RATIONALE FOR TESTING and EVALUATION OF SAMPLE				
Sample Reference:	HC0405			
Rationales for testing:	1. At the request of the client			

Evaluation (Table 3 - Test Suite B - Risk Factor assessment for mica degradation in concrete blocks)

	Classification risk of concrete block			Critical	
	Negligible	Low/Medium	High	Critical	
Risk factor	Interpretation of results				
Visible evidence of deterioration or the concrete blocks	Sound	Sound but potentially susceptible	Sound but potentially susceptible or Unsound	Unsound	
Presence of "free muscovite mica"	Absent/Rare	Common	Numerous	Abundant	
Evidence of moisture ingress	Rare	Common	Numerous	Abundant	
Microcracking	Rare	Common	Numerous / Common	Abundant or Pervasive	
Degradation/Weakening of cement matrix (with possible evidence of leaching of cement hydrates)	Rare	Rare	Common	Very common or Pervasive	
Microporosity	Normal	Moderate	High	Excessive	
	Absent/Rare	Common	Numerous	Abundant	
	<1%	1-10%	10-30%	>30%	
Comment on evaluation	Core apparently sound and containing 1.02 mass % water. Presence of Rare / Common free mica determined at 1.70% by SEM-EDS from average of five fields of view. Without evidence of degradation. Subsample deemed in good condition after 60 freeze thaw cycles				

Poblic Goodle

showing evident durability. Pyrrhotite was sought but not found.

Professional Geologist Dr Robbie Goodhue, P.Geo. (IGI Member 230)