

Project: 81 BELSIZE PARK GARDENS	Date: 31/07/2023			
Project No: 22064	Designed by: FJ	Checked by:	Approved By:	
Report Title: Rainfall Analysis Criteria	MHA STRUCTURAL DESIGN: London: +44 (0)207 375 6340 Cambridge: +44 (0)1223 776340 mhastructuraldesign.com			

Runoff Type	Dynamic
Output Interval (mins)	5
Time Step	Default
Urban Creep	Use Catchment Values
Junction Flood Risk Margin (mm)	0
Perform No Discharge Analysis	☐

Rainfall	
FSR	Type: FSR
Region	England And Wales
M5-60 (mm)	20.0
Ratio R	0.400
Summer	☒
Winter	☒

Return Period	
Return Period (years)	Increase Rainfall (%)
1.0	0.000
30.0	35.000
100.0	40.000

Storm Durations	
Duration (mins)	Run Time (mins)
15	30
30	60
60	120
120	240
240	480
360	720
480	960
960	1920
1440	2880

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FSR: 1 years: Increase Rainfall (%): +0: Critical Storm Per Item: Rank By: Max. Depth

Junction	Storm Event	Cover Level (m)	Invert Level (m)	Max. Level (m)	Max. Depth (m)	Max. Inflow (L/s)	Max. Resident Volume (m³)	Max. Flooded Volume (m³)	Max. Outflow (L/s)	Total Discharge Volume (m³)	Status
MH1	FSR: 1 years: +0 %: 15 mins: Winter	0.000	-0.530	-0.480	0.050	4.4	0.032	0.000	4.3	2.041	OK
MH	FSR: 1 years: +0 %: 15 mins: Winter	0.000	-0.750	-0.701	0.049	5.8	0.031	0.000	5.6	2.692	OK
MH2	FSR: 1 years: +0 %: 15 mins: Winter	0.000	-1.230	-1.153	0.077	7.4	0.049	0.000	7.1	3.482	OK
MH4	FSR: 1 years: +0 %: 15 mins: Winter	0.000	-1.750	-1.671	0.079	9.2	0.089	0.000	8.9	4.485	OK
Outfall	FSR: 1 years: +0 %: 15 mins: Winter	0.000	-1.900	-1.833	0.067	8.9	0.000	0.000	8.9	4.485	OK
MH3	FSR: 1 years: +0 %: 15 mins: Winter	0.000	-1.310	-1.254	0.056	7.4	0.036	0.000	7.3	3.617	OK

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FSR: 30 years: Increase Rainfall (%): +35: Critical Storm Per Item: Rank By: Max. Depth

Junction	Storm Event	Cover Level (m)	Invert Level (m)	Max. Level (m)	Max. Depth (m)	Max. Inflow (L/s)	Max. Resident Volume (m³)	Max. Flooded Volume (m³)	Max. Outflow (L/s)	Total Discharge Volume (m³)	Status
MH1	FSR: 30 years: +35 %: 15 mins: Winter	0.000	-0.530	0.001	0.531	14.2	0.898	0.561	9.7	6.814	Flood
MH	FSR: 30 years: +35 %: 15 mins: Winter	0.000	-0.750	-0.174	0.576	14.2	0.367	0.000	10.4	9.007	Surcharged
MH2	FSR: 30 years: +35 %: 15 mins: Winter	0.000	-1.230	-0.545	0.685	15.9	0.436	0.000	13.1	11.708	Surcharged
MH4	FSR: 30 years: +35 %: 15 mins: Winter	0.000	-1.750	-1.355	0.395	17.8	0.447	0.000	16.8	15.117	Surcharged
Outfall	FSR: 30 years: +35 %: 15 mins: Summer	0.000	-1.900	-1.800	0.100	16.3	0.000	0.000	16.2	13.507	OK
MH3	FSR: 30 years: +35 %: 15 mins: Winter	0.000	-1.310	-0.755	0.555	14.1	0.353	0.000	14.1	12.188	Surcharged

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FSR: 100 years: Increase Rainfall (%): +40: Critical Storm Per Item: Rank By: Max. Depth

Junction	Storm Event	Cover Level (m)	Invert Level (m)	Max. Level (m)	Max. Depth (m)	Max. Inflow (L/s)	Max. Resident Volume (m³)	Max. Flooded Volume (m³)	Max. Outflow (L/s)	Total Discharge Volume (m³)	Status
MH1	FSR: 100 years: +40 %: 15 mins: Winter	0.000	-0.530	0.003	0.533	19.1	3.456	3.119	10.4	9.052	Flood
MH	FSR: 100 years: +40 %: 30 mins: Winter	0.000	-0.750	-0.075	0.675	13.0	0.430	0.000	11.1	15.847	Surcharged
MH2	FSR: 100 years: +40 %: 30 mins: Winter	0.000	-1.230	-0.380	0.850	15.0	0.541	0.000	14.0	20.571	Surcharged
MH4	FSR: 100 years: +40 %: 30 mins: Winter	0.000	-1.750	-1.212	0.538	19.9	0.608	0.000	19.5	26.545	Surcharged
Outfall	FSR: 100 years: +40 %: 15 mins: Summer	0.000	-1.900	-1.800	0.100	18.1	0.000	0.000	18.5	18.091	OK
MH3	FSR: 100 years: +40 %: 30 mins: Winter	0.000	-1.310	-0.615	0.695	14.9	0.442	0.000	14.4	21.402	Surcharged