

Project: Port Latta Waste Depot  
 Location: Port Latta  
 Job No: VT30318

Client: Circular Head Council  
 Start - Finish Date: 22/8/00 - 23/8/00  
 Bore dia: 100mm

Driller: S Heawood  
 Rig: Trafus  
 Surface Conditions:

Northings: 5475481.0mN Logged: A Ezzy  
 Eastings: 362399.0mE Checked: A Waite  
 RL: 44.8 Oriented: -90

LABORATORY DATA						FIELD DATA			SOIL DESCRIPTION		SOIL CONDITION		COMMENTS	
dry density (t/m <sup>3</sup> )	moisture content (%)	liquid limit (%)	plasticity index (%)	percent fines (%)	design / test data	field & other tests	sample type	field tests	ground water depth (m)	graphic log	soil type, unified classification, colour, structure, particle characteristics, minor components	consistency/ density	moisture condition	drilling method, well construction, water and additional observations
											CLAY (CH) high plasticity, red-brown.	St/D	M	Cement
														tertiary clay overburden
									1		CLAY (CH) high plasticity, light red, clay light grey mottles.	St/D	M	7 mm Gravel
											CLAY (CH) high plasticity, light grey, clay orange mottles.	S/L	M	
									2		CLAY (CH) high plasticity, white.	S/L	D	
											CLAY (CH) high plasticity, light red, 30% clay white mottles.	S/L	D	
									3		CLAY (CH) high plasticity, light red, 5% clay white mottles.	S/L	D	
											CLAY (CH) high plasticity, red, 5% clay light brown mottles.	S/L	D	
									4		CLAY (CH) high plasticity, light red, 5% clay white mottles.	S/L	D	
									5					

<b>LABORATORY DATA</b> UQN Unconfined Comp. (Natural) UQC Unconfined Comp. (Compacted) TQN Uncons. Undrained Triax. (Natural) TQC Uncons. Undrained Triax. (Compacted) TRX Consolidated Undrained Triaxial with pwp measurement PSA Particle Size Analysis CS 1D oedometer Test LPM Laboratory Permeability	<b>FIELD DATA ABBREVIATIONS</b> Suv = Uncorrected vane shear (kPa) Sup = Pocket penetrometer (kPa) N = SPT blows per 300mm FPM = Field permeability  <b>GROUNDWATER SYMBOLS</b> ▼ = Water level (static) ▼ = Water level (during drilling) ↗ ↘ = Outflow / Inflow	<b>FIELD DATA SYMBOLS</b> × = Shear vane test ⊥ = Pocket Penetrometer test ▽ = Standard Penetration Test (SPT top = start of N blowcount) ▾ = SPT Spoon Sample (Pushed) ▽ = Undisturbed Tube Sample ● = Disturbed Sample □ = Bulk Sample	<b>DENSITY (N-value)</b> VL (very loose) 0 - 4 L (loose) 4 - 10 MD (medium dense) 10 - 30 D (dense) 30 - 50 VD (very dense) 50 - 100 CO (compact) >50/150mm	<b>CONSISTENCY (Su)</b> VS (very soft) < 12 kPa S (soft) 12 - 25 F (firm) 25 - 50 St (stiff) 50 - 100 VSt (very stiff) 100 - 200 H (hard) > 200 kPa
<b>MOISTURE CONDITION</b> D = Dry M = Moist W = Wet				

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LABORATORY DATA						FIELD DATA			SOIL DESCRIPTION		SOIL CONDITION		COMMENTS	
dry density (t/m <sup>3</sup> )	moisture content (%)	liquid limit (%)	plasticity index (%)	percent fines (%)	design / test data	field & other tests	sample type	field tests	ground water depth (m)	graphic log	soil type, unified classification, colour, structure, particle characteristics, minor components	consistency/density	moisture condition	drilling method, well construction, water and additional observations
											S/L	D	4 x 150 mm spaced 5 mm holes with N.F.R.S.  Clay overburden transitional zone to Cowrie Siltstone bedrock.	
										CLAY (CH) high plasticity, light red, 20% clay yellow mottles.	S/L	D		
										CLAY (CH) high plasticity, light brown-red.	S/L	D		
										CLAY (CH) high plasticity, light brown-red, clay white mottles.	S/L	D		
										CLAY (CL) medium plasticity, light red, siltstone orange rounded fragments.	L	D		
										CLAY (CL) medium plasticity, light red, weathered siltstone various coloured rounded fragments.	L	D		
										CLAY (CL) low plasticity, black and grey, mottled.	S	W		
										SILTSTONE dark grey.				
										End of hole due to auger refusal at 9.7 m				

LABORATORY DATA	FIELD DATA ABBREVIATIONS	FIELD DATA SYMBOLS	DENSITY (N-value)	CONSISTENCY (Su)
UQN Unconfined Comp. (Natural)	S <sub>uv</sub> = Uncorrected vane shear (kPa)	× = Shear vane test	VL (very loose) 0 - 4	VS (very soft) < 12 kPa
UQC Unconfined Comp. (Compacted)	Sup = Pocket penetrometer (kPa)	⊥ = Pocket Penetrometer test	L (loose) 4 - 10	S (soft) 12 - 25
TQN Uncons. Undrained Triax. (Natural)	N = SPT blows per 300mm	▽ = Standard Penetration Test (SPT top = start of N blowcount)	MD (medium dense) 10 - 30	F (firm) 25 - 50
TQC Uncons. Undrained Triax. (Compacted)	FPM = Field permeability	▽ = SPT Spoon Sample (Pushed)	D (dense) 30 - 50	St (stiff) 50 - 100
TRX Consolidated Undrained Triaxial with pwp measurement		▣ = Undisturbed Tube Sample	VD (very dense) 50 - 100	VSt (very stiff) 100 - 200
PSA Particle Size Analysis		● = Disturbed Sample	CO (compact) >50/150mm	H (hard) > 200 kPa
CS 1D oedometer Test		□ = Bulk Sample		
LPM Laboratory Permeability				
	<b>GROUNDWATER SYMBOLS</b>		<b>MOISTURE CONDITION</b>	
	▼ = Water level (static)		D = Dry M = Moist W = Wet	
	▽ = Water level (during drilling)			
	↔ = Outflow / Inflow			