BOREHOLE No. GTBH2_08

Sheet 1 of 2

Project: Port Latta Waste Depot - Cell 5 Client: Circular Head Council Driller: Des Frazer Northings: 5475871.8mN Logged: ARE
Location: Port Latta Start - Finish Date: 04/11/08 - 04/11/08 Rig: Explorer 50 Eastings: 362695.5mE Checked: GMc
Job No: VT30318 Bore dia: 150mm Surface Conditions: Clay RL: 39.4 Oriented: -90

LABORATORY DATA						FIELD DATA				SOIL DESCRIPTION		SOIL CONDITION		COMMENTS
dry density (t/m³)	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
											FILL sand, fine to medium, with gravel, fine, rounded quartz, paper	L	D	Hollow stem auger (0 to 7.45m) Run 1 (0 to 0.75m)
						Sup=130					CLAY (CH) mottled orange, light grey	F/St	D	
						Sup=200			1		Silty CLAY (MH) mottled orange, light grey	St	D	Run 2 (0.75 to 1.5m)
						Sup=280								
						5/6/9 N=15								SPT 1 (1.5 -1.95m)
1.36	34.4	59	19						2					Drill out SPT 1, 1.95 to 2.0m U63 push tube sample (2 to 2.45m)
						Sup=175								
						Sup=135					CLAY (CH) mottled orange, light grey	St/VSt	D	Run 3 (drill out U63, 2.45 to 3.0m)
						Sup=225								
						Sup=175			3					SPT 2 (3.0 -3.45m)
						4/9/21 N=30					SILTSTONE (XW) orange, iron straining	VSt	D	
						Sup=125					Clayey SILT (ML) mottled orange, light grey, <1% siltstone, <1% iron staining	St	D	Run 4 (drill out SPT 2, 3.45 to 4.0m)
						Sup=205								
		39	7			Sup=195			4					U63 push tube sample (4 to 4.15m) Run 5 (drill out U63, 4.15 to 4.5m)
						Sup=75								
						Sup=280								SPT 3 (4.5 -4.95m)
						17/12/23 N=35			5					

LABORATORY DATA
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

FIELD DATA ABBREVIATIONS
Suv = Uncorrected vane shear (kPa)
Sup = Pocket penetrometer (kPa)
N = SPT blows per 300mm
FPM = Field permeability

GROUNDWATER SYMBOLS
= Water level (static)
= Water level (during drilling)
= Outflow / Inflow

FIELD DATA SYMBOLS
= 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

DENSITY (N-value)

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

MOISTURE CONDITION
D = Dry M = Moist W = Wet

CONSISTENCY (Su)

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

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						Sup=100					Clayey SILT (ML) mottled orange, light grey, <1% siltstone, <1% iron staining *(continued)*			Run 6 (drill out SPT 3, 3.95 to 5.5m)
						Sup=230								
						Sup=255					SILTSTONE (XW) brown, >5% iron staining	EL	D	
						6/5/9 N=14								SPT 4 (5.5 -5.95m)
									6		SILTSTONE (HW) dark and light grey, orange, <1% iron staining	EL	D	Run 7 (drill out SPT 7, 5.95 to 6.25m)
						Sup=100								Run 8 (6.25 to 7.0m)
						Sup=150								
											SILTSTONE (MW-HW) dark and light grey, bedding visible	EL	D	SWL 1130hrs 04/11/08
						Sup=210			7		SILTSTONE (SW) dark grey	VL	M	SPT 5 (7.0 -7.45m)
						5/11/30 N=41							W	
											Borehole terminated in siltstone at 7.45m. Groundwater encounted at 7.2m. Borehole grouted 06/11/08.			
									8					
									9					
									10					

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