



TONKIN & TAYLOR LTD

EXCAVATION LOG

EXCAVATION No: TP5

Location: Refer to Site Plan

SHEET 1 OF 1

PROJECT: Waiouru Peninsula to SH1 Link	LOCATION: East Tamaki/Otahuhu	JOB No: 21061
CO-ORDINATES mN mE	EXPOSURE TYPE: Pit	HOLE STARTED: 17/10/03
R.L. m	EQUIPMENT: 12t Excavator	HOLE FINISHED: 17/10/03
DATUM	OPERATOR: Lee - Contract Landscapes	LOGGED BY: D.L.R
	DIMENSIONS:	CHECKED BY:

EXCAVATION TESTS				ENGINEERING DESCRIPTION				GEOLOGICAL					
PENETRATION	SUPPORT	WATER	SAMPLES, TESTS	R.L. (m)	DEPTH (m)	GRAPHIC LOG	CLASSIFICATION SYMBOL	SOIL NAME, PLASTICITY OR PARTICLE SIZE CHARACTERISTICS, COLOUR, SECONDARY AND MINOR COMPONENTS	MOISTURE CONDITION / WEATHERING	STRENGTH / DENSITY CLASSIFICATION	ESTIMATED SHEAR STRENGTH	ORIGIN TYPE, MINERAL COMPOSITION, DEFECTS, STRUCTURE	UNIT
1						x	OH	SILT, stiff, moist, light brown	M	Su/Vs		TOPSOIL	
2						x	ML	SILT, moist, stiff to very stiff, light brown, some white pumiceous pebbles up to medium gravel sized. Metal pipes, wood.				FILL (including, construction debris)	
3					1	x							
					2	x	GW	Fine to medium GRAVEL with some coarse sand, wet, tightly packed, dark brown.	W	TP		Crushed aggregate FILL	
					3	x	ML	SILT, stiff, moist, moderately plastic, light brown with orangey brown mottles.	M	St		ALLUVIUM (PUKETOKA FORMATION)	
						x		END OF TEST PIT AT 3m					

SKETCH													





TONKIN & TAYLOR LTD

EXCAVATION LOG

EXCAVATION No: TP6

Location: Refer to Site Plan

SHEET 1 OF 1

PROJECT: Waiouru Peninsula to SH1 Link	LOCATION: East Tamaki/Otahuhu	JOB No: 21061
CO-ORDINATES mN mE	EXPOSURE TYPE: Pit	HOLE STARTED: 17/10/03
R.L. m	EQUIPMENT: 12t Excavator	HOLE FINISHED: 17/10/03
DATUM	OPERATOR: Lee - Contract Landscapes	LOGGED BY: D.L.R
	DIMENSIONS:	CHECKED BY:

EXCAVATION TESTS				ENGINEERING DESCRIPTION					GEOLOGICAL			
PENETRATION	SUPPORT	WATER	SAMPLES, TESTS	R.L. (m)	DEPTH (m)	GRAPHIC LOG CLASSIFICATION SYMBOL	SOIL NAME, PLASTICITY OR PARTICLE SIZE CHARACTERISTICS, COLOUR, SECONDARY AND MINOR COMPONENTS	MOISTURE / WEATHERING CONDITION	STRENGTH / DENSITY CLASSIFICATION	ESTIMATED SHEAR STRENGTH	ORIGIN TYPE, MINERAL COMPOSITION, DEFECTS, STRUCTURE	UNIT
					0	GW	Fine to medium GRAVEL with some coarse sand, wet, tightly packed, dark brown.	W	TP		Engineered compacted crushed aggregate FILL	
					1	MH	SILT, very stiff, moist, light orangey grey with orangey brown mottles.	M	VSt		ALLUVIUM (PUKETOKA FORMATION)	
					1		END OF TEST PIT AT 1m					

SKETCH												





TONKIN & TAYLOR LTD

EXCAVATION LOG

EXCAVATION No: TP7
 Location: Refer to Site Plan
 SHEET 1 OF 1

PROJECT: Waiouru Peninsula to SH1 Link	LOCATION: East Tamaki/Otahuhu	JOB No: 21061
CO-ORDINATES mN mE	EXPOSURE TYPE: Pit	HOLE STARTED: 17/10/03
R.L. m	EQUIPMENT: 12t Excavator	HOLE FINISHED: 17/10/03
DATUM	OPERATOR: Lee - Contract Landscapes	LOGGED BY: D.L.R
	DIMENSIONS:	CHECKED BY:

EXCAVATION TESTS				ENGINEERING DESCRIPTION					GEOLOGICAL			
PENETRATION	SUPPORT	WATER	SAMPLES, TESTS	R.L. (m)	DEPTH (m)	GRAPHIC LOG CLASSIFICATION SYMBOL	SOIL NAME, PLASTICITY OR PARTICLE SIZE CHARACTERISTICS, COLOUR, SECONDARY AND MINOR COMPONENTS	MOISTURE / WEATHERING CONDITION	STRENGTH / DENSITY CLASSIFICATION	ESTIMATED SHEAR STRENGTH	ORIGIN TYPE, MINERAL COMPOSITION, DEFECTS, STRUCTURE	UNIT
						GW	Fine to medium GRAVEL with some coarse sand, wet, tightly packed, dark brown.	W	TP		Engineered compacted crushed aggregate FILL	
						CH	CLAY, stiff, wet, highly plastic, light grey.		St		ALLUVIUM (PUKETOKA FORMATION)	
					1		END OF TEST PIT AT 1m					
					2							
					3							

SKETCH												





TONKIN & TAYLOR LTD

EXCAVATION LOG

EXCAVATION No: TP8
 Location: Refer to Site Plan
 SHEET 1 OF 1

PROJECT: Waiouru Peninsula to SH1 Link		LOCATION: East Tamaki/Otahuhu	JOB No: 21061
CO-ORDINATES	mN mE	EXPOSURE TYPE: Pit	HOLE STARTED: 17/10/03
R.L.	m	EQUIPMENT: 12t Excavator	HOLE FINISHED: 17/10/03
DATUM		OPERATOR: Lee - Contract Landscapes	LOGGED BY: D.L.R
		DIMENSIONS:	CHECKED BY:

EXCAVATION TESTS				ENGINEERING DESCRIPTION				GEOLOGICAL					
PENETRATION	SUPPORT	WATER	SAMPLES, TESTS	R.L. (m)	DEPTH (m)	GRAPHIC LOG CLASSIFICATION SYMBOL	SOIL NAME, PLASTICITY OR PARTICLE SIZE CHARACTERISTICS, COLOUR, SECONDARY AND MINOR COMPONENTS	MOISTURE CONDITION	WEATHERING	STRENGTH / DENSITY CLASSIFICATION	ESTIMATED SHEAR STRENGTH	ORIGIN TYPE, MINERAL COMPOSITION, DEFECTS, STRUCTURE	UNIT
					1	GW	Fine to medium GRAVEL with some coarse sand, wet, tightly packed, dark brown. Filter cloth at base.	W	TP			Engineered compacted crushed aggregate FILL	
					1	CH	CLAY, stiff, moist, highly plastic, dark grey with minor shiny speckles.	M	St			ALLUVIUM (PUKETOKA FORMATION)	
						END OF TEST PIT AT 1.5m							
					2								
					3								

SKETCH													





TONKIN & TAYLOR LTD

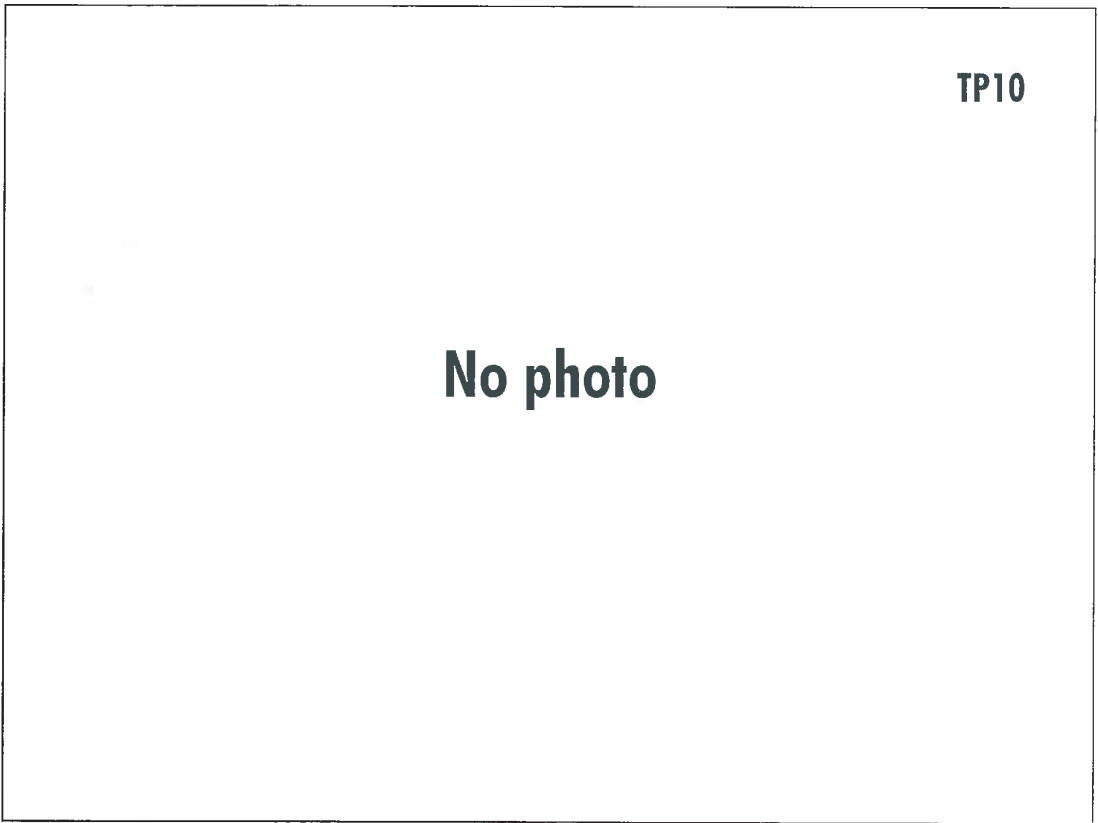
EXCAVATION LOG

EXCAVATION No: TP9
 Location: Refer to Site Plan
 SHEET!..... OF!.....

PROJECT: Waiouru Peninsula to SH1 Link LOCATION: East Tamaki/Otahuhu JOB No: 21061
 CO-ORDINATES mN EXPOSURE TYPE: Pit HOLE STARTED: 17/10/03
 mE EQUIPMENT: 12t Excavator HOLE FINISHED: 17/10/03
 R.L. m OPERATOR: Lee - Contract Landscapes LOGGED BY: D.L.R
 DATUM DIMENSIONS: CHECKED BY:

EXCAVATION TESTS			ENGINEERING DESCRIPTION						GEOLOGICAL				
PENETRATION	SUPPORT	WATER	SAMPLES, TESTS	R.L. (m)	DEPTH (m)	GRAPHIC LOG	CLASSIFICATION SYMBOL	SOIL NAME, PLASTICITY OR PARTICLE SIZE CHARACTERISTICS, COLOUR, SECONDARY AND MINOR COMPONENTS	MOISTURE CONDITION / WEATHERING	STRENGTH / DENSITY CLASSIFICATION	ESTIMATED SHEAR STRENGTH	ORIGIN TYPE, MINERAL COMPOSITION, DEFECTS, STRUCTURE	UNIT
1	2	3											
					1		GW	Fine to medium GRAVEL with some coarse sand, wet, tightly packed, dark brown. Filter cloth at base. Water flowing at base.	W	TP		Engineered compacted crushed aggregate FILL	
							MH	SILT, very stiff, wet, dark grey.		Vst		ALLUVIUM (PUKETOKA FORMATION)	
								END OF TEST PIT AT 1.5m					
					2								
					3								

SKETCH													





TONKIN & TAYLOR LTD

EXCAVATION LOG

EXCAVATION No: TP10
 Location: Refer to Site Plan
 SHEET 1 OF 1

PROJECT: Waiouru Peninsula to SH1 Link	LOCATION: East Tamaki/Otahuhu	JOB No: 21061
CO-ORDINATES mN mE	EXPOSURE TYPE: Pit	HOLE STARTED: 17/10/03
R.L. DATUM	EQUIPMENT: 12t Excavator	HOLE FINISHED: 17/10/03
	OPERATOR: Lee - Contract Landscapes	LOGGED BY: D.L.R
	DIMENSIONS:	CHECKED BY:

EXCAVATION TESTS			ENGINEERING DESCRIPTION				GEOLOGICAL						
PENETRATION	SUPPORT	WATER	SAMPLES, TESTS	R.L. (m)	DEPTH (m)	GRAPHIC LOG	CLASSIFICATION SYMBOL	SOIL NAME, PLASTICITY OR PARTICLE SIZE CHARACTERISTICS, COLOUR, SECONDARY AND MINOR COMPONENTS	MOISTURE / WEATHERING CONDITION	STRENGTH / DENSITY CLASSIFICATION	ESTIMATED SHEAR STRENGTH	ORIGIN TYPE, MINERAL COMPOSITION, DEFECTS, STRUCTURE	UNIT
					1		GW	Fine to medium GRAVEL with some coarse sand, wet, tightly packed, dark brown. Filter cloth at 0.5m. Water flowing at base.	W	TP		Engineered compacted crushed aggregate FILL	
					1		MH	SILT, very stiff, wet, dark grey.		VSt		ALLUVIUM (PUKETOKA FORMATION)	
								END OF TEST PIT AT 1.5m					
					2								
					3								

SKETCH													



TONKIN & TAYLOR LTD

EXCAVATION LOG

EXCAVATION No: TP12
 Location: Refer to Site Plan
 SHEET... 1 ... OF ... 1 ...

PROJECT: Waiouru Peninsula to SH1 Link		LOCATION: East Tamaki/Otahuhu		JOB No: 21061	
CO-ORDINATES	mN mE	EXPOSURE TYPE:	Pit	HOLE STARTED:	17/10/03
R.L.	m	EQUIPMENT:	12t Excavator	HOLE FINISHED:	17/10/03
DATUM		OPERATOR:	Lee - Contract Landscapes	LOGGED BY:	D.L.R
		DIMENSIONS:		CHECKED BY:	

EXCAVATION TESTS				ENGINEERING DESCRIPTION				GEOLOGICAL					
PENETRATION	SUPPORT	WATER	SAMPLES, TESTS	R.L. (m)	DEPTH (m)	GRAPHIC LOG CLASSIFICATION SYMBOL	SOIL NAME, PLASTICITY OR PARTICLE SIZE CHARACTERISTICS, COLOUR, SECONDARY AND MINOR COMPONENTS	MOISTURE CONDITION	WEATHERING	STRENGTH/DENSITY CLASSIFICATION	ESTIMATED SHEAR STRENGTH	ORIGIN TYPE, MINERAL COMPOSITION, DEFECTS, STRUCTURE	UNIT
			• 145/65kPa		0.5	OL	SILT, very stiff, wet, dark brown, roots.	W	VSt			TOPSOIL	
					1.0	ML	SILT, very stiff, wet, dark brown, trees and branches, basalt boulders, rootlets, water seeping.					FILL	
			• 170/46kPa		1.5	ML	SILT, very stiff, moist, dark brown.	M				TOPSOIL/FILL	
			• 178/61kPa		2.0	ML	SILT, very stiff, moderate plasticity, light grey with orange brown mottles.					ALLUVIUM (PUKETOKA FORMATION)	
					2.5		END OF TEST PIT AT 2.5m						

SKETCH													





TONKIN & TAYLOR LTD

EXCAVATION LOG

EXCAVATION No: TP13
Location: Refer to Site Plan
SHEET 1 OF 1

PROJECT: Waiouru Peninsula to SH1 Link LOCATION: East Tamaki/Otahuhu JOB No: 21061
CO-ORDINATES mN mE EXPOSURE TYPE: Pit HOLE STARTED: 17/10/03
EQUIPMENT: 12t Excavator HOLE FINISHED: 17/10/03
R.L. m OPERATOR: Lee - Contract Landscapes LOGGED BY: D.L.R
DATUM DIMENSIONS: CHECKED BY:

Table with columns: EXCAVATION TESTS, ENGINEERING DESCRIPTION, GEOLOGICAL. Includes soil classification (OL, ML), descriptions (e.g., SILT, very stiff, moist), and test results (e.g., 74/15kPa).

Grid area for sketches or additional notes, with a 'SKETCH' label in the top-left cell.





TONKIN & TAYLOR LTD

EXCAVATION LOG

EXCAVATION No: TP14
 Location: Refer to Site Plan
 SHEET.....1..... OF1.....

PROJECT: Waiouru Peninsula to SHI Link	LOCATION: East Tamaki/Otahuhu	JOB No: 21061
CO-ORDINATES mN mE	EXPOSURE TYPE: Pit	HOLE STARTED: 17/10/03
R.L. m	EQUIPMENT: 12t Excavator	HOLE FINISHED: 17/10/03
DATUM	OPERATOR: Lee - Contract Landscapes	LOGGED BY: D.L.R
	DIMENSIONS:	CHECKED BY:

EXCAVATION TESTS			ENGINEERING DESCRIPTION				GEOLOGICAL					
PENETRATION 1 2 3	SUPPORT WATER	SAMPLES, TESTS	R.L. (m)	DEPTH (m)	GRAPHIC LOG CLASSIFICATION SYMBOL	SOIL NAME, PLASTICITY OR PARTICLE SIZE CHARACTERISTICS, COLOUR, SECONDARY AND MINOR COMPONENTS	MOISTURE CONDITION / WEATHERING	STRENGTH / DENSITY CLASSIFICATION	ESTIMATED SHEAR STRENGTH		ORIGIN TYPE, MINERAL COMPOSITION, DEFECTS, STRUCTURE	UNIT
									c	φ		
					OL	SILT, stiff, moist, dark brown, roots.	M	St			TOPSOIL	
					ML	SILT, stiff, wet, dark brown with white pumiceous layer 0.3m-0.4m, wood, rootlets.	W				FILL	
		•62/12kPa		1	ML	SILT, firm to stiff, wet, dark grey, shell layer at 1.0m.		F/St				
END OF TEST PIT AT 1.5m												
				2								
				3								

SKETCH												

