

# Engineering Log Cored Borehole

Project No:

mE:  
mN:  
R.L surface:  
Datum:

Borehole no:  
**ROBH100A**  
Sheet **1** of

Project: **PHIES STG 1** Hole commenced: **31 JAN 21** Completed:

Borehole location: **ROWALLAN** Supervised by: **LV** Checked by:

Drill model and mounting: **KL 800 Track Mounted** Fluid: **H<sub>2</sub>O** Company: **TDS**

Barrel type and length: **HQ3 4.1m barrel** Bearing: **Vertical** Slope: Driller: **Adam Rowe**

Method/c-lift	Water	RL depth (m)	Graphic log core loss	Rock descriptions: ROCK NAME, grain size and type, colour, texture (porphyritic, amorphous, glassy) and fabric (distinct/indistinct bedding, lamination, foliation, cleavage), inclusions or minor components, moisture content, durability	Weathering	Strength	Defect spacing (mm)	RQD %	Rock mass descriptions (vertical) and significant defect descriptions (horizontal): defect type, orientation relative to core axis, shape, roughness, coating, aperture or thickness and composition
DC		251		DAUGHTER HOLE OFF ROBH100 250.00 - 264.60 BASAL CONGLOMERATE / SEDIMENTARY BRECCIA. Well rounded to angular, poorly sorted clasts of Proterozoic quartzite and gneiss. Clast density increases downhole and varies in size from pebble to cobble. Matrix is comprised of fine, well sorted pale to mid grey, micaceous sand. Variable density of thin 20.5mm black, wispy, carbonaceous laminae which defines a crude bedding @ 80CA. Long axis of clasts indicates a crude imbrication.	FR				252.70, 253.55, 253.85, 254.30, 254.45, 254.60, 254.75, 254.90, 255.10, 255.15, 255.20, 256.90, 257.15, 258.10, 258.25, 258.35, 258.60, 259.00, 259.20, 259.75, PARTING > 80 Deg CA. Undulating to irregular, rough, clean. Associated with carbonaceous laminae.
		252							incl 252.45, SHEARED SEAM. 15mm wide 90° CA.
		253							incl 253.20 15mm wide zeroed low strength plastic clay. EXTREMELY WEATHERED SEAM. 90° CA.
		254							254.35, JOINT. 10-20 Deg CA. Subaxial. 15cm long, undulating, rough, coating of qtz and very finely crystalline pyrite.
		255							255.90, PARTING. 90 Deg CA due to matrix - pebble band boundary.
		256							
		257							
		258							
		259							incl 259.95, 2cm band of firm, medium plasticity clay. Extremely weathered seam.

KEY	Case-lift	Graphic log/core loss	Weathering	Rock material strength
Method SO sonic drilling AD auger drilling HFA hollow flight auger RR roller/tricone W <sub>size</sub> washbore DC <sub>size</sub> diamond drilling	casing used barrel withdrawn 6 May 20 water level, date shown water inflow partial drilling water loss complete drilling water loss	core recovered (hatching indicates material) no core recovered (NCR) Grain size (mm) fine 0.06 to 0.2 medium 0.2 to 0.6 coarse 0.6 to 2 mainly < 0.06 0.06 to 2 mainly > 2 Rock type SED IGMETA	RS Residual soil XW Extremely weathered HW Highly weathered MW Moderately weathered SW Slightly weathered Fr Fresh DW = distinctly weathered	[Is(50) in MPa] VL Very low [0.3 to 0.1] L Low [0.1 to 0.3] M Medium [0.3 to 1] H High [1 to 3] VH Very high [3 to 10] EH Extremely high [10+] x Point Load Test