

**Soil HOST Classes  
8,18,20,21,23,24 & 25**

**Inner GSPZ**

**Outer GSPZ**      **Total Catchment  
and Outside GSPZ**

**Contaminated  
Ground**

Is the runoff  
contaminated?

Is the runoff  
contaminated?

Yes, heavily

Yes, slightly

No

No

Yes

An impermeably lined SUDS system is required with final discharge into the public sewer system.

Suitable SUDS include: green or brown roofs, rainwater harvesting, lined ponds or basins, pre-treatment devices and pipework, tanks or culverts

Suitable SUDS devices must be provided to filter out contaminants before discharge into the local watercourse.

Suitable SUDS include: green or brown roofs, rain water harvesting, filter strips, filter trenches, swales, bio-retention areas, detention basins or ponds, stormwater wetlands and modular storage devices

The SUDS devices can discharge directly to the local watercourse due to the natural filtration by such devices.

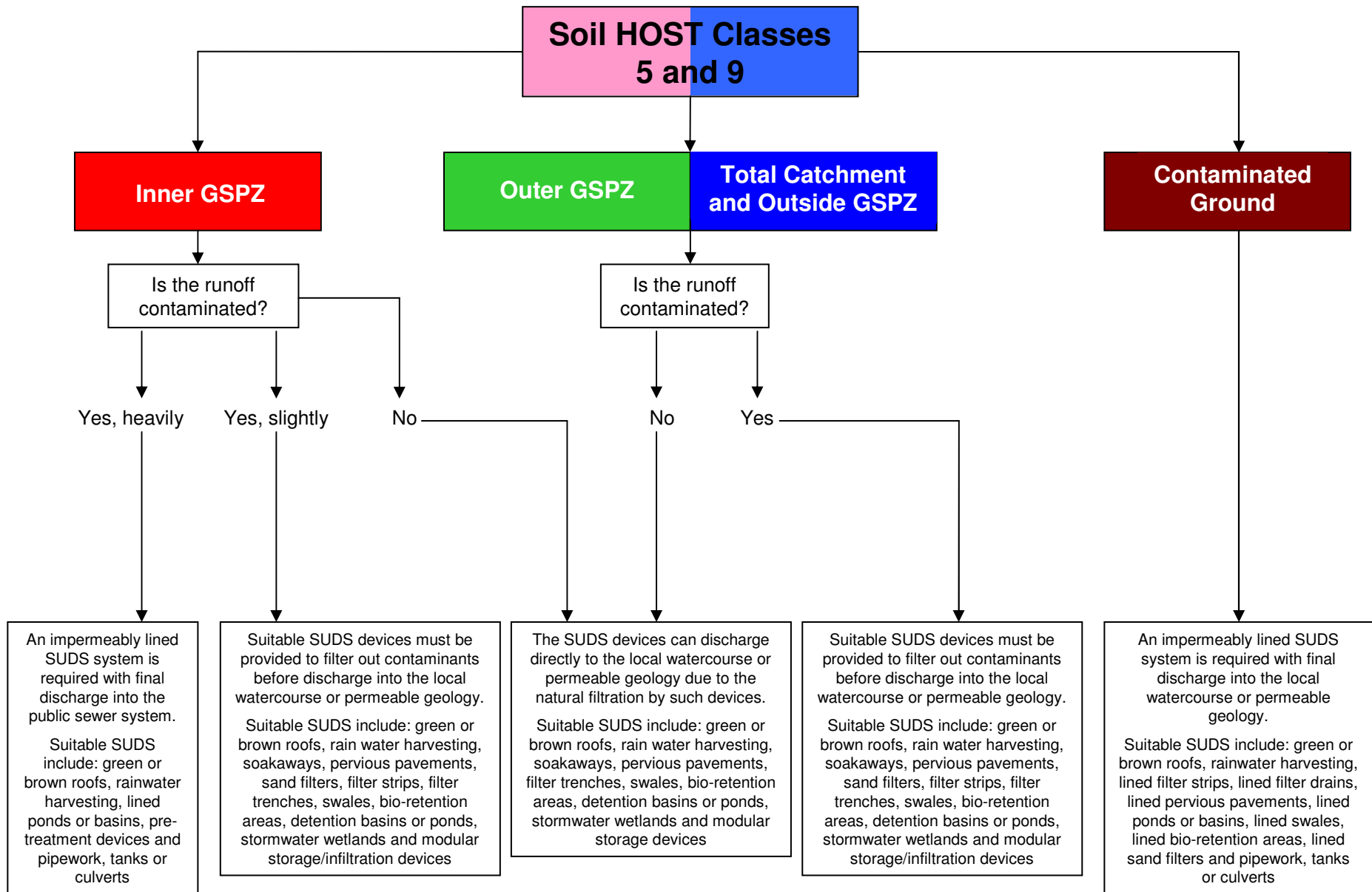
Suitable SUDS include: green or brown roofs, rain water harvesting, filter trenches, swales, bio-retention areas, detention basins or ponds, stormwater wetlands and modular storage devices

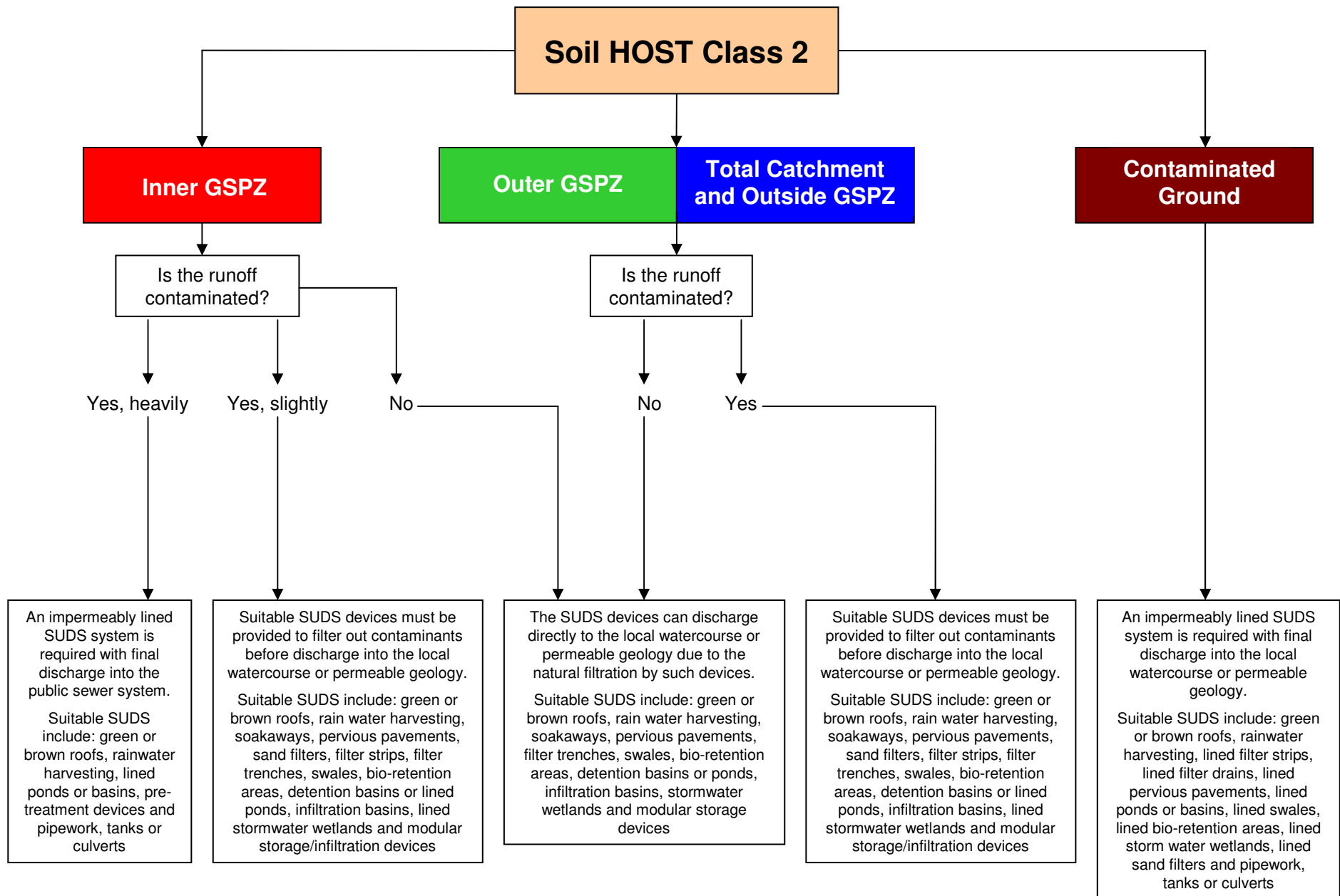
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An impermeably lined SUDS system is required with final discharge into the local watercourse.

Suitable SUDS include: green or brown roofs, rainwater harvesting, lined ponds or basins, lined swales, lined bio-retention areas, lined sand filters, pre-treatment devices, lined modular storage, and pipework, tanks or culverts





Soil Classification			Greenfield Runoff (l/s/ha)		Storage Pond Area – 1m deep (m <sup>2</sup> /ha) 1 in 100year +30% for Climate Change Event		
HOST Class	SPR Value (%)	Permeability	Mean annual peak flow (Qbar)	1 in 100 year event	60% Impermeable	70% Impermeable	80% Impermeable
2	2	High	1.0	1.0	500	600	710
5	14.5	Medium	1.0	1.0	500	600	710
8	44.3	Low	4.2	10.9	270	330	390
9	25.3	Medium	1.3	3.2	370	450	530
18	47.2	Low	4.9	12.5	260	310	370
20	60	Low	5.5	14.2	250	300	360
21	47.2	Low	4.9	12.5	260	310	370
23	60	Low	5.5	14.2	250	300	360
24	39.7	Low	3.3	8.6	290	350	410
25	49.6	Low	5.4	13.9	250	300	360
Environment Agency (5 l/s/ha)			5.0	5.0	330	400	470