VSt-H	×	RESIDUAL
						10		CH	**Silty CLAY** medium to high, grey and brown mottled, trace of fine Sand.				
					-8				Borehole BH 6 terminated at 10m				
						11							
					-9								
						12							
					-10								
						13							
					-11								
						14							
					-12								
						15							
					-13								
						16							

method

AS	auger screwing*
AD	auger drilling*
RR	roller/tricone
W	washbore
CT	cable tool
HA	hand auger
DT	diatube
B	blank bit
V	V bit
T	TC bit

*bit shown by suffix e.g. ADT

support: M mud, C casing, N nil

penetration: 1 2 3 4 — no resistance ranging to refusal

water: 10/1/98 water level on date shown; water inflow; water outflow

notes, samples, tests

U_{50}	undisturbed sample 50mm diameter
U_{63}	undisturbed sample 63mm diameter
D	disturbed sample
N	standard penetration test (SPT)
N*	SPT - sample recovered
Nc	SPT with solid cone
V	vane shear (kPa)
P	pressuremeter
Bs	bulk sample
E	environmental sample
R	refusal

classification symbols and soil description based on unified classification system

moisture

D	dry
M	moist
W	wet
Wp	plastic limit
W_L	liquid limit

consistency/density index

VS	very soft
S	soft
F	firm
St	stiff
VSt	very stiff
H	hard
Fb	friable
VL	very loose
L	loose
MD	medium dense
D	dense
VD	very dense

coffey geotechnics

Engineering Log - Borehole

Borehole No.	**BH 7**
Sheet	1 of 1
Project No:	**GEOTTUNC01736AB**
Date started:	**14.3.2008**
Date completed:	**14.3.2008**
Logged by:	**P.E**
Checked by:	**SRM**

Client: **SINCLAIR KNIGHT MERZ**

Principal: **GREATER TAREE CITY COUNCIL**

Project: **PITT ST, WATERFRONT PRECINCT, TAREE**

Borehole Location: **SEE FIGURE 2**

drill model and mounting: JACKRO TRAILER | Easting: 451261 | slope: -90° | R.L. Surface: 2.39

hole diameter: 100 mm | Northing 6470227 | bearing: | datum: AHD

drilling information | **material substance**

method	penetration 1 2 3	support	water	notes samples, tests, etc	RL	depth metres	graphic log	classification symbol	material: soil type: plasticity or particle characteristics, colour, secondary and minor components.	moisture condition	consistency/ density index	pocket penetro-meter kPa 100 200 300 400	structure and additional observations
AST		N			2	1		ML	**TOPSOIL** Clayey Silt, low plasticity, brown, some organics (rootlets), trace fine Sand.	M>Wp	S		TOPSOIL/ALLUVIUM
					1	2		ML	**Clayey SILT** low plasticity, grey and brown mottled, trace organics (rootlets).	M>Wp	F	x	ALLUVIAL
			▼	SPT 1,1,1 N*=2	0	3		ML	**Sandy SILT** low plasticity, grey.	M>Wp	S	x	ALLUVIAL
					-1	4		SM	**Silty SAND** fine to medium, dark grey.	W	L		ALLUVIAL
				SPT 0,0,1 N*=1	-2	5		SM	**Silty SAND** fine to medium, dark grey.	W	L		
					-3	6		GP	**Sandy GRAVEL** fine to medium, dark grey.	W	L		ALLUVIAL
				SPT 4,6,7 N*=13	-4	7		SP	**Gravelly SAND** fine to medium, grey/ brown.	W	L-MD		ALLUVIAL
					-5	8		GP	**GRAVEL** medium, grey, some coarse Sand.	W	MD-D		ALLUVIAL
				SPT 4 N*=R					**SANDSTONE** coarse grained, brown, extremly weathered, some medium Gravel 20mm bedded into rock.	D	H		RESIDUAL ROCK
									Borehole BH 7 terminated at 6.65m				SPT

BOREHOLE GEOTTUNC01736AB.GPJ COFFEY.GDT 14.4.08

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method

AS	auger screwing*
AD	auger drilling*
RR	roller/tricone
W	washbore
CT	cable tool
HA	hand auger
DT	diatube
B	blank bit
V	V bit
T	TC bit

*bit shown by suffix e.g. ADT

support

M mud N nil

C casing

penetration 1 2 3 4 — no resistance ranging to refusal

water

▼ 10/1/98 water level on date shown

► water inflow

◄ water outflow

notes, samples, tests

U_{50}	undisturbed sample 50mm diameter
U_{63}	undisturbed sample 63mm diameter
D	disturbed sample
N	standard penetration test (SPT)
N*	SPT - sample recovered
Nc	SPT with solid cone
V	vane shear (kPa)
P	pressuremeter
Bs	bulk sample
E	environmental sample
R	refusal

classification symbols and soil description based on unified classification system

moisture

D	dry
M	moist
W	wet
Wp	plastic limit
W_L	liquid limit

consistency/density index

VS	very soft
S	soft
F	firm
St	stiff
VSt	very stiff
H	hard
Fb	friable
VL	very loose
L	loose
MD	medium dense
D	dense
VD	very dense

coffey geotechnics

Engineering Log - Borehole

Borehole No.	**BH 8**
Sheet	1 of 2
Project No:	**GEOTTUNC01736AB**
Client:	**SINCLAIR KNIGHT MERZ**
Date started:	**14.3.2008**
Principal:	**GREATER TAREE CITY COUNCIL**
Date completed:	**14.3.2008**
Project:	**PITT ST, WATERFRONT PRECINCT, TAREE**
Logged by:	**P.E**
Borehole Location:	**SEE FIGURE 2**
Checked by:	**SRM**

drill model and mounting: JACKRO TRAILER | Easting: 451312 | slope: -90° | R.L. Surface: 2.64

hole diameter: 100 mm | Northing 6470207 | bearing: | datum: AHD

drilling information

material substance

method	penetration 1 2 3	support	water	notes samples, tests, etc	RL	depth metres	graphic log	classification symbol	material: soil type: plasticity or particle characteristics, colour, secondary and minor components.	moisture condition	consistency/ density index	pocket penetrometer kPa (100 200 300 400)	structure and additional observations
AST		N			2	1		ML	**TOPSOIL** Clay Silt, low plasticity, brown, some organics (rootlets), trace fine Sand.	M>Wp	S		TOPSOIL/ALLUVIUM
								ML	**Clay SILT** low plasticity, brown, trace organics (rootlets), trace fine Sand.	M>Wp	F		ALLUVIAL
				SPT 1,2,2 N*=4	1	2		ML	**SILT** low plasticity, brown, trace organics (rootlets), trace fine Sand.	M>Wp	S-F	×	ALLUVIAL
			▼		0	3		ML	**Sandy SILT** low plasticity, brown, trace organics (rootlets), trace fine Sand.	M>Wp	VS	×	ALLUVIAL
				SPT 0,0,0 N*=0	-1	4		SM	**Silty SAND** low plasticity, grey.	W	VL		ALLUVIAL
					-2	5		GP	**Sandy GRAVEL** fine to medium, grey, with Clay, medium to high lenses.	W	L		ALLUVIAL
				SPT 4,7,7 N*=14	-3	6		SP	**SAND** fine to medium, dark grey, some coarse Sand and trace Silt and medium Gravel.	W	MD		ALLUVIAL
								GP	**Sandy GRAVEL** medium, grey/ dark grey.	W	MD-D		ALLUVIAL
				SPT 4,6,5 N*=11	-4	7		GP	**GRAVEL** fine to medium, grey/ dark grey.	W	MD-D		ALLUVIAL
				SPT 5,6,2 N*=8	-5	8							

method

AS	auger screwing*
AD	auger drilling*
RR	roller/tricone
W	washbore
CT	cable tool
HA	hand auger
DT	diatube
B	blank bit
V	V bit
T	TC bit

*bit shown by suffix e.g. ADT

support: M mud, C casing, N nil

penetration: 1 2 3 4 — no resistance ranging to refusal

water: ▼ 10/1/98 water level on date shown; water inflow; water outflow

notes, samples, tests

U_{50}	undisturbed sample 50mm diameter
U_{63}	undisturbed sample 63mm diameter
D	disturbed sample
N	standard penetration test (SPT)
N*	SPT - sample recovered
Nc	SPT with solid cone
V	vane shear (kPa)
P	pressuremeter
Bs	bulk sample
E	environmental sample
R	refusal

classification symbols and soil description based on unified classification system

moisture

D	dry
M	moist
W	wet
Wp	plastic limit
W_L	liquid limit

consistency/density index

VS	very soft
S	soft
F	firm
St	stiff
VSt	very stiff
H	hard
Fb	friable
VL	very loose
L	loose
MD	medium dense
D	dense
VD	very dense

coffey geotechnics

Engineering Log - Borehole

Borehole No.	**BH 8**
Sheet	2 of 2
Project No:	**GEOTTUNC01736AB**
Client:	**SINCLAIR KNIGHT MERZ**
Date started:	**14.3.2008**
Principal:	**GREATER TAREE CITY COUNCIL**
Date completed:	**14.3.2008**
Project:	**PITT ST, WATERFRONT PRECINCT, TAREE**
Logged by:	**P.E**
Borehole Location:	**SEE FIGURE 2**
Checked by:	**SRM**

drill model and mounting: JACKRO TRAILER | Easting: 451312 | slope: -90° | R.L. Surface: 2.64

hole diameter: 100 mm | Northing 6470207 | bearing: | datum: AHD

drilling information | **material substance**

method	penetration 1 2 3	support	water	notes samples, tests, etc	RL	depth metres	graphic log	classification symbol	material: soil type: plasticity or particle characteristics, colour, secondary and minor components.	moisture condition	consistency/ density index	pocket penetro-meter kPa (100 200 300 400)	structure and additional observations
AST		N						GP	**GRAVEL** fine to medium, grey/ dark grey. *(continued)*	W	MD-D		
					-6	9		CH	**CLAY** medium to high plasticity, grey, with fine Gravel and fine Sand.	M>Wp	St-VSt	×	ALLUVIAL
				SPT 1,2,3 N*=5	-7							×	ALLUVIAL
						10		CH	**CLAY** medium to high plasticity, grey, with Sand lenses.	M>Wp	VSt		ALLUVIAL
				SPT 2,6,8 N*=14	-8							550 ×	ALLUVIAL
								ML	**Clayey SILT** low plasticity, grey/ brown mottled, trace fine Sand.	M>Wp	H		RESIDUAL
						11			Borehole BH 8 terminated at 10.85m				
					-9	12							
					-10	13							
					-11	14							
					-12	15							
					-13	16							

method

AS	auger screwing*
AD	auger drilling*
RR	roller/tricone
W	washbore
CT	cable tool
HA	hand auger
DT	diatube
B	blank bit
V	V bit
T	TC bit

*bit shown by suffix e.g. ADT

support: M mud, C casing, N nil

penetration: 1 2 3 4 — no resistance ranging to refusal

water: 10/1/98 water level on date shown; water inflow; water outflow

notes, samples, tests

U_{50}	undisturbed sample 50mm diameter
U_{63}	undisturbed sample 63mm diameter
D	disturbed sample
N	standard penetration test (SPT)
N*	SPT - sample recovered
Nc	SPT with solid cone
V	vane shear (kPa)
P	pressuremeter
Bs	bulk sample
E	environmental sample
R	refusal

classification symbols and soil description: based on unified classification system

moisture

D	dry
M	moist
W	wet
Wp	plastic limit
W_L	liquid limit

consistency/density index

VS	very soft
S	soft
F	firm
St	stiff
VSt	very stiff
H	hard
Fb	friable
VL	very loose
L	loose
MD	medium dense
D	dense
VD	very dense

coffey geotechnics

Engineering Log - Borehole

Borehole No.	**BH 9**
Sheet	1 of 2
Project No:	**GEOTTUNC01736AB**
Client:	**SINCLAIR KNIGHT MERZ**
Date started:	**14.3.2008**
Principal:	**GREATER TAREE CITY COUNCIL**
Date completed:	**14.3.2008**
Project:	**PITT ST, WATERFRONT PRECINCT, TAREE**
Logged by:	**P.E**
Borehole Location:	**SEE FIGURE 2**
Checked by:	**SRM**

drill model and mounting: JACKRO TRAILER | Easting: 451328 | slope: -90° | R.L. Surface: 2.36

hole diameter: 100 mm | Northing 6470263 | bearing: | datum: AHD

drilling information | **material substance**

method	penetration 1 2 3	support	water	notes samples, tests, etc	RL	depth metres	graphic log	classification symbol	material: soil type: plasticity or particle characteristics, colour, secondary and minor components.	moisture condition	consistency/ density index	pocket penetro-meter kPa 100 200 300 400	structure and additional observations
AST		N			2	1		ML	**TOPSOIL** Clayey Silt, low plasticity, brown, some organics (rootlets), trace fine Sand.	M<Wp	S-F		TOPSOIL/ALLUVIUM
					1	2		CL	**Silty CLAY** low to medium, brown, trace of organics (rootlets).	M>Wp	S		ALLUVIAL
				SPT 1,2,2 N*=4	0	3		ML	**Clayey SILT** low plasticity, orange/ brown, trace of organics (rootlets), fine Sand.	M>Wp	F-St	×	ALLUVIAL
			▼			4		ML	**Sandy SILT** low plasticity, grey.	M>Wp	VS		ALLUVIAL
				SPT 0,0,0 N*=0	-1	5		SP	**SAND** fine to medium, dark grey, trace Silt.	W	L		ALLUVIAL
					-2	6		GP	**Sandy GRAVEL** fine to medium, dark grey.	W	L		ALLUVIAL
				SPT 1,3,4 N*=7	-3	7		SP	**Gravelly SAND** fine to medium, dark grey, trace Silt.	W	L		ALLUVIAL
				SPT 0,0,1 N*=1	-4	8		ML	**Sandy SILT** low plasticity, dark grey, trace medium plasticity Clay and organics (decomposed roots)	M>Wp	VS-S	×	ALLUVIAL
					-5				**SILTSTONE/SANDSTONE** extremly weathered, fine grained, light brown, highly fractured with Clay lenses.	M<Wp	H	600 ×	RESIDUAL RELIC ROCK
				SPT 3,9,11 N*=20									

method

AS	auger screwing*
AD	auger drilling*
RR	roller/tricone
W	washbore
CT	cable tool
HA	hand auger
DT	diatube
B	blank bit
V	V bit
T	TC bit

*bit shown by suffix e.g. ADT

support: M mud, C casing, N nil

penetration: 1 2 3 4 — no resistance ranging to refusal

water: 10/1/98 water level on date shown; water inflow; water outflow

notes, samples, tests

U_{50}	undisturbed sample 50mm diameter
U_{63}	undisturbed sample 63mm diameter
D	disturbed sample
N	standard penetration test (SPT)
N*	SPT - sample recovered
Nc	SPT with solid cone
V	vane shear (kPa)
P	pressuremeter
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classification symbols and soil description based on unified classification system

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coffey geotechnics

Engineering Log - Borehole

Borehole No.	**BH 9**
Sheet	2 of 2
Project No:	**GEOTTUNC01736AB**
Client:	**SINCLAIR KNIGHT MERZ**
Date started:	**14.3.2008**
Principal:	**GREATER TAREE CITY COUNCIL**
Date completed:	**14.3.2008**
Project:	**PITT ST, WATERFRONT PRECINCT, TAREE**
Logged by:	**P.E**
Borehole Location:	**SEE FIGURE 2**
Checked by:	**SRM**

drill model and mounting: JACKRO TRAILER | Easting: 451328 | slope: -90° | R.L. Surface: 2.36

hole diameter: 100 mm | Northing 6470263 | bearing: | datum: AHD

drilling information | **material substance**

method	penetration 1 2 3	support	water	notes samples, tests, etc	RL	depth metres	graphic log	classification symbol	material: soil type: plasticity or particle characteristics, colour, secondary and minor components.	moisture condition	consistency/ density index	pocket penetrometer kPa 100 200 300 400	structure and additional observations
AST		N			-6				**SILTSTONE/SANDSTONE** extremly weathered, fine grained, light brown, highly fractured with Clay lenses. *(continued)*	M<Wp	H		
						9			**SILTSTONE/SANDSTONE** weathered, fine grained, light brown, highly fractured and fraction with Silt lenses.	D	L		ROCK
					-7				Borehole BH 9 terminated at 9m				
						10							
					-8								
						11							
					-9								
						12							
					-10								
						13							
					-11								
						14							
					-12								
						15							
					-13								
						16							

method
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AD auger drilling*
RR roller/tricone
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*bit shown by suffix
e.g. ADT

support
M mud N nil
C casing

penetration
1 2 3 4
no resistance ranging to refusal

water
10/1/98 water level on date shown
water inflow
water outflow

notes, samples, tests
U_{50} undisturbed sample 50mm diameter
U_{63} undisturbed sample 63mm diameter
D disturbed sample
N standard penetration test (SPT)
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Nc SPT with solid cone
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P pressuremeter
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classification symbols and soil description
based on unified classification system

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