## Print

## Close Report



michael keogh

Calculated by:

## Surface water storage requirements for sites

www.uksuds.com | Storage estimation tool

Site Details

				Latitude:			53.26809° N				
Site name:	Ellensborough Copse			-			6.37488° W				
Site location:		oad Tallaght			Longitude:			6.3	3/488° W		
This is an estimation of the storage volume requirements that are needed to meet non-best practice criteria in line with Environment Agency guidance "Rainfall runoff manage for developments", SC030219 (2013), the SuDS Manual C753 (Ciria, 2015) and								2309683724			
the non-statutory star	ndards for SuD	S (Defra, 2015). It is not to be u	ised for detailed de		Date:		Aug 17 2022 13:28				
		ded that hydraulic modelling so tails before finalising the design									
Site characteris	stics			Methodo	logy						
Total site area (ha):			0.02	esti IH124							
Significant public open space (ha):			0	Q <sub>BAR</sub> estin	d: Ca	alculate from SPR and SAAR					
Area positively drained (ha):			0.02	SPR estimation method: Calculate from SOIL t					L type		
Impermeable area (ha):			0.02	Soil characteristics Default					ited		
Percentage of drained area that is impermeable (%):			100	SOIL type:		2		2			
Impervious area d	rained via int	iltration (ha):	0	SPR: 0.3			0.3				
Return period for infiltration system design (year):			10	Hydrological Default					Edited		
Impervious area drained to rainwater harvesting (ha):			0	characteristics							
Return period for rainwater harvesting system (year):			10	Rainfall 100 yrs 6 hrs:   Rainfall 100 yrs 12 hrs:   FEH / FSR conversion factor:					71		
Compliance factor for rainwater harvesting system (%):			66						91		
Net site area for storage volume design (ha):			0.02				1		1		
Net impermable area for storage volume design (ha):			0.02	SAAR (mm):			1067		1067		
Pervious area contribution to runoff (%):			30	M5-60 Rainfall Depth (mm):			17		17		
$^\star$ where rainwater harvesting or infiltration has been used surface water runoff such that the effective impermeable than 50% of the 'area positively drained', the 'net site are estimates of $Q_{\text{BAR}}$ and other flow rates will have been recaccordingly.			d for managing	'r' Ratio M5-60/M5-2 day:		ay:	0.2		0.2		
			area is less	Hydological region:			12		12		
				Growth curve factor 1 year:		ear:	0.85		0.85		
				Growth curve factor 10 year:		year:	1.72		1.72		
Design criteria	1			Growth cu	rve factor 30	year:	2.13	]	2.13		
Climate change al factor:	lowance	1.4		Growth cu years:	rve factor 100	)	2.61		2.61		
Urban creep allow factor:	ance	1.1		Q <sub>BAR</sub> for to	otal site area (	l/s):	0.06		0.06		
			2 1/a/ba or	Q <sub>BAR</sub> for net site area (l/s):		s):	0.06		0.06		
	•	Flow control to max of 2 Obar 5	∠ I/S/Na Of	ĺ							
Interception rainfa (mm):	ıı aeptn	5									
Minimum flow rate	e (I/s):	2									

Site discharge rates	Default	Edited	Estimated storage volumes	Default	Edited	
1 in 1 year (l/s):	2	2	Attenuation storage 1/100 years (m³):	0	0	
1 in 30 years (l/s):	2	2	Long term storage 1/100 years (m³):	0	0	
1 in 100 year (l/s):	2	2	Total storage 1/100 years (m³):	0	0	

This report was produced using the storage estimation tool developed by HRWallingford and available at www.uksuds.com. The use of this tool is subject to the UK SuDS terms and conditions and licence agreement, which can both be found at http://uksuds.com/terms-and-conditions.htm. The outputs from this tool have been used to estimate storage volume requirements. The use of these results is the responsibility of the users of this tool. No liability will be accepted by HR Wallingford, the Environment Agency, CEH, Hydrosolutions or any other organisation for the use of these data in the design or operational characteristics of any drainage scheme.