Project:	Date:		
Longhedge	29/02/2024		
	Designed by:	Checked by:	Approved By:
	Matt TE	Chris H	
Report Details:	Company Address:		
Type: Inflows Storm Phase: Phase			

Catchment Area

Type : Catchment Area

Area (ha)	0.085

Preliminary Sizing

Volumetric Runoff Coefficient	0.750
Percentage Impervious (%)	100
Time of Concentration (mins)	5

Dynamic Sizing

Runoff Method	Time of Concentration
Summer Volumetric Runoff	0.750
Winter Volumetric Runoff	0.840
Time of Concentration (mins)	5
Percentage Impervious (%)	100

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Type: Stormwater Controls Storm Phase: Phase			



Soakaway

Type : Soakaway

Dimensions

Exceedance Level (m)	100.000
Depth (m)	0.694
Base Level (m)	99.306
Freeboard (mm)	0
Soakaway Shape	Rectangular
Diameter / Width (m)	5.400
Length (m)	6.000
Porosity (%)	95
Ineffective Storage Depth (m)	0.000
Number of Soakaways	1
Base Infiltration Rate (m/hr)	0.87217
Side Infiltration Rate (m/hr)	0.87217
Safety Factor	2.0
Total Volume (m³)	21.361

Inlets

Inlet

Incoming Item(s)	Catchment Area
Bypass Destination	(None)
Capacity Type	No Restriction

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Rainfall Analysis Criteria			

Runoff Type	Dynamic
Output Interval (mins)	5
Time Step	Default
Urban Creep	Apply Global Value
Urban Creep Global Value (%)	0
Junction Flood Risk Margin (mm)	300
Perform No Discharge Analysis	☐

Rainfall

FSR

Type: FSR

Region	England And Wales
M5-60 (mm)	19.0
Ratio R	0.350
Summer	☑
Winter	☑

Return Period

Return Period (years)	Increase Rainfall (%)
100.0	40.000

Storm Durations

Duration (mins)	Run Time (mins)
15	30
30	60
60	120
120	240
180	360
240	480
360	720
480	960
600	1200
720	1440
960	1920
1440	2880
2160	4320
2880	5760
4320	8640
5760	11520
7200	14400
8640	17280
10080	20160

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Summary Results for Soakaway: Rank By: Max. Avg. Depth

Storm Event	Max. Avg. Level (m)	Max. Avg. Depth (m)	Max. Resident Volume (m³)	Half Drain Down Time (mins)	Percentage Available (%)	Status
FSR: 100 years: +40 %: 15 mins: Summer	99.782	0.476	14.639	25	31.467	OK
FSR: 100 years: +40 %: 15 mins: Winter	99.854	0.548	16.855	28	21.096	OK
FSR: 100 years: +40 %: 30 mins: Summer	99.891	0.585	18.008	43	15.696	OK
FSR: 100 years: +40 %: 30 mins: Winter	99.985	0.679	20.879	46	2.258	OK
FSR: 100 years: +40 %: 60 mins: Summer	99.918	0.612	18.812	41	11.935	OK
FSR: 100 years: +40 %: 60 mins: Winter	100.025	0.719	22.160	42	-3.741	Flood
FSR: 100 years: +40 %: 120 mins: Summer	99.890	0.584	17.973	35	15.861	OK
FSR: 100 years: +40 %: 120 mins: Winter	99.968	0.662	20.392	34	4.536	OK
FSR: 100 years: +40 %: 180 mins: Summer	99.837	0.531	16.355	31	23.438	OK
FSR: 100 years: +40 %: 180 mins: Winter	99.883	0.577	17.753	29	16.892	OK
FSR: 100 years: +40 %: 240 mins: Summer	99.777	0.471	14.508	27	32.084	OK
FSR: 100 years: +40 %: 240 mins: Winter	99.791	0.485	14.933	30	30.093	OK
FSR: 100 years: +40 %: 360 mins: Summer	99.667	0.361	11.125	20	47.921	OK
FSR: 100 years: +40 %: 360 mins: Winter	99.631	0.325	9.993	20	53.218	OK

FSR: 100 years: +40 %: 480 mins: Summer	99.576	0.270	8.296	15	61.163	OK
FSR: 100 years: +40 %: 480 mins: Winter	99.504	0.198	6.088	12	71.502	OK
FSR: 100 years: +40 %: 600 mins: Summer	99.500	0.194	5.987	11	71.974	OK
FSR: 100 years: +40 %: 600 mins: Winter	99.406	0.100	3.072	7	85.621	OK
FSR: 100 years: +40 %: 720 mins: Summer	99.439	0.133	4.099	8	80.810	OK
FSR: 100 years: +40 %: 720 mins: Winter	99.337	0.031	0.941	2	95.595	OK
FSR: 100 years: +40 %: 960 mins: Summer	99.353	0.047	1.456	3	93.186	OK
FSR: 100 years: +40 %: 960 mins: Winter	99.306	0.000	0.000	0	100.000	OK
FSR: 100 years: +40 %: 1440 mins: Summer	99.306	0.000	0.000	0	100.000	OK
FSR: 100 years: +40 %: 1440 mins: Winter	99.306	0.000	0.000	0	100.000	OK
FSR: 100 years: +40 %: 2160 mins: Summer	99.306	0.000	0.000	0	100.000	OK
FSR: 100 years: +40 %: 2160 mins: Winter	99.306	0.000	0.000	0	100.000	OK
FSR: 100 years: +40 %: 2880 mins: Summer	99.306	0.000	0.000	0	100.000	OK
FSR: 100 years: +40 %: 2880 mins: Winter	99.306	0.000	0.000	0	100.000	OK
FSR: 100 years: +40 %: 4320 mins: Summer	99.306	0.000	0.000	0	100.000	OK
FSR: 100 years: +40 %: 4320 mins: Winter	99.306	0.000	0.000	0	100.000	OK
FSR: 100 years: +40 %: 5760 mins: Summer	99.306	0.000	0.000	0	100.000	OK

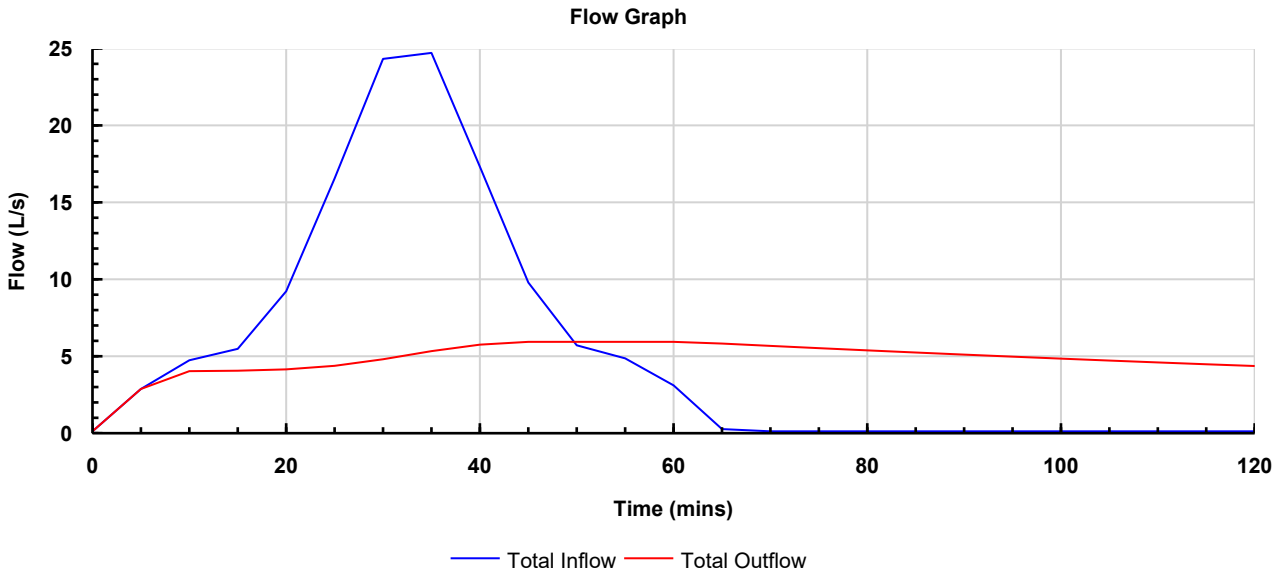
FSR: 100 years: +40 %: 5760 mins: Winter	99.306	0.000	0.000	0	100.000	OK
FSR: 100 years: +40 %: 7200 mins: Summer	99.306	0.000	0.000	0	100.000	OK
FSR: 100 years: +40 %: 7200 mins: Winter	99.306	0.000	0.000	0	100.000	OK
FSR: 100 years: +40 %: 8640 mins: Summer	99.306	0.000	0.000	0	100.000	OK
FSR: 100 years: +40 %: 8640 mins: Winter	99.306	0.000	0.000	0	100.000	OK
FSR: 100 years: +40 %: 10080 mins: Summer	99.306	0.000	0.000	0	100.000	OK
FSR: 100 years: +40 %: 10080 mins: Winter	99.306	0.000	0.000	0	100.000	OK

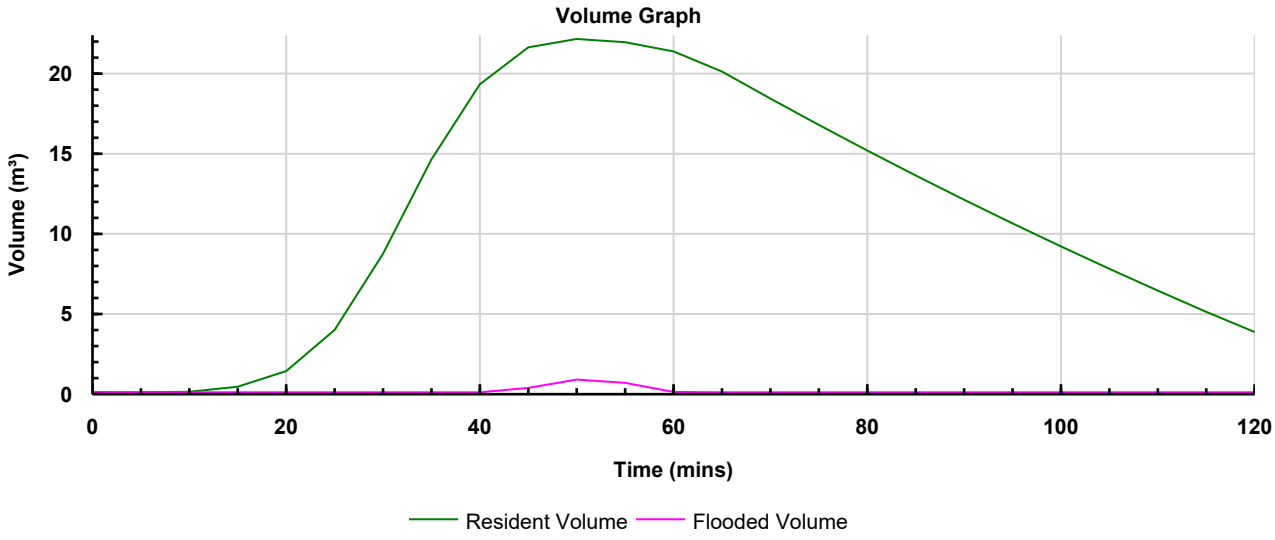
Project: Longhedge	Date: 29/02/2024		
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Report Details: Type: Stormwater Control Results Storm Phase: Phase	Company Address:		

Soakaway
Critical Storm: FSR: 100 years: Increase Rainfall (%): +40: 60 mins: Winter

Type : Soakaway

Graphs





Project: Longhedge	Date: 29/02/2024		
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