|  |  |  |  |
| --- | --- | --- | --- |
| **Table B.11 Design assessment checklist: filter drain** | | | |
| **General information** | | | |
| Site ID |  | | |
| Asset ID(s) |  | | |
| Drain location(s) and co-ordinates |  | Drawing reference(s) |  |
| Date of assessment |  | Specification reference(s) |  |
| Primary function(s) of trench: | Conveyance/attenuation/infiltration/treatment | | |

| **Check** | **MDR** | **Summary details1** | **Acceptable (Y/N)** | **Comments/ remedial actions** |
| --- | --- | --- | --- | --- |
| **Dimensions (Section 16.2)** | | | | |
| Length (m) |  |  |  |  |
| Width (m) |  |  |  |  |
| Depth (m) |  |  |  |  |
| Longitudinal gradient (1 in ?) |  |  |  |  |
| Dimensions of collector pipes (mm) |  |  |  |  |
| **Inflows (Section 16.8.1)** | | | | |
| Provide a description of the contributing  catchment land use and its size (m2) |  |  |  |  |
| Does the design include suitable silt Interception before trench? |  |  |  |  |
| **Outfall arrangements (Section 16.8.2)** | | | | |
| Provide details of any flow control system, overflow arrangements and limiting discharge rate from trench |  |  |  |  |
| Is the trench designed to allow infiltration? If yes, attach infiltration assessment |  |  |  |  |
| Is a geomembrane required to prevent infiltration? If yes, give reason |  |  |  |  |
| Depth to maximum likely groundwater  level (m) |  |  |  |  |
| **Conveyance (Section 16.4)** | | | | |
| Proposed trench infill, permeability (m/s), void ratio (if used as storage system) |  |  |  |  |
| Confirm that trench capacity is adequate to convey the design flow, taking account of the infill permeability |  |  |  |  |
| Maximum design flow rate (m3/s) or storage capacity (m3) and design event return period (years) |  |  |  |  |
| **Critical materials and product specifi ations (Section 16.9)** | | | | |
| Geomembrane |  |  |  |  |
| Geotextile (non-woven) |  |  |  |  |
| Topsoil |  |  |  |  |
| Gravel fill |  |  |  |  |
| Perforated pipework |  |  |  |  |
| Other (including proprietary systems) |  |  |  |  |
| **Constructability (Section 16.11)** | | | | |
| Are there any identifiable construction risks? If yes, state risk and confirm acceptable risk management measures are proposed |  |  |  |  |
| **Maintainability (Section 16.12)** | | | | |
| 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 |  |  |  |  |
| **Drain design acceptability** | **Summary details including any changes required** | | **Acceptable (Y/N)** | **Date changes made** |
| Acceptable:  Minor changes required:  Major changes required/redesign: |  | |  |  |

**Note**

1 If there is an MDR (as indicated) confirm whether or not this is met and provide details of any variations.