

# MULHALL CONSULTING

Project: 46 Heatherview Road, Dublin 24

Job No.: 2063

Page No.: 1

Date: 17/11/2020

Calcd by: PM

Checked by: PM

Roof Area: 109 m<sup>2</sup> Tank Area: 3.75 m<sup>2</sup> Paved Area: 0 m<sup>2</sup>

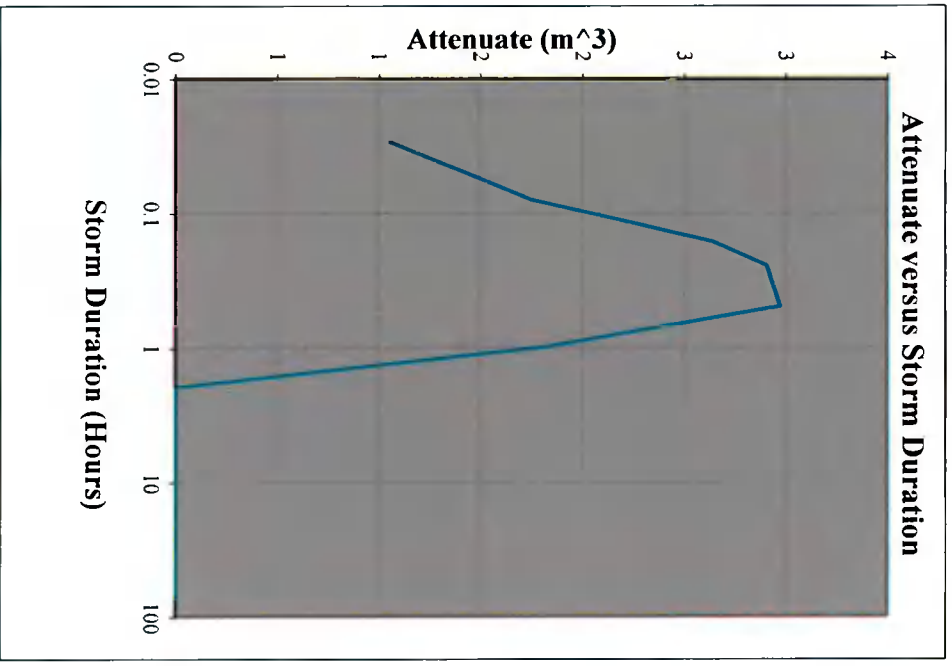
Equivalent Impermeable Area:

112.75 m<sup>2</sup>

Attenuated Flow Rate: 1 l/s

Factors: Climate Change: 1.3 Simplification of Head/Discharge Relationship: 1.25 Hydrobrake

Storm Duration (Hours)	Rainfall (mm)	Total Surface Water (m <sup>3</sup> )	Allowable Discharge (m <sup>3</sup> )	Attenuate (m <sup>3</sup> )
0.03	8.45	0.95	0.108	1.06
0.08	14.95	1.69	0.288	1.75
0.166	24.05	2.71	0.5976	2.64
0.25	28.60	3.22	0.9	2.91
0.50	37.05	4.18	1.8	2.97
1.00	44.85	5.06	3.6	1.82
2.00	54.60	6.16	7.2	0.00
4.00	65.65	7.40	14.4	0.00
6.00	77.35	8.72	21.6	0.00
12.00	93.60	10.55	43.2	0.00
24.00	113.10	12.75	86.4	0.00
48.00	131.30	14.80	172.8	0.00
72.00	144.30	16.27	259.2	0.00



Note: This spreadsheet calculates the Volume of Attenuate based on a Return Period of: 100 years.