

PHC Consortium			Risk: C00462 - Geotechnical Surprise / Ground Conditions										Risk Snapshot	
Risk ID	Category / Element	Risk Short Title	Description	Desired Outcome			Current Situation			Proposed Strategy				
C00462 □	T1 Project Scope	Geotechnical Surprise / Ground Conditions	Unforeseen geology or groundwater conditions undermine design assumptions and productivity for tunnelling and shaft works.	Ground risks are understood early with mitigation and contingency aligned to realistic confidence levels.			Ground model exists but uncertainty remains until works expose real conditions; interface between investigation and design can drift.			Define ground risk owners; ensure investigation findings are integrated into design; maintain a live ground risk log; set clear escalation triggers; link to schedule risk and contingency.				
				What Could Go Wrong? Late discovery drives redesign, delay, cost escalation, safety exposure, and claims.										
Risk (three-part) Statement				Current Risk			Response Type	Manageability	Residual Risk	Risk Owner	Due Date	Close Date	Last Review Date	
Cause	Risk Event [uncertainty]	Consequence	Probability	Impact	Score (Pxl)	Notes								
Incomplete/uncertain ground investigation and interpretation	Actual ground conditions differ materially from assumptions	Rework + delay + cost growth + increased safety risk	4	4 H-1 C-1 Q-1 S-4	16	Mitigate	5	12	Winter, David	16Oct26	Open	29Jan26		
Mitigating Actions / Response														
ID	Actions											Action Owner	Due Date	Close Date
#1	Define ground risk owners											Winter, David	30Mar26	Open
#2	Investigate ground conditions and ensure findings are integrated into the design.											Winter, David	30Mar26	Open
#3	Establish and maintain a live ground risk log with clear escalation triggers, and linked to scedule risk and contingency											Winter, David	30Mar26	Open
Last 10 RM Events (Meetings/Interviews/Workshops).														
Mtg.	Date	Title / Person / Department				Objective				(<File Missing> Events held.)				
Comments							History							
Top Risk Summary							Top Risk Mitigation							
Geotechnical Surprise / Ground Conditions							Define ground risk owners; ensure investigation findings are integrated into design; maintain a live ground risk log; set clear escalation triggers; link to schedule risk and contingency.							

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