

FACTOR	VALUE	SOURCE
Return Period (yrs):	100	Environment Agency, Water Authority, etc.
Limiting Discharge (l/s):	0	Environment Agency, Water Authority, etc.
Contributing Area (ha):	0.4845	Site plans
Impervious, PIMP (%):	50	Site plans
M5-60min (mm):	20	Volume 3 maps and site location
SAAR (mm/yr):	640	Volume 3 maps and site location
Ratio, r:	0.4	Volume 3 maps and site location
Soil Type:	4	Volume 3 maps and site location
SOIL:	0.45	Soil Type and Volume 1, Section 7.4
UCWI:	62	SAAR and Volume 1, Figure 9.7
Calculated PR	36.85	
Percentage Runoff =	36.85	

FACTOR	VALUE
Additional Inflow (l/s):	0
Calculate/Specify PR:	Calculate
Specify PR:	100
Climate Change Allowance	0

Storage available within cut-off ditch with average dimensions 60m length x 1.0m width x 0.5m depth = 30m³.
Adequate storage to accommodate a 1 in 100 year 5 minute rainfall event with no outflow, however events of a greater magnitude will require an outflow.

Duration, D (min)	M5-60 (mm)	Z1 for r=0.40	M5-D (mm)	Z2 for M100	M100-D (mm)	incl climate change	Area C (ha)	PR (%)	Runoff (m3)	Add. Runoff (m3)	Total Runoff (m3)	Limiting Discharge (m3/min)	Limiting Runoff (m3)	Storage Required (m3)
5	20	0.38	7.6	1.86	14.2	14.2	0.48	37	25.3	0.0	25.3	0.00	0.0	25.3
10	20	0.54	10.8	1.93	20.8	20.8	0.48	37	37.1	0.0	37.1	0.00	0.0	37.1
15	20	0.63	12.6	1.96	24.7	24.7	0.48	37	44.0	0.0	44.0	0.00	0.0	44.0
30	20	0.80	16.0	2.00	32.0	32.0	0.48	37	57.1	0.0	57.1	0.00	0.0	57.1
60	20	1.00	20.0	2.03	40.6	40.6	0.48	37	72.5	0.0	72.5	0.00	0.0	72.5
120	20	1.20	24.0	2.01	48.3	48.3	0.48	37	86.3	0.0	86.3	0.00	0.0	86.3
240	20	1.46	29.2	1.98	57.8	57.8	0.48	37	103.1	0.0	103.1	0.00	0.0	103.1
360	20	1.60	32.0	1.95	62.5	62.5	0.48	37	111.6	0.0	111.6	0.00	0.0	111.6
480	20	1.70	34.0	1.94	65.9	65.9	0.48	37	117.6	0.0	117.6	0.00	0.0	117.6
600	20	1.83	36.6	1.91	70.1	70.1	0.48	37	125.1	0.0	125.1	0.00	0.0	125.1
720	20	1.85	37.0	1.91	70.8	70.8	0.48	37	126.4	0.0	126.4	0.00	0.0	126.4
840	20	1.90	38.0	1.91	72.4	72.4	0.48	37	129.3	0.0	129.3	0.00	0.0	129.3
1440	20	2.28	45.6	1.84	84.0	84.0	0.48	37	150.0	0.0	150.0	0.00	0.0	150.0
2880	20	2.70	54.0	1.78	96.3	96.3	0.48	37	171.9	0.0	171.9	0.00	0.0	171.9