

Appendix H

Water Quality

Offices:

Romsey The Old Brewery House, Portersbridge St, Romsey, Hampshire, SO51 8DJ
Bath 2nd Floor, Unit 7, Riverside Court, Bath BA2 3DZ

Registration:

AWA and Andrew Waring Associates are the trading styles of Andrew Waring Associates Ltd. Registered in England & Wales No. 4596312

WATER QUALITY RISK MANAGEMENT: Design using Simple Index Approach (CIRIA SuDS Manual 2015)

Job Name:	Chicklade Services	Job No.	12718	By:	CJB
Element:	Roof Runoff	Date:	29/11/2025	Chk:	
Site Address:	51.10926618566098, -2.1374827929736573	Link:	Click for Google Map		

SIMPLE INDEX APPROACH DESIGN

STEP 1: Determine the Pollution Hazard Index for the runoff area discharging to the proposed SuDS scheme
 Allocate suitable pollution hazard indices for the proposed land use

If the land use varies across the 'runoff area', either:

- use the land use type with the highest Pollution Hazard Index
- apply the approach for each of the land use types to determine whether the proposed SuDS design is sufficient for all.

If it is not, consider collecting more hazardous runoff separately and providing additional treatment.

If the generic land use types suggested are not applicable, select 'Other' and enter a description of the land use of the runoff area and agreed user defined indices in the row below the drop down lists.

		Pollution Hazard Indices			
		Pollution Hazard Level	Total Suspended Solids	Metals	Hydrocarbons
Select land use type from the drop down list (or 'Other' if none applicable):	Commercial/Industrial roofing: Low potential for metal leaching	Low	0.3	0.4	0.05
If the generic land use types in the drop down list above are not applicable, select 'Other' and enter a description of the land use of the runoff area and agreed user defined indices in this row:					
	Land use Pollution Hazard Index	Low	0.3	0.4	0.05

STEP 2A: Determine the Pollution Mitigation Index for the proposed SuDS components

Select the proposed SuDS components that will be used to treat runoff - before it is discharged to a receiving surface waterbody or downstream infiltration component

If the runoff is discharged directly to an infiltration component, without upstream treatment, select 'None' for each of the 3 SuDS components and move [to Step 2B](#)

This step should be applied to evaluate the water quality protection provided by proposed SuDS components for discharges to receiving surface waters or downstream infiltration components (note: in England and Wales this will include components that allow any amount of infiltration, however small, even where infiltration is not specifically accounted for in the design).

If fewer than 3 components, select 'None' for the components that are not required

If the proposed component is bespoke and/or a proprietary treatment product and not generically described by the suggested components, then 'Proprietary treatment system' or 'User defined indices' should be selected and a description of the component and agreed user defined indices should be entered in the rows below the drop down lists

			Pollution Mitigation Indices		
			Total Suspended Solids	Metals	Hydrocarbons
Select SuDS Component 1 (i.e. the upstream SuDS component) from the drop down list:	User defined indices		0	0	0
Select SuDS Component 2 (i.e. the second SuDS component in a series) from the drop down list:	None		0	0	0
Select SuDS Component 3 (i.e. the third SuDS component in a series) from the drop down list:	None		0	0	0
If the proposed SuDS components are bespoke/proprietary and/or the generic indices above are not considered appropriate, select 'Proprietary treatment system' or 'User defined indices' and enter component descriptions and agreed user defined indices in these rows:	SPEL Smartceptor	SuDS Component 1	0.5	0.4	0.5
Aggregated Surface Water Pollution Mitigation Index			0.5	0.4	0.5

Is the runoff now discharged to an infiltration component?

Yes ? [Go to Step 2B](#)
 No ? [Go to Step 2C](#)

STEP 2B: Determine the Pollution Mitigation Index for the proposed Groundwater Protection

Type of groundwater protection that is either part of the SuDS component or lie between the component and groundwater

This step should be applied where a SuDS component is specifically designed to infiltrate runoff (note: in England and Wales this will include components that allow any amount of infiltration, however small, even where infiltration is not specifically accounted for in the design).

'Groundwater protection' describes the proposed depth of soil or other material through which runoff will flow between the runoff surface and the underlying groundwater.

Where the discharge is to surface waters and risks to groundwater need not be considered, select 'None'

If the proposed groundwater protection is bespoke and/or a proprietary product and not generically described by the suggested measures, then a description of the protection and agreed user defined indices should be entered in the row below the drop down list.

			Pollution Mitigation Indices		
			Total Suspended Solids	Metals	Hydrocarbons
Groundwater Pollution mitigation					
Select type of groundwater protection from the drop down list:	None		0	0	0
bespoke/proprietary and/or the generic indices above are not considered appropriate, select 'Proprietary product' or 'User defined indices' and enter a description of the protection and agreed user defined indices in this row:					
Groundwater Protection Pollution Mitigation Index			0	0	0

STEP 2C: Determine the Combined Pollution Mitigation Indices for the Runoff Area

Combine the proposed SuDS Pollution Mitigation Indices with any Groundwater Protection Pollution Mitigation Indices

Nb. Combined Mitigation indices are limited to max 0.95

Combined Pollution Mitigation Indices for the Runoff Area	0.5	0.4	0.5
---	-----	-----	-----

STEP 2D: Determine Sufficiency of Pollution Mitigation Indices for Selected SuDS Components

When the combined mitigation index exceeds the land use pollution hazard index, then the proposed components are considered sufficient in providing pollution risk mitigation.

In England and Wales, where the discharge is to protected surface waters or groundwater, an additional treatment component (ie over and above that required for standard discharges), or other equivalent protection, is required that provides environmental protection in the event of an unexpected pollution event or poor system performance. Protected surface waters are those designated for drinking water abstraction. In England and Wales, protected groundwater resources are defined as Source Protection Zone 1.

		Sufficiency of Pollution Mitigation Indices		
		Total Suspended Solids	Metals	Hydrocarbons
Is the surface water designated for drinking water abstraction?	No			
Is the groundwater discharge in Source Protection Zone 1?	No	Sufficient	Sufficient	Sufficient

WATER QUALITY RISK MANAGEMENT: Design using Simple Index Approach (CIRIA SuDS Manual 2015)

Job Name:	Chicklade Services	Job No.	12718	By:	CJB
Element:	Public access road run-off	Date:	29/11/2025	Chk:	
Site Address	51.10926618566098, -2.1374827929736573	Link:	Click for Google Map		

SIMPLE INDEX APPROACH DESIGN

STEP 1: Determine the Pollution Hazard Index for the runoff area discharging to the proposed SuDS scheme
 Allocate suitable pollution hazard indices for the proposed land use

If the land use varies across the 'runoff area', either:

- use the land use type with the highest Pollution Hazard Index
- apply the approach for each of the land use types to determine whether the proposed SuDS design is sufficient for all.

If it is not, consider collecting more hazardous runoff separately and providing additional treatment.

If the generic land use types suggested are not applicable, select 'Other' and enter a description of the land use of the runoff area and agreed user defined indices in the row below the drop down lists.

		Pollution Hazard Indices			
		Pollution Hazard Level	Total Suspended Solids	Metals	Hydrocarbons
Select land use type from the drop down list (or 'Other' if none applicable):	Roads (excluding low traffic roads, highly frequented lorry approaches to industrial estates, trunk roads/motorways)	Medium	0.7	0.6	0.7
If the generic land use types in the drop down list above are not applicable, select 'Other' and enter a description of the land use of the runoff area and agreed user defined indices in this row:					
	Land use Pollution Hazard Index	Medium	0.7	0.6	0.7

STEP 2A: Determine the Pollution Mitigation Index for the proposed SuDS components

Select the proposed SuDS components that will be used to treat runoff - before it is discharged to a receiving surface waterbody or downstream infiltration component

If the runoff is discharged directly to an infiltration component, without upstream treatment, select 'None' for each of the 3 SuDS components and move [to Step 2B](#)

This step should be applied to evaluate the water quality protection provided by proposed SuDS components for discharges to receiving surface waters or downstream infiltration components (note: in England and Wales this will include components that allow any amount of infiltration, however small, even where infiltration is not specifically accounted for in the design).

If fewer than 3 components, select 'None' for the components that are not required

If the proposed component is bespoke and/or a proprietary treatment product and not generically described by the suggested components, then 'Proprietary treatment system' or 'User defined indices' should be selected and a description of the component and agreed user defined indices should be entered in the rows below the drop down lists

			Pollution Mitigation Indices		
			Total Suspended Solids	Metals	Hydrocarbons
Select SuDS Component 1 (i.e. the upstream SuDS component) from the drop down list:	User defined indices		0	0	0
Select SuDS Component 2 (i.e. the second SuDS component in a series) from the drop down list:	Swale		0.5	0.6	0.6
Select SuDS Component 3 (i.e. the third SuDS component in a series) from the drop down list:	None		0	0	0
If the proposed SuDS components are bespoke/proprietary and/or the generic indices above are not considered appropriate, select 'Proprietary treatment system' or 'User defined indices' and enter component descriptions and agreed user defined indices in these rows:	SPEL 210CI/ESR	SuDS Component 1	0.8	0.6	0.9
Aggregated Surface Water Pollution Mitigation Index			>0.95	0.9	>0.95

Is the runoff now discharged to an infiltration component?

Yes ? [Go to Step 2B](#)
 No ? [Go to Step 2C](#)

STEP 2B: Determine the Pollution Mitigation Index for the proposed Groundwater Protection

Type of groundwater protection that is either part of the SuDS component or lie between the component and groundwater

This step should be applied where a SuDS component is specifically designed to infiltrate runoff (note: in England and Wales this will include components that allow any amount of infiltration, however small, even where infiltration is not specifically accounted for in the design).

'Groundwater protection' describes the proposed depth of soil or other material through which runoff will flow between the runoff surface and the underlying groundwater.

Where the discharge is to surface waters and risks to groundwater need not be considered, select 'None'

If the proposed groundwater protection is bespoke and/or a proprietary product and not generically described by the suggested measures, then a description of the protection and agreed user defined indices should be entered in the row below the drop down list.

			Pollution Mitigation Indices		
			Total Suspended Solids	Metals	Hydrocarbons
	Groundwater Pollution mitigation				
Select type of groundwater protection from the drop down list:	None				
			0	0	0
bespoke/proprietary and/or the generic indices above are not considered appropriate, select 'Proprietary product' or 'User defined indices' and enter a description of the protection and agreed user defined indices in this row:					
	Groundwater Protection Pollution Mitigation Index		0	0	0

STEP 2C: Determine the Combined Pollution Mitigation Indices for the Runoff Area

Combine the proposed SuDS Pollution Mitigation Indices with any Groundwater Protection Pollution Mitigation Indices

Nb. Combined Mitigation indices are limited to max 0.95

Combined Pollution Mitigation Indices for the Runoff Area	>0.95	0.9	>0.95
---	-------	-----	-------

STEP 2D: Determine Sufficiency of Pollution Mitigation Indices for Selected SuDS Components

When the combined mitigation index exceeds the land use pollution hazard index, then the proposed components are considered sufficient in providing pollution risk mitigation.

In England and Wales, where the discharge is to protected surface waters or groundwater, an additional treatment component (ie over and above that required for standard discharges), or other equivalent protection, is required that provides environmental protection in the event of an unexpected pollution event or poor system performance. Protected surface waters are those designated for drinking water abstraction.

In England and Wales, protected groundwater resources are defined as Source Protection Zone 1.

		Sufficiency of Pollution Mitigation Indices		
		Total Suspended Solids	Metals	Hydrocarbons
Is the surface water designated for drinking water abstraction?	Discharges to Protected Waters or SPZ 1 No			
Is the groundwater discharge in Source Protection Zone 1?	No	Sufficient	Sufficient	Sufficient

WATER QUALITY RISK MANAGEMENT: Design using Simple Index Approach (CIRIA SuDS Manual 2015)

Job Name:	Chicklade Services	Job No.	12718	By:	CJB
Element:	Public Parking Bays run-off	Date:	29/11/2025	Chk:	
Site Address	51.10926618566098, -2.1374827929736573	Link:	Click for Google Map		

SIMPLE INDEX APPROACH DESIGN

STEP 1: Determine the Pollution Hazard Index for the runoff area discharging to the proposed SuDS scheme
Allocate suitable pollution hazard indices for the proposed land use

If the land use varies across the 'runoff area', either:

- use the land use type with the highest Pollution Hazard Index
- apply the approach for each of the land use types to determine whether the proposed SuDS design is sufficient for all.

If it is not, consider collecting more hazardous runoff separately and providing additional treatment.

If the generic land use types suggested are not applicable, select 'Other' and enter a description of the land use of the runoff area and agreed user defined indices in the row below the drop down lists.

		Pollution Hazard Indices			
		Pollution Hazard Level	Total Suspended Solids	Metals	Hydrocarbons
Select land use type from the drop down list (or 'Other' if none applicable):	Non-residential car parking with frequent change (eg hospitals, retail)	Medium	0.7	0.6	0.7
If the generic land use types in the drop down list above are not applicable, select 'Other' and enter a description of the land use of the runoff area and agreed user defined indices in this row:					
	Land use Pollution Hazard Index	Medium	0.7	0.6	0.7

STEP 2A: Determine the Pollution Mitigation Index for the proposed SuDS components

Select the proposed SuDS components that will be used to treat runoff - before it is discharged to a receiving surface waterbody or downstream infiltration component

If the runoff is discharged directly to an infiltration component, without upstream treatment, select 'None' for each of the 3 SuDS components and move [to Step 2B](#)

This step should be applied to evaluate the water quality protection provided by proposed SuDS components for discharges to receiving surface waters or downstream infiltration components (note: in England and Wales this will include components that allow any amount of infiltration, however small, even where infiltration is not specifically accounted for in the design).

If fewer than 3 components, select 'None' for the components that are not required

If the proposed component is bespoke and/or a proprietary treatment product and not generically described by the suggested components, then 'Proprietary treatment system' or 'User defined indices' should be selected and a description of the component and agreed user defined indices should be entered in the rows below the drop down lists

		Pollution Mitigation Indices		
		Total Suspended Solids	Metals	Hydrocarbons
Select SuDS Component 1 (i.e. the upstream SuDS component) from the drop down list:	Pervious pavement (where the pavement is not designed as an infiltration component)	0.7	0.6	0.7
Select SuDS Component 2 (i.e. the second SuDS component in a series) from the drop down list:	None	0	0	0
Select SuDS Component 3 (i.e. the third SuDS component in a series) from the drop down list:	None	0	0	0
If the proposed SuDS components are bespoke/proprietary and/or the generic indices above are not considered appropriate, select 'Proprietary treatment system' or 'User defined indices' and enter component descriptions and agreed user defined indices in these rows:	Geotextile captures residual hydrocarbons and removes pollutants by biodegradation			
Aggregated Surface Water Pollution Mitigation Index		0.7	0.6	0.7

Is the runoff now discharged to an infiltration component?

Yes ? [Go to Step 2B](#)
No ? [Go to Step 2C](#)

STEP 2B: Determine the Pollution Mitigation Index for the proposed Groundwater Protection
 Type of groundwater protection that is either part of the SuDS component or lie between the component and groundwater

This step should be applied where a SuDS component is specifically designed to infiltrate runoff (note: in England and Wales this will include components that allow any amount of infiltration, however small, even where infiltration is not specifically accounted for in the design).
 'Groundwater protection' describes the proposed depth of soil or other material through which runoff will flow between the runoff surface and the underlying groundwater.
 Where the discharge is to surface waters and risks to groundwater need not be considered, select 'None'
 If the proposed groundwater protection is bespoke and/or a proprietary product and not generically described by the suggested measures, then a description of the protection and agreed user defined indices should be entered in the row below the drop down list.

Groundwater Pollution mitigation		Pollution Mitigation Indices		
		Total Suspended Solids	Metals	Hydrocarbons
Select type of groundwater protection from the drop down list:	None	0	0	0
bespoke/proprietary and/or the generic indices above are not considered appropriate, select 'Proprietary product' or 'User defined indices' and enter a description of the protection and agreed user defined indices in this row:				
Groundwater Protection Pollution Mitigation Index		0	0	0

STEP 2C: Determine the Combined Pollution Mitigation Indices for the Runoff Area

Combine the proposed SuDS Pollution Mitigation Indices with any Groundwater Protection Pollution Mitigation Indices
 Nb. Combined Mitigation indices are limited to max 0.95

Combined Pollution Mitigation Indices for the Runoff Area	0.7	0.6	0.7
---	-----	-----	-----

STEP 2D: Determine Sufficiency of Pollution Mitigation Indices for Selected SuDS Components

When the combined mitigation index exceeds the land use pollution hazard index, then the proposed components are considered sufficient in providing pollution risk mitigation.
 In England and Wales, where the discharge is to protected surface waters or groundwater, an additional treatment component (ie over and above that required for standard discharges), or other equivalent protection, is required that provides environmental protection in the event of an unexpected pollution event or poor system performance. Protected surface waters are those designated for drinking water abstraction.
 In England and Wales, protected groundwater resources are defined as Source Protection Zone 1.

Discharges to Protected Waters or SPZ 1		Sufficiency of Pollution Mitigation Indices		
		Total Suspended Solids	Metals	Hydrocarbons
Is the surface water designated for drinking water abstraction?	No	Sufficient	Sufficient	Sufficient
Is the groundwater discharge in Source Protection Zone 1?	No			

WATER QUALITY RISK MANAGEMENT: Design using Simple Index Approach (CIRIA SuDS Manual 2015)

Job Name:	Chicklade Services	Job No.	12718	By:	CJB
Element:	Staff access road run-off	Date:	29/11/2025	Chk:	
Site Address:	51.10926618566098, -2.1374827929736573	Link:	Click for Google Map		

SIMPLE INDEX APPROACH DESIGN

STEP 1: Determine the Pollution Hazard Index for the runoff area discharging to the proposed SuDS scheme
 Allocate suitable pollution hazard indices for the proposed land use

If the land use varies across the 'runoff area', either:

- use the land use type with the highest Pollution Hazard Index
- apply the approach for each of the land use types to determine whether the proposed SuDS design is sufficient for all.

If it is not, consider collecting more hazardous runoff separately and providing additional treatment.

If the generic land use types suggested are not applicable, select 'Other' and enter a description of the land use of the runoff area and agreed user defined indices in the row below the drop down lists.

		Pollution Hazard Indices			
		Pollution Hazard Level	Total Suspended Solids	Metals	Hydrocarbons
Select land use type from the drop down list (or 'Other' if none applicable):	Non-residential parking with infrequent change (e.g. schools, offices, < 300 traffic movements a day)	Low	0.5	0.4	0.4
If the generic land use types in the drop down list above are not applicable, select 'Other' and enter a description of the land use of the runoff area and agreed user defined indices in this row:					
	Land use Pollution Hazard Index	Low	0.5	0.4	0.4

STEP 2A: Determine the Pollution Mitigation Index for the proposed SuDS components

Select the proposed SuDS components that will be used to treat runoff - before it is discharged to a receiving surface waterbody or downstream infiltration component

If the runoff is discharged directly to an infiltration component, without upstream treatment, select 'None' for each of the 3 SuDS components and move [to Step 2B](#)

This step should be applied to evaluate the water quality protection provided by proposed SuDS components for discharges to receiving surface waters or downstream infiltration components (note: in England and Wales this will include components that allow any amount of infiltration, however small, even where infiltration is not specifically accounted for in the design).

If fewer than 3 components, select 'None' for the components that are not required

If the proposed component is bespoke and/or a proprietary treatment product and not generically described by the suggested components, then 'Proprietary treatment system' or 'User defined indices' should be selected and a description of the component and agreed user defined indices should be entered in the rows below the drop down lists

			Pollution Mitigation Indices		
			Total Suspended Solids	Metals	Hydrocarbons
Select SuDS Component 1 (i.e. the upstream SuDS component) from the drop down list:	User defined indices		0	0	0
Select SuDS Component 2 (i.e. the second SuDS component in a series) from the drop down list:	None		0	0	0
Select SuDS Component 3 (i.e. the third SuDS component in a series) from the drop down list:	None		0	0	0
If the proposed SuDS components are bespoke/proprietary and/or the generic indices above are not considered appropriate, select 'Proprietary treatment system' or 'User defined indices' and enter component descriptions and agreed user defined indices in these rows:	SPEL 210CI/ESR	SuDS Component 1	0.8	0.6	0.9
Aggregated Surface Water Pollution Mitigation Index			0.8	0.6	0.9

Is the runoff now discharged to an infiltration component?

Yes ? [Go to Step 2B](#)
 No ? [Go to Step 2C](#)

STEP 2B: Determine the Pollution Mitigation Index for the proposed Groundwater Protection

Type of groundwater protection that is either part of the SuDS component or lie between the component and groundwater

This step should be applied where a SuDS component is specifically designed to infiltrate runoff (note: in England and Wales this will include components that allow any amount of infiltration, however small, even where infiltration is not specifically accounted for in the design).

'Groundwater protection' describes the proposed depth of soil or other material through which runoff will flow between the runoff surface and the underlying groundwater.

Where the discharge is to surface waters and risks to groundwater need not be considered, select 'None'

If the proposed groundwater protection is bespoke and/or a proprietary product and not generically described by the suggested measures, then a description of the protection and agreed user defined indices should be entered in the row below the drop down list.

			Pollution Mitigation Indices		
			Total Suspended Solids	Metals	Hydrocarbons
	Groundwater Pollution mitigation				
Select type of groundwater protection from the drop down list:	None				
			0	0	0
bespoke/proprietary and/or the generic indices above are not considered appropriate, select 'Proprietary product' or 'User defined indices' and enter a description of the protection and agreed user defined indices in this row:					
	Groundwater Protection Pollution Mitigation Index		0	0	0

STEP 2C: Determine the Combined Pollution Mitigation Indices for the Runoff Area

Combine the proposed SuDS Pollution Mitigation Indices with any Groundwater Protection Pollution Mitigation Indices

Nb. Combined Mitigation indices are limited to max 0.95

Combined Pollution Mitigation Indices for the Runoff Area	0.8	0.6	0.9
---	-----	-----	-----

STEP 2D: Determine Sufficiency of Pollution Mitigation Indices for Selected SuDS Components

When the combined mitigation index exceeds the land use pollution hazard index, then the proposed components are considered sufficient in providing pollution risk mitigation.

In England and Wales, where the discharge is to protected surface waters or groundwater, an additional treatment component (ie over and above that required for standard discharges), or other equivalent protection, is required that provides environmental protection in the event of an unexpected pollution event or poor system performance. Protected surface waters are those designated for drinking water abstraction.

In England and Wales, protected groundwater resources are defined as Source Protection Zone 1.

		Sufficiency of Pollution Mitigation Indices		
		Total Suspended Solids	Metals	Hydrocarbons
Is the surface water designated for drinking water abstraction?	Discharges to Protected Waters or SPZ 1 No			
Is the groundwater discharge in Source Protection Zone 1?	No	Sufficient	Sufficient	Sufficient

WATER QUALITY RISK MANAGEMENT: Design using Simple Index Approach (CIRIA SuDS Manual 2015)

Job Name:	Chicklade Services	Job No.	12718	By:	CJB
Element:	Staff service area and Parking Bays run-off	Date:	29/11/2025	Chk:	
Site Address	51.10926618566098, -2.1374827929736573	Link:	Click for Google Map		

SIMPLE INDEX APPROACH DESIGN

STEP 1: Determine the Pollution Hazard Index for the runoff area discharging to the proposed SuDS scheme
Allocate suitable pollution hazard indices for the proposed land use

If the land use varies across the 'runoff area', either:

- use the land use type with the highest Pollution Hazard Index
- apply the approach for each of the land use types to determine whether the proposed SuDS design is sufficient for all.

If it is not, consider collecting more hazardous runoff separately and providing additional treatment.

If the generic land use types suggested are not applicable, select 'Other' and enter a description of the land use of the runoff area and agreed user defined indices in the row below the drop down lists.

Runoff Area Land Use Description	Pollution Hazard Level	Pollution Hazard Indices		
		Total Suspended Solids	Metals	Hydrocarbons
Select land use type from the drop down list (or 'Other' if none applicable): Non-residential parking with infrequent change (e.g. schools, offices, < 300 traffic movements a day)	Low	0.5	0.4	0.4
If the generic land use types in the drop down list above are not applicable, select 'Other' and enter a description of the land use of the runoff area and agreed user defined indices in this row:				
Land use Pollution Hazard Index	Low	0.5	0.4	0.4

STEP 2A: Determine the Pollution Mitigation Index for the proposed SuDS components

Select the proposed SuDS components that will be used to treat runoff - before it is discharged to a receiving surface waterbody or downstream infiltration component

If the runoff is discharged directly to an infiltration component, without upstream treatment, select 'None' for each of the 3 SuDS components and move [to Step 2B](#)

This step should be applied to evaluate the water quality protection provided by proposed SuDS components for discharges to receiving surface waters or downstream infiltration components (note: in England and Wales this will include components that allow any amount of infiltration, however small, even where infiltration is not specifically accounted for in the design).

If fewer than 3 components, select 'None' for the components that are not required

If the proposed component is bespoke and/or a proprietary treatment product and not generically described by the suggested components, then 'Proprietary treatment system' or 'User defined indices' should be selected and a description of the component and agreed user defined indices should be entered in the rows below the drop down lists

SuDS Component Description	Pollution Mitigation Indices	
		Total Suspended Solids
Select SuDS Component 1 (i.e. the upstream SuDS component) from the drop down list: Filter drain (where the trench is not designed as an infiltration component)	0.4 0.4 0.4	
Select SuDS Component 2 (i.e. the second SuDS component in a series) from the drop down list: None	0 0 0	
Select SuDS Component 3 (i.e. the third SuDS component in a series) from the drop down list: None	0 0 0	
If the proposed SuDS components are bespoke/proprietary and/or the generic indices above are not considered appropriate, select 'Proprietary treatment system' or 'User defined indices' and enter component descriptions and agreed user defined indices in these rows:		
Geotextile captures residual hydrocarbons and removes pollutants by biodegradation		
Aggregated Surface Water Pollution Mitigation Index	0.4 0.4 0.4	

Is the runoff now discharged to an infiltration component?
Yes ? [Go to Step 2B](#)
No ? [Go to Step 2C](#)

STEP 2B: Determine the Pollution Mitigation Index for the proposed Groundwater Protection

Type of groundwater protection that is either part of the SuDS component or lie between the component and groundwater

This step should be applied where a SuDS component is specifically designed to infiltrate runoff (note: in England and Wales this will include components that allow any amount of infiltration, however small, even where infiltration is not specifically accounted for in the design).

'Groundwater protection' describes the proposed depth of soil or other material through which runoff will flow between the runoff surface and the underlying groundwater.

Where the discharge is to surface waters and risks to groundwater need not be considered, select 'None'

If the proposed groundwater protection is bespoke and/or a proprietary product and not generically described by the suggested measures, then a description of the protection and agreed user defined indices should be entered in the row below the drop down list.

			Pollution Mitigation Indices		
			Total Suspended Solids	Metals	Hydrocarbons
Groundwater Pollution mitigation					
Select type of groundwater protection from the drop down list:	Infiltration trench with suitable depth of filtration material underlain by 300 mm minimum depth of soils with good contamination attenuation potential		0.4	0.4	0.4
bespoke/proprietary and/or the generic indices above are not considered appropriate, select 'Proprietary product' or 'User defined indices' and enter a description of the protection and agreed user defined indices in this row:					
Groundwater Protection Pollution Mitigation Index			0.4	0.4	0.4

STEP 2C: Determine the Combined Pollution Mitigation Indices for the Runoff Area

Combine the proposed SuDS Pollution Mitigation Indices with any Groundwater Protection Pollution Mitigation Indices

Nb. Combined Mitigation indices are limited to max 0.95

Combined Pollution Mitigation Indices for the Runoff Area	0.6	0.6	0.6
---	-----	-----	-----

STEP 2D: Determine Sufficiency of Pollution Mitigation Indices for Selected SuDS Components

When the combined mitigation index exceeds the land use pollution hazard index, then the proposed components are considered sufficient in providing pollution risk mitigation.

In England and Wales, where the discharge is to protected surface waters or groundwater, an additional treatment component (ie over and above that required for standard discharges), or other equivalent protection, is required that provides environmental protection in the event of an unexpected pollution event or poor system performance. Protected surface waters are those designated for drinking water abstraction. In England and Wales, protected groundwater resources are defined as Source Protection Zone 1.

		Sufficiency of Pollution Mitigation Indices		
		Total Suspended Solids	Metals	Hydrocarbons
Is the surface water designated for drinking water abstraction?	No			
Is the groundwater discharge in Source Protection Zone 1?	No	Sufficient	Sufficient	Sufficient