

10. Revised Environmental Risk Assessment

In accordance with the requirements of LCRM 2020, the S-P-R potential contaminant linkages identified by the intrusive investigation are discussed below. All remaining contaminant linkages identified within the ICSM have been discounted as no plausible contaminant linkage has been identified.

A summary of the findings is presented below.

10.1 Identified Sources

Based on the GQRA that has been carried out within Section 7.0, potential sources of contamination that could impact on the identified receptors are summarised below.

- Low concentrations of sulphates in sub-soils.

10.2 Identified Pathways

- Direct contact of buried concrete with aggressive ground.

10.3 Identified Receptors

- Buried concrete.

10.4 Revised CSM and Potential Contaminant Linkages

Based on the above, the revised CSM is presented in Table 10-1 below.

Appropriate remedial / mitigation measures to break the potential contaminant linkages are discussed where required.

The revised CSM is provided in the table below.



Table 10-1 Revised CSM.

Contaminant Linkage	Source (S)	Pathway (P)	Receptor (R)	Probability	Consequence	Current Risk	Mitigation Measures
Property and Infrastructure							
1	On Site S2: Natural subsoils with low sulphate concentrations.	P6: Direct contact with aggressive ground.	R6: Buried concrete & structures	Unlikely	Mild	Very Low	Design Sulphate Class DS-1 and Aggressive Chemical Environment for Concrete Class AC-1 should be used for design purposes.