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POLLUTION PREVENTION

DEVELOPMENT AT

HEVERCOURT, GOODWOOD CRESCENT

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DOCUMENT CONTROL SHEET

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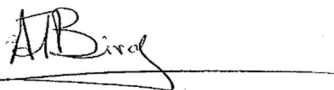
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1.0 POLLUTION CONTROL MEASURES- CAR PARK

1.1.1 The surface water run-off from the site will be treated in accordance with the Simple Index Approach from CIRIA SuDS Manual 2015. As per Table 26.2 of the CIRIA SuDS Manual - Pollution hazard indices for different land use classifications.

1.1.2 Due to the size of the development the site is expected to generate less than 300 traffic movements per day and therefore the Land Use has been established as Low traffic roads (eg Individual property driveways, residential car park, low traffic roads ie <300 traffic movements /day). The Pollution Hazard Level has therefore been classified as “low” in accordance with Table 26.2.

1.1.3 Table 26.2 of the CIRIA SuDS Manual confirms that, where the pollution hazard level is classified as “low” this correlate to the following pollution indices:

- Total Suspended Solids (TSS) – 0.5
- Metals – 0.4
- Hydrocarbons – 0.4:

1.1.4 The proposed surface water drainage is designed to drain to a cellular crate attenuation soakaway with a suitable depth of filtration material laid below the attenuation tank.

1.1.5 The carpark shows that all surface run-offs will flow into silt traps. This in turn will flow into an attenuation soakaway and discharge to ground.

1.1.6 According to Table 26.3 of the CIRIA SuDS Manual an attenuation soakaway with a suitable depth of filtration material has the following mitigation indices:

- Total Suspended Solids (TSS) – 0.4
- Metals – 0.4
- Hydrocarbons – 0.4

1.1.6 According to manufacturer’s data the Silt Trap would provide a TSS value of between 0.5 to 0.7

1.1.7 In accordance with the CIRIA SuDS Manual the total SuDS Mitigation Index for the site is calculated using the following formula:

Total SuDS mitigation index = mitigation index1 + 0.5(mitigation index2)

1.1.8 Refer to Table 1.1 below for the Total SuDS mitigation index, where surface water runoff is routed through the Silt Trap and an attenuation soakaway with a suitable depth of filtration material.

Table 1.1: Total SuDS Mitigation Index

Pollutant	Pollution Hazard Indices (medium pollution hazard level)	Attenuation soakaway with a suitable depth of filtration material	Silt Trap Mitigation Indices	Total SuDS Mitigation Indices
Total Suspended Solids (TSS)	0.5	0.4	0.5 to 0.7	$0.4 + (0.5/2) = 0.65$
Metals	0.4	0.4		$0.4 = 0.40$
Hydro-carbons	0.4	0.4		$0.4 = 0.40$

1.1.10 As can be seen from Tables 1.1 above the Total SuDS mitigation indices for the site exceed the requirements of CIRIA SuDS Manual for the required pollutants (Total Suspended Solids (TSS), metals and hydrocarbons) for the Land Use classifications of the development. Thus, comply with the requirements for surface water run off treatment.

2.0 POLLUTION PREVENTION MEASURES- ROOF DRAINAGE

2.1.1 Roof drainage indicates that surface run-off will flow into the detention ponds/swales and discharge via a flow control into the watercourse.

2.1.2 Table 26.2 of the CIRIA SuDS Manual confirms that, for residential roofs, the pollution hazard level is classified as “very low” this correlate to the following pollution indices:

- Total Suspended Solids (TSS) – 0.2
- Metals – 0.2
- Hydrocarbons – 0.05

Table 2.1: Total SuDS Mitigation Index

Pollutant	Pollution Hazard Indices (medium pollution hazard level)	Attenuation soakaway with a suitable depth of filtration material	Total SuDS Mitigation Indices
Total Suspended Solids (TSS)	0.2	0.4	0.4
Metals	0.2	0.4	0.4
Hydro-carbons	0.05	0.4	0.4

2.1.3 As can be seen from Tables 2.1 above the Total SuDS mitigation indices for the site exceed the requirements of CIRIA SuDS Manual for the required pollutants (Total Suspended

Solids (TSS), metals and hydrocarbons) for the Land Use classifications of the development.
Thus, comply with the requirements for surface water run off treatment.



Date	Activity	Observations	Signature

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