

# 8492 - Pollution Control

Monday, August 16, 2021 8:58 AM

Pollution hazard from Individual property driveways, residential car parks, low traffic roads, (e.g. cul de sacs, home zones, general access road) is classed as **low** and simple index approach will be used to deliver adequate treatment.

Minimum water quality management requirements for discharge to receiving surface waters and groundwater – Extract from [Ciria SuDS Manual 2015 \(Table 4.3\)](#)

| Land Use                                                                                                                                                                                                                                 | Pollution hazard level | Requirements for discharge to surface water and groundwater                                         |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|-----------------------------------------------------------------------------------------------------|
| Residential roofs                                                                                                                                                                                                                        | Very low               | Removal of gross solids and sediments only                                                          |
| Individual property driveways, roofs (excluding residential), residential car parks, low traffic roads, (e.g. cul de sacs, home zones, general access road), non-residential car parking with infrequent change (e.g. schools, offices). | Low                    | Simple index approach<br>Note: extra measures may be required for discharge to protected resources. |

**Total SuDS mitigation index  $\geq$  pollution hazard index**

**(for each contaminant type) (for each contaminant type)**

Where the mitigation index of an individual SuDS components is insufficient, two components or more in series will be required, where

**Total SuDS mitigation index = mitigation index<sub>1</sub> + 0.5 (mitigation index<sub>2</sub>)**

Where: **Mitigation Index<sub>n</sub>** = mitigation index for component n

**Simple index approach - Individual property driveways, access road.**

**Land use Pollution Hazard Index – Low.**

**Pollution Hazard Indices:**

- Suspended Solids – 0.5
- Metals - 0.4
- Hydrocarbons – 0.04

The proposed drainage system collecting water from driveways and access road is proposed to be disposed via infiltration.

**SuDS Sci CloneX chamber is proposed upstream of infiltration tank as a mitigation measure.**

**Pollution Mitigation Indices for SciCloneX**

- Suspended Solids TSS – 0.5
- Metals – 0.4
- Hydrocarbons - 0.5

Following assessment of the pollution indices for the runoff and details of the pollution mitigation indices for the proposed SuDS Component 1 (SciClone X) it is considered that the proposed treatment is suitable for the proposed development.