

Preliminary Site Conceptual Model

Human Health			
Source	Pathway	Receptors	Level of Risk
Potentially contaminated made ground associated with previous developments (largely occupied with residential buildings)	Indoor and outdoor inhalation of soil dust, the ingestion of, and dermal contact with, contaminated soil and soil dust (limited infiltration through hardstanding)	End users	Low
		Construction workers	
Made ground	Inhalation of ground gas.	End users	Low
Surrounding historic developments (redeveloped and likely remediated)			
Asbestos associated with potential made ground.	Inhalation of asbestos fibres.	Construction workers	Low

Controlled Waters			
Receptor	Sensitivity	Rationale	Level of Risk
Potentially contaminated made ground associated with previous developments (largely occupied with residential buildings)	Leaching of contaminants and vertical migration to the groundwater (limited infiltration through hardstanding)	Secondary A Aquifer (Glaciofluvial Deposits) Secondary Undifferentiated Aquifer (Till). Principal Aquifer (Chester Pebble Beds Formation).	Very Low
	Overland and lateral groundwater flow (unlikely to impact due to distance)	River Medlock (250m north)	Negligible

	Figure:	14.1		
	Title:	Preliminary Site Conceptual Model		
	Project:	Block C, Plot 11, First Street		
	Date:	12/01/2024	Scale:	Scale /NTS