ENFIELD Council

GREATER LONDON AUTHORITY

LoDEG

1. Project & Site Details

Project / Site Name (including sub-catchment / stage / phase where appropriate)	10 Pickett's Lock Lane
Address & post code	10 Pickett's Lock Lane, London, N9 0AY
OS Grid ref. (Easting, Northing)	E 535734
	N 193956
LPA reference (if applicable)	N/A
Brief description of proposed work	Proposal for a detached new-build family dwelling-house
Total site Area	682 m^2
Total existing impervious area	89 m^2
Total proposed impervious area	217 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	None
Designer Name	
Designer Position	
Designer Company	

2. Proposed Discharge Arrangements

2a. Infiltration Feasibility

Superficial geology classification	Kempton Park Gravel Member - Sand and gravel
Bedrock geology classification	London Clay Formation - Clay, silt and sand
Site infiltration rate	Unknown m/s
Depth to groundwater level	Unknown m below ground level
Is infiltration feasible?	No

2b. Drainage Hierarchy

	Feasible (Y/N)	*Proposed (Y/N)*
1 store rainwater for later use	Y	Y
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	N	N
5 discharge rainwater direct to a watercourse	N	N
6 discharge rainwater to a surface water sewer/drain	Y	Y
7 discharge rainwater to the combined sewer.	N	N

2c. Proposed Discharge Details

Proposed discharge location	Surface water sewer
Has the owner/regulator of the discharge location been consulted?	Unknown

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)*
Qbar	0.16			
1 in 1	0.13		0.85	1
1 in 30	0.36		2.3	1
1 in 100	0.5		3.19	1
1 in 100 + CC				1
Climate change allowance used		40%		
3b. Principal Method of Flow Control		Detention basins or similar flow control facility		

3c. Proposed SuDS Measures

	Catchment area (m^2)	*Plan area (m^3)*	*Storage vol. (m^3)*
Rainwater harvesting	0		0.54
Infiltration systems	0		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	143	0	0
Swales	0	0	0
Basins/ponds	0	0	0
Attenuation tanks	0		0
Total	**143**	**0**	**0.54**

4. Supporting Information

4a. Discharge & Drainage Strategy	*Page/section of drainage report*
Infiltration feasibility (2a) – geotechnical factual and interpretive reports, including infiltration results	Refer to flood report
Drainage hierarchy (2b)	Refer to flood report
Proposed discharge details (2c) – utility plans, correspondence / approval from owner/regulator of discharge location	N/A
Discharge rates & storage (3a) – detailed hydrologic and hydraulic calculations	Refer to flood report
Proposed SuDS measures & specifications (3b)	Refer to flood report
4b. Other Supporting Details	*Page/section of drainage report*
Detailed Development Layout	Accompanying documentation
Detailed drainage design drawings, including exceedance flow routes	
Detailed landscaping plans	Accompanying documentation
Maintenance strategy	
Demonstration of how the proposed SuDS measures improve:	
a) water quality of the runoff?	Permeable paving
b) biodiversity?	Rainwater haversting butt
c) amenity?	Rainwater haversting butt