

Appendix G – Suds Proforma

1. Project & Site Details	Project / Site Name (including sub-catchment / stage / phase where appropriate)	Brunel Walk Stage 3
	Address & post code	1-36 Brunel Walk. Tottenham, London N15 5HQ
	OS Grid ref. (Easting, Northing)	E 533110 N 189010
	LPA reference (if applicable)	
	Brief description of proposed work	Development proposals include the redevelopment of Brunel Walk to provide 46 new residential dwellings along with associated hard and soft landscape, and landscaping improvements to the Turner Avenue Estate.
	Total site Area	4564 m ²
	Total existing impervious area	2168 m ²
	Total proposed impervious area	2990 m ²
	Is the site in a surface water flood risk catchment (ref. local Surface Water Management Plan)?	No
	Existing drainage connection type and location	Existing FW connection to TWMH101M Existing SW between TWMH003 & 2901
	Designer Name	Luke Hornblow
	Designer Position	Civil Engineer
Designer Company	Meinhardt	

2. Proposed Discharge Arrangements	2a. Infiltration Feasibility		
	Superficial geology classification	No recorded superficial deposits	
	Bedrock geology classification	London Clay Formation.	
	Site infiltration rate	m/s	
	Depth to groundwater level	m below ground level	
	Is infiltration feasible?	No	
	2b. Drainage Hierarchy		
		Feasible (Y/N)	Proposed (Y/N)
	1 store rainwater for later use	Y	
	2 use infiltration techniques, such as porous surfaces in non-clay areas	N	
	3 attenuate rainwater in ponds or open water features for gradual release	N	
	4 attenuate rainwater by storing in tanks or sealed water features for gradual release		Y
	5 discharge rainwater direct to a watercourse	N	
	6 discharge rainwater to a surface water sewer/drain		Y
	7 discharge rainwater to the combined sewer.	N	
	2c. Proposed Discharge Details		
Proposed discharge location	Thames Water Manhole Ref: 2901		
Has the owner/regulator of the discharge location been consulted?	Yes		

3. Drainage Strategy	3a. Discharge Rates & Required Storage				
		Greenfield (GF) runoff rate (l/s)	Existing discharge rate (l/s)	Required storage for GF rate (m ³)	Proposed discharge rate (l/s)
	Q _{bar}	1.79			
	1 in 1	1.52	31.9		2.5
	1 in 30	4.12	95.9		2.5
	1 in 100	5.71	126.5		2.5
	1 in 100 + CC			288	2.5
	Climate change allowance used		40%		
	3b. Principal Method of Flow Control		Hydrobrake		
	3c. Proposed SuDS Measures				
		Catchment area (m ²)	Plan area (m ²)	Storage vol. (m ³)	
	Rainwater harvesting	0		0	
	Infiltration systems	0		0	
	Green roofs	916	916	0	
	Blue roofs	0	0	0	
	Filter strips	0	0	0	
	Filter drains	0	0	0	
Bioretention / tree pits	0	0	0		
Pervious pavements	0	0	0		
Swales	0	0	0		
Basins/ponds	0	0	0		
Attenuation tanks	2999		241		
Total	3915	916	241		

4. Supporting Information	4a. Discharge & Drainage Strategy	Page/section of drainage report
	Infiltration feasibility (2a) – geotechnical factual and interpretive reports, including infiltration results	Section 2.2, 4.4.1 & 4.4.2 of Drainage Strategy Report
	Drainage hierarchy (2b)	Section 4.4 & 6
	Proposed discharge details (2c) – utility plans, correspondence / approval from owner/regulator of discharge location	Appendix C approval from TW
	Discharge rates & storage (3a) – detailed hydrologic and hydraulic calculations	Section 4.3.3 & Appendix E
	Proposed SuDS measures & specifications (3b)	At later design stage
	4b. Other Supporting Details	Page/section of drainage report
	Detailed Development Layout	Appendix D
	Detailed drainage design drawings, including exceedance flow routes	Appendix A
	Detailed landscaping plans	Appendix D
	Maintenance strategy	Section 4.5
	Demonstration of how the proposed SuDS measures improve:	
	a) water quality of the runoff?	At later design stage
	b) biodiversity?	At later design stage
	c) amenity?	At later design stage