Greenfield Runoff Estimation for Sites

Site name: aldershot autos
Site location: former works site
Site coordinates
Latitude: 51.27212 deg N
Longitude: 0.73266 deg W

Reference: 1350050436602
Date: 12/10/2012

This is an estimation of the greenfield runoff rate limits that are needed to meet normal best practice criteria in line with Environment Agency guidance "Preliminary rainfall runoff management for developments" (2005), W5-074/A/TR1/1 rev. D and the CIRIA SUDS Manual (2007). It is not to be used for detailed design of drainage systems. It is recommended that detailed design of any drainage scheme uses hydraulic modelling software to finalise runoff requirements before construction takes place.

- **Site Characteristics:**

Total site area	2.4	ha
Significant public open space	0	ha
Area positively drained	2.4	ha

- **Methodology:**

Greenfield runoff method	IH 124

Hydrological Characteristics:	**Automatic values**	**Editable values**	
HOST	9	9	
SPRHOST	0.253	0.253	%
SAAR	704	704	mm
M5-60 Rainfall Depth	20	20	mm
'r' Ratio M5-60/M5-2 day	0.4	0.4	
FEH/FSR conversion factor	0.84	0.84	
Hydrological region	6	6	
Growth curve factor: 1 year	0.85	0.85	
Growth curve factor: 30 year	2.3	2.3	
Growth curve factor: 100 year	3.19	3.19	

- **Greenfield Runoff Rates:**

Qbar	**3.04**	**3.04**	l/s
1 in 1 year	**5**	**5**	l/s
1 in 30 years	**7**	**7**	l/s
1 in 100 years	**9.7**	**9.7**	l/s

Please note that a minimum flow of 5 l/s applies to any site

HR Wallingford Ltd, the Environment Agency and any local authority are not liable for the performance of a drainage scheme which is based upon the output of this report.