

East Hemel Masterplan: Catchment B	Date: 18/07/2025		
	Designed by: LL	Checked by: AK	Approved By:
Report Details: Type: Inflows Summary Storm Phase: Phase	Expedition Engineering:		



**Critical Storm Per Item: Rank By: Max. Inflow**

Inflow	Storm Event	Inflow Area (ha)	Max. Inflow (L/s)	Total Inflow Volume (m <sup>3</sup> )
Inflow to B.1	FEH: 100 years: +40 %: 30 mins: Winter	53.90	8044.5	5248.364

East Hemel Masterplan: Catchment B	Date: 18/07/2025		
	Designed by: LL	Checked by: AK	Approved By:
Report Details: Type: Junctions Summary Storm Phase: Phase	Expedition Engineering:		



**Critical Storm Per Item: Rank By: Max. Outflow**

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
Simple Junction	FEH: 100 years: +40 %: 720 mins: Winter				0.000	169.5			169.4	9906.951	OK

East Hemel Masterplan: Catchment B	Date: 18/07/2025		
	Designed by: LL	Checked by: AK	Approved By:
Report Details: Type: Stormwater Controls Summary Storm Phase: Phase	Expedition Engineering:		



**Critical Storm Per Item: Rank By: Max. Resident Volume**

Stormwater Control	Storm Event	Max. US Level (m)	Max. DS Level (m)	Max. US Depth (m)	Max. DS Depth (m)	Max. Inflow (L/s)	Max. Resident Volume (m³)	Max. Flooded Volume (m³)	Total Lost Volume (m³)	Max. Outflow (L/s)	Total Discharge Volume (m³)	Percentage Available (%)	Status
B.1	FEH: 100 years: +40 %: 600 mins: Winter	125.589	125.589	1.989	1.989	1875.8	23039.188	0.000	0.000	185.8	11079.219	0.894	OK
B.2	FEH: 100 years: +40 %: 720 mins: Winter	118.606	118.605	2.006	2.005	184.9	4575.312	19.690	0.000	169.4	9908.666	-0.432	Flood

East Hemel Masterplan: Catchment B	Date: 18/07/2025		
	Designed by: LL	Checked by: AK	Approved By:
Report Details: Type: Connections Summary Storm Phase: Phase	Expedition Engineering:		



**Critical Storm Per Item: Rank By: Max. Flow**

Connection	Storm Event	Connection Type	From	To	Upstream Cover Level (m)	Max. US Water Level (m)	Max. Flow Depth (m)	Discharge Volume (m³)	Max. Velocity (m/s)	Flow / Capacity	Max. Flow (L/s)	Status
No Delay	FEH: 30 years: +35 %: 60 mins: Summer	No Delay	B.1	B.2		124.820	0.041	227.258	0.0		32.8	
No Delay (2)	FEH: 100 years: +40 %: 720 mins: Winter	No Delay	B.2	Simple Junction		118.604	0.143	9906.951	0.0		169.5	
No Delay (1)	FEH: 100 years: +40 %: 600 mins: Winter	No Delay	B.1	B.2		125.589	0.106	8759.911	0.0		153.0	

East Hemel Masterplan: Catchment B	Date: 18/07/2025		
	Designed by: LL	Checked by: AK	Approved By:
Report Details: Type: Phase Management Storm Phase: Phase	Expedition Engineering:		



**Phase**  
FEH: 100 years: Increase Rainfall (%): +40: 720 mins: Winter

**Tables**

Name	Max. Inflow (L/s)	Total Inflow Volume (m³)	Max. Outflow (L/s)	Total Outflow Volume (m³)
Simple Junction			169.4	9906.951
TOTAL	1609.1	26117.150	169.4	9906.951

**Graphs**

