



Hydro Tasmania
THE TASMANIAN ENERGY AUTHORITY

Engineering Log
Cored Borehole

borehole no:
TP44/P140
Sheet 1 of 1

Job no: E200195 file:

Project: Musselroe to Derby Transmission Line	hole commenced: 14/9/07
borehole location: mE 559 0568427 (MGA 94) mN 5446937	hole completed: 14/9/07 supervised by: T. LODGE log checked by: RA
drill model and mounting: Scout rig on Bombadier slope: vertical	R.L surface: 255.6 m
barrel type and length: HQ fluid water bearing: -	datum: AMD Driller T. LODGE

drilling information				rock substance			rock mass defects		
method	case-lift	water	depth (m)	substance description	weathering	strength Is (50)	defect spacing mm	RQD %	defect description
				rock type: grain characteristics, colour, structure, minor components.					thickness, type, inclination, planarity, roughness, coating
									particular general
AS			0	CLAY; medium plasticity, red, brown	RS				moist
HQT			1	BASALT; fine grained, dark grey, extremely high strength with CLAY bands	FR			77	CLAY; infill, medium plasticity, red, brown, P.P. 150-200 kPa PLT Is(50) 11.4 MPa
			2						
			3						
			4	CLAY, red black, gravelly (EW basalt) with occasional basalt cobbles	EW				Core loss is clay (not so?!) 0 basalt cobble.
			5						
SPT			6						SPT 14, 21, 10 N ₆₀ = 31 P.P. in clay portion 450 kPa SAMPLE; clay, EW basalt, red, black Fb with gravel med, basalt, fresh
HQT			7	BASALT, fine grained, dark grey, extremely high strength	FR			75	SPT 7, 15/100 P.P. > 500 in clay portion SAMPLE AS ABOVE PLT Is(50) 10.3 MPa PLT Is(50) 10.3 MPa
			8						
			9	EOH @ 7.92m					Groundwater not measured due to cutting method

KEY SPT = Standard Penetration Test AS auger screwing AD auger drilling R roller/tricone W washbore NQT NQ triple tube core drilling	case-lift casing used barrel withdrawn 6 May 07 water level date shown water inflow partial drilling water loss complete drilling water loss	graphic log/ core loss core recovered (hatching indicates material) no core recovered	weathering Fb - Friable Fr - fresh SW - slightly weathered DW - distinctly weathered EW - extremely weathered RS - residual soil	strength (indirect tensile strength) x Point Load Test EL extremely low VL very low L low M medium H high VH very high EH extremely high P.P. POCKET PENETROMETER
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