

1. Project & Site Details	Project / Site Name (including sub-catchment / stage / phase where appropriate)	Shurgard Hampton
	Address & post code	74 Oldfield Road, Hampton, London, TW12 2HR
	OS Grid ref. (Easting, Northing)	E 513140
		N 169763
	LPA reference (if applicable)	
	Brief description of proposed work	Demolition of existing buildings and the construction of a new self-storage facility (use class B8)
	Total site Area	3120 m <sup>2</sup>
	Total existing impervious area	2795 m <sup>2</sup>
	Total proposed impervious area	2627 m <sup>2</sup>
	Is the site in a surface water flood risk catchment (ref. local Surface Water Management Plan)?	No. Refer to FRA (31569-HYD-XX-XX-RP-WENV-0001) section 3.2 for details.
	Existing drainage connection type and location	Combined Thames Water sewer located beneath Oldfield Road
	Designer Name	Vancho Karatanov
	Designer Position	Principal Engineer
Designer Company	Hydrock Consultants Ltd	

2. Proposed Discharge Arrangements	<b>2a. Infiltration Feasibility</b>		
	Superficial geology classification	Taplow Gravel Member	
	Bedrock geology classification	London Clay Formation	
	Site infiltration rate	Infiltration testing not completed	
	Depth to groundwater level	0.88 - 12.00 m below ground level	
	Is infiltration feasible?	Potentially - infiltration testing not completed	
	<b>2b. Drainage Hierarchy</b>		
		<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	N	N
	3 attenuate rainwater in ponds or open water features for gradual release	N	N
	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	N	N
	7 discharge rainwater to the combined sewer.	Y	Y
	<b>2c. Proposed Discharge Details</b>		
	Proposed discharge location	225mm Thames Water surface water sewer located beneath Oldfield Road	
Has the owner/regulator of the discharge location been consulted?	Pre development enquiry with Thames Water still to be undertaken.		

3a. Discharge Rates & Required Storage				
	Greenfield (GF) runoff rate (l/s)	Existing discharge rate (l/s)	Required storage for GF rate (m <sup>3</sup> )	Proposed discharge rate (l/s)
Q <sub>bar</sub>	0.91	<del>36.9</del>	<del>61</del>	<del>2</del>
1 in 1	0.78	36.9		2
1 in 30	2.1	48.6	61	2
1 in 100	2.91	48.9		2
1 in 100 + CC	<del>3.1</del>	<del>49.1</del>	129	2
Climate change allowance used		40%		
3b. Principal Method of Flow Control		Pump limited to 2l/s discharge rate		
3c. Proposed SuDS Measures				
	Catchment area (m <sup>2</sup> )	Plan area (m <sup>2</sup> )	Storage vol. (m <sup>3</sup> )	
Rainwater harvesting	0	<del>0</del>	0	
Infiltration systems	0	<del>0</del>	0	
Green roofs	0	0	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	2882	<del>0</del>	194	
<b>Total</b>	<b>2882</b>	<b>0</b>	<b>194</b>	

4a. Discharge & Drainage Strategy		Page/section of drainage report
Infiltration feasibility (2a) – geotechnical factual and interpretive reports, including infiltration results		Groundwater testing has not been carried out. Refer to report CO/M5478/12423 dated September 2023 by Brownfield Solutions LTD.
Drainage hierarchy (2b)		Section 4.4.1 (pg. 9)
Proposed discharge details (2c) – utility plans, correspondence / approval from owner/regulator of discharge location		Appendix B (pg. 23) & Appendix C (pg. 24)
Discharge rates & storage (3a) – detailed hydrologic and hydraulic calculations		Appendix I (pg. 30)
Proposed SuDS measures & specifications (3b)		Section 5.3 (pg. 11-14)
4b. Other Supporting Details		Page/section of drainage report
Detailed Development Layout		Appendix A (pg. 22)
Detailed drainage design drawings, including exceedance flow routes		Appendix G (pg. 28) & Appendix H (pg. 29)
Detailed landscaping plans		Appendix A (pg. 22)
Maintenance strategy		Section 7 (pg. 16-18)
Demonstration of how the proposed SuDS measures improve:		
a) water quality of the runoff?		Section 5.5 (pg. 13-14)
b) biodiversity?		N/A
c) amenity?		N/A