

Heywood Civic Square: Heywood	Date: 13/02/2025		
	Designed by: MB	Checked by: SB	Approved By: SB
Report Details: Type: Junctions Storm Phase: Phase	Sutcliffe: 18-20 Harrington Street Liverpool		



Name	Junction Type	Easting (m)	Northing (m)	Cover Level (m)	Depth (m)	Invert Level (m)	Chamber Shape	Diameter (m)
CO MH 03 (SW)	Manhole	385698.158	410660.606	118.650	2.060	116.590	Circular	1.500
EX MH 04 (SW)	Manhole	385676.594	410663.402	118.350	2.100	116.250	Circular	1.500
MH3 (SW)	Manhole	385671.767	410658.015	118.260	2.350	115.910	Circular	1.500
GULLY 1 (SW)	Simple Junction	385700.619	410663.652					
MH4 (SW)	Manhole	385666.878	410659.382	118.190	2.590	115.600	Circular	1.500
GULLY 4 (SW)	Simple Junction	385671.449	410660.946					
GULLY 2 (SW)	Simple Junction	385674.367	410661.928					
GULLY 3 (SW)	Simple Junction	385662.159	410660.135					
MH5 (SW)	Manhole	385690.600	410697.741	116.357	0.870	115.487	Circular	1.500
NODE 1 (SW)	Simple Junction	385674.323	410660.868					
NODE 2 (SW)	Simple Junction	385670.256	410664.844					

Name	Lock
CO MH 03 (SW)	None
EX MH 04 (SW)	None
MH3 (SW)	None
GULLY 1 (SW)	
MH4 (SW)	None
GULLY 4 (SW)	
GULLY 2 (SW)	
GULLY 3 (SW)	
MH5 (SW)	None
NODE 1 (SW)	
NODE 2 (SW)	

Inlets

Junction	Inlet Name	Incoming Item(s)	Bypass Destination	Capacity Type
CO MH 03 (SW)	Inlet	Pipe5 (SW)	(None)	No Restriction
EX MH 04 (SW)	Inlet	Pipe1 (SW)	(None)	No Restriction
MH3 (SW)	Inlet	Pipe2 (1) (SW)	(None)	No Restriction
GULLY 1 (SW)	Inlet	Catchment Area (2)	(None)	No Restriction
MH4 (SW)	Inlet	Pipe3 (SW)	(None)	No Restriction
	Inlet (1)	Pipe6 (SW)	(None)	No Restriction
GULLY 4 (SW)	Inlet	Catchment Area (4)	(None)	No Restriction
GULLY 2 (SW)	Inlet	Catchment Area (3)	(None)	No Restriction
GULLY 3 (SW)	Inlet	Catchment Area (5)	(None)	No Restriction
MH5 (SW)	Inlet	Pipe4 (1) (SW)	(None)	No Restriction
NODE 1 (SW)	Inlet	Pipe2 (SW)	(None)	No Restriction
	Inlet (1)	Pipe8 (SW)	(None)	No Restriction
NODE 2 (SW)	Inlet	Pipe4 (SW)	(None)	No Restriction
	Inlet (1)	Pipe7 (SW)	(None)	No Restriction

Outlets

Junction	Outlet Name	Outgoing Connection	Outlet Type
CO MH 03 (SW)	Outlet	Pipe1 (SW)	Free Discharge
EX MH 04 (SW)	Outlet	Pipe2 (SW)	Free Discharge
MH3 (SW)	Outlet	Pipe3 (SW)	Free Discharge
GULLY 1 (SW)	Outlet	Pipe5 (SW)	Free Discharge
MH4 (SW)	Outlet	Pipe4 (SW)	Free Discharge
GULLY 4 (SW)	Outlet	Pipe7 (SW)	Free Discharge
GULLY 2 (SW)	Outlet	Pipe8 (SW)	Free Discharge
GULLY 3 (SW)	Outlet	Pipe6 (SW)	Free Discharge
NODE 1 (SW)	Outlet	Pipe2 (1) (SW)	Free Discharge
NODE 2 (SW)	Outlet	Pipe4 (1) (SW)	Free Discharge

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Report Details: Type: Connections Storm Phase: Phase	Sutcliffe: 18-20 Harrington Street Liverpool		



Name	Length (m)	Connection Type	Slope (1:X)	Manning's n	Colebrook-White Roughness (mm)	Diameter / Base Width (mm)	Upstream Cover Level (m)	Upstream Invert Level (m)
Pipe1 (SW)	21.745	Pipe	63.956		1.5	150	118.650	116.590
Pipe2 (SW)	3.402	Pipe	27.294		1.5	150	118.350	116.250
Pipe3 (SW)	5.076	Pipe	16.375		1.5	225	118.260	115.910
Pipe4 (SW)	6.422	Pipe	400.001		1.5	450	118.190	115.600
Pipe5 (SW)	3.916	Pipe	2.646		0.6	150	118.220	118.070
Pipe6 (SW)	4.779	Pipe	2.366		0.6	150	117.770	117.620
Pipe4 (1) (SW)	38.679	Pipe	400.001		1.5	450	116.034	115.584
Pipe7 (SW)	4.077	Pipe	2.308		0.6	150	117.800	117.650
Pipe2 (1) (SW)	3.830	Pipe	17.788		1.5	150	116.275	116.125
Pipe8 (SW)	1.061	Pipe	0.696		0.6	100	117.800	117.700

Name	Downstream Cover Level (m)	Downstream Invert Level (m)	Part Family	Lock	Culvert Type	Culvert Entrance
Pipe1 (SW)	118.350	116.250		None	(None)	(None)
Pipe2 (SW)	116.400	116.125		None	(None)	(None)
Pipe3 (SW)	118.190	115.600		None	(None)	(None)
Pipe4 (SW)	116.050	115.584		None	(None)	(None)
Pipe5 (SW)	118.650	116.590		None	(None)	(None)
Pipe6 (SW)	118.190	115.600		None	(None)	(None)
Pipe4 (1) (SW)	116.357	115.487		None	(None)	(None)
Pipe7 (SW)	117.800	115.884		None	(None)	(None)
Pipe2 (1) (SW)	118.260	115.910		None	(None)	(None)
Pipe8 (SW)	117.800	116.175		None	(None)	(None)

Heywood Civic Square: Heywood	Date: 13/02/2025		
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Report Details: Type: Inflow Summary Storm Phase: Phase	Sutcliffe: 18-20 Harrington Street Liverpool		



Inflow Label	Connected To	Flow (L/s)	Runoff Method	Area (ha)	Percentage Impervious (%)	Urban Creep (%)	Adjusted Percentage Impervious (%)	Area Analysed (ha)
Catchment Area (2)	GULLY 1 (SW)		Time of Concentration	0.039	100	0	100	0.039
Catchment Area (3)	GULLY 2 (SW)		Time of Concentration	0.005	100	0	100	0.005
Catchment Area (4)	GULLY 4 (SW)		Time of Concentration	0.050	100	0	100	0.050
Catchment Area (5)	GULLY 3 (SW)		Time of Concentration	0.015	100	0	100	0.015
TOTAL		0.0		0.109				0.109

Heywood Civic Square: Heywood	Date: 13/02/2025			
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Report Details: Type: Outfall Details Storm Phase: Phase	Sutcliffe: 18-20 Harrington Street Liverpool			

Outfalls

Outfall	Outfall Type	Gated	Fixed Surcharged Level (m)	Level Curve
MH5 (SW)	Free Discharge			

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Report Details: Type: Rainfall Analysis Criteria	Sutcliffe: 18-20 Harrington Street Liverpool		



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	☐

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Report Details: Type: Junctions Summary Storm Phase: Phase	Sutcliffe: 18-20 Harrington Street Liverpool		



FEH: 2 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
CO MH 03 (SW)	FEH: 2 years: +0 %: 15 mins: Winter	118.6 50	116.5 90	116.64 7	0.057	5.6	0.100	0.000	5.4	2.614	OK
EX MH 04 (SW)	FEH: 2 years: +0 %: 15 mins: Winter	118.3 50	116.2 50	116.29 6	0.046	5.4	0.081	0.000	5.1	2.606	OK
MH3 (SW)	FEH: 2 years: +0 %: 15 mins: Winter	118.2 60	115.9 10	115.94 4	0.034	5.7	0.061	0.000	5.6	2.926	OK
GULLY 1 (SW)	FEH: 2 years: +0 %: 15 mins: Winter		118.0 70	118.09 3	0.023	5.7			5.6	2.618	OK
MH4 (SW)	FEH: 2 years: +0 %: 15 mins: Winter	118.1 90	115.6 00	115.68 6	0.086	7.9	0.152	0.000	7.3	3.950	OK
GULLY 4 (SW)	FEH: 2 years: +0 %: 15 mins: Winter		117.6 50	117.67 7	0.027	7.3			7.3	3.367	OK
GULLY 2 (SW)	FEH: 2 years: +0 %: 15 mins: Winter		117.7 00	117.70 7	0.007	0.7			0.7	0.329	OK
GULLY 3 (SW)	FEH: 2 years: +0 %: 15 mins: Winter		117.6 20	117.63 3	0.013	2.2			2.2	1.040	OK
MH5 (SW)	FEH: 2 years: +0 %: 15 mins: Winter	116.3 57	115.4 87	115.58 0	0.092	13.3	0.000	0.000	13.3	7.301	OK
NODE 1 (SW)	FEH: 2 years: +0 %: 15 mins: Winter		116.1 25	116.16 9	0.044	5.8			5.7	2.931	OK
NODE 2 (SW)	FEH: 2 years: +0 %: 15 mins: Winter		115.5 84	115.67 9	0.095	14.5			13.3	7.301	OK