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| **Table B.7 Design assessment checklist: proprietary treatment system** |
| **General information** |  |
| Site ID |  |
| Asset ID(s) |  |
| System location(s) and co-ordinates |  | Drawing reference(s) |  |
| Date of assessment |  | Specification reference(s) |  |
| Primary treatment processes provided: |  |
| System description |  |

| **Check** | **Summary details** | **Acceptable (Y/N)** | **Comments/ remedial actions** |
| --- | --- | --- | --- |
| **Dimensions** |
| Dimension 1 (m) (describe) |  |  |  |
| Dimension 2 (m) (describe) |  |  |  |
| Dimension 3 (m) (describe) |  |  |  |
| Depth to base – maximum and minimum (m) |  |  |  |
| Cover – maximum and minimum (m) |  |  |  |
| **Inflows (Section 14.8.1)** |
| Provide a description of the contributing catchmentland use and its size (m2) |  |  |  |
| Does the design include suitable inlet system to manage design inflows? |  |  |  |
| **Outflows (Section 14.8.2)** |
| Provide details of any flow control systems, overflow arrangements (for events that exceed the treatment event) and limiting discharge rate (s) from basin |  |  |  |
| Maximum flow rate (and return period) for flows to be conveyed through the system |  |  |  |
| **Water quality performance (Section 14.5)** |
| Provide test data to show that the system delivers adequate removal of pollutants for rainfall events up to the 1 year return period. The critical type (duration) of event must be considered where the hydraulic behaviour is an essential component of the effectiveness of the treatment achieved |  |  |  |
| Provide test data to show that the design minimises the risk of pollutants being remobilised and washed through the system by subsequent rainfall events, whether small or large |  |  |  |
| **Structural (Section 14.2)** |
| Confirm type of unit or structure to be used |  |  |  |
| Confirm that calculations are provided to demonstrate acceptable structural capacity over the proposed system design life and approved by a chartered engineer |  |  |  |
| **Critical materials and product specifications (Section 14.9)** |
| Geomembrane |  |  |  |
| Geotextile (non-woven) |  |  |  |
| Topsoil |  |  |  |
| Other (including proprietary systems) |  |  |  |
| **Constructability (Section 14.11)** |
| Are there any identifiable construction risks? If yes, state and confirm that acceptable risk management measures are proposed |  |  |  |
| **Maintainability (Section 14.12)** |
| Confirm that access for maintenance is acceptable and summarise details |  |  |  |
| Are there specific features that are likely to pose maintenance difficulties? If yes, identify mitigation measures required |  |  |  |
| Confirm required maintenance frequency and cost of replacement filters etc |  |  |  |
| Identify any custom items required for maintenance that may be difficult to obtain from other suppliers |  |  |  |

|  |  |  |  |
| --- | --- | --- | --- |
| **System design acceptability** | **Summary details including any changes required** | **Acceptable (Y/N)** | **Date changes made** |
| Acceptable:Minor changes required:Major changes required/redesign: |  |  |  |