TASMANIA DEPARTMENT OF MINES

Ref No 14662

ENGINEERING LOG – BOREHOLE

35 223

borehole no. ROWELLA BH1
sheet 1 of

project | location

co-ordinates | drill type | hole commenced
drill method | hole completed
R.L. | drilled by
inclination | drill fluid | logged by
bearing | checked by

penetration 1 2 3	support	water	notes samples, tests	metres R.L / depth	graphic log	classification symbol	material: soil type: plasticity or particle characteristics, colour, secondary and minor components.	moisture condition	consistency density index	hand penetrometer kPa (25 50 100 200 400)	structure, geology
				2.0		CH	sandy CLAY; high plasticity, mottled grey & red, sand f.–m. 20% sand				
			3.0	3.0		SC /CH	clayey SAND; fine to medium, pale clay high plasticity, firm, red, rounded. Clay 40-50% / sand coarse grained.				
							CORE LOSS ?				
				4.0			as above.				
				5.0			as above, mottled yellow & red. Some (CH) CLAY bands —0.05m band of red ochre, yellow below				
							grades to (CH) CLAY below				
			6.0	6.0		CH	CLAY, high plas, grey mottled yellow and red.				
							grades to dk. brown / black – lignite				
				7.0							

TASMANIA DEPARTMENT OF MINES

ENGINEERING LOG – BOREHOLE

35 224

borehole no.
sheet of

project | location

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R.L. | drill method | hole completed
inclination | | drilled by
bearing | drill fluid | logged by
| | checked by

penetration 1 2 3	support	water	notes samples, tests	metres R.L.	metres depth	graphic log	classification symbol	material: soil type: plasticity or particle characteristics, colour, secondary and minor components.	moisture condition	consistency density index	hand penetrometer kPa 25 50 100 200 400	structure, geology
			LEEoC M EoC		8.0			carbonaceous clay				
			S.F.					LIGNITE & sandy horizons				
								CORE LOSS ? SAND?				
			9.0		9.0			CORE LOSS ?				
					10.0		SC	clayey SAND; fine to coarse, clay 10–20%. lignitic bands				bedding at ~5–10°.
								lignitic bands common				
								lignite at contact				u/c
					11.0		CH	CLAY; high plas; grey, some sand and woody material				
								broken, rough core				
			core loss taken away					sandy lenses & FeO indurated band.				core loss 9.0–9.00 may be here

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35 225

borehole no.

sheet of

project

location

co-ordinates

R.L.

inclination

bearing

drill type

drill method

drill fluid

hole commenced

hole completed

drilled by

logged by

checked by

penetration 1 2 3	support	water	notes samples, tests	metres R.L.	metres depth	graphic log	classification symbol	material: soil type: plasticity or particle characteristics, colour, secondary and minor components.	moisture condition	consistency density index	hand penetrometer kPa 25 50 100 200 400	structure, geology
								as above				abundant slickensides at 15° & 60° indicating downward movement
					17.0							
												bedding dipping 10-15°
					14.0			some plant leaves in the clay.				
								very homogeneous clay below lignite.				
					15.0							
					16.0							
								ridevite band grading down to (CH) CLAY as above				
								as above				

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ENGINEERING LOG – BOREHOLE

35 226

borehole no.

sheet of

project | location

co-ordinates | drill type | hole commenced

R.L. | drill method | hole completed

inclination | drill fluid | drilled by

bearing | logged by

checked by

penetration 1 2 3	support	water	notes samples, tests	metres R.L	metres depth	graphic log	classification symbol	material: soil type: plasticity or particle characteristics, colour, secondary and minor components.	moisture condition	consistency density index	hand penetrometer kPa 25 50 100 200 400	structure, geology
								as above				
							CH	Sandy CLAY; high plas grey-brown, sand mod to coarse. Carbonaceous material				a almost vertical joint translates at least 200 mm of material. clays lightly slickensided, some almost horizontal slides.
							CH	Numerous low angle s/sides CLAY: as above, no sand				
					18							
							CH	Sandy CLAY: as per 17.1				sharp contact
							CH	CLAY: as above				grading downwards to CH CLAY
							CH	Sandy CLAY: as per 17.1				
							CH	CLAY: as per 17.8				
					19							
							CH	Sandy CLAY: as per 17.1 m				
							CH	CLAY: as per 17.8				
					20		CH	Sandy CLAY: as per 17.1				bedding angle
							CH	CLAY: as per 17.8				
					21		CH	Sandy CLAY: as per 17.1				abundant horizontal slickensides
							CH	CLAY: as per 17.8				
							CH	Sandy CLAY: as per 17.1				
							CH	CLAY: as per 17.8 massive brown clay				

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35 227

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R.L.	
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penetration 1 2 3	support	water	notes samples, tests	metres R.L. / depth	graphic log	classification symbol	material: soil type: plasticity or particle characteristics, colour, secondary and minor components.	moisture condition	consistency density index	hand penetrometer kPa 25 50 100 200 400	structure, geology
						CH	CLAY: high plas. black, ~~fissile~~ bladey				
						CH	CLAY: as per 21.4 m. Some carbonaceous material				
				23							
				24.0							
				25.0							
				26.0			Volcanics ?				
							25 - 26 m Rhyolite ?				