

Project: Port Latta Waste Depot - Cell 5 Client: Circular Head Council Driller: Des Frazer Northings: 5475762.2mN Logged: ARE  
 Location: Port Latta Start - Finish Date: 05/11/08 - 05/11/08 Rig: Explorer 50 Eastings: 362537.1mE Checked: GMc  
 Job No: VT30318 Bore dia: 150mm Surface Conditions: Clay RL: 43.1 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
										Silty SAND (SM) fine, dark grey	VL	D	Hollow stem auger (0 to 8.95m) Run 1 (0 to 1.0m)
						Sup=170				CLAY (CH) mottled orange, light brown	F	M	
						Sup=210							
						3/5/7 N=12				CLAY (CH) mottled orange, light grey, red	VSt	D	SPT 1 (1.0 -1.45m)
						Sup=150							Run 2 (drill out SPT 1, 1.45 to 1.75m)
						Sup=160							Run 3 (1.75 to 2.50 m)
						Sup=170							
						Sup=140							
						Sup=280							SPT 2 (2.5 -2.95m)
						7/7/8 N=15 Sup=160				Silty CLAY (ML) light grey	St	D	
						Sup=140							Run 4 (drill out SPT 2, 2.95 to 3.25m)
						Sup=160							Run 5 (3.25 to 4.0 m)
						Sup=80							
						Sup=125							
						Sup=150							
						Sup=250					VSt		
						5/7/9 N=16							SPT 3 (4.0 -4.45m)
						Sup=220							
						Sup=170							Run 6 (drill out SPT 3, 4.45 to 4.75m)
						Sup=210							
						Sup=120				Silty CLAY (ML) mottled orange, red, light grey	St	D	Run 7 (4.75 to 5.5 m)

SKM 001 SOIL PORT\_LATTA\_13\_03\_08.GPJ SKM\_001\_2008 05 07\_DS.GDT 13/3/09

<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>MOISTURE CONDITION</b> D = Dry M = Moist W = Wet	<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
---	--	---	---	---

Project: Port Latta Waste Depot - Cell 5 Client: Circular Head Council Driller: Des Frazer Northings: 5475762.2mN Logged: ARE  
 Location: Port Latta Start - Finish Date: 05/11/08 - 05/11/08 Rig: Explorer 50 Eastings: 362537.1mE Checked: GMc  
 Job No: VT30318 Bore dia: 150mm Surface Conditions: Clay RL: 43.1 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
						Sup=150				Silty CLAY (ML) mottled orange, red, light grey (continued)			
						4/9/12 N=21				Silty CLAY (ML) light grey	VSt	D	SPT 4 (5.5 - 5.95m)
						Sup=205							Run 8 (drill out SPT 4, 5.95 to 6.25m)
						Sup=230							SWL 1440hrs 05/11/08
						Sup=130				Silty CLAY (ML) mottled orange, light grey, light brown	St	D	Run 9 (6.25 to 7.0 m)
						Sup=140							
						5/7/9 N=16				Silty CLAY (ML) light grey	St	D	SPT 5 (7.0 - 7.45m)
						Sup=110						W	Run 10 (drill out SPT 5, 7.45 to 7.75m)
						Sup=120				mottled orange, light grey		D	Run 11 (7.75 to 8.5 m)
						Sup=125							
						Sup=175							
						8/13/20 N=33				SILTSTONE (FR) dark grey, banded brown	VL	D	SPT 6 (8.5 - 8.95m) Hammer double bouncing last 150mm
										Borehole terminated in SILTSTONE due to refusal at 8.953m. Groundwater encountered at 7.3m, rose to 6.25m. Borehole grouted 06/11/08.			

SKM 001 SOIL PORT\_LATTA\_13\_03\_08.GPJ SKM\_001\_2008 05 07\_DS.GDT 13/3/09

<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> X = 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>MOISTURE CONDITION</b> D = Dry M = Moist W = Wet	<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
---	--	---	---	---