

1. Project & Site Details	Project / Site Name (including sub-catchment / stage / phase where appropriate)	SOLD- Thames Young Mariners
	Address & post code	Thames Young Mariners, Riverside Drive, Ham, London Borough of Richmond upon Thames, London, Greater London, England, TW10 7RX, United Kingdom
	OS Grid ref. (Easting, Northing)	E 516397
		N 172304
	LPA reference (if applicable)	
	Brief description of proposed work	The proposed scheme is to demolish the existing buildings and re-build new structures comprising a main building, 3 guest residential building and a changing block to provide modern, fit for purpose facilities that meet current H&S
	Total site Area	37200 m ²
	Total existing impervious area	4488.953 m ²
	Total proposed impervious area	4340 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 drainage system comprises of a combined sewer to the south east.
	Designer Name	Ayushi Gupta
	Designer Position	Graduate Engineer
Designer Company	Atkins	

2. Proposed Discharge Arrangements	2a. Infiltration Feasibility		
	Superficial geology classification	Kempton Park gravel. Granular and can support local groundwater	
	Bedrock geology classification	London Clay Formation	
	Site infiltration rate	0.00199	m/s
	Depth to groundwater level	4	m below ground level
	Is infiltration feasible?	Y	
	2b. Drainage Hierarchy		
		<i>Feasible (Y/N)</i>	<i>Proposed (Y/N)</i>
	1 store rainwater for later use	N	N
	2 use infiltration techniques, such as porous surfaces in non-clay areas	Y	Y
	3 attenuate rainwater in ponds or open water features for gradual release	Y	Y
	4 attenuate rainwater by storing in tanks or sealed water features for gradual release	Y	Y
	5 discharge rainwater direct to a watercourse	N	N
	6 discharge rainwater to a surface water sewer/drain	Y	N
	7 discharge rainwater to the combined sewer.	Y	N
2c. Proposed Discharge Details			
Proposed discharge location	To the locked Lake connected to Thames River on the west.		
Has the owner/regulator of the discharge location been consulted?	No		

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)
Qbar	1.01			
1 in 1	0.85	NA	86	0.7
1 in 30	2.28	NA	162	0.8
1 in 100	3.22	NA	204	1
1 in 100 + CC			304	1
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	3580		72.7	
Green roofs	0	0	0	
Blue roofs	0	0	0	
Filter strips	0	0	0	
Filter drains	0	0	0	
Bioretention / tree pits	500	110	17	
Pervious pavements	1270	270	94.5	
Swales	0	0	0	
Basins/ponds	1290	235.1	149.7	
Attenuation tanks	0		0	
Total	6640	615.1	333.9	

4a. Discharge & Drainage Strategy		Page/section of drainage report
Infiltration feasibility (2a) – geotechnical factual and interpretive reports, including infiltration results		Section 2.4
Drainage hierarchy (2b)		Section 3.3
Proposed discharge details (2c) – utility plans, correspondence / approval from owner/regulator of discharge location		Section 3.3.6
Discharge rates & storage (3a) – detailed hydrologic and hydraulic calculations		Section 3.3
Proposed SuDS measures & specifications (3b)		section 3.3.3
4b. Other Supporting Details		Page/section of drainage report
Detailed Development Layout		Appendix C
Detailed drainage design drawings, including exceedance flow routes		Appendix C
Detailed landscaping plans		Appendix C
Maintenance strategy		Section 4
Demonstration of how the proposed SuDS measures improve:		
a) water quality of the runoff?		section 3.3.5
b) biodiversity?		section 3.3.8
c) amenity?		section 3.3.8