

East Hemel Masterplan

Pollution hazard indices for different land use classifications

Land use	Pollution hazard level	Total suspended solids (TSS)	Metals	Hydrocarbons
Residential roofs	Very low	0.2	0.2	0.05
Other roofs (typically commercial/industrial roofs)	Low	0.3	0.2 (up to 0.8 where there is potential for metals to leach from the roof)	0.05
Individual property driveways, residential car parks, low traffic roads (eg cul de sacs, home zones and general access roads) and non-residential car parking with infrequent change (eg schools, offices) ie < 300 traffic movements/day	Low	0.5	0.4	0.4

Indicative SuDS mitigation indices for discharges to Sewer

Type of SuDS component	Mitigation indices		
	TSS	Metals	Hydrocarbons
Swale	0.5	0.6	0.6
Pond	0.7	0.7	0.5
Pervious paving	0.7	0.6	0.7

Indicative SuDS mitigation indices for discharges from roofs (commercial) to sewer via ponds and swales

SuDS Treatment

Source	Required mitigation indices		
	TSS	Metals	Hydrocarbons
Roof (inert commercial)	-0.3	-0.2	-0.05
Swales	+0.5	+0.6	+0.6
Pond	+0.7	+0.7	+0.5
Net Treatment	+0.55	+0.75	+0.80

Total SuDS mitigation index = mitigation index₍₁₎ + (0.5 x mitigation index₍₂₎) + (0.5 x mitigation index₍₃₎)

Indicative SuDS mitigation indices for discharges from permeable paving to sewer via pond

Source	Required mitigation indices		
	TSS	Metals	Hydrocarbons
Low traffic roads (<300 vehicles uses per day)	-0.5	-0.4	-0.4
Pervious paving	+0.7	+0.6	+0.7
Pond	+0.7	+0.7	+0.5
Net Treatment	+0.55	+0.55	+0.55

Total SuDS mitigation index = mitigation index₍₁₎ + (0.5 x mitigation index₍₂₎) + (0.5 x mitigation index₍₃₎)

Indicative SuDS mitigation indices for discharges from roofs (residential) to sewer via ponds and swales

Source	Required mitigation indices		
	TSS	Metals	Hydrocarbons
Roof (inert residential)	-0.2	-0.2	-0.05
Swales	+0.5	+0.6	+0.6
Pond	+0.7	+0.7	+0.5
Net Treatment	+0.65	+0.75	+0.80

Total SuDS mitigation index = mitigation index₍₁₎ + (0.5 x mitigation index₍₂₎) + (0.5 x mitigation index₍₃₎)