

TITLE	Job Reference	Revision No.	Calculations by	Date
Housing Development, Tyrrels Land, Portlaoise	23KK001	P1	TD	26.02.24.
	Drawing No.	Status	Checked by	
	C-015	Stage 1	NP	

Site - Catchment 1	Area (m ²)	Area (hectares)	Percentage Drained
Total Site Area	4582	0.4582	--
Roof Area	520	0.0520	80%
Road Area	690	0.0690	80%
Road Parking Area	0	0.0000	80%
In-Curtlidge Parking Area	200	0.0200	40%
Open Area	3172	0.3172	0%

Site Rev C 09/11/23

Allowable Outflow2Litres/second

Rainfall Intensity Records for
Tyrrels Land, Portlaoise

Duration	Rainfall	Intensity	Rainfall	Proposed Runoff		Total Runoff	Allowable Outflow	Storage Req'd
(min)	(mm)	(mm/hr)	(m ³ /ha)	(m ³)		(m ³)	(m ³)	(m ³)
15	20.2	80.80	202	21		21	1	20
30	24.9	49.80	249	26		26	2	24
60	30.7	30.70	307	32		32	3	29
120	37.8	18.90	378	40		40	7	33
240	46.5	11.63	465	49		49	13	36
360	52.5	8.75	525	55		55	20	35
720	64.7	5.39	647	68		68	40	28
1440	79.7	3.32	797	84		84	79	4
2880	89.6	1.87	896	94		94	158	-64

Met Eireann 14/04/23

Maximum Storage
Volume Required46m³(Including a 30% Provision for Climate Change)