# Appendix 5 – Conceptual site model checklist

| **Report section** | **Required information** | Present? **(Yes/No/NA)** | **Comments (actions, requests, red flags)** |
| --- | --- | --- | --- |
| All reports and all stages of reporting | Regional and local geology, hydrogeology and hydrology items from the ‘CSM’ tab of the *ASC NEPM Field Checklist* |  |  |
| List of potential contaminants of concern |  |  |
| Potential and known sources of contamination, onsite and offsite |  |  |
| Mechanism of contamination (for example, top-down spill, subsurface release from tank or pipe, atmospheric, or deposition) |  |  |
| Potentially affected environmental media |  |  |
| Consideration of spatial and temporal variations (for example, weather) |  |  |
| Actual or potential exposure pathways. Consideration of preferential pathways for contaminant migration |  |  |
| Human and ecological receptors |  |  |
| Frequency of exposure |  |  |
| Linkage of source, pathway and receptor, assessed in terms of potentially complete pathways and likelihood |  |  |
| Discussion of multiple lines of evidence (for complex sites) |  |  |
| Other sections | Previous site investigations, contaminant characteristics, meteorological data, data gap identification, sources of variability and other CSM items from the ‘CSM’ tab of the *ASC NEPM Field Checklist* |  |  |

Note: A conceptual site model should be continually updated as more information and data are gained through site investigations and remediation.

Source: NSW Environmental Protection Authority. (2020). *Consultants reporting on contaminated land: Contaminated land guidelines*; National Environment Protection Council. (November 2010). *ASC NEPM field checklist* [spreadsheet]; NSW Environmental Protection Authority. (2017). *Contaminated land management: Guidelines for the NSW site auditor scheme* (3rd ed.).