

Potential concern (Source)	Chemical Contaminant	Potential Pathways to Receptor	Potential Receptor	Associated Hazard	Potential Consequence of Hazard Receptor Linkage	Likelihood of Hazard Receptor Linkage	Potential Significance (Risk)
Metals in the Made Ground.	Elevated concentrations of metals (when compared to ICRCCL guidelines)	Skin contact, inhalation, or ingestion.	Current occupiers – no change to site	Irritation, Toxicity	Moderate	Nil – most areas covered with buildings or concrete	Low
			Maintenance or redevelopment workers.		Moderate	Possible	Moderate
			Site occupiers following redevelopment for commercial use.		Moderate	Unlikely – most areas covered with buildings or concrete	Low
		Surface runoff	Surface water – Rivers	Pollution of Controlled waters	Mild – assume river quality is poor	Unlikely – leachate levels are low.	Low – flow volumes of leached material into river are likely to be low.
Infiltration and leaching	Groundwater – both minor and major aquifers.	Pollution of Controlled Water	Mild – assume cont. Is present in the wider area.	Possible – although Alluvium at site will limit downward migration.	Low		
Via Soil	Plants	Phytotoxicity.	Moderate	Likely	Moderate		

**Worked Example - Environmental Risk Assessment – Assume that the area is near a Main River, the development is an old industrial park with many varied uses both past and present. Also area due for redevelopment as a large retail park – mostly concrete hardstanding. Previous Site investigations show no migration of contaminated groundwater into the nearby River.**

## **APPENDIX B**