

Modified Rational Method

Length (m)	20	m
Area (ha)	0.008	Ha
Max Height	100.5	mAOD
Min Height	100.0	mAOD
DeltaH	0.5	
Slope (%)	2.50	
Te (mins)	8.62	mins
ARF	0.999	
SAAR	576.000	mm
UCWI	70	mm
PIMP	100.0	%
SOIL	0.50	
Percentage Runoff PR	80.16	
DEEPSTOR	0.46	

Cv	0.8016
Cr	1.3
allowable outflow	
1 year	1.03 l/s

		Return Period	flood	1	years				
		Post Development	Rainfall	2	years				
Rainfall Duration (hours)	Rainfall Duration (days)	Rainfall Depth (mm)	Effective Depth (mm)	Rainfall Intensity (mm/hr)	FLOW (l/s)	FLOW (l/s/ha)			
0.15	0.006	6.9	7.2	46.0	1.0	133.3			
0.25	0.010	8.22	8.6	32.9	0.7	95.3			
0.5	0.021	10.52	11.0	21.0	0.5	61.0			
0.75	0.031	12.13	12.6	16.2	0.4	46.9			
1	0.042	13.42	14.0	13.4	0.3	38.9			
1.25	0.052	14.51	15.1	11.6	0.3	33.6			
1.5	0.063	15.46	16.1	10.3	0.2	29.9			
1.75	0.073	16.31	17.0	9.3	0.2	27.0			
2	0.083	17.09	17.8	8.5	0.2	24.8			
2.25	0.094	17.8	18.5	7.9	0.2	22.9			
2.5	0.104	18.46	19.2	7.4	0.2	21.4			
2.75	0.115	19.08	19.9	6.9	0.2	20.1			
3	0.125	19.67	20.5	6.6	0.1	19.0			
3.25	0.135	20.22	21.1	6.2	0.1	18.0			
3.5	0.146	20.74	21.6	5.9	0.1	17.2			
3.75	0.156	21.24	22.1	5.7	0.1	16.4			
4	0.167	21.72	22.6	5.4	0.1	15.7			
4.25	0.177	22.18	23.1	5.2	0.1	15.1			

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Slope (%)	2.50	
Te (mins)	8.62	mins
ARF	0.999	
SAAR	576.000	mm
UCWI	70	mm
PIMP	100.0	%
SOIL	0.50	
Percentage Runoff PR	80.16	
DEEPSTOR	0.46	

Cv	0.8016
Cr	1.3
allowable outflow	
30 year	3.12 l/s

Return Period		flood	30	years		
Post Development		Rainfall	50	years		
Rainfall Duration (hours)	Rainfall Duration (days)	Rainfall Depth (mm)	Effective Depth (mm)	Rainfall Intensity (mm/hr)	FLOW (l/s)	FLOW (l/s/ha)
0.15	0.006	21	21.9	140.0	3.1	405.6
0.25	0.010	26.8	27.9	107.2	2.4	310.6
0.5	0.021	32.34	33.7	64.7	1.4	187.4
0.75	0.031	36.04	37.6	48.1	1.1	139.2
1	0.042	38.9	40.5	38.9	0.9	112.7
1.25	0.052	41.27	43.0	33.0	0.7	95.6
1.5	0.063	43.3	45.1	28.9	0.6	83.6
1.75	0.073	45.09	47.0	25.8	0.6	74.6
2	0.083	46.7	48.7	23.4	0.5	67.6
2.25	0.094	48.17	50.2	21.4	0.5	62.0
2.5	0.104	49.51	51.6	19.8	0.4	57.4
2.75	0.115	50.76	52.9	18.5	0.4	53.5
3	0.125	51.93	54.1	17.3	0.4	50.1
3.25	0.135	53.03	55.3	16.3	0.4	47.3
3.5	0.146	54.06	56.3	15.4	0.3	44.7
3.75	0.156	55.04	57.4	14.7	0.3	42.5
4	0.167	55.97	58.3	14.0	0.3	40.5
4.25	0.177	56.86	59.3	13.4	0.3	38.8

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DeltaH	0.5	
Slope (%)	2.50	
Te (mins)	8.62	mins
ARF	0.999	
SAAR	576.000	mm
UCWI	70	mm
PIMP	100.0	%
SOIL	0.50	
Percentage Runoff PR	80.16	
DEEPSTOR	0.46	

Cv	0.8016
Cr	1.3
allowable outflow	
100 year	4.68 l/s

		Return Period	flood	100	years		
Post Development		Rainfall	140	years			
Rainfall Duration (hours)	Rainfall Duration (days)	Rainfall Depth (mm)	Effective Depth (mm)	Rainfall Intensity (mm/hr)	FLOW (l/s)	FLOW (l/s/ha)	
0.15	0.006	31.5	32.8	210.0	4.7	608.4	
0.25	0.010	37.9	39.5	151.6	3.4	439.2	
0.5	0.021	44.94	46.8	89.9	2.0	260.4	
0.75	0.031	49.58	51.7	66.1	1.5	191.5	
1	0.042	53.14	55.4	53.1	1.2	153.9	
1.25	0.052	56.06	58.4	44.8	1.0	129.9	
1.5	0.063	58.55	61.0	39.0	0.9	113.1	
1.75	0.073	60.74	63.3	34.7	0.8	100.6	
2	0.083	62.7	65.3	31.4	0.7	90.8	
2.25	0.094	64.48	67.2	28.7	0.6	83.0	
2.5	0.104	66.11	68.9	26.4	0.6	76.6	
2.75	0.115	67.62	70.5	24.6	0.5	71.2	
3	0.125	69.02	71.9	23.0	0.5	66.6	
3.25	0.135	70.34	73.3	21.6	0.5	62.7	
3.5	0.146	71.58	74.6	20.5	0.5	59.2	
3.75	0.156	72.75	75.8	19.4	0.4	56.2	
4	0.167	73.87	77.0	18.5	0.4	53.5	
4.25	0.177	74.93	78.1	17.6	0.4	51.1	