

CONSULTATION DRAFT North West SuDS Pro-forma

This pro-forma supports developers and regulators in **summarising and confirming** how surface water from a development will be managed sustainably under current and future conditions. It is required for any application which seeks planning permission for major development* and recommended to accompany minor applications.

It should be **completed in conjunction with ‘Completing your Pro Forma’ Guidance** and your sustainable drainage system should be designed in accordance with [CIRIA The SuDS Manual C753](#) and any necessary adoption standards. **Complete all white boxes and submit this pro-forma to the Local Planning Authority**, along with your supporting evidence.

The pro-forma follows the [National Planning Policy Framework](#), [House of Commons Written Statement \(HWSW 161\) on SuDS](#), [Planning Practice Guidance](#) and [Defra’s Technical Standards for Sustainable Drainage Systems](#). It is supported by the [Defra/EA Guidance on Rainfall Runoff Management](#) and can be completed using freely available tools such as [Tools for Sustainable Drainage Systems](#) or approved Industry Standard surface water management design software.

* (as defined in Section 2 of [Statutory Instrument 2015 No. 595](#)) or on sites of 0.5 hectares in Critical Drainage Areas.

Section 1: Development Details			
Planning Application Reference <i>(if available)</i>		Have you submitted a Flood Risk Assessment?	Yes <input type="checkbox"/> No <input type="checkbox"/>
Development Name		Have you submitted a Sustainable Drainage Strategy?	Yes <input type="checkbox"/> No <input type="checkbox"/>
Development Address <i>(including postcode)</i>		Expected Lifetime of Development <i>(years)</i> <i>Refer to Planning Practice Guidance “Flood Risk and Coastal Change” Paragraph 026</i>	
Developer(s) and Consultant(s) Names:		Type of Planning Application (✓)	Pre-Application <input type="checkbox"/>
Development Grid Reference	<i>Eastings</i>		Outline <input type="checkbox"/>
	<i>Northings</i>		Full <input type="checkbox"/>
Total Development Site Area (Ha)			Hybrid <input type="checkbox"/>
Area served by proposed sustainable drainage system (excluding open space) (Ha)*			Reserved Matters <input type="checkbox"/>
Development Type			
Greenfield Site <ul style="list-style-type: none"> Site is undeveloped and a new drainage system will be installed; OR Site is already developed and a new surface water drainage system will be installed to serve the new development. 			<input type="checkbox"/>
Previously Developed Site <i>(Consult your LLFA before selecting this option)</i> <ul style="list-style-type: none"> Site is already developed, and the <u>entirety</u> of the existing surface water drainage system will be used to serve the new development; OR 			<input type="checkbox"/>

- Where records of the previously developed system are not available so that the hydraulic characteristics of the system cannot be determined or where the drainage system is not in reasonable working order i.e. broken, blocked or no longer operational for other reasons, then one of the approaches outlined in Section 24.5 of the SuDS Manual 2015 (CIRIA 753) should be adopted.

Section 2: Impermeable Area and Existing Drainage

For outline or reserved matters applications, go to Section 3

	Existing (E)	Proposed (P)	Change (P – E)	Evidence Checklist	
State Impermeable Area (Ha)				Plans showing development layout of site with existing and proposed impermeable areas.	<input type="checkbox"/>
Conceptual Drainage Design				Plans showing: <ul style="list-style-type: none"> Existing and modified flow routes Current (if any) and proposed 'source control' and 'management train' locations of sustainable drainage components (C753 Chapter 7) <p><i>Note consideration should be given to manage surface water from both impermeable and permeable surfaces (including gardens and verges).</i></p>	<input type="checkbox"/>
Are there existing sewers, watercourses, water bodies, highway drains, soakaways or filter drains on the site?			Yes <input type="checkbox"/> No <input type="checkbox"/>	Plans showing existing layout to include all: <ul style="list-style-type: none"> Watercourses, open and culverted Water bodies – ponds, swales etc. Sewers, including manholes Highway drains, include manholes Infiltration features - soakaways, filter drains etc 	<input type="checkbox"/>

Section 3: Calculate Peak Discharge RATES – Technical Standards S2 and S3 (unless S1 applies)

Rainfall Event	Existing Rate (l/s)	Greenfield Rate (l/s)	Proposed Rate (l/s) <i>Previously developed sites must reduce discharge rates by a minimum of XX%</i>	Evidence Checklist		
Qbar				Methodology used to calculate peak discharge rate clearly stated and justified.	<input type="checkbox"/>	
1:1 Year Event					<input type="checkbox"/>	
1:30 Year Event					Impermeable areas plan, supported by topographical survey confirming positive drainage	<input type="checkbox"/>
1:100 Year Event					MicroDrainage (or similar) calculations	<input type="checkbox"/>

Section 4: Calculate Discharge <u>VOLUME</u> – Technical Standards S4, S5 and S6 (unless S1 applies)					
Rainfall Event	Existing Volume (m ³)	Greenfield Volume (m ³)	Proposed Volume (m ³)	Evidence Checklist	
1:100 Year 6 Hour Event				Methodology used to calculate discharge volume clearly stated and justified.	<input type="checkbox"/>
				MicroDrainage (or similar) calculations	

Section 5: Storage – Technical Standards S7 and S8			
Storage Details	Details	Evidence Checklist	
State climate change allowance used (%)		State / use in MicroDrainage (or similar)	<input type="checkbox"/>
State storage volume required (m ³) (excluding non-void spaces) <i>NOTE: MUST include an allowance for climate change (20 – 40%) and urban creep (XX%)</i>		Drainage plans showing location of attenuation and all flow control devices and supporting calculations	<input type="checkbox"/>
Summarise how storage will be provided for 1:30 year event on site. <i>Storage must be designed to ensure that at no flooding occurs onsite in a 1 in 30 year event except in designed areas and no flooding occurs offsite in a 1 in 100 year (+ climate change allowance) event.</i>		Plans showing size and location of storage and supporting calculations	<input type="checkbox"/>
Summarise how storage will be provided for 1:100 year (+ climate change) 6 hour event on site. <i>Where storage above the 1:30 year rainfall event is provided in designated areas designed to accommodate excess surface water volumes, plans showing storage locations and surface water depths and supported by MicroDrainage (or similar) calculations.</i>		Plans showing size and location of storage and supporting calculations	<input type="checkbox"/>

Section 6: Hierarchy of drainage options – Planning Practice Guidance

Surface Water Discharge Method	Proposed? Tick ALL that apply	If YES - Evidence Checklist	If NO - Evidence Checklist Tick ALL that apply
1. Into the ground (via infiltration)	Yes <input type="checkbox"/> No <input type="checkbox"/>	<input type="checkbox"/> Completed Infiltration Checklist from CIRIA The SuDS Manual C753 Appendix B <i>An editable version of this form is available on SusDrain website.</i>	<p><i>Note: in some cases desktop information can provide justification for point B and occasionally point A.</i></p> <input type="checkbox"/> A. Site investigation to show that the ground is not free draining (e.g. Soil Permeability Testing stating Percolation Coefficient, in accordance with BRE 365). <input type="checkbox"/> B. Evidence to show that infiltration to ground would result in a risk of deterioration to ground water quality <input type="checkbox"/> C. Visibility of Geotechnical advice which determines that infiltration of water to ground would pose an unacceptable risk of geohazards to the site and/or local area. AND <input type="checkbox"/> Statement providing justification in your Sustainable Drainage Strategy
2. Discharge to a surface waterbody <i>NOTE: Consent or Permit may be required – refer to guidance</i>	Yes <input type="checkbox"/> No <input type="checkbox"/> Water body <input type="checkbox"/> Main river <input type="checkbox"/> Ordinary watercourse <input type="checkbox"/> Canal <input type="checkbox"/>	<input type="checkbox"/> Surface waterbody survey/ report (within the site curtilage)	<input type="checkbox"/> Plan showing nearby watercourses and waterbodies AND <input type="checkbox"/> Statement providing justification in your Sustainable Drainage Strategy <i>Note: where third party land is cited as a barrier, you should provide visibility of discussions held to date with the riparian owner of the waterbody.</i>
3. Discharge to surface water sewer or highway drain	Yes <input type="checkbox"/> No <input type="checkbox"/> Surface water sewer <input type="checkbox"/> Highway drain <input type="checkbox"/>	<input type="checkbox"/> Written correspondence from Water and Sewerage Company/ Highway Authority regarding proposed connection.	<input type="checkbox"/> Plan showing nearby sewers AND <input type="checkbox"/> Statement providing justification in your Sustainable Drainage Strategy
4. Discharge to combined sewer	Yes <input type="checkbox"/> No <input type="checkbox"/>		

Section 7: Infiltration Proposals

Where ground conditions are not verified and you are proposing to discharge surface water to ground (via infiltration), you should consider an alternative 'Plan B' sustainable drainage design utilising an alternative discharge method, in case infiltration proposals are proven not feasible upon site specific ground investigation.

The alternative 'Plan B' design should demonstrate a residual level of infiltration, in the event of the assumed rate being slower. Therefore, priority should be given to roof and surface level Sustainable Drainage System (SuDS) components.

Is this section relevant to your development?

NOTE: This should correspond with the hierarchy options selected in Section 6

Yes – Complete Section 7

No – Continue to Section 8

Have you submitted an alternative 'Plan B' sustainable drainage design?

Yes

No

Evidence Checklist

'Plan B' conceptual sustainable drainage plans and statement of approach

Section 8: Water Quality Considerations – Technical Standard S13 and National Planning Policy Framework

Confirm Pollution Hazard Level Tick <u>ALL</u> that apply	Description <i>(refer to Pollution Hazard Indices for different Land Use Classifications in Table 26.2 of CIRIA The SuDS Manual C753 for further guidance)</i>		
VERY LOW	<input type="checkbox"/>	<ul style="list-style-type: none"> Residential roofs 	
LOW	<input type="checkbox"/>	<ul style="list-style-type: none"> Other roofs (typically commercial/industrial roofs) Individual property driveways, residential car parks, low traffic roads (e.g. cul de sacs, home-zones and general access roads) Non-residential car parking with infrequent change (e.g. schools, offices) i.e. < 300 traffic movements/day 	
MEDIUM	<input type="checkbox"/>	<ul style="list-style-type: none"> Commercial yard and delivery areas Non-residential car parking with frequent change (e.g. hospitals, retail) All roads except low traffic roads and trunk roads/motorways¹ 	
HIGH	<input type="checkbox"/>	<ul style="list-style-type: none"> Sites with heavy pollution (e.g. haulage yards, lorry parks, highly frequented lorry approaches to industrial estates, waste sites) Sites where chemicals and fuels (other than domestic fuel oil) are to be delivered, handled, stored, used or manufactured Industrial sites Trunk roads and motorways 	
Where parts of the development have a High and / or Medium pollution hazard potential, will the discharge require an Environmental Permit?			Yes <input type="checkbox"/> No <input type="checkbox"/>
Where an Environmental Permit is required, has pre-application advice been obtained from the Environment Agency?		If YES, provide details below	
		Yes <input type="checkbox"/> No <input type="checkbox"/>	
Does the selected SuDS component(s) have a total pollution mitigation index that equals or exceeds the pollution hazard index for discharges to surface or ground waters? <i>(Refer to Tables 26.3 and 26.4 of CIRIA SuDS Manual C753 for guidance)</i>			Yes <input type="checkbox"/> No <input type="checkbox"/> *
<i>* If the total pollution mitigation index of the SuDS component(s) is not equal to or greater than the pollution hazard index, the proposed scheme may pose an unacceptable risk of pollution to controlled waters and will not be acceptable</i>			

Section 9: Details of your proposed Sustainable Drainage System

Functions		Proposed?	If applicable, please provide a brief sentence to describe how		
Do your proposals store rainwater for later use (as a resource)?		Yes <input type="checkbox"/> No <input type="checkbox"/>			
Do your proposals allow surface water to soak into the ground and promote evapotranspiration?		Yes <input type="checkbox"/> No <input type="checkbox"/>			
Proposed SuDS Component Types					
Tick <u>ALL</u> that apply					
Within property boundary	Rainwater harvesting <input type="checkbox"/>	Green/ blue roofs <input type="checkbox"/>	Pervious pavements <input type="checkbox"/> [Type A <input type="checkbox"/> Type B <input type="checkbox"/> Type C <input type="checkbox"/>	Soakaway <input type="checkbox"/>	Bioretention systems <input type="checkbox"/>
	Infiltration system <input type="checkbox"/>	Surface level <input type="checkbox"/> Below ground <input type="checkbox"/>	Filter strips <input type="checkbox"/>	Filter drains <input type="checkbox"/>	Swales <input type="checkbox"/>
Within development site boundary (not property)	Bioretention systems <input type="checkbox"/>	Detention basins <input type="checkbox"/>	Ponds and wetlands <input type="checkbox"/>	Attenuation tanks <input type="checkbox"/>	Other (please state) <input type="checkbox"/>
Please confirm that the above selected components have been designed in accordance with CIRIA C753 (The SuDS Manual 2015)					Yes <input type="checkbox"/> No <input type="checkbox"/>
Please confirm that you have considered the management of flows resulting from rainfall in excess of a 1 in 100 year rainfall event and the exceedance routes in order to minimise the risks to people and property within the design of your Sustainable Drainage System					Yes <input type="checkbox"/> No <input type="checkbox"/>

Section 10: Operation and Maintenance – Technical Standard S12 and NPPF

The applicant is responsible to ensure that ALL components selected in Section 9 can be maintained for the design life of the development.

1. The applicant acknowledges that the maintenance and management of the sustainable drainage system will need to be secured in agreement with the Local Planning Authority via planning condition or planning obligation				<input type="checkbox"/>
2. A statement has been provided within your sustainable drainage strategy to confirm appropriate maintenance and management arrangements for;		Yes	No	Not applicable
• Sustainable drainage components that are within a proposed property boundary		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
• Sustainable drainage components that are within the development site boundary (but not the property boundary)		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Please select any of the adopting bodies that you will be offering your sustainable drainage components for adoption.	Water and Sewerage Company <i>Section 104 agreement (Water Industry Act 1991)</i>	<input type="checkbox"/>	Highway Authority <i>Section 38 agreement (Highways Act 1980)</i>	<input type="checkbox"/>
	Management company	<input type="checkbox"/>	Local Authority Public Open Space	<input type="checkbox"/>
For any surface level components, please advise how you intend to have the landscape maintained in accordance with any planning approved landscape management plan.				

Declaration and Submission

This pro-forma has been completed using evidence from information which has been submitted with my planning application.

The information submitted in the Sustainable Drainage Strategy and site-specific Flood Risk Assessment (FRA), where submitted, is proportionate to the site conditions, flood risks and magnitude of development and I agree that this information can be used as evidence to this sustainable drainage approach.

Submitter Details

Form <u>completed</u> by		Email Address	
		Daytime Telephone	
Form <u>signed off</u> by		Accreditation(s) and/or Qualification(s) of Signatory	
Date (dd/mm/yyyy)		Company	

Client Details

Name		Company	
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