

Source	Receptor		Contaminant exposure/migration pathway	Baseline			Construction ¹			Operation ¹		
				Probability	Consequence	Risk Category	Probability	Consequence	Risk Category	Probability	Consequence	Risk Category
Agricultural Use Potential contaminants likely include Pesticides, herbicides, localised Total Petroleum Hydrocarbons (TPH), and Polycyclic Aromatic Hydrocarbons (PAH)	Human health: On-site	Future Site Users	Dermal contact with impacted soils or ingestion of contaminants in soil, soil-derived dust and water. Inhalation of contaminants in soil, soil-derived dust and vapours from soil and / or groundwater.	Receptor not present in Baseline			Receptor not present during Construction			Unlikely	Minor	Very low risk
	Human health: Off-site	Occupants of residential and commercial properties in the surrounding area	Dermal contact with, inhalation and ingestion of contaminants in soil-derived dust which may have migrated off-site.	Low likelihood	Minor	Very low risk	Low likelihood	Minor	Very low risk	Unlikely	Minor	Very low risk
	Controlled waters	Groundwater within superficial deposits (Secondary A aquifer)	Leaching of contaminants in soil to groundwater in underlying aquifers.	Low likelihood	Mild	Low risk	Low likelihood	Mild	Low risk	Unlikely	Mild	Very low risk
			Migration of contaminated water through preferential pathways such as underground services, pipes and granular material to groundwater in underlying aquifers.	Low likelihood	Mild	Low risk	Low likelihood	Mild	Low risk	Unlikely	Mild	Very low risk
	On-site surface water features.		Lateral migration of contaminated groundwater with discharge to surface watercourses as base flow.	Low likelihood	Minor	Very low risk	Low likelihood	Minor	Very low risk	Unlikely	Minor	Very low risk
			Discharge of contaminants entrained in surface water run-off followed by overland flow and discharge.	Low likelihood	Minor	Very low risk	Low likelihood	Minor	Very low risk	Unlikely	Minor	Very low risk
	Property / services	Existing and future structures and services on site	Direct contact of contaminants in soil and/or groundwater	Low likelihood ²	Minor	Very low risk	Unlikely	Minor	Very low risk	Unlikely	Minor	Very low risk
			Migration of ground gas along strata and preferential pathways such as service routes or differentially permeable strata.	Low likelihood ²	Minor	Very low risk	Unlikely	Minor	Very low risk	Unlikely	Minor	Very low risk
Localised Made Ground Potential contaminants likely to include Asbestos, metals, TPH and PAH	Human health: On-site	Future Site Users	Dermal contact with impacted soils or ingestion of contaminants in soil, soil-derived dust and water. Inhalation of contaminants in soil, soil-derived dust and vapours from soil and / or groundwater.	Receptor not present in Baseline			Receptor not present during Construction			Unlikely	Medium	Very low risk
	Human health: Off-site	Occupants of residential and commercial properties in the surrounding area	Dermal contact with, inhalation and ingestion of contaminants in soil-derived dust which may have migrated off-site.	Low likelihood	Minor	Very low risk	Unlikely	Minor ³	Very low risk	Unlikely	Minor	Very low risk
	Controlled waters	Groundwater within superficial deposits (Secondary A aquifer)	Leaching of contaminants in soil to groundwater in underlying aquifers.	Low likelihood	Mild	Low risk	Low likelihood	Mild	Low risk	Unlikely	Mild	Very low risk
			Migration of contaminated water through preferential pathways such as underground services, pipes and granular material to groundwater in underlying aquifers.	Low likelihood ²	Mild	Low risk	Low likelihood	Mild	Low risk	Unlikely	Mild	Very low risk
	On-site surface water features.		Lateral migration of contaminated groundwater with discharge to surface watercourses as base flow.	Low likelihood	Minor	Very low risk	Low likelihood	Minor	Very low risk	Unlikely	Minor	Very low risk
			Discharge of contaminants entrained in surface water run-off followed by overland flow and discharge.	Low likelihood	Minor	Very low risk	Low likelihood	Minor	Very low risk	Unlikely	Minor	Very low risk
	Rowel Brook (off site)		Lateral migration of contaminated groundwater with discharge to surface watercourses as base flow.	Low likelihood	Minor	Very low risk	Low likelihood	Minor	Very low risk	Unlikely	Minor	Very low risk

¹ The assessment assumes that the embedded mitigation has been implemented (see ES Chapters on Construction stage mitigation measures and Operational stage mitigation measures)

² Future services / structures are not present at baseline or construction stage

³ This assessment assumes that any contamination identified either during ground investigation or the construction stage is appropriately dealt with under a Remediation Strategy or CEMP / MMP.

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			Migration of ground gas along strata and preferential pathways such as service routes or differentially permeable strata.	Low likelihood ²	Minor	Very low risk	Low likelihood ²	Minor	Very low risk	Unlikely	Minor	Very low risk