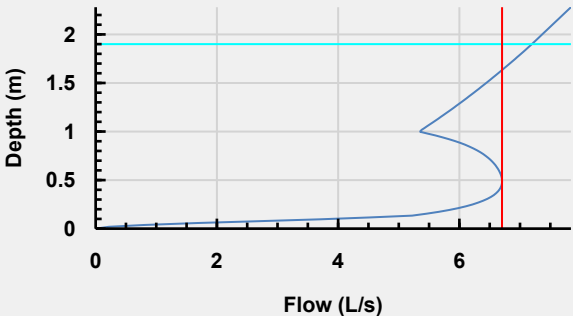
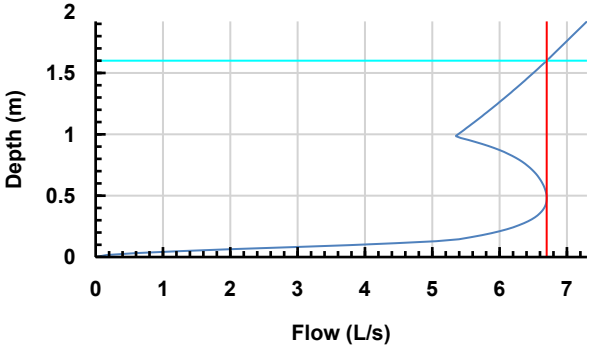
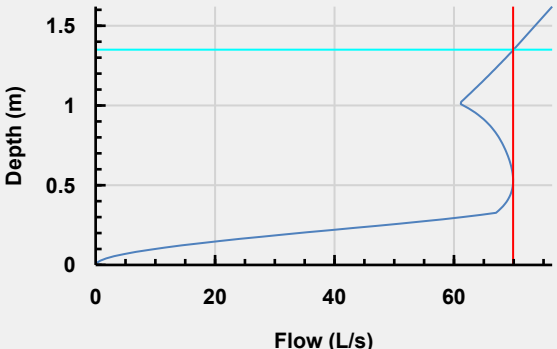
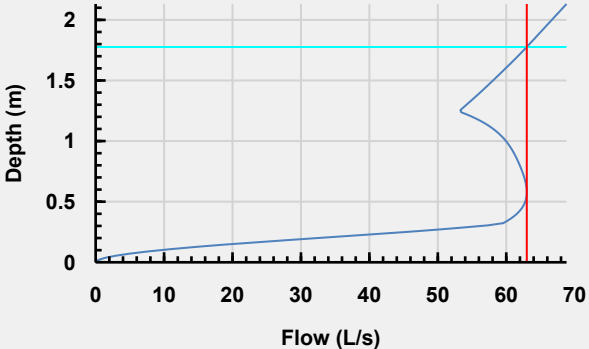


Project: UoM Residences DBFO Site Wide Proposed Surface Water Calculations	Date: 29/04/2026			
	Designed by: Nour Rashdan	Checked by: Johnny Hunt	Approved By: Pedro Vicente	
Report Details: Type: Junctions Storm Phase: Full Site	Company Address: 20 Market Street Altrincham WA14 1PF			

Outlets

Junction	Outlet Name	Outgoing Connection	Outlet Type
SW603	Outlet	600.002	Free Discharge
SW604	Outlet	600.003	Free Discharge
SW605	Outlet	600.004	Free Discharge
SW606	Outlet	600.005	Free Discharge
SW608	Outlet	600.007	Free Discharge
SW609	Outlet	Pipe (5)	Free Discharge
SW006	Outlet	Pipe (6)	Free Discharge
SW007	Outlet	Pipe (215)	Free Discharge
SW008	Outlet	Pipe (8)	Hydro-Brake®
	Invert Level (m)	41.800	
	Design Depth (m)	1.900	
	Design Flow (L/s)	7.2	
	Objective	Minimise Upstream Storage Requirements	
	Application	Surface Water Only	
	Sump Available	☒	
	Unit Reference	SHE-0112-7200-1900-7200	
			
SW009	Outlet	Pipe (9)	Free Discharge
SW010	Outlet	Pipe (10)	Free Discharge
SW011a	Outlet	Pipe (11)	Free Discharge
SW012	Outlet	Pipe (12)	Free Discharge
SW013	Outlet	Pipe (13)	Hydro-Brake®
	Invert Level (m)	41.011	
	Design Depth (m)	1.600	
	Design Flow (L/s)	6.7	
	Objective	Minimise Upstream Storage Requirements	
	Application	Surface Water Only	
	Sump Available	☒	
	Unit Reference	SHE-0112-6700-1600-6700	
			
SW1306	Outlet	1304.002	Free Discharge
SW1308	Outlet	1304.004	Free Discharge
SW1405	Outlet	1401.004	Free Discharge
SW017	Outlet	Pipe (17)	Free Discharge

Project: UoM Residences DBFO Site Wide Proposed Surface Water Calculations		Date: 29/04/2026		
Report Details: Type: Junctions Storm Phase: Full Site		Designed by: Nour Rashdan	Checked by: Johnny Hunt	
		Approved By: Pedro Vicente		
		Company Address: 20 Market Street Altrincham WA14 1PF		

Junction	Outlet Name	Outgoing Connection	Outlet Type
SW018	Outlet	Pipe (18)	Free Discharge
SW019	Outlet	Pipe (19)	Free Discharge
SW020	Outlet	Pipe (20)	Hydro-Brake®
	Invert Level (m)	38.241	
	Design Depth (m)	1.350	
	Design Flow (L/s)	70.0	
	Objective	Minimise Upstream Storage Requirements	
	Application	Surface Water Only	
	Sump Available	☒	
	Unit Reference	SHE-0335-7000-1350-7000	
			
SW021	Outlet	Pipe (21)	Free Discharge
SW022	Outlet	Pipe (22)	Free Discharge
SW023	Outlet	Pipe (23)	Free Discharge
SW024	Outlet	Pipe (24)	Free Discharge
SW025	Outlet	Pipe (25)	Free Discharge
SW026	Outlet	Pipe (26)	Free Discharge
SW027	Outlet	Pipe (27)	Free Discharge
SW028	Outlet	Pipe (28)	Hydro-Brake®
	Invert Level (m)	37.824	
	Design Depth (m)	1.776	
	Design Flow (L/s)	63.0	
	Objective	Minimise Upstream Storage Requirements	
	Application	Surface Water Only	
	Sump Available	☒	
	Unit Reference	SHE-0316-6300-1776-6300	
			
SW611	Outlet	610.002	Free Discharge
SW031	Outlet	Pipe (30)	Free Discharge
SW032	Outlet	Pipe (31)	Free Discharge
SW500	Outlet	500.000	Free Discharge
SW501	Outlet	500.001	Free Discharge
SW503	Outlet	500.003	Free Discharge
SW504	Outlet	500.004	Free Discharge
SW505	Outlet	500.005	Free Discharge
SW506	Outlet	500.006	Free Discharge
SW507	Outlet	508.004	Free Discharge
SW509	Outlet	508.001	Free Discharge

Project: UoM Residences DBFO Site Wide Proposed Surface Water Calculations	Date: 29/04/2026		
	Designed by: Nour Rashdan	Checked by: Johnny Hunt	Approved By: Pedro Vicente
Report Details: Type: Junctions Storm Phase: Full Site	Company Address: 20 Market Street Altrincham WA14 1PF		



Junction	Outlet Name	Outgoing Connection	Outlet Type
SW511	Outlet	508.003	Free Discharge
SW300	Outlet	300.000	Free Discharge
SW301	Outlet	300.001	Free Discharge
SW508	Outlet	508.000	Free Discharge
SW302	Outlet	300.002	Free Discharge
SW303	Outlet	300.003	Free Discharge
SW304	Outlet	300.004	Free Discharge
SW305	Outlet	305.000	Free Discharge
SW307	Outlet	305.002	Free Discharge
SW308	Outlet	305.003	Free Discharge
SW311	Outlet	305.006	Free Discharge
SW100	Outlet	100.000	Free Discharge
SW102	Outlet	100.002	Free Discharge
SW103	Outlet	100.003	Free Discharge
SW104	Outlet	100.004	Free Discharge
SW059	Outlet	Pipe (1)	Free Discharge
SW060	Outlet	Pipe (60)	Free Discharge
SW200	Outlet	200.000	Free Discharge
SW201	Outlet	200.001	Free Discharge
SW202	Outlet	200.002	Free Discharge
SW203	Outlet	200.003	Free Discharge
SW700	Outlet	700.000	Free Discharge
SW702	Outlet	700.002	Free Discharge
SW703	Outlet	700.003	Free Discharge
SW704	Outlet	700.004	Free Discharge
SW705	Outlet	700.005	Free Discharge
SW706	Outlet	Pipe (71)	Free Discharge
SW707	Outlet	707.000	Free Discharge
SW708	Outlet	707.001	Free Discharge
SW709	Outlet	Pipe (33)	Free Discharge
SW1100	Outlet	1100.000	Free Discharge
SW1101	Outlet	1100.001	Free Discharge
SW1103	Outlet	1100.003	Free Discharge
SW1104	Outlet	1100.004	Free Discharge
SW1109	Outlet	1100.009	Free Discharge
SW1105	Outlet	Pipe (37)	Free Discharge
SW1106	Outlet	1100.006	Free Discharge
SW1107	Outlet	1100.007	Free Discharge
SW1108	Outlet	1100.008	Free Discharge
SW1800	Outlet	1800.000	Free Discharge
SW1802	Outlet	1800.002	Free Discharge
SW1803	Outlet	1800.003	Free Discharge
SW1804	Outlet	1800.004	Free Discharge
SW1805	Outlet	1800.005	Free Discharge
SW1304	Outlet	1304.000	Free Discharge
SW1806	Outlet	1801.000	Free Discharge
SW1807	Outlet	1801.001	Free Discharge
SW1808	Outlet	1801.002	Free Discharge
SW1809	Outlet	1801.003	Free Discharge
SW1810	Outlet	Pipe (100)	Free Discharge
SW1900	Outlet	1900.000	Free Discharge
SW1901	Outlet	1900.001	Free Discharge
SW1902	Outlet	1900.002	Free Discharge
SW1300	Outlet	1300.000	Free Discharge
SW1302	Outlet	1300.002	Free Discharge
SW1303	Outlet	1300.003	Free Discharge
SW1305	Outlet	1304.001	Free Discharge
SW1401	Outlet	1401.000	Free Discharge
SW1402	Outlet	1401.001	Free Discharge
SW1403	Outlet	1401.002	Free Discharge
SW1404	Outlet	1401.003	Free Discharge
SW1500	Outlet	1500.000	Free Discharge
SW1501	Outlet	1500.001	Free Discharge
SW1200	Outlet	1200.000	Free Discharge
SW1202	Outlet	1200.002	Free Discharge
SW1203	Outlet	1200.003	Free Discharge
SW1206	Outlet	1200.006	Free Discharge
SW1204	Outlet	1200.004	Free Discharge
SW1205	Outlet	1200.005	Free Discharge
SW1207	Outlet	1200.007	Free Discharge
SW1208	Outlet	1200.008	Free Discharge
SW1209	Outlet	1200.009	Free Discharge

Project: UoM Residences DBFO Site Wide Proposed Surface Water Calculations		Date: 29/04/2026			
		Designed by: Nour Rashdan	Checked by: Johnny Hunt		Approved By: Pedro Vicente
Report Details: Type: Junctions Storm Phase: Full Site		Company Address: 20 Market Street Altrincham WA14 1PF			

Junction	Outlet Name	Outgoing Connection	Outlet Type
SW1704	Outlet	1700.004	Free Discharge
SW1400	Outlet	1400.000	Free Discharge
SW1606	Outlet	1606.000	Free Discharge
SW1700	Outlet	1700.000	Free Discharge
SW1701	Outlet	1700.001	Free Discharge
SW1702	Outlet	1700.002	Free Discharge
SW1703	Outlet	1700.003	Free Discharge
SW2200	Outlet	2200.000	Free Discharge
SW2300	Outlet	2300.000	Free Discharge
SW2201	Outlet	2200.001	Free Discharge
SW2202	Outlet	2200.002	Free Discharge
SW2203	Outlet	2200.003	Free Discharge
SW2204	Outlet	2200.004	Free Discharge
SW1903	Outlet	1903.000	Free Discharge
SW1904	Outlet	1903.001	Free Discharge
SW1600	Outlet	1600.000	Free Discharge
SW1601	Outlet	1600.001	Free Discharge
SW1602	Outlet	1600.002	Free Discharge
SW1604	Outlet	1600.004	Free Discharge
SW1605	Outlet	1600.005	Free Discharge
SW2301	Outlet	2301.000	Free Discharge
SW1000	Outlet	1000.000	Free Discharge
SW1001	Outlet	1000.001	Free Discharge
SW1002	Outlet	1000.002	Free Discharge
SW1003	Outlet	1000.003	Free Discharge
SW1005	Outlet	1000.005	Free Discharge
SW2407	Outlet	Pipe (155)	Free Discharge
SW156	Outlet	Pipe (156)	Free Discharge
SW2402	Outlet	2400.002	Free Discharge
SW2404	Outlet	2400.004	Free Discharge
SW2700	Outlet	2700.000	Free Discharge
SW2701	Outlet	2700.001	Free Discharge
SW2704	Outlet	2700.004	Free Discharge
SW2705	Outlet	2700.005	Free Discharge
SW163	Outlet	Pipe (163)	Free Discharge
SW1006	Outlet	1000.006	Free Discharge
SW1007	Outlet	1000.007	Free Discharge
SW1008	Outlet	1000.008	Free Discharge
SW2405	Outlet	2405.000	Free Discharge
SW2406	Outlet	2405.001	Free Discharge
SW1906	Outlet	1906.000	Free Discharge
SW2102	Outlet	2100.002	Free Discharge
SW2104	Outlet	2100.004	Free Discharge
SW2106	Outlet	2100.006	Free Discharge
SW2107	Outlet	2100.007	Free Discharge
SW2105	Outlet	2100.005	Free Discharge
SW2108	Outlet	2100.008	Free Discharge
SW2109	Outlet	2100.009	Free Discharge
SW2400	Outlet	2400.000	Free Discharge
SW2403	Outlet	2400.003	Free Discharge
SW2401	Outlet	2400.001	Free Discharge
SW2500	Outlet	2500.000	Free Discharge
SW2501	Outlet	2500.001	Free Discharge
SW2502	Outlet	2500.002	Free Discharge
SW2503	Outlet	2500.003	Free Discharge
SW2504	Outlet	2500.004	Free Discharge
SW2505	Outlet	2500.005	Free Discharge
SW2506	Outlet	2506.000	Free Discharge
SW2706	Outlet	2706.000	Free Discharge
SW2900	Outlet	2900.000	Free Discharge
SW2901	Outlet	2900.001	Free Discharge
SW2902	Outlet	2900.002	Free Discharge
SW2904	Outlet	2900.004	Free Discharge
SW196	Outlet	Pipe (196)	Free Discharge
SW2800	Outlet	2800.000	Free Discharge
SW2801	Outlet	2800.001	Free Discharge
SW2803	Outlet	2800.003	Free Discharge
SW2802	Outlet	2800.002	Free Discharge
SW2804	Outlet	2800.004	Free Discharge
SW2805	Outlet	2800.005	Free Discharge
SW2806	Outlet	2800.006	Free Discharge
SW2807	Outlet	2800.007	Free Discharge

Project: UoM Residences DBFO Site Wide Proposed Surface Water Calculations		Date: 29/04/2026			
		Designed by: Nour Rashdan	Checked by: Johnny Hunt		Approved By: Pedro Vicente
Report Details: Type: Junctions Storm Phase: Full Site		Company Address: 20 Market Street Altrincham WA14 1PF			

Junction	Outlet Name	Outgoing Connection	Outlet Type
SW309	Outlet	305.004	Free Discharge
SW306	Outlet	305.001	Free Discharge
SW310	Outlet	305.005	Free Discharge
SW502	Outlet	500.002	Free Discharge
SW009a	Outlet	Pipe (9a)	Free Discharge
SW009b	Outlet	Pipe (9b)	Free Discharge
SW011	Outlet	Pipe (32)	Free Discharge
SW900	Outlet	900.000	Free Discharge
SW901	Outlet	900.001	Free Discharge
SW902	Outlet	900.002	Free Discharge
SW1102	Outlet	1100.002	Free Discharge
SW600	Outlet	600.000	Free Discharge
SW602	Outlet	601.000	Free Discharge
SW601	Outlet	600.001	Free Discharge
SW607	Outlet	600.006	Free Discharge
SW610	Outlet	610.001	Free Discharge
SW701	Outlet	700.001	Free Discharge
SW2101	Outlet	2100.001	Free Discharge
SW2100	Outlet	2100.000	Free Discharge
SW1801	Outlet	1800.001	Free Discharge
SW2103	Outlet	2100.003	Free Discharge
SW1905	Outlet	1903.002	Free Discharge
SW1201	Outlet	1200.001	Free Discharge
SW1301	Outlet	1300.001	Free Discharge
SW1307	Outlet	1304.003	Free Discharge
SW101	Outlet	100.001	Free Discharge
SW1603	Outlet	1600.003	Free Discharge
SW018a	Outlet	Pipe (62)	Free Discharge
SW20a	Outlet	Pipe (85)	Free Discharge
SW60a	Outlet	Pipe (2)	Free Discharge
SW156a	Outlet	Pipe (155) (1)	Free Discharge
SW2702	Outlet	2700.002	Free Discharge
SW2703	Outlet	2700.003	Free Discharge
SW2903	Outlet	2900.003	Free Discharge
SW2905	Outlet	2905.000	Free Discharge
SW510	Outlet	508.002	Free Discharge
SW1009	Outlet	1009.000	Free Discharge
SW1004	Outlet	1000.004	Free Discharge
SW2000	Outlet	2000.000	Free Discharge
SW2001	Outlet	2001.000	Free Discharge
SW2002	Outlet	2002.000	Free Discharge
SW012a	Outlet	Pipe (36)	Free Discharge

Project: UoM Residences DBFO Site Wide Proposed Surface Water Caculations	Date: 29/04/2026			 Kennedy Redford
	Designed by: Nour Rashdan	Checked by: Johnny Hunt	Approved By: Pedro Vicente	
Report Details: Type: Connections Storm Phase: Full Site	Company Address: 20 Market Street Altrincham WA14 1PF			

Name	From	Length (m)	Connection Type	Slope (1:X)	Manning's n	Colebrook-White Roughness (mm)	Diameter / Base Width (mm)	Upstream Cover Level (m)
600.002	SW603	6.816	Pipe	100.000		0.6	150	44.630
600.003	SW604	14.870	Pipe	114.458		0.6	225	44.640
600.004	SW605	6.712	Pipe	120.000		0.6	225	44.620
600.007	SW608	16.973	Pipe	120.000		0.6	225	44.630
Pipe (5)	SW609	10.921	Pipe	28.816		0.6	225	44.780
Pipe (6)	SW006	29.545	Pipe	62.196		0.6	225	44.670
Pipe (9)	SW009	3.462	Pipe	130.000		0.6	225	44.250
Pipe (10)	SW010	6.725	Pipe	143.520		0.6	225	44.390
Pipe (12)	SW012	8.355	Pipe	80.000		0.6	150	43.260
Pipe (13)	SW013	14.330	Pipe	59.269		0.6	150	43.170
1304.002	SW1306	19.906	Pipe	100.000		0.6	225	42.620
1304.004	SW1308	12.515	Pipe	100.000		0.6	225	41.950
1401.004	SW1405	20.729	Pipe	95.000		0.6	300	41.600
Pipe (17)	SW017	24.614	Pipe	100.000		0.6	300	41.530
Pipe (18)	SW018	12.433	Pipe	300.000		0.6	450	40.980
Pipe (19)	SW019	20.425	Pipe	300.000		0.6	450	40.680
Pipe (20)	SW020	21.405	Pipe	300.000		0.6	450	40.000
Pipe (21)	SW021	8.690	Pipe	300.000		0.6	450	39.900
Pipe (22)	SW022	23.517	Pipe	300.000		0.6	450	40.000
Pipe (23)	SW023	13.637	Pipe	300.000		0.6	450	40.000
Pipe (24)	SW024	18.297	Pipe	300.000		0.6	450	40.000
Pipe (25)	SW025	13.055	Pipe	300.000		0.6	450	39.800
Pipe (26)	SW026	18.611	Pipe	301.119		0.6	450	40.100
Pipe (28)	SW028	30.785	Pipe	167.309		0.6	375	39.600
610.002	SW611	14.253	Pipe	131.974		0.6	150	44.780
Pipe (30)	SW031	17.863	Pipe	69.506		0.6	150	44.490
Pipe (31)	SW032	17.978	Pipe	100.000		0.6	150	44.480
500.000	SW500	13.116	Pipe	80.000		0.6	150	44.770
500.003	SW503	4.702	Pipe	80.000		0.6	150	44.780
500.004	SW504	14.355	Pipe	80.000		0.6	150	44.790
500.005	SW505	9.218	Pipe	80.000		0.6	150	44.800
500.006	SW506	16.379	Pipe	74.630		0.6	150	44.640
508.004	SW507	7.848	Pipe	20.760		0.6	225	44.550
508.001	SW509	4.055	Pipe	80.000		0.6	150	44.790
508.003	SW511	15.345	Pipe	23.739		0.6	150	44.750
300.000	SW300	7.949	Pipe	80.000		0.6	225	44.380
508.000	SW508	8.720	Pipe	80.000		0.6	150	44.790
300.001	SW301	10.109	Pipe	80.000		0.6	225	44.500
300.002	SW302	21.368	Pipe	79.953		0.6	225	44.740
300.003	SW303	18.423	Pipe	80.000		0.6	225	44.650
300.004	SW304	10.228	Pipe	31.305		0.6	225	44.550
305.002	SW307	8.581	Pipe	100.000		0.6	225	44.650
305.003	SW308	5.520	Pipe	100.000		0.6	225	44.780
305.006	SW311	15.226	Pipe	83.101		0.6	225	44.650
100.002	SW102	11.750	Pipe	80.000		0.6	150	44.550
100.003	SW103	14.308	Pipe	80.000		0.6	150	44.470
100.004	SW104	8.638	Pipe	49.188		0.6	150	44.490
Pipe (1)	SW059	25.143	Pipe	80.000		0.6	225	44.220
Pipe (60)	SW060	4.420	Pipe	12.201		0.6	225	44.400
200.001	SW201	16.661	Pipe	80.000		0.6	150	44.680
200.002	SW202	9.774	Pipe	100.000		0.6	150	44.610
200.003	SW203	13.593	Pipe	120.000		0.6	150	44.600
700.002	SW702	6.404	Pipe	80.000		0.6	150	44.460
700.003	SW703	12.822	Pipe	80.000		0.6	150	44.480
700.004	SW704	15.046	Pipe	40.000		0.6	150	44.470
700.005	SW705	7.836	Pipe	40.000		0.6	150	44.000
Pipe (71)	SW706	11.544	Pipe	40.000		0.6	150	43.970
707.000	SW707	5.977	Pipe	107.000		0.6	150	43.980
707.001	SW708	19.488	Pipe	106.811		0.6	150	43.960
1100.000	SW1100	14.011	Pipe	80.000		0.6	150	44.350
1100.003	SW1103	8.234	Pipe	80.000		0.6	150	44.350

Project: UoM Residences DBFO Site Wide Proposed Surface Water Caculations	Date: 29/04/2026		
	Designed by: Nour Rashdan	Checked by: Johnny Hunt	Approved By: Pedro Vicente
Report Details: Type: Connections Storm Phase: Full Site	Company Address: 20 Market Street Altrincham WA14 1PF		



1100.009	SW1109	20.085	Pipe	80.000		0.6	150	44.470
1100.006	SW1106	6.451	Pipe	80.000		0.6	150	44.350
1100.008	SW1108	5.260	Pipe	80.000		0.6	150	44.460
1800.004	SW1804	16.973	Pipe	80.060		0.6	225	43.050
1800.003	SW1803	9.405	Pipe	80.000		0.6	225	43.000
1800.001	SW1801	3.856	Pipe	80.000		0.6	225	42.900
1800.000	SW1800	6.465	Pipe	80.000		0.6	225	42.900
1800.005	SW1805	13.593	Pipe	82.882		0.6	225	43.200
1304.000	SW1304	15.142	Pipe	39.742		0.6	150	42.550
2100.009	SW2109	10.473	Pipe	42.923		0.6	150	42.280
1801.003	SW1809	14.289	Pipe	79.814		0.6	150	42.950
1801.002	SW1808	2.466	Pipe	80.000		0.6	150	42.950
1801.001	SW1807	5.401	Pipe	80.000		0.6	150	42.950
1801.000	SW1806	16.672	Pipe	80.000		0.6	150	43.100
Pipe (100)	SW1810	15.838	Pipe	100.000		0.6	225	42.740
1900.000	SW1900	5.069	Pipe	80.000		0.6	150	42.150
1900.001	SW1901	10.497	Pipe	80.000		0.6	150	42.300
1900.002	SW1902	9.458	Pipe	40.943		0.6	225	42.200
1300.000	SW1300	17.173	Pipe	80.000		0.6	150	41.500
1300.002	SW1302	19.095	Pipe	80.000		0.6	150	42.050
1300.003	SW1303	11.118	Pipe	80.000		0.6	150	42.530
1304.001	SW1305	4.406	Pipe	40.055		0.6	225	42.600
1401.000	SW1401	19.112	Pipe	80.000		0.6	150	41.500
1401.001	SW1402	4.328	Pipe	80.000		0.6	150	41.350
1401.002	SW1403	22.150	Pipe	80.000		0.6	150	41.350
1401.003	SW1404	5.378	Pipe	80.000		0.6	150	41.480
1500.000	SW1500	8.340	Pipe	80.000		0.6	150	41.480
1500.001	SW1501	14.004	Pipe	80.000		0.6	150	41.480
1200.000	SW1200	9.545	Pipe	20.333		0.6	150	42.100
1200.002	SW1202	17.275	Pipe	100.000		0.6	150	41.400
1300.001	SW1301	3.939	Pipe	80.000		0.6	150	41.350
1200.006	SW1206	7.583	Pipe	100.000		0.6	225	41.000
1200.004	SW1204	10.086	Pipe	100.000		0.6	225	41.250
1200.005	SW1205	12.007	Pipe	100.000		0.6	225	41.150
1200.007	SW1207	20.345	Pipe	80.000		0.6	225	41.040
1200.008	SW1208	8.881	Pipe	21.912		0.6	225	41.200
1200.009	SW1209	29.295	Pipe	100.826		0.6	225	39.950
1700.004	SW1704	23.583	Pipe	135.269		0.6	300	40.020
1400.000	SW1400	13.349	Pipe	41.847		0.6	150	41.300
1606.000	SW1606	19.202	Pipe	149.491		0.6	225	40.000
1700.000	SW1700	4.589	Pipe	90.000		0.6	150	40.100
1700.001	SW1701	17.577	Pipe	100.000		0.6	150	40.150
1700.002	SW1702	8.833	Pipe	100.000		0.6	150	40.150
1700.003	SW1703	6.578	Pipe	109.791		0.6	150	40.100
2200.000	SW2200	4.985	Pipe	79.453		0.6	150	40.460
2300.000	SW2300	19.574	Pipe	100.000		0.6	150	40.350
2200.001	SW2201	16.164	Pipe	100.000		0.6	150	40.460
2200.002	SW2202	10.457	Pipe	120.000		0.6	225	40.470
2200.003	SW2203	15.968	Pipe	133.223		0.6	225	40.400
2200.004	SW2204	19.208	Pipe	152.447		0.6	300	40.700
1903.000	SW1903	6.354	Pipe	80.000		0.6	150	42.150
1903.001	SW1904	9.134	Pipe	80.000		0.6	225	42.150
1600.000	SW1600	12.599	Pipe	120.000		0.6	150	39.850
1600.001	SW1601	6.546	Pipe	120.000		0.6	150	40.000
1600.002	SW1602	4.998	Pipe	120.000		0.6	150	39.850
1600.004	SW1604	15.320	Pipe	120.000		0.6	150	40.000
1600.005	SW1605	20.468	Pipe	144.138		0.6	150	40.000
2301.000	SW2301	8.549	Pipe	80.000		0.6	150	40.000
1000.000	SW1000	8.867	Pipe	80.000		0.6	150	44.470
1000.001	SW1001	18.314	Pipe	80.000		0.6	150	44.470
1000.002	SW1002	46.592	Pipe	80.000		0.6	150	44.460
1000.003	SW1003	9.629	Pipe	100.298		0.6	225	44.080
1000.005	SW1005	30.957	Pipe	99.861		0.6	225	43.300
Pipe (155)	SW2407	11.852	Pipe	80.000		0.6	225	41.700

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Pipe (156)	SW156	8.551	Pipe	30.496		0.6	225	41.650
2400.002	SW2402	8.282	Pipe	25.000		0.6	300	41.550
2400.004	SW2404	15.022	Pipe	150.000		0.6	375	41.210
2700.000	SW2700	32.552	Pipe	150.000		0.6	375	40.650
2700.001	SW2701	8.467	Pipe	150.000		0.6	375	40.450
2700.004	SW2704	32.228	Pipe	150.000		0.6	375	40.250
2700.005	SW2705	22.298	Pipe	150.000		0.6	375	40.320
Pipe (163)	SW163	10.826	Pipe	125.602		0.6	450	40.200
1000.006	SW1006	23.250	Pipe	80.000		0.6	150	44.480
1000.007	SW1007	10.610	Pipe	100.000		0.6	225	44.470
1000.008	SW1008	25.248	Pipe	100.000		0.6	225	44.380
2405.000	SW2405	9.046	Pipe	82.233		0.6	150	41.620
2405.001	SW2406	10.047	Pipe	84.943		0.6	150	41.640
2100.003	SW2103	6.775	Pipe	100.000		0.6	225	42.250
2100.002	SW2102	13.128	Pipe	100.000		0.6	150	42.270
2100.001	SW2101	5.214	Pipe	100.000		0.6	150	42.270
2100.006	SW2106	15.900	Pipe	150.000		0.6	225	42.280
2100.005	SW2105	6.678	Pipe	100.101		0.6	225	42.250
2100.004	SW2104	6.043	Pipe	99.929		0.6	225	42.250
2100.008	SW2108	20.219	Pipe	150.000		0.6	225	42.180
2100.007	SW2107	10.180	Pipe	150.000		0.6	225	42.270
2100.000	SW2100	9.183	Pipe	100.000		0.6	150	42.270
2400.003	SW2403	8.316	Pipe	27.354		0.6	300	41.570
2400.000	SW2400	21.934	Pipe	80.000		0.6	150	41.690
2400.001	SW2401	18.006	Pipe	80.000		0.6	150	41.650
2500.001	SW2501	5.997	Pipe	80.000		0.6	150	41.570
2500.000	SW2500	12.602	Pipe	80.000		0.6	150	41.570
2500.002	SW2502	9.298	Pipe	80.000		0.6	150	41.620
2500.003	SW2503	14.151	Pipe	80.000		0.6	225	41.640
2500.004	SW2504	7.459	Pipe	80.000		0.6	225	41.150
2500.005	SW2505	13.149	Pipe	30.000		0.6	225	41.110
2506.000	SW2506	7.728	Pipe	51.867		0.6	150	41.550
2706.000	SW2706	15.340	Pipe	40.000		0.6	150	40.780
2900.000	SW2900	11.505	Pipe	80.000		0.6	150	40.530
2900.001	SW2901	17.401	Pipe	80.000		0.6	150	40.380
2900.003	SW2903	4.190	Pipe	80.000		0.6	150	40.350
2900.004	SW2904	13.211	Pipe	20.325		0.6	150	40.230
Pipe (196)	SW196	9.352	Pipe	80.000		0.6	150	40.290
2800.000	SW2800	11.899	Pipe	80.000		0.6	150	40.300
2800.001	SW2801	2.926	Pipe	80.000		0.6	150	40.320
2900.002	SW2902	9.387	Pipe	80.000		0.6	150	40.500
2800.003	SW2803	29.730	Pipe	80.000		0.6	150	40.280
2800.004	SW2804	6.252	Pipe	80.000		0.6	150	40.280
2800.005	SW2805	19.704	Pipe	80.000		0.6	150	40.360
2800.006	SW2806	7.566	Pipe	90.000		0.6	150	40.250
2800.007	SW2807	9.023	Pipe	101.389		0.6	150	40.150
Pipe (55)	Tank 5	2.960	Pipe	73.199		0.6	450	40.000
Pipe (90)	Swale (4)	5.157	Pipe	5.800		0.6	150	39.955
Pipe (88)	Swale (1)	6.412	Pipe	43.233		0.6	150	43.173
Pipe (37)	SW1105	10.802	Pipe	180.036		0.6	150	44.350
Pipe (35)	Tank 3	2.363	Pipe	132.000		0.6	225	43.500
Pipe (211)	Swale (2)	9.187	Pipe	102.073		0.6	150	43.523
Pipe (212)	Tank 2	10.854	Pipe	88.971		0.6	150	44.390
Pipe (85)	SW20a	5.824	Pipe	147.389		0.6	450	40.000
Pipe (16)	Tank 6	1.872	Pipe	208.026		0.6	375	39.600
Pipe (7)	Tank 1	24.665	Pipe	147.693		0.6	300	44.390
Pipe (215)	SW007	21.032	Pipe	512.972		0.6	300	44.500
Pipe (14)	Tank 4	3.582	Pipe	223.537		0.6	300	40.348
Pipe (27)	SW027	2.261	Pipe	125.631		0.6	450	40.130
Pipe (62)	SW018a	13.759	Pipe	165.140		0.6	300	40.010
305.001	SW306	10.506	Pipe	80.000		0.6	150	44.650
305.004	SW309	2.496	Pipe	100.000		0.6	225	44.650
305.005	SW310	9.207	Pipe	100.000		0.6	225	44.650
500.001	SW501	7.928	Pipe	80.000		0.6	150	44.650

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500.002	SW502	3.858	Pipe	80.000		0.6	150	44.650
Pipe (8)	SW008	20.267	Pipe	120.000		0.6	150	44.400
Pipe (9a)	SW009a	2.588	Pipe	120.000		0.6	150	44.460
Pipe (9b)	SW009b	12.182	Pipe	120.000		0.6	225	44.350
Pipe (11)	SW011a	17.092	Pipe	150.000		0.6	225	44.380
Pipe (32)	SW011	19.626	Pipe	150.000		0.6	225	43.670
Pipe (33)	SW709	15.568	Pipe	80.000		0.6	150	43.850
305.000	SW305	20.254	Pipe	80.672		0.6	150	44.450
900.000	SW900	6.176	Pipe	80.000		0.6	150	44.350
900.001	SW901	9.139	Pipe	80.000		0.6	150	44.350
900.002	SW902	9.884	Pipe	117.665		0.6	225	44.300
1100.004	SW1104	17.468	Pipe	80.000		0.6	150	44.350
1100.002	SW1102	6.412	Pipe	80.000		0.6	150	44.350
1100.001	SW1101	12.713	Pipe	80.000		0.6	150	44.490
1100.007	SW1107	7.988	Pipe	80.000		0.6	150	44.350
PP2	Porous Paving (2)	3.664	Pipe	1.862		0.6	100	44.593
100.000	SW100	5.133	Pipe	80.177		0.6	150	44.680
200.000	SW200	13.537	Pipe	80.000		0.6	150	44.700
PP8	Porous Paving (8)	9.520	Pipe	8.500		0.6	100	44.773
PP15	Porous Paving (15)	3.733	Pipe	3.363		0.6	100	44.763
PP16	Porous Paving (16)	13.707	Pipe	11.847		0.6	100	44.718
PP21	Porous Paving (21)	2.421	Pipe	1.991		0.6	100	44.817
PP4	Porous Paving (4)	11.538	Pipe	7.651		0.6	100	44.410
PP3	Porous Paving (3)	8.160	Pipe	3.794		0.6	100	44.560
PP10	Porous Paving (10)	12.251	Pipe	7.371		0.6	100	44.577
PP12	Porous Paving (12)	8.460	Pipe	3.902		0.6	100	44.549
Pipe (34)	Porous Paving (13)	4.388	Pipe	2.655		0.6	100	44.528
600.005	SW606	6.322	Pipe	120.000		0.6	225	44.640
600.006	SW607	8.586	Pipe	120.000		0.6	225	44.650
600.000	SW600	15.699	Pipe	100.000		0.6	150	44.700
601.000	SW602	2.458	Pipe	91.088		0.6	150	44.620
600.001	SW601	8.075	Pipe	100.000		0.6	150	44.610
610.001	SW610	8.043	Pipe	114.894		0.6	150	44.700
700.000	SW700	5.730	Pipe	80.000		0.6	150	44.350
700.001	SW701	2.384	Pipe	80.000		0.6	150	44.350
PP5	Porous Paving (5)	13.125	Pipe	7.892		0.6	100	44.702
PP	Porous Paving	2.354	Pipe	2.202		0.6	100	44.650
PP7	Porous Paving (7)	3.525	Pipe	1.841		0.6	100	44.700
PP17	Porous Paving (17)	1.397	Pipe	1.919		0.6	100	41.114
1200.003	SW1203	6.593	Pipe	100.000		0.6	225	41.270
PP11	Porous Paving (11)	2.957	Pipe	2.885		0.6	100	41.126
Pipe (58)	Porous Paving (20)	2.489	Pipe	4.225		0.6	100	39.998
Pipe (61)	Porous Paving (22)	5.000	Pipe	5.015		0.6	100	40.004
PP24	Porous Paving (24)	22.783	Pipe	23.746		0.6	100	40.201
PP23	Porous Paving (23)	3.869	Pipe	4.501		0.6	100	41.179
PP27	Porous Paving (27)	16.729	Pipe	28.844		0.6	100	41.634
PP28	Porous Paving (28)	5.774	Pipe	5.114		0.6	100	41.684
PP31	Porous Paving (31)	9.117	Pipe	7.786		0.6	100	41.709

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PP32	Porous Paving (32)	4.252	Pipe	3.301		0.6	100	40.326
PP33	Porous Paving (33)	2.519	Pipe	2.723		0.6	100	40.242
PP36	Porous Paving (36)	3.011	Pipe	1.785		0.6	100	40.273
PP35	Porous Paving (35)	2.996	Pipe	1.805		0.6	100	40.289
1800.002	SW1802	5.518	Pipe	80.000		0.6	225	42.900
PP30	Porous Paving (30)	2.755	Pipe	4.833		0.6	100	40.230
1906.000	SW1906	5.882	Pipe	80.299		0.6	150	42.050
Pipe (29)	Swale (5)	7.003	Pipe	6.852		0.6	150	39.628
PP37	Porous Paving (37)	3.277	Pipe	9.007		0.6	100	44.564
PP19	Porous Paving (19)	2.566	Pipe	9.713		0.6	100	44.609
PP1	Porous Paving (1)	13.766	Pipe	16.195		0.6	100	44.584
PP9	Porous Paving (9)	3.540	Pipe	3.349		0.6	100	44.546
PP25	Porous Paving (25)	18.515	Pipe	17.812		0.6	100	40.807
1903.002	SW1905	8.605	Pipe	40.022		0.6	225	41.750
1200.001	SW1201	7.188	Pipe	79.999		0.6	150	41.600
1304.003	SW1307	11.085	Pipe	48.407		0.6	225	42.550
Pipe (44)	Porous Paving (20)	2.496	Pipe	8.321		0.6	100	39.998
100.001	SW101	7.811	Pipe	80.000		0.6	150	44.550
PP41	Porous Paving (41)	16.599	Pipe	38.423		0.6	100	44.169
Pipe (38)	Swale 6	13.810	Pipe	34.896		0.6	150	40.000
1600.003	SW1603	10.567	Pipe	120.000		0.6	150	40.000
Pipe	Swale (3)	8.848	Pipe	9.227		0.6	150	40.150
Pipe (15)	Tank 7	1.859	Pipe	97.772		0.6	450	39.930
Pipe (39)	Porous Paving (14)	10.216	Pipe	20.000		0.6	100	44.720
Pipe (4)	Porous Paving (38)	9.377	Pipe	8.805		0.6	100	40.659
Pipe (3)	Porous Paving (6)	6.320	Pipe	3.465		0.6	100	44.751
Pipe (2)	SW60a	10.838	Pipe	80.000		0.6	225	44.500
Pipe (155) (1)	SW156a	26.884	Pipe	91.928		0.6	225	41.670
PP26	Porous Paving (26)	9.944	Pipe	8.572		0.6	100	43.591
PP29	Porous Paving (29)	7.308	Pipe	8.202		0.6	100	44.463
2700.002	SW2702	12.148	Pipe	150.000		0.6	375	40.550
2700.003	SW2703	13.378	Pipe	150.000		0.6	375	40.560
2800.002	SW2802	3.565	Pipe	80.000		0.6	150	40.300
2905.000	SW2905	4.986	Pipe	80.000		0.6	150	40.380
PP34	Porous Paving (34)	6.978	Pipe	5.020		0.6	100	40.322
508.002	SW510	7.832	Pipe	80.000		0.6	150	44.770
1000.004	SW1004	13.235	Pipe	100.264		0.6	225	43.530
1009.000	SW1009	23.686	Pipe	56.664		0.6	150	43.490
2000.000	SW2000	17.046	Pipe	80.029		0.6	150	42.260
2001.000	SW2001	6.029	Pipe	80.383		0.6	150	42.250
2002.000	SW2002	8.971	Pipe	80.000		0.6	150	41.640
Pipe (36)	SW012a	8.863	Pipe	132.716		0.6	225	43.540
PP18	Porous Paving (18)	2.447	Pipe	3.830		0.6	100	42.089

Name	Upstream Invert Level (m)	Downstream Cover Level (m)	Downstream Invert Level (m)	Part Family	Lock	Flow Restriction (L/s)
600.002	43.532	44.640	43.464		All	
600.003	43.389	44.620	43.259		All	
600.004	43.259	44.640	43.203		All	
600.007	43.079	44.780	42.937		All	
Pipe (5)	42.937	44.670	42.558		All	

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Pipe (6)	42.558	44.500	42.083	All	
Pipe (9)	41.433	44.390	41.407	All	
Pipe (10)	41.407	44.380	41.360	All	
Pipe (12)	41.115	43.170	41.011	All	
Pipe (13)	41.011	42.620	40.769	All	7.3
1304.002	40.694	42.550	40.495	All	
1304.004	40.266	41.600	40.141	All	
1401.004	38.965	41.530	38.747	All	
Pipe (17)	38.747	40.980	38.501	All	
Pipe (18)	38.351	40.680	38.310	All	
Pipe (19)	38.310	40.000	38.241	All	
Pipe (20)	38.241	39.900	38.170	All	76.4
Pipe (21)	38.170	40.000	38.141	All	
Pipe (22)	38.141	40.000	38.063	All	
Pipe (23)	38.063	40.000	38.017	All	
Pipe (24)	38.017	39.800	37.956	All	
Pipe (25)	37.956	40.100	37.913	All	
Pipe (26)	37.913	40.130	37.851	All	
Pipe (28)	37.824	39.580	37.640	All	63.0
610.002	43.120	44.780	43.012	All	
Pipe (30)	43.070	44.480	42.813	All	
Pipe (31)	42.813	44.670	42.633	All	
500.000	43.420	44.650	43.256	All	
500.003	43.109	44.790	43.050	All	
500.004	43.050	44.800	42.871	All	
500.005	42.871	44.640	42.755	All	
500.006	42.755	44.550	42.536	All	
508.004	42.461	44.500	42.083	All	
508.001	43.331	44.770	43.280	All	
508.003	43.182	44.550	42.536	All	
300.000	42.925	44.500	42.826	All	
508.000	43.440	44.790	43.331	All	
300.001	42.826	44.740	42.699	All	
300.002	42.699	44.650	42.432	All	
300.003	42.432	44.550	42.202	All	
300.004	42.202	44.400	41.875	All	
305.002	42.643	44.780	42.557	All	
305.003	42.557	44.650	42.502	All	
305.006	42.385	44.550	42.202	All	
100.002	43.263	44.470	43.116	All	
100.003	43.116	44.490	42.938	All	
100.004	42.938	44.220	42.762	All	
Pipe (1)	42.687	44.500	42.373	All	
Pipe (60)	42.237	44.400	41.875	All	
200.001	43.481	44.610	43.273	All	
200.002	43.273	44.600	43.175	All	
200.003	43.175	44.400	43.062	All	
700.002	43.399	44.480	43.319	All	
700.003	43.319	44.470	43.158	All	
700.004	43.158	44.000	42.782	All	
700.005	42.782	43.970	42.586	All	
Pipe (71)	42.586	44.380	42.298	All	
707.000	42.750	43.960	42.694	All	
707.001	42.694	43.850	42.512	All	
1100.000	43.300	44.490	43.125	All	
1100.003	42.886	44.350	42.783	All	
1100.009	43.054	44.350	42.803	All	
1100.006	43.300	44.350	43.219	All	
1100.008	43.120	44.470	43.054	All	
1800.004	41.070	43.200	40.858	None	
1800.003	41.188	43.050	41.070	None	
1800.001	41.305	42.900	41.257	None	
1800.000	41.386	42.900	41.305	None	
1800.005	40.858	42.620	40.694	None	

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1304.000	41.260	42.600	40.879	All	
2100.009	40.500	42.180	40.256	All	
1801.003	40.678	42.740	40.499	All	
1801.002	40.709	42.950	40.678	All	
1801.001	40.776	42.950	40.709	None	
1801.000	40.985	42.950	40.776	None	
Pipe (100)	40.424	41.950	40.266	All	
1900.000	41.000	42.300	40.937	All	
1900.001	40.937	42.200	40.805	All	
1900.002	40.730	42.740	40.499	All	
1300.000	40.450	41.350	40.235	All	
1300.002	40.186	42.530	39.947	All	
1300.003	39.947	41.600	39.808	All	
1304.001	40.804	42.620	40.694	All	
1401.000	40.450	41.350	40.211	All	
1401.001	40.211	41.350	40.157	All	
1401.002	40.157	41.480	39.880	All	
1401.003	39.880	41.600	39.813	All	
1500.000	40.430	41.480	40.326	All	
1500.001	40.326	41.530	40.151	All	
1200.000	40.870	41.600	40.401	All	
1200.002	40.311	41.270	40.138	All	
1300.001	40.235	42.050	40.186	All	
1200.006	39.776	41.040	39.700	All	
1200.004	39.997	41.150	39.896	All	
1200.005	39.896	41.000	39.776	All	
1200.007	39.700	41.200	39.446	All	
1200.008	39.446	39.950	39.041	All	
1200.009	39.041	40.020	38.750	All	
1700.004	38.675	40.980	38.501	All	
1400.000	39.840	41.200	39.521	All	
1606.000	39.169	39.950	39.041	None	
1700.000	39.200	40.150	39.149	All	
1700.001	39.149	40.150	38.973	All	
1700.002	38.973	40.100	38.885	All	
1700.003	38.885	40.020	38.825	All	
2200.000	39.167	40.460	39.104	All	
2300.000	39.300	40.460	39.104	All	
2200.001	39.104	40.470	38.943	All	
2200.002	38.868	40.400	38.781	All	
2200.003	38.781	40.700	38.661	All	
2200.004	38.586	40.680	38.460	All	
1903.000	41.000	42.150	40.921	All	
1903.001	40.846	41.750	40.732	All	
1600.000	39.100	40.000	38.995	All	
1600.001	38.995	39.850	38.940	All	
1600.002	38.940	40.000	38.899	All	
1600.004	38.811	40.000	38.683	All	
1600.005	38.683	40.000	38.541	All	
2301.000	38.950	39.800	38.843	All	
1000.000	43.120	44.470	43.009	All	
1000.001	43.009	44.460	42.780	All	
1000.002	42.780	44.080	42.198	All	
1000.003	41.025	43.530	40.929	All	
1000.005	40.797	41.700	40.487	All	
Pipe (155)	40.487	41.670	40.339	All	
Pipe (156)	40.046	41.550	39.766	All	
2400.002	39.691	41.570	39.360	All	
2400.004	38.981	40.650	38.881	All	
2700.000	38.881	40.450	38.664	All	
2700.001	38.664	40.550	38.607	All	
2700.004	38.437	40.320	38.222	All	
2700.005	38.222	40.200	38.074	All	
Pipe (163)	37.999	40.100	37.913	All	

Project: UoM Residences DBFO Site Wide Proposed Surface Water Caculations		Date: 29/04/2026		
		Designed by: Nour Rashdan	Checked by: Johnny Hunt	
Report Details: Type: Connections Storm Phase: Full Site		Company Address: 20 Market Street Altrincham WA14 1PF		

1000.006	43.130	44.470	42.839	All	
1000.007	42.764	44.380	42.658	All	
1000.008	42.658	44.080	42.405	All	
2405.000	40.790	41.640	40.680	All	
2405.001	40.680	41.700	40.562	All	
2100.003	40.550	42.250	40.482	None	
2100.002	40.776	42.250	40.645	All	
2100.001	40.828	42.270	40.776	All	
2100.006	40.355	42.270	40.249	All	
2100.005	40.422	42.280	40.355	None	
2100.004	40.482	42.250	40.422	None	
2100.008	40.181	41.650	40.046	All	
2100.007	40.249	42.180	40.181	None	
2100.000	40.920	42.270	40.828	All	
2400.003	39.360	41.210	39.056	All	
2400.000	40.340	41.650	40.066	None	
2400.001	40.066	41.550	39.841	All	
2500.001	40.462	41.620	40.388	All	
2500.000	40.620	41.570	40.462	All	
2500.002	40.388	41.640	40.271	All	
2500.003	40.196	41.150	40.019	All	
2500.004	40.019	41.110	39.926	All	
2500.005	39.926	40.450	39.488	All	
2506.000	40.150	41.110	40.001	All	
2706.000	39.730	40.320	39.347	All	
2900.000	39.480	40.380	39.336	All	
2900.001	39.336	40.500	39.119	All	
2900.003	39.001	40.230	38.949	All	
2900.004	38.949	40.200	38.299	All	
Pipe (196)	38.940	40.200	38.823	All	
2800.000	39.250	40.320	39.101	All	
2800.001	39.101	40.300	39.065	All	
2900.002	39.119	40.350	39.001	All	
2800.003	39.020	40.280	38.649	All	
2800.004	38.649	40.360	38.570	All	
2800.005	38.570	40.250	38.324	All	
2800.006	38.324	40.150	38.240	All	
2800.007	38.240	40.130	38.151	All	
Pipe (55)	38.350	40.680	38.310	None	
Pipe (90)	39.430	40.000	38.541	All	
Pipe (88)	42.660	43.850	42.512	All	
Pipe (37)	41.260	43.500	41.200	None	
Pipe (35)	41.200	43.540	41.182	All	
Pipe (211)	43.000	43.260	42.910	All	
Pipe (212)	42.280	44.500	42.158	All	
Pipe (85)	38.281	40.000	38.241	All	
Pipe (16)	37.833	39.600	37.824	All	
Pipe (7)	41.967	44.400	41.800	All	
Pipe (215)	42.008	44.390	41.967	All	
Pipe (14)	38.600	40.010	38.584	All	
Pipe (27)	37.851	39.600	37.833	All	
Pipe (62)	38.584	40.980	38.501	All	
305.001	42.849	44.650	42.718	All	
305.004	42.502	44.650	42.477	All	
305.005	42.477	44.650	42.385	All	
500.001	43.256	44.650	43.157	All	
500.002	43.157	44.780	43.109	All	
Pipe (8)	41.800	44.460	41.631	All	7.8
Pipe (9a)	41.631	44.350	41.610	All	
Pipe (9b)	41.535	44.250	41.433	All	
Pipe (11)	41.360	43.670	41.246	All	
Pipe (32)	41.246	43.260	41.115	All	
Pipe (33)	42.512	43.670	42.317	All	
305.000	43.100	44.650	42.849	All	

Project: UoM Residences DBFO Site Wide Proposed Surface Water Caculations		Date: 29/04/2026		
		Designed by: Nour Rashdan	Checked by: Johnny Hunt	
Report Details: Type: Connections Storm Phase: Full Site		Company Address: 20 Market Street Altrincham WA14 1PF		

900.000	43.350	44.350	43.273	All	
900.001	43.273	44.300	43.159	All	
900.002	43.084	43.523	43.000	All	
1100.004	42.783	44.350	42.565	All	
1100.002	42.966	44.350	42.886	All	
1100.001	43.125	44.350	42.966	All	
1100.007	43.219	44.460	43.120	All	
PP2	44.176	44.500	42.208	All	
100.000	43.425	44.550	43.361	All	
200.000	43.650	44.680	43.481	All	
PP8	44.290	44.780	43.170	None	
PP15	44.280	44.780	43.170	None	
PP16	44.020	44.480	42.863	All	
PP21	44.456	44.700	43.240	None	
PP4	43.870	44.400	42.362	All	
PP3	44.151	44.400	42.000	All	
PP10	43.870	44.500	42.208	All	
PP12	44.176	44.500	42.008	None	
Pipe (34)	44.151	44.500	42.498	All	
600.005	43.203	44.650	43.150	All	
600.006	43.150	44.630	43.079	All	
600.000	43.770	44.610	43.613	All	
601.000	43.640	44.610	43.613	All	
600.001	43.613	44.630	43.532	All	
610.001	43.190	44.780	43.120	All	
700.000	43.500	44.350	43.428	All	
700.001	43.428	44.460	43.399	All	
PP5	44.220	44.650	42.557	All	
PP	44.020	44.500	42.951	All	
PP7	43.915	44.400	42.000	All	
PP17	40.850	41.250	40.122	All	
1200.003	40.063	41.250	39.997	All	
PP11	40.850	41.040	39.825	All	
Pipe (58)	39.450	40.000	38.861	All	
Pipe (61)	39.730	40.000	38.733	None	
PP24	40.000	39.950	39.041	None	
PP23	39.900	39.950	39.041	None	
PP27	41.420	41.620	40.840	All	
PP28	41.450	41.640	40.321	All	
PP31	40.110	40.450	38.939	All	
PP32	40.000	40.250	38.712	All	
PP33	40.040	40.300	39.115	All	
PP36	39.950	40.100	38.263	All	
PP35	39.950	40.150	38.290	All	
1800.002	41.257	43.000	41.188	None	
PP30	39.870	40.300	39.300	All	
1906.000	40.718	42.250	40.645	All	
Pipe (29)	39.173	40.130	38.151	All	
PP37	43.990	44.490	43.626	All	
PP19	43.990	44.470	43.726	All	
PP1	43.970	44.490	43.120	All	
PP9	43.870	44.480	42.813	None	
PP25	40.080	39.950	39.041	None	
1903.002	38.876	40.700	38.661	All	
1200.001	40.401	41.400	40.311	All	
1304.003	40.495	41.950	40.266	All	
Pipe (44)	39.450	39.850	39.150	All	
100.001	43.361	44.550	43.263	All	
PP41	43.420	44.490	42.988	All	
Pipe (38)	39.500	40.460	39.104	All	
1600.003	38.899	40.000	38.811	All	
Pipe	39.500	40.000	38.541	All	
Pipe (15)	38.300	40.000	38.281	All	
Pipe (39)	44.210	44.490	43.699	All	

Project: UoM Residences DBFO Site Wide Proposed Surface Water Caculations		Date: 29/04/2026			
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Report Details: Type: Connections Storm Phase: Full Site		Company Address: 20 Market Street Altrincham WA14 1PF			

Pipe (4)	39.656	40.000	38.591	All	
Pipe (3)	44.506	44.780	42.682	All	
Pipe (2)	42.373	44.400	42.237	All	
Pipe (155) (1)	40.339	41.650	40.046	All	
PP26	42.470	42.550	41.310	All	
PP29	44.100	44.300	43.209	All	
2700.002	38.607	40.560	38.526	All	
2700.003	38.526	40.250	38.437	All	
2800.002	39.065	40.280	39.020	All	
2905.000	39.330	40.250	39.268	All	
PP34	40.010	40.360	38.620	All	
508.002	43.280	44.750	43.182	All	
1000.004	40.929	43.300	40.797	All	
1009.000	41.290	43.300	40.872	All	
2000.000	40.770	42.250	40.557	All	
2001.000	40.572	42.250	40.497	All	
2002.000	39.462	40.700	39.350	All	
Pipe (36)	41.182	43.260	41.115	All	
PP18	41.000	41.400	40.361	All	

Project: UoM Residences DBFO Site Wide Proposed Surface Water Calculations		Date: 29/04/2026			
		Designed by: Nour Rashdan	Checked by: Johnny Hunt		Approved By: Pedro Vicente
Report Details: Type: Manhole Schedule Storm Phase: Full Site		Company Address: 20 Market Street Altrincham WA14 1PF			

Name	Cover Level (m) Invert Level (m)	Manhole Size (m)	Connection Details				Type
Coordinates (m)	Depth (m)		Incoming Connections	Connection Type	Connection Invert (m)	Connection Size (mm)	Junction Type
			Outgoing Connections				Cover
SW603	44.630 43.532	Diameter / Length: 0.450	{1} 600.001	Pipe	43.532	Diam/Width:150	Manhole
E:385783.129 N:394280.150	1.098						
			{a} 600.002	Pipe	43.532	Diam/Width:150	Not Applicable
SW604	44.640 43.389	Diameter / Length: 0.600	{1} 600.002	Pipe	43.464	Diam/Width:150	Manhole
E:385783.604 N:394273.351	1.251						
			{a} 600.003	Pipe	43.389	Diam/Width:225	Not Applicable
SW605	44.620 43.259	Diameter / Length: 0.600	{1} 600.003	Pipe	43.259	Diam/Width:225	Manhole
E:385784.642 N:394258.517	1.361						
			{a} 600.004	Pipe	43.259	Diam/Width:225	Not Applicable
SW606	44.640 43.203	Diameter / Length: 0.600	{1} 600.004	Pipe	43.203	Diam/Width:225	Manhole
E:385778.156 N:394256.787	1.437						
			{a} 600.005	Pipe	43.203	Diam/Width:225	Not Applicable
SW608	44.630 43.079	Diameter / Length: 0.600	{1} 600.006	Pipe	43.079	Diam/Width:225	Manhole
E:385779.196 N:394241.915	1.551						
			{a} 600.007	Pipe	43.079	Diam/Width:225	Not Applicable

Project: UoM Residences DBFO Site Wide Proposed Surface Water Calculations		Date: 29/04/2026			
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Report Details: Type: Manhole Schedule Storm Phase: Full Site		Company Address: 20 Market Street Altrincham WA14 1PF			

Name	Cover Level (m) Invert Level (m)	Manhole Size (m)	Connection Details				Type
Coordinates (m)	Depth (m)		Incoming Connections	Connection Type	Connection Invert (m)	Connection Size (mm)	Junction Type
			Outgoing Connections				Cover
SW609	44.780 42.937	Diameter / Length: 1.200	{1} 600.007	Pipe	42.937	Diam/Width:225	Manhole
E:385762.264 N:394240.731	1.843		{2} 610.002	Pipe	43.012	Diam/Width:150	
			{a} Pipe (5)	Pipe	42.937	Diam/Width:225	Not Applicable
SW006	44.670 42.558	Diameter / Length: 1.200	{1} Pipe (5)	Pipe	42.558	Diam/Width:225	Manhole
E:385755.202 N:394232.400	2.112		{2} Pipe (31)	Pipe	42.633	Diam/Width:150	
			{a} Pipe (6)	Pipe	42.558	Diam/Width:225	Not Applicable
SW007	44.500 42.008	Diameter / Length: 1.500	{1} Pipe (6)	Pipe	42.083	Diam/Width:225	Manhole
E:385726.691 N:394224.654	2.492		{2} 508.004	Pipe	42.083	Diam/Width:225	
			{3} Pipe (212)	Pipe	42.158	Diam/Width:150	
			{4} PP2	Pipe	42.208	Diam/Width:100	
			{5} PP12	Pipe	42.208	Diam/Width:100	
			{6} PP10	Pipe	42.008	Diam/Width:100	
					42.208		
			{a} Pipe (215)	Pipe	42.008	Diam/Width:300	Not Applicable

Project: UoM Residences DBFO Site Wide Proposed Surface Water Calculations		Date: 29/04/2026			
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Report Details: Type: Manhole Schedule Storm Phase: Full Site		Company Address: 20 Market Street Altrincham WA14 1PF			

Name	Cover Level (m) Invert Level (m)	Manhole Size (m)	Connection Details				Type
Coordinates (m)	Depth (m)		Incoming Connections	Connection Type	Connection Invert (m)	Connection Size (mm)	Junction Type
			Outgoing Connections				Cover
SW008	44.400 41.800	Diameter / Length: 1.500	{1} 300.004	Pipe	41.875	Diam/Width:225	Manhole
E:385681.155	2.600		{2} Pipe (60)	Pipe	41.875	Diam/Width:225	
N:394220.850			{3} Pipe (7)	Pipe		Diam/Width:300	
			{4} PP3	Pipe	41.800	Diam/Width:100	
			{5} PP7	Pipe	42.000	Diam/Width:100	
					42.000		
		{a} Pipe (8)	Pipe	41.800	Diam/Width:150	Not Applicable	
SW009	44.250 41.433	Diameter / Length: 0.600	{1} Pipe (9b)	Pipe	41.433	Diam/Width:225	Manhole
E:385683.362	2.817						
N:394185.890			{a} Pipe (9)	Pipe	41.433	Diam/Width:225	Not Applicable
SW010	44.390 41.407	Diameter / Length: 0.600	{1} Pipe (9)	Pipe	41.407	Diam/Width:225	Manhole
E:385686.766	2.983						
N:394185.259				{a} Pipe (10)	Pipe	41.407	Diam/Width:225
SW011a	44.380 41.360	Diameter / Length: 1.200	{1} Pipe (10)	Pipe	41.360	Diam/Width:225	Manhole
E:385688.011	3.020		{2} Pipe (71)	Pipe	42.298	Diam/Width:150	
N:394178.650				{a} Pipe (11)		Pipe	41.360

Project: UoM Residences DBFO Site Wide Proposed Surface Water Calculations		Date: 29/04/2026			
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Report Details: Type: Manhole Schedule Storm Phase: Full Site		Company Address: 20 Market Street Altrincham WA14 1PF			

Name	Cover Level (m) Invert Level (m)	Manhole Size (m)	Connection Details				Type
Coordinates (m)	Depth (m)		Incoming Connections	Connection Type	Connection Invert (m)	Connection Size (mm)	Junction Type
			Outgoing Connections				Cover
SW012	43.260 41.115	Diameter / Length: 1.500	{1} Pipe (211)	Pipe	42.910	Diam/Width:150	Manhole
E:385703.385	2.145		{2} Pipe (32)	Pipe	41.115	Diam/Width:225	
N:394146.655			{3} Pipe (36)	Pipe	41.115	Diam/Width:225	
			{a} Pipe (12)	Pipe	41.115	Diam/Width:150	Not Applicable
SW013	43.170 41.011	Diameter / Length: 1.200	{1} Pipe (12)	Pipe	41.011	Diam/Width:150	Manhole
E:385703.632	2.159						
N:394138.303			{a} Pipe (13)	Pipe	41.011	Diam/Width:150	Not Applicable
SW1306	42.620 40.694	Diameter / Length: 1.200	{1} Pipe (13)	Pipe	40.769	Diam/Width:150	Manhole
E:385691.401	1.926		{2} 1304.001	Pipe	40.694	Diam/Width:225	
N:394130.835			{3} 1800.005	Pipe	40.694	Diam/Width:225	
			{a} 1304.002	Pipe	40.694	Diam/Width:225	Not Applicable
SW1308	41.950 40.266	Diameter / Length: 1.200	{1} Pipe (100)	Pipe	40.266	Diam/Width:225	Manhole
E:385693.883	1.684		{2} 1304.003	Pipe	40.266	Diam/Width:225	
N:394099.943			{a} 1304.004	Pipe	40.266	Diam/Width:225	Not Applicable

Project: UoM Residences DBFO Site Wide Proposed Surface Water Calculations		Date: 29/04/2026			
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Report Details: Type: Manhole Schedule Storm Phase: Full Site		Company Address: 20 Market Street Altrincham WA14 1PF			

Name	Cover Level (m) Invert Level (m)	Manhole Size (m)	Connection Details				Type
Coordinates (m)	Depth (m)		Incoming Connections	Connection Type	Connection Invert (m)	Connection Size (mm)	Junction Type
			Outgoing Connections				Cover
SW1405	41.600 38.965	Diameter / Length: 1.200	{1} 1304.004	Pipe	40.141	Diam/Width:225	Manhole
E:385682.746	2.635		{2} 1300.003	Pipe	39.808	Diam/Width:150	
N:394094.235			{3} 1401.003	Pipe	39.813	Diam/Width:150	
			{a} 1401.004	Pipe	38.965	Diam/Width:300	Not Applicable
SW017	41.530 38.747	Diameter / Length: 1.200	{1} 1401.004	Pipe	38.747	Diam/Width:300	Manhole
E:385692.234	2.783		{2} 1500.001	Pipe	40.151	Diam/Width:150	
N:394075.805			{a} Pipe (17)	Pipe	38.747	Diam/Width:300	Not Applicable
SW018	40.980 38.351	Diameter / Length: 1.500	{1} Pipe (17)	Pipe	38.501	Diam/Width:300	Manhole
E:385692.410	2.629		{2} 1700.004	Pipe	38.501	Diam/Width:300	
N:394051.192			{3} Pipe (62)	Pipe	38.501	Diam/Width:300	
			{a} Pipe (18)	Pipe	38.351	Diam/Width:450	Not Applicable
SW019	40.680 38.310	Diameter / Length: 1.500	{1} Pipe (18)	Pipe	38.310	Diam/Width:450	Manhole
E:385693.591	2.370		{2} 2200.004	Pipe	38.460	Diam/Width:300	
N:394038.815			{3} Pipe (55)	Pipe	38.310	Diam/Width:450	
			{a} Pipe (19)	Pipe	38.310	Diam/Width:450	Not Applicable

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Report Details: Type: Manhole Schedule Storm Phase: Full Site		Company Address: 20 Market Street Altrincham WA14 1PF			

Name	Cover Level (m) Invert Level (m)	Manhole Size (m)	Connection Details				Type
Coordinates (m)	Depth (m)		Incoming Connections	Connection Type	Connection Invert (m)	Connection Size (mm)	Junction Type
			Outgoing Connections				Cover
SW020	40.000 38.241	Diameter / Length: 2.700	{1} Pipe (19)	Pipe	38.241	Diam/Width:450	Manhole
E:385693.574	1.759		{2} Pipe (90)	Pipe	38.541	Diam/Width:150	
N:394018.391			{3} 1600.005	Pipe		Diam/Width:150	
			{4} Pipe	Pipe	38.541	Diam/Width:450	
			{5} Pipe (85)	Pipe	38.541	Diam/Width:100	
			{6} Pipe (4)	Pipe	38.241		
					38.591		
		{a} Pipe (20)	Pipe	38.241	Diam/Width:450	Not Applicable	
SW021	39.900 38.170	Diameter / Length: 1.350	{1} Pipe (20)	Pipe	38.170	Diam/Width:450	Manhole
E:385710.396	1.730						
N:394005.154			{a} Pipe (21)	Pipe	38.170	Diam/Width:450	Not Applicable
SW022	40.000 38.141	Diameter / Length: 1.350	{1} Pipe (21)	Pipe	38.141	Diam/Width:450	Manhole
E:385718.718	1.859						
N:394007.655			{a} Pipe (22)	Pipe	38.141	Diam/Width:450	Not Applicable
SW023	40.000 38.063	Diameter / Length: 1.350	{1} Pipe (22)	Pipe	38.063	Diam/Width:450	Manhole
E:385742.233	1.937						
N:394007.360			{a} Pipe (23)	Pipe	38.063	Diam/Width:450	Not Applicable

Project: UoM Residences DBFO Site Wide Proposed Surface Water Calculations		Date: 29/04/2026			
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Report Details: Type: Manhole Schedule Storm Phase: Full Site		Company Address: 20 Market Street Altrincham WA14 1PF			

Name	Cover Level (m) Invert Level (m)	Manhole Size (m)	Connection Details				Type
Coordinates (m)	Depth (m)		Incoming Connections	Connection Type	Connection Invert (m)	Connection Size (mm)	Junction Type
			Outgoing Connections				Cover
SW024	40.000 38.017	Diameter / Length: 1.350	{1} Pipe (23)	Pipe	38.017	Diam/Width:450	Manhole
E:385755.869 N:394007.449	1.983						
			{a} Pipe (24)	Pipe	38.017	Diam/Width:450	Not Applicable
SW025	39.800 37.956	Diameter / Length: 1.350	{1} Pipe (24)	Pipe	37.956	Diam/Width:450	Manhole
E:385773.294 N:394001.867	1.844		{2} 2301.000	Pipe	38.843	Diam/Width:150	
			{a} Pipe (25)	Pipe	37.956	Diam/Width:450	Not Applicable
SW026	40.100 37.913	Diameter / Length: 1.350	{1} Pipe (25)	Pipe	37.913	Diam/Width:450	Manhole
E:385785.450 N:393997.106	2.187		{2} Pipe (163)	Pipe	37.913	Diam/Width:450	
			{3} PP36	Pipe	38.263	Diam/Width:100	
			{a} Pipe (26)	Pipe	37.913	Diam/Width:450	Not Applicable
SW027	40.130 37.851	Diameter / Length: 1.500	{1} Pipe (26)	Pipe	37.851	Diam/Width:450	Manhole
E:385787.882 N:393978.654	2.279		{2} 2800.007	Pipe	38.151	Diam/Width:150	
			{3} Pipe (29)	Pipe	38.151	Diam/Width:150	
			{a} Pipe (27)	Pipe	37.851	Diam/Width:450	Not Applicable

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Name	Cover Level (m) Invert Level (m)	Manhole Size (m)	Connection Details				Type
Coordinates (m)	Depth (m)		Incoming Connections	Connection Type	Connection Invert (m)	Connection Size (mm)	Junction Type
			Outgoing Connections				Cover
SW028	39.600 37.824	Diameter / Length: 2.700	{1} Pipe (16)	Pipe	37.824	Diam/Width:375	Manhole
E:385767.648 N:393974.783	1.776						
			{a} Pipe (28)	Pipe	37.824	Diam/Width:375	Not Applicable
SW029	39.580 37.640	Diameter / Length: 1.200	{1} Pipe (28)	Pipe	37.640	Diam/Width:375	Manhole
E:385767.070 N:393944.004	1.940						
							Not Applicable
SW611	44.780 43.120	Diameter / Length: 0.450	{1} 610.001	Pipe	43.120	Diam/Width:150	Manhole
E:385759.964 N:394254.797	1.660		{2} PP15	Pipe	43.170	Diam/Width:100 Diam/Width:100	
			{3} PP8	Pipe	43.170		
			{a} 610.002	Pipe	43.120	Diam/Width:150	Not Applicable
SW031	44.490 43.070	Diameter / Length: 1.200	{1} PP1	Pipe	43.120	Diam/Width:100	Manhole
E:385783.450 N:394219.521	1.420		{2} Pipe (39)	Pipe	43.699	Diam/Width:100 Diam/Width:100	
			{3} PP37	Pipe	43.626		
			{a} Pipe (30)	Pipe	43.070	Diam/Width:150	Not Applicable

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Name	Cover Level (m) Invert Level (m)	Manhole Size (m)	Connection Details				Type
Coordinates (m)	Depth (m)		Incoming Connections	Connection Type	Connection Invert (m)	Connection Size (mm)	Junction Type
			Outgoing Connections				Cover
SW032	44.480 42.813	Diameter / Length: 1.200	{1} Pipe (30)	Pipe	42.813	Diam/Width:150	Manhole
E:385765.672	1.667		{2} PP16	Pipe	42.863	Diam/Width:100	
N:394217.785			{3} PP9	Pipe	42.813	Diam/Width:100	
			{a} Pipe (31)	Pipe	42.813	Diam/Width:150	Not Applicable
SW500	44.770 43.420	Diameter / Length: 0.450					Manhole
E:385743.830	1.350						
N:394284.450			{a} 500.000	Pipe	43.420	Diam/Width:150	Not Applicable
SW501	44.650 43.256	Diameter / Length: 0.450	{1} 500.000	Pipe	43.256	Diam/Width:150	Manhole
E:385744.524	1.394						
N:394271.352			{a} 500.001	Pipe	43.256	Diam/Width:150	Not Applicable
SW503	44.780 43.109	Diameter / Length: 0.450	{1} 500.002	Pipe	43.109	Diam/Width:150	Manhole
E:385745.347	1.671						
N:394259.595			{a} 500.003	Pipe	43.109	Diam/Width:150	Not Applicable
SW504	44.790 43.050	Diameter / Length: 0.450	{1} 500.003	Pipe	43.050	Diam/Width:150	Manhole
E:385740.693	1.740						
N:394258.918			{a} 500.004	Pipe	43.050	Diam/Width:150	Not Applicable

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Report Details: Type: Manhole Schedule Storm Phase: Full Site		Company Address: 20 Market Street Altrincham WA14 1PF			

Name	Cover Level (m) Invert Level (m)	Manhole Size (m)	Connection Details				Type
Coordinates (m)	Depth (m)		Incoming Connections	Connection Type	Connection Invert (m)	Connection Size (mm)	Junction Type
			Outgoing Connections				Cover
SW505	44.800 42.871	Diameter / Length: 0.450	{1} 500.004	Pipe	42.871	Diam/Width:150	Manhole
E:385741.695 N:394244.598	1.929						
			{a} 500.005	Pipe	42.871	Diam/Width:150	Not Applicable
SW506	44.640 42.755	Diameter / Length: 0.450	{1} 500.005	Pipe	42.755	Diam/Width:150	Manhole
E:385742.329 N:394235.402	1.885						
			{a} 500.006	Pipe	42.755	Diam/Width:150	Not Applicable
SW507	44.550 42.461	Diameter / Length: 0.600	{1} 500.006	Pipe	42.536	Diam/Width:150	Manhole
E:385726.212 N:394232.487	2.089		{2} 508.003	Pipe	42.536	Diam/Width:150	
			{a} 508.004	Pipe	42.461	Diam/Width:225	Not Applicable
SW509	44.790 43.331	Diameter / Length: 0.450	{1} 508.000	Pipe	43.331	Diam/Width:150	Manhole
E:385724.197 N:394259.642	1.459						
			{a} 508.001	Pipe	43.331	Diam/Width:150	Not Applicable
SW511	44.750 43.182	Diameter / Length: 0.450	{1} 508.002	Pipe	43.182	Diam/Width:150	Manhole
E:385725.274 N:394247.803	1.568						
			{a} 508.003	Pipe	43.182	Diam/Width:150	Not Applicable

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Report Details: Type: Manhole Schedule Storm Phase: Full Site		Company Address: 20 Market Street Altrincham WA14 1PF			

Name	Cover Level (m) Invert Level (m)	Manhole Size (m)	Connection Details				Type
Coordinates (m)	Depth (m)		Incoming Connections	Connection Type	Connection Invert (m)	Connection Size (mm)	Junction Type
			Outgoing Connections				Cover
SW300	44.380 42.925	Diameter / Length: 0.600					Manhole
E:385675.727 N:394281.748	1.455						
			{a} 300.000	Pipe	42.925	Diam/Width:225	Not Applicable
SW301	44.500 42.826	Diameter / Length: 0.600	{1} 300.000	Pipe	42.826	Diam/Width:225	Manhole
E:385683.497 N:394280.065	1.674		{2} PP	Pipe	42.951	Diam/Width:100	
			{a} 300.001	Pipe	42.826	Diam/Width:225	Not Applicable
SW508	44.790 43.440	Diameter / Length: 0.450					Manhole
E:385725.035 N:394268.321	1.350						
			{a} 508.000	Pipe	43.440	Diam/Width:150	Not Applicable
SW302	44.740 42.699	Diameter / Length: 0.600	{1} 300.001	Pipe	42.699	Diam/Width:225	Manhole
E:385682.581 N:394269.998	2.041						
			{a} 300.002	Pipe	42.699	Diam/Width:225	Not Applicable
SW303	44.650 42.432	Diameter / Length: 0.600	{1} 300.002	Pipe	42.432	Diam/Width:225	Manhole
E:385684.200 N:394248.692	2.218		{2} PP5	Pipe	42.557	Diam/Width:100	
			{a} 300.003	Pipe	42.432	Diam/Width:225	Not Applicable

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Name	Cover Level (m) Invert Level (m)	Manhole Size (m)	Connection Details				Type
Coordinates (m)	Depth (m)		Incoming Connections	Connection Type	Connection Invert (m)	Connection Size (mm)	Junction Type
			Outgoing Connections				Cover
SW304	44.550 42.202	Diameter / Length: 0.600	{1} 300.003	Pipe	42.202	Diam/Width:225	Manhole
E:385685.090 N:394230.291	2.348		{2} 305.006	Pipe	42.202	Diam/Width:225	
			{a} 300.004	Pipe	42.202	Diam/Width:225	Not Applicable
SW305	44.450 43.100	Diameter / Length: 0.450					Manhole
E:385700.679 N:394287.584	1.350		{a} 305.000	Pipe	43.100	Diam/Width:150	Not Applicable
SW307	44.650 42.643	Diameter / Length: 0.600	{1} 305.001	Pipe	42.718	Diam/Width:150	Manhole
E:385703.174 N:394256.927	2.007		{a} 305.002	Pipe	42.643	Diam/Width:225	Not Applicable
SW308	44.780 42.557	Diameter / Length: 0.600	{1} 305.002	Pipe	42.557	Diam/Width:225	Manhole
E:385698.819 N:394249.534	2.223		{2} Pipe (3)	Pipe	42.682	Diam/Width:100	
			{a} 305.003	Pipe	42.557	Diam/Width:225	Not Applicable
SW311	44.650 42.385	Diameter / Length: 0.600	{1} 305.005	Pipe	42.385	Diam/Width:225	Manhole
E:385700.174 N:394232.364	2.265		{a} 305.006	Pipe	42.385	Diam/Width:225	Not Applicable

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Name	Cover Level (m) Invert Level (m)	Manhole Size (m)	Connection Details				Type
Coordinates (m)	Depth (m)		Incoming Connections	Connection Type	Connection Invert (m)	Connection Size (mm)	Junction Type
			Outgoing Connections				Cover
SW100	44.680 43.425	Diameter / Length: 0.450					Manhole
E:385637.058 N:394264.830	1.255						
			{a} 100.000	Pipe	43.425	Diam/Width:150	Not Applicable
SW102	44.550 43.263	Diameter / Length: 0.450	{1} 100.001	Pipe	43.263	Diam/Width:150	Manhole
E:385634.316 N:394252.544	1.287						
			{a} 100.002	Pipe	43.263	Diam/Width:150	Not Applicable
SW103	44.470 43.116	Diameter / Length: 0.450	{1} 100.002	Pipe	43.116	Diam/Width:150	Manhole
E:385635.134 N:394240.823	1.354						
			{a} 100.003	Pipe	43.116	Diam/Width:150	Not Applicable
SW104	44.490 42.938	Diameter / Length: 0.450	{1} 100.003	Pipe	42.938	Diam/Width:150	Manhole
E:385637.723 N:394226.751	1.552		{2} PP41	Pipe	42.988	Diam/Width:100	
			{a} 100.004	Pipe	42.938	Diam/Width:150	Not Applicable
SW059	44.220 42.687	Diameter / Length: 1.500	{1} 100.004	Pipe	42.762	Diam/Width:150	Manhole
E:385641.002 N:394218.759	1.533						
			{a} Pipe (1)	Pipe	42.687	Diam/Width:225	Not Applicable

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Name	Cover Level (m) Invert Level (m)	Manhole Size (m)	Connection Details				Type
Coordinates (m)	Depth (m)		Incoming Connections	Connection Type	Connection Invert (m)	Connection Size (mm)	Junction Type
			Outgoing Connections				Cover
SW060	44.400 42.237	Diameter / Length: 1.200	{1} 200.003	Pipe	43.062	Diam/Width:150	Manhole
E:385676.749	2.163		{2} Pipe (2)	Pipe	42.237	Diam/Width:225	
N:394221.203			{3} PP4	Pipe	42.362	Diam/Width:100	
			{a} Pipe (60)	Pipe	42.237	Diam/Width:225	Not Applicable
SW200	44.700 43.650	Diameter / Length: 0.450					Manhole
E:385655.042	1.050						
N:394256.581			{a} 200.000	Pipe	43.650	Diam/Width:150	Not Applicable
SW201	44.680 43.481	Diameter / Length: 0.450	{1} 200.000	Pipe	43.481	Diam/Width:150	Manhole
E:385656.460	1.199						
N:394243.118			{a} 200.001	Pipe	43.481	Diam/Width:150	Not Applicable
SW202	44.610 43.273	Diameter / Length: 0.450	{1} 200.001	Pipe	43.273	Diam/Width:150	Manhole
E:385673.081	1.337						
N:394244.280			{a} 200.002	Pipe	43.273	Diam/Width:150	Not Applicable
SW203	44.600 43.175	Diameter / Length: 0.450	{1} 200.002	Pipe	43.175	Diam/Width:150	Manhole
E:385674.614	1.425						
N:394234.627			{a} 200.003	Pipe	43.175	Diam/Width:150	Not Applicable

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Name	Cover Level (m) Invert Level (m)	Manhole Size (m)	Connection Details				Type
Coordinates (m)	Depth (m)		Incoming Connections	Connection Type	Connection Invert (m)	Connection Size (mm)	Junction Type
			Outgoing Connections				Cover
SW700	44.350 43.500	Diameter / Length: 0.450					Manhole
E:385650.418 N:394205.390	0.850						
			{a} 700.000	Pipe	43.500	Diam/Width:150	Not Applicable
SW702	44.460 43.399	Diameter / Length: 0.450	{1} 700.001	Pipe	43.399	Diam/Width:150	Manhole
E:385651.577 N:394197.361	1.061						
			{a} 700.002	Pipe	43.399	Diam/Width:150	Not Applicable
SW703	44.480 43.319	Diameter / Length: 0.450	{1} 700.002	Pipe	43.319	Diam/Width:150	Manhole
E:385657.980 N:394197.502	1.161						
			{a} 700.003	Pipe	43.319	Diam/Width:150	Not Applicable
SW704	44.470 43.158	Diameter / Length: 0.450	{1} 700.003	Pipe	43.158	Diam/Width:150	Manhole
E:385659.016 N:394184.723	1.312						
			{a} 700.004	Pipe	43.158	Diam/Width:150	Not Applicable
SW705	44.000 42.782	Diameter / Length: 0.450	{1} 700.004	Pipe	42.782	Diam/Width:150	Manhole
E:385674.051 N:394185.292	1.218						
			{a} 700.005	Pipe	42.782	Diam/Width:150	Not Applicable

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Name	Cover Level (m) Invert Level (m)	Manhole Size (m)	Connection Details				Type
Coordinates (m)	Depth (m)		Incoming Connections	Connection Type	Connection Invert (m)	Connection Size (mm)	Junction Type
			Outgoing Connections				Cover
SW706	43.970 42.586	Diameter / Length: 0.450	{1} 700.005	Pipe	42.586	Diam/Width:150	Manhole
E:385676.496 N:394177.848	1.384						
			{a} Pipe (71)	Pipe	42.586	Diam/Width:150	Not Applicable
SW707	43.980 42.750	Diameter / Length: 0.450					Manhole
E:385655.525 N:394167.728	1.230						
			{a} 707.000	Pipe	42.750	Diam/Width:150	Not Applicable
SW708	43.960 42.694	Diameter / Length: 0.450	{1} 707.000	Pipe	42.694	Diam/Width:150	Manhole
E:385655.942 N:394161.765	1.266						
			{a} 707.001	Pipe	42.694	Diam/Width:150	Not Applicable
SW709	43.850 42.512	Diameter / Length: 1.500	{1} 707.001	Pipe	42.512	Diam/Width:150	Manhole
E:385675.393 N:394160.568	1.338		{2} Pipe (88)	Pipe	42.512	Diam/Width:150	
			{a} Pipe (33)	Pipe	42.512	Diam/Width:150	Not Applicable
SW1100	44.350 43.300	Diameter / Length: 0.450					Manhole
E:385737.072 N:394202.541	1.050						
			{a} 1100.000	Pipe	43.300	Diam/Width:150	Not Applicable

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Name	Cover Level (m) Invert Level (m)	Manhole Size (m)	Connection Details				Type
Coordinates (m)	Depth (m)		Incoming Connections	Connection Type	Connection Invert (m)	Connection Size (mm)	Junction Type
			Outgoing Connections				Cover
SW1101	44.490 43.125	Diameter / Length: 0.450	{1} 1100.000	Pipe	43.125	Diam/Width:150	Manhole
E:385739.500 N:394188.742	1.365						
			{a} 1100.001	Pipe	43.125	Diam/Width:150	Not Applicable
SW1103	44.350 42.886	Diameter / Length: 0.450	{1} 1100.002	Pipe	42.886	Diam/Width:150	Manhole
E:385740.834 N:394169.664	1.464						
			{a} 1100.003	Pipe	42.886	Diam/Width:150	Not Applicable
SW1104	44.350 42.783	Diameter / Length: 0.450	{1} 1100.003	Pipe	42.783	Diam/Width:150	Manhole
E:385741.407 N:394161.449	1.567						
			{a} 1100.004	Pipe	42.783	Diam/Width:150	Not Applicable
SW1109	44.470 43.054	Diameter / Length: 0.450	{1} 1100.008	Pipe	43.054	Diam/Width:150	Manhole
E:385722.580 N:394180.270	1.416						
			{a} 1100.009	Pipe	43.054	Diam/Width:150	Not Applicable
SW1105	44.350 41.260	Diameter / Length: 1.200	{1} 1100.009	Pipe	42.803	Diam/Width:150	Manhole
E:385723.981 N:394160.234	3.090		{2} 1100.004	Pipe	42.565	Diam/Width:150	
			{a} Pipe (37)	Pipe	41.260	Diam/Width:150	Not Applicable

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Name	Cover Level (m) Invert Level (m)	Manhole Size (m)	Connection Details				Type
Coordinates (m)	Depth (m)		Incoming Connections	Connection Type	Connection Invert (m)	Connection Size (mm)	Junction Type
			Outgoing Connections				Cover
SW1106	44.350 43.300	Diameter / Length: 0.450					Manhole
E:385718.515 N:394198.954	1.050						
			{a} 1100.006	Pipe	43.300	Diam/Width:150	Not Applicable
SW1107	44.350 43.219	Diameter / Length: 0.450	{1} 1100.006	Pipe	43.219	Diam/Width:150	Manhole
E:385718.965 N:394192.519	1.131						
			{a} 1100.007	Pipe	43.219	Diam/Width:150	Not Applicable
SW1108	44.460 43.120	Diameter / Length: 0.450	{1} 1100.007	Pipe	43.120	Diam/Width:150	Manhole
E:385719.522 N:394184.550	1.340						
			{a} 1100.008	Pipe	43.120	Diam/Width:150	Not Applicable
SW1800	42.900 41.386	Diameter / Length: 0.600					Manhole
E:385741.470 N:394131.659	1.514						
			{a} 1800.000	Pipe	41.386	Diam/Width:225	Not Applicable
SW1802	42.900 41.257	Diameter / Length: 0.600	{1} 1800.001	Pipe	41.257	Diam/Width:225	Manhole - Sealed
E:385731.170 N:394131.007	1.643						
			{a} 1800.002	Pipe	41.257	Diam/Width:225	Not Applicable

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Name	Cover Level (m) Invert Level (m)	Manhole Size (m)	Connection Details				Type
Coordinates (m)	Depth (m)		Incoming Connections	Connection Type	Connection Invert (m)	Connection Size (mm)	Junction Type
			Outgoing Connections				Cover
SW1803	43.000 41.188	Diameter / Length: 0.600	{1} 1800.002	Pipe	41.188	Diam/Width:225	Manhole
E:385730.754 N:394136.509	1.812						
			{a} 1800.003	Pipe	41.188	Diam/Width:225	Not Applicable
SW1804	43.050 41.070	Diameter / Length: 0.600	{1} 1800.003	Pipe	41.070	Diam/Width:225	Manhole
E:385721.371 N:394135.869	1.980						
			{a} 1800.004	Pipe	41.070	Diam/Width:225	Not Applicable
SW1805	43.200 40.858	Diameter / Length: 0.600	{1} 1800.004	Pipe	40.858	Diam/Width:225	Manhole
E:385704.440 N:394134.676	2.342						
			{a} 1800.005	Pipe	40.858	Diam/Width:225	Not Applicable
SW1304	42.550 41.260	Diameter / Length: 0.450	{1} PP26	Pipe	41.310	Diam/Width:100	Manhole
E:385671.901 N:394129.472	1.290						
			{a} 1304.000	Pipe	41.260	Diam/Width:150	Not Applicable
SW1806	43.100 40.985	Diameter / Length: 0.450					Manhole
E:385736.063 N:394115.620	2.115						
			{a} 1801.000	Pipe	40.985	Diam/Width:150	Not Applicable

Project: UoM Residences DBFO Site Wide Proposed Surface Water Calculations		Date: 29/04/2026			
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Report Details: Type: Manhole Schedule Storm Phase: Full Site		Company Address: 20 Market Street Altrincham WA14 1PF			

Name	Cover Level (m) Invert Level (m)	Manhole Size (m)	Connection Details				Type
Coordinates (m)	Depth (m)		Incoming Connections	Connection Type	Connection Invert (m)	Connection Size (mm)	Junction Type
			Outgoing Connections				Cover
SW1807	42.950 40.776	Diameter / Length: 0.450	{1} 1801.000	Pipe	40.776	Diam/Width:150	Manhole
E:385719.433 N:394114.448	2.174						
			{a} 1801.001	Pipe	40.776	Diam/Width:150	Not Applicable
SW1808	42.950 40.709	Diameter / Length: 0.450	{1} 1801.001	Pipe	40.709	Diam/Width:150	Manhole
E:385719.115 N:394119.840	2.241						
			{a} 1801.002	Pipe	40.709	Diam/Width:150	Not Applicable
SW1809	42.950 40.678	Diameter / Length: 0.450	{1} 1801.002	Pipe	40.678	Diam/Width:150	Manhole
E:385716.655 N:394119.667	2.272						
			{a} 1801.003	Pipe	40.678	Diam/Width:150	Not Applicable
SW1810	42.740 40.424	Diameter / Length: 1.200	{1} 1900.002	Pipe	40.499	Diam/Width:225	Manhole
E:385705.847 N:394110.321	2.316		{2} 1801.003	Pipe	40.499	Diam/Width:150	
			{a} Pipe (100)	Pipe	40.424	Diam/Width:225	Not Applicable
SW1900	42.150 41.000	Diameter / Length: 0.450					Manhole
E:385714.062 N:394088.579	1.150						
			{a} 1900.000	Pipe	41.000	Diam/Width:150	Not Applicable

Project: UoM Residences DBFO Site Wide Proposed Surface Water Calculations		Date: 29/04/2026			
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Name	Cover Level (m) Invert Level (m)	Manhole Size (m)	Connection Details				Type
Coordinates (m)	Depth (m)		Incoming Connections	Connection Type	Connection Invert (m)	Connection Size (mm)	Junction Type
			Outgoing Connections				Cover
SW1901	42.300 40.937	Diameter / Length: 0.450	{1} 1900.000	Pipe	40.937	Diam/Width:150	Manhole
E:385713.719 N:394093.637	1.363						
			{a} 1900.001	Pipe	40.937	Diam/Width:150	Not Applicable
SW1902	42.200 40.730	Diameter / Length: 0.450	{1} 1900.001	Pipe	40.805	Diam/Width:150	Manhole
E:385712.976 N:394104.107	1.470						
			{a} 1900.002	Pipe	40.730	Diam/Width:225	Not Applicable
SW1300	41.500 40.450	Diameter / Length: 0.450					Manhole
E:385637.987 N:394109.212	1.050						
			{a} 1300.000	Pipe	40.450	Diam/Width:150	Not Applicable
SW1302	42.050 40.186	Diameter / Length: 0.450	{1} 1300.001	Pipe	40.186	Diam/Width:150	Manhole
E:385659.048 N:394110.685	1.864						
			{a} 1300.002	Pipe	40.186	Diam/Width:150	Not Applicable
SW1303	42.530 39.947	Diameter / Length: 0.450	{1} 1300.002	Pipe	39.947	Diam/Width:150	Manhole
E:385676.790 N:394103.624	2.583						
			{a} 1300.003	Pipe	39.947	Diam/Width:150	Not Applicable

Project: UoM Residences DBFO Site Wide Proposed Surface Water Calculations		Date: 29/04/2026			
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Name	Cover Level (m) Invert Level (m)	Manhole Size (m)	Connection Details				Type
Coordinates (m)	Depth (m)		Incoming Connections	Connection Type	Connection Invert (m)	Connection Size (mm)	Junction Type
			Outgoing Connections				Cover
SW1305	42.600 40.804	Diameter / Length: 0.600	{1} 1304.000	Pipe	40.879	Diam/Width:150	Manhole
E:385687.006 N:394130.528	1.796						
			{a} 1304.001	Pipe	40.804	Diam/Width:225	Not Applicable
SW1401	41.500 40.450	Diameter / Length: 0.450					Manhole
E:385636.600 N:394086.046	1.050						
			{a} 1401.000	Pipe	40.450	Diam/Width:150	Not Applicable
SW1402	41.350 40.211	Diameter / Length: 0.450	{1} 1401.000	Pipe	40.211	Diam/Width:150	Manhole
E:385655.666 N:394087.380	1.139						
			{a} 1401.001	Pipe	40.211	Diam/Width:150	Not Applicable
SW1403	41.350 40.157	Diameter / Length: 0.450	{1} 1401.001	Pipe	40.157	Diam/Width:150	Manhole
E:385655.364 N:394091.697	1.193						
			{a} 1401.002	Pipe	40.157	Diam/Width:150	Not Applicable
SW1404	41.480 39.880	Diameter / Length: 0.450	{1} 1401.002	Pipe	39.880	Diam/Width:150	Manhole
E:385677.460 N:394093.242	1.600						
			{a} 1401.003	Pipe	39.880	Diam/Width:150	Not Applicable

Project: UoM Residences DBFO Site Wide Proposed Surface Water Calculations		Date: 29/04/2026			
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Name	Cover Level (m) Invert Level (m)	Manhole Size (m)	Connection Details				Type
Coordinates (m)	Depth (m)		Incoming Connections	Connection Type	Connection Invert (m)	Connection Size (mm)	Junction Type
			Outgoing Connections				Cover
SW1500	41.480 40.430	Diameter / Length: 0.450					Manhole
E:385670.171 N:394077.915	1.050						
			{a} 1500.000	Pipe	40.430	Diam/Width:150	Not Applicable
SW1501	41.480 40.326	Diameter / Length: 0.450	{1} 1500.000	Pipe	40.326	Diam/Width:150	Manhole
E:385678.491 N:394078.497	1.154						
			{a} 1500.001	Pipe	40.326	Diam/Width:150	Not Applicable
SW1200	42.100 40.870	Diameter / Length: 0.450					Manhole
E:385628.597 N:394133.443	1.230						
			{a} 1200.000	Pipe	40.870	Diam/Width:150	Not Applicable
SW1202	41.400 40.311	Diameter / Length: 0.450	{1} 1200.001	Pipe	40.311	Diam/Width:150	Manhole
E:385621.558 N:394123.398	1.089		{2} PP18	Pipe	40.361	Diam/Width:100	
			{a} 1200.002	Pipe	40.311	Diam/Width:150	Not Applicable
SW1203	41.270 40.063	Diameter / Length: 0.600	{1} 1200.002	Pipe	40.138	Diam/Width:150	Manhole
E:385622.763 N:394106.165	1.207						
			{a} 1200.003	Pipe	40.063	Diam/Width:225	Not Applicable

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Name	Cover Level (m) Invert Level (m)	Manhole Size (m)	Connection Details				Type
Coordinates (m)	Depth (m)		Incoming Connections	Connection Type	Connection Invert (m)	Connection Size (mm)	Junction Type
			Outgoing Connections				Cover
SW1206	41.000 39.776	Diameter / Length: 0.600	{1} 1200.005	Pipe	39.776	Diam/Width:225	Manhole
E:385621.059 N:394077.733	1.224						
			{a} 1200.006	Pipe	39.776	Diam/Width:225	Not Applicable
SW1204	41.250 39.997	Diameter / Length: 0.600	{1} 1200.003	Pipe	39.997	Diam/Width:225	Manhole
E:385620.953 N:394099.825	1.253		{2} PP17	Pipe	40.122	Diam/Width:100	
			{a} 1200.004	Pipe	39.997	Diam/Width:225	Not Applicable
SW1205	41.150 39.896	Diameter / Length: 0.600	{1} 1200.004	Pipe	39.896	Diam/Width:225	Manhole
E:385620.905 N:394089.739	1.254						
			{a} 1200.005	Pipe	39.896	Diam/Width:225	Not Applicable
SW1207	41.040 39.700	Diameter / Length: 0.600	{1} 1200.006	Pipe	39.700	Diam/Width:225	Manhole
E:385621.157 N:394070.150	1.340		{2} PP11	Pipe	39.825	Diam/Width:100	
			{a} 1200.007	Pipe	39.700	Diam/Width:225	Not Applicable
SW1208	41.200 39.446	Diameter / Length: 0.600	{1} 1200.007	Pipe	39.446	Diam/Width:225	Manhole
E:385641.499 N:394070.520	1.754		{2} 1400.000	Pipe	39.521	Diam/Width:150	
			{a} 1200.008	Pipe	39.446	Diam/Width:225	Not Applicable

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Name	Cover Level (m) Invert Level (m)	Manhole Size (m)	Connection Details				Type
Coordinates (m)	Depth (m)		Incoming Connections	Connection Type	Connection Invert (m)	Connection Size (mm)	Junction Type
			Outgoing Connections				Cover
SW1209	39.950 39.041	Diameter / Length: 1.200	{1} 1200.008	Pipe	39.041	Diam/Width:225	Manhole
E:385642.288	0.909		{2} PP23	Pipe	39.041	Diam/Width:100	
N:394061.674			{3} PP24	Pipe		Diam/Width:100	
			{4} PP25	Pipe	39.041	Diam/Width:100	
			{5} 1606.000	Pipe	39.041	Diam/Width:225	
						39.041	
		{a} 1200.009	Pipe	39.041	Diam/Width:225	Not Applicable	
SW1704	40.020 38.675	Diameter / Length: 1.200	{1} 1200.009	Pipe	38.750	Diam/Width:225	Manhole
E:385668.894	1.345		{2} 1700.003	Pipe	38.825	Diam/Width:150	
N:394049.415			{a} 1700.004	Pipe		38.675	Diam/Width:300
SW1400	41.300 39.840	Diameter / Length: 0.450					Manhole
E:385654.745	1.460						
N:394072.178			{a} 1400.000	Pipe	39.840	Diam/Width:150	Not Applicable
SW1606	40.000 39.169	Diameter / Length: 0.600					Manhole
E:385623.344	0.831						
N:394058.533			{a} 1606.000	Pipe	39.169	Diam/Width:225	Not Applicable

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Name	Cover Level (m) Invert Level (m)	Manhole Size (m)	Connection Details				Type
Coordinates (m)	Depth (m)		Incoming Connections	Connection Type	Connection Invert (m)	Connection Size (mm)	Junction Type
			Outgoing Connections				Cover
SW1700	40.100 39.200	Diameter / Length: 0.450					Manhole
E:385644.310 N:394039.203	0.900						
			{a} 1700.000	Pipe	39.200	Diam/Width:150	Not Applicable
SW1701	40.150 39.149	Diameter / Length: 0.450	{1} 1700.000	Pipe	39.149	Diam/Width:150	Manhole
E:385646.039 N:394034.952	1.001						
			{a} 1700.001	Pipe	39.149	Diam/Width:150	Not Applicable
SW1702	40.150 38.973	Diameter / Length: 0.450	{1} 1700.001	Pipe	38.973	Diam/Width:150	Manhole
E:385663.206 N:394038.728	1.177						
			{a} 1700.002	Pipe	38.973	Diam/Width:150	Not Applicable
SW1703	40.100 38.885	Diameter / Length: 0.450	{1} 1700.002	Pipe	38.885	Diam/Width:150	Manhole
E:385662.590 N:394047.539	1.215						
			{a} 1700.003	Pipe	38.885	Diam/Width:150	Not Applicable
SW2200	40.460 39.167	Diameter / Length: 0.450					Manhole
E:385747.898 N:394025.732	1.293						
			{a} 2200.000	Pipe	39.167	Diam/Width:150	Not Applicable

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Name	Cover Level (m) Invert Level (m)	Manhole Size (m)	Connection Details				Type
Coordinates (m)	Depth (m)		Incoming Connections	Connection Type	Connection Invert (m)	Connection Size (mm)	Junction Type
			Outgoing Connections				Cover
SW2300	40.350 39.300	Diameter / Length: 0.450					Manhole
E:385756.355 N:394039.631	1.050						
			{a} 2300.000	Pipe	39.300	Diam/Width:150	Not Applicable
SW2201	40.460 39.104	Diameter / Length: 1.200	{1} 2300.000	Pipe	39.104	Diam/Width:150	Manhole
E:385742.924 N:394025.392	1.356		{2} 2200.000	Pipe	39.104	Diam/Width:150	
			{3} Pipe (38)	Pipe	39.104	Diam/Width:150	
			{a} 2200.001	Pipe	39.104	Diam/Width:150	Not Applicable
SW2202	40.470 38.868	Diameter / Length: 0.600	{1} 2200.001	Pipe	38.943	Diam/Width:150	Manhole
E:385726.761 N:394025.390	1.602						
			{a} 2200.002	Pipe	38.868	Diam/Width:225	Not Applicable
SW2203	40.400 38.781	Diameter / Length: 0.600	{1} 2200.002	Pipe	38.781	Diam/Width:225	Manhole
E:385726.562 N:394035.845	1.619						
			{a} 2200.003	Pipe	38.781	Diam/Width:225	Not Applicable

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Name	Cover Level (m) Invert Level (m)	Manhole Size (m)	Connection Details				Type
Coordinates (m)	Depth (m)		Incoming Connections	Connection Type	Connection Invert (m)	Connection Size (mm)	Junction Type
			Outgoing Connections				Cover
SW2204	40.700 38.586	Diameter / Length: 1.200	{1} 2200.003	Pipe	38.661	Diam/Width:225	Manhole
E:385712.323	2.114		{2} 1903.002	Pipe	38.661	Diam/Width:225	
N:394043.070			{3} 2002.000	Pipe	39.350	Diam/Width:150	
			{a} 2200.004	Pipe	38.586	Diam/Width:300	Not Applicable
SW1903	42.150 41.000	Diameter / Length: 0.450					Manhole
E:385710.642	1.150						
N:394067.104			{a} 1903.000	Pipe	41.000	Diam/Width:150	Not Applicable
SW1904	42.150 40.846	Diameter / Length: 0.450	{1} 1903.000	Pipe	40.921	Diam/Width:150	Manhole
E:385711.085	1.304						
N:394060.766			{a} 1903.001	Pipe	40.846	Diam/Width:225	Not Applicable
SW1600	39.850 39.100	Diameter / Length: 0.450	{1} Pipe (44)	Pipe	39.150	Diam/Width:100	Manhole
E:385623.911	0.750						
N:394020.967			{a} 1600.000	Pipe	39.100	Diam/Width:150	Not Applicable
SW1601	40.000 38.995	Diameter / Length: 0.450	{1} 1600.000	Pipe	38.995	Diam/Width:150	Manhole
E:385636.479	1.005						
N:394021.847			{a} 1600.001	Pipe	38.995	Diam/Width:150	Not Applicable

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Name	Cover Level (m) Invert Level (m)	Manhole Size (m)	Connection Details				Type
Coordinates (m)	Depth (m)		Incoming Connections	Connection Type	Connection Invert (m)	Connection Size (mm)	Junction Type
			Outgoing Connections				Cover
SW1602	39.850 38.940	Diameter / Length: 0.450	{1} 1600.001	Pipe	38.940	Diam/Width:150	Manhole
E:385642.408 N:394019.072	0.910						
			{a} 1600.002	Pipe	38.940	Diam/Width:150	Not Applicable
SW1604	40.000 38.811	Diameter / Length: 0.450	{1} 1600.003	Pipe	38.811	Diam/Width:150	Manhole
E:385657.901 N:394020.340	1.189		{2} Pipe (58)	Pipe	38.861	Diam/Width:100	
			{a} 1600.004	Pipe	38.811	Diam/Width:150	Not Applicable
SW1605	40.000 38.683	Diameter / Length: 0.450	{1} 1600.004	Pipe	38.683	Diam/Width:150	Manhole
E:385673.107 N:394018.476	1.317		{2} Pipe (61)	Pipe	38.733	Diam/Width:100	
			{a} 1600.005	Pipe	38.683	Diam/Width:150	Not Applicable
SW2301	40.000 38.950	Diameter / Length: 0.450					Manhole
E:385766.946 N:394007.592	1.050		{a} 2301.000	Pipe	38.950	Diam/Width:150	Not Applicable
SW1000	44.470 43.120	Diameter / Length: 0.450					Manhole
E:385813.702 N:394220.334	1.350		{a} 1000.000	Pipe	43.120	Diam/Width:150	Not Applicable

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Name	Cover Level (m) Invert Level (m)	Manhole Size (m)	Connection Details				Type
Coordinates (m)	Depth (m)		Incoming Connections	Connection Type	Connection Invert (m)	Connection Size (mm)	Junction Type
			Outgoing Connections				Cover
SW1001	44.470 43.009	Diameter / Length: 1.200	{1} 1000.000	Pipe	43.009	Diam/Width:150	Manhole
E:385804.872 N:394219.522	1.461		{2} PP19	Pipe	43.726	Diam/Width:100	
			{a} 1000.001	Pipe	43.009	Diam/Width:150	Not Applicable
SW1002	44.460 42.780	Diameter / Length: 0.450	{1} 1000.001	Pipe	42.780	Diam/Width:150	Manhole
E:385791.211 N:394207.325	1.680						
			{a} 1000.002	Pipe	42.780	Diam/Width:150	Not Applicable
SW1003	44.080 41.025	Diameter / Length: 1.200	{1} 1000.008	Pipe	42.405	Diam/Width:225	Manhole
E:385794.217 N:394160.831	3.055		{2} 1000.002	Pipe	42.198	Diam/Width:150	
			{a} 1000.003	Pipe	41.025	Diam/Width:225	Not Applicable
SW1005	43.300 40.797	Diameter / Length: 0.600	{1} 1000.004	Pipe	40.797	Diam/Width:225	Manhole
E:385780.370 N:394142.826	2.503		{2} 1009.000	Pipe	40.872	Diam/Width:150	
			{a} 1000.005	Pipe	40.797	Diam/Width:225	Not Applicable
SW2407	41.700 40.487	Diameter / Length: 0.600	{1} 1000.005	Pipe	40.487	Diam/Width:225	Manhole
E:385783.658 N:394112.044	1.213		{2} 2405.001	Pipe	40.562	Diam/Width:150	
			{a} Pipe (155)	Pipe	40.487	Diam/Width:225	Not Applicable

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Name	Cover Level (m) Invert Level (m)	Manhole Size (m)	Connection Details				Type
Coordinates (m)	Depth (m)		Incoming Connections	Connection Type	Connection Invert (m)	Connection Size (mm)	Junction Type
			Outgoing Connections				Cover
SW156	41.650 40.046	Diameter / Length: 1.200	{1} 2100.008	Pipe	40.046	Diam/Width:225	Manhole
E:385787.772 N:394073.528	1.604		{2} Pipe (155) (1)	Pipe	40.046	Diam/Width:225	
			{a} Pipe (156)	Pipe	40.046	Diam/Width:225	Not Applicable
SW2402	41.550 39.691	Diameter / Length: 1.200	{1} Pipe (156)	Pipe	39.766	Diam/Width:225	Manhole
E:385795.456 N:394069.775	1.859		{2} 2400.001	Pipe	39.841	Diam/Width:150	
			{a} 2400.002	Pipe	39.691	Diam/Width:300	Not Applicable
SW2404	41.210 38.981	Diameter / Length: 1.200	{1} 2400.003	Pipe	39.056	Diam/Width:300	Manhole
E:385796.637 N:394053.218	2.229						
			{a} 2400.004	Pipe	38.981	Diam/Width:375	Not Applicable
SW2700	40.650 38.881	Diameter / Length: 1.350	{1} 2400.004	Pipe	38.881	Diam/Width:375	Manhole
E:385809.040 N:394044.743	1.769						
			{a} 2700.000	Pipe	38.881	Diam/Width:375	Not Applicable

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	Designed by: Nour Rashdan	Checked by: Johnny Hunt	Approved By: Pedro Vicente	
Report Details: Type: Manhole Schedule Storm Phase: Full Site	Company Address: 20 Market Street Altrincham WA14 1PF			

Name	Cover Level (m) Invert Level (m)	Manhole Size (m)	Connection Details				Type
Coordinates (m)	Depth (m)		Incoming Connections	Connection Type	Connection Invert (m)	Connection Size (mm)	Junction Type
			Outgoing Connections				Cover
SW2701	40.450 38.664	Diameter / Length: 1.200	{1} 2700.000	Pipe	38.664	Diam/Width:375	Manhole
E:385841.513	1.786		{2} 2500.005	Pipe	39.488	Diam/Width:225	
N:394047.014			{3} PP31	Pipe		38.939	
			{a} 2700.001	Pipe	38.664	Diam/Width:375	Not Applicable
SW2704	40.250 38.437	Diameter / Length: 1.350	{1} 2700.003	Pipe	38.437	Diam/Width:375	Manhole
E:385843.884	1.813		{2} 2905.000	Pipe	39.268	Diam/Width:150	
N:394013.104			{3} PP32	Pipe		38.712	
			{a} 2700.004	Pipe	38.437	Diam/Width:375	Not Applicable
SW2705	40.320 38.222	Diameter / Length: 1.200	{1} 2700.004	Pipe	38.222	Diam/Width:375	Manhole
E:385811.799	2.098		{2} 2706.000	Pipe	39.347	Diam/Width:150	
N:394010.072			{a} 2700.005	Pipe		38.222	Diam/Width:375
SW163	40.200 37.999	Diameter / Length: 1.350	{1} 2700.005	Pipe	38.074	Diam/Width:375	Manhole
E:385789.705	2.201		{2} 2900.004	Pipe	38.299	Diam/Width:150	
N:394007.061			{3} Pipe (196)	Pipe		38.823	
			{a} Pipe (163)	Pipe	37.999	Diam/Width:450	Not Applicable

Project: UoM Residences DBFO Site Wide Proposed Surface Water Calculations		Date: 29/04/2026			
		Designed by: Nour Rashdan	Checked by: Johnny Hunt		Approved By: Pedro Vicente
Report Details: Type: Manhole Schedule Storm Phase: Full Site		Company Address: 20 Market Street Altrincham WA14 1PF			

Name	Cover Level (m) Invert Level (m)	Manhole Size (m)	Connection Details				Type
Coordinates (m)	Depth (m)		Incoming Connections	Connection Type	Connection Invert (m)	Connection Size (mm)	Junction Type
			Outgoing Connections				Cover
SW1006	44.480 43.130	Diameter / Length: 0.600					Manhole
E:385827.914 N:394189.213	1.350						
			{a} 1000.006	Pipe	43.130	Diam/Width:150	Not Applicable
SW1007	44.470 42.764	Diameter / Length: 0.600	{1} 1000.006	Pipe	42.839	Diam/Width:150	Manhole
E:385829.549 N:394166.021	1.706						
			{a} 1000.007	Pipe	42.764	Diam/Width:225	Not Applicable
SW1008	44.380 42.658	Diameter / Length: 0.600	{1} 1000.007	Pipe	42.658	Diam/Width:225	Manhole
E:385819.370 N:394163.025	1.722						
			{a} 1000.008	Pipe	42.658	Diam/Width:225	Not Applicable
SW2405	41.620 40.790	Diameter / Length: 0.450	{1} PP27	Pipe	40.840	Diam/Width:100	Manhole
E:385802.692 N:394112.948	0.830						
			{a} 2405.000	Pipe	40.790	Diam/Width:150	Not Applicable
SW2406	41.640 40.680	Diameter / Length: 0.450	{1} 2405.000	Pipe	40.680	Diam/Width:150	Manhole
E:385793.648 N:394113.111	0.960						
			{a} 2405.001	Pipe	40.680	Diam/Width:150	Not Applicable

Project: UoM Residences DBFO Site Wide Proposed Surface Water Calculations		Date: 29/04/2026			
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Report Details: Type: Manhole Schedule Storm Phase: Full Site		Company Address: 20 Market Street Altrincham WA14 1PF			

Name	Cover Level (m) Invert Level (m)	Manhole Size (m)	Connection Details				Type
Coordinates (m)	Depth (m)		Incoming Connections	Connection Type	Connection Invert (m)	Connection Size (mm)	Junction Type
			Outgoing Connections				Cover
SW1906	42.050 40.718	Diameter / Length: 0.450					Manhole
E:385739.967 N:394081.388	1.332						
			{a} 1906.000	Pipe	40.718	Diam/Width:150	Not Applicable
SW2102	42.270 40.776	Diameter / Length: 0.450	{1} 2100.001	Pipe	40.776	Diam/Width:150	Manhole
E:385749.115 N:394093.204	1.494						
			{a} 2100.002	Pipe	40.776	Diam/Width:150	Not Applicable
SW2104	42.250 40.482	Diameter / Length: 0.600	{1} 2100.003	Pipe	40.482	Diam/Width:225	Manhole
E:385746.518 N:394073.771	1.768		{2} 2000.000	Pipe	40.557	Diam/Width:150	
			{a} 2100.004	Pipe	40.482	Diam/Width:225	Not Applicable
SW2106	42.280 40.355	Diameter / Length: 0.600	{1} 2100.005	Pipe	40.355	Diam/Width:225	Manhole
E:385747.641 N:394061.105	1.925						
			{a} 2100.006	Pipe	40.355	Diam/Width:225	Not Applicable
SW2107	42.270 40.249	Diameter / Length: 0.600	{1} 2100.006	Pipe	40.249	Diam/Width:225	Manhole
E:385763.502 N:394062.214	2.021						
			{a} 2100.007	Pipe	40.249	Diam/Width:225	Not Applicable

Project: UoM Residences DBFO Site Wide Proposed Surface Water Calculations		Date: 29/04/2026		
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Name	Cover Level (m) Invert Level (m)	Manhole Size (m)	Connection Details				Type
Coordinates (m)	Depth (m)		Incoming Connections	Connection Type	Connection Invert (m)	Connection Size (mm)	Junction Type
			Outgoing Connections				Cover
SW2105	42.250 40.422	Diameter / Length: 1.200	{1} 2100.004	Pipe	40.422	Diam/Width:225	Manhole
E:385746.876 N:394067.739	1.828		{2} 2001.000	Pipe	40.497	Diam/Width:150	
			{a} 2100.005	Pipe	40.422	Diam/Width:225	Not Applicable
SW2108	42.180 40.181	Diameter / Length: 0.600	{1} 2100.007	Pipe	40.181	Diam/Width:225	Manhole
E:385767.655 N:394071.508	1.999		{2} 2100.009	Pipe	40.256	Diam/Width:150	
			{a} 2100.008	Pipe	40.181	Diam/Width:225	Not Applicable
SW2109	42.280 40.500	Diameter / Length: 0.450					Manhole
E:385766.544 N:394081.922	1.780						
			{a} 2100.009	Pipe	40.500	Diam/Width:150	Not Applicable
SW2400	41.690 40.340	Diameter / Length: 0.450					Manhole
E:385811.813 N:394093.432	1.350						
			{a} 2400.000	Pipe	40.340	Diam/Width:150	Not Applicable
SW2403	41.570 39.360	Diameter / Length: 0.600	{1} 2400.002	Pipe	39.360	Diam/Width:300	Manhole
E:385796.046 N:394061.514	2.210						
			{a} 2400.003	Pipe	39.360	Diam/Width:300	Not Applicable

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Report Details: Type: Manhole Schedule Storm Phase: Full Site		Company Address: 20 Market Street Altrincham WA14 1PF			

Name	Cover Level (m) Invert Level (m)	Manhole Size (m)	Connection Details				Type
Coordinates (m)	Depth (m)		Incoming Connections	Connection Type	Connection Invert (m)	Connection Size (mm)	Junction Type
			Outgoing Connections				Cover
SW2401	41.650 40.066	Diameter / Length: 0.450	{1} 2400.000	Pipe	40.066	Diam/Width:150	Manhole
E:385813.374 N:394071.554	1.584						
			{a} 2400.001	Pipe	40.066	Diam/Width:150	Not Applicable
SW2500	41.570 40.620	Diameter / Length: 0.450					Manhole
E:385826.534 N:394105.116	0.950						
			{a} 2500.000	Pipe	40.620	Diam/Width:150	Not Applicable
SW2501	41.570 40.462	Diameter / Length: 0.450	{1} 2500.000	Pipe	40.462	Diam/Width:150	Manhole
E:385827.430 N:394092.545	1.108						
			{a} 2500.001	Pipe	40.462	Diam/Width:150	Not Applicable
SW2502	41.620 40.388	Diameter / Length: 0.450	{1} 2500.001	Pipe	40.388	Diam/Width:150	Manhole
E:385830.311 N:394087.286	1.232						
			{a} 2500.002	Pipe	40.388	Diam/Width:150	Not Applicable
SW2503	41.640 40.196	Diameter / Length: 0.450	{1} 2500.002	Pipe	40.271	Diam/Width:150	Manhole
E:385831.471 N:394078.060	1.444		{2} PP28	Pipe	40.321	Diam/Width:100	
			{a} 2500.003	Pipe	40.196	Diam/Width:225	Not Applicable

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Report Details: Type: Manhole Schedule Storm Phase: Full Site		Company Address: 20 Market Street Altrincham WA14 1PF			

Name	Cover Level (m) Invert Level (m)	Manhole Size (m)	Connection Details				Type
Coordinates (m)	Depth (m)		Incoming Connections	Connection Type	Connection Invert (m)	Connection Size (mm)	Junction Type
			Outgoing Connections				Cover
SW2504	41.150 40.019	Diameter / Length: 0.450	{1} 2500.003	Pipe	40.019	Diam/Width:225	Manhole
E:385834.667 N:394064.275	1.131						
			{a} 2500.004	Pipe	40.019	Diam/Width:225	Not Applicable
SW2505	41.110 39.926	Diameter / Length: 0.450	{1} 2500.004	Pipe	39.926	Diam/Width:225	Manhole
E:385832.972 N:394057.011	1.184		{2} 2506.000	Pipe	40.001	Diam/Width:150	
			{a} 2500.005	Pipe	39.926	Diam/Width:225	Not Applicable
SW2506	41.550 40.150	Diameter / Length: 0.450					Manhole
E:385825.244 N:394056.961	1.400						
			{a} 2506.000	Pipe	40.150	Diam/Width:150	Not Applicable
SW2706	40.780 39.730	Diameter / Length: 0.450					Manhole
E:385810.963 N:394025.389	1.050						
			{a} 2706.000	Pipe	39.730	Diam/Width:150	Not Applicable
SW2900	40.530 39.480	Diameter / Length: 0.450					Manhole
E:385832.707 N:393987.665	1.050						
			{a} 2900.000	Pipe	39.480	Diam/Width:150	Not Applicable

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Report Details: Type: Manhole Schedule Storm Phase: Full Site		Company Address: 20 Market Street Altrincham WA14 1PF			

Name	Cover Level (m) Invert Level (m)	Manhole Size (m)	Connection Details				Type
Coordinates (m)	Depth (m)		Incoming Connections	Connection Type	Connection Invert (m)	Connection Size (mm)	Junction Type
			Outgoing Connections				Cover
SW2901	40.380 39.336	Diameter / Length: 0.450	{1} 2900.000	Pipe	39.336	Diam/Width:150	Manhole
E:385821.223 N:393988.366	1.044						
			{a} 2900.001	Pipe	39.336	Diam/Width:150	Not Applicable
SW2902	40.500 39.119	Diameter / Length: 0.450	{1} 2900.001	Pipe	39.119	Diam/Width:150	Manhole
E:385803.857 N:393989.465	1.381						
			{a} 2900.002	Pipe	39.119	Diam/Width:150	Not Applicable
SW2904	40.230 38.949	Diameter / Length: 0.450	{1} 2900.003	Pipe	38.949	Diam/Width:150	Manhole
E:385802.246 N:394002.909	1.281						
			{a} 2900.004	Pipe	38.949	Diam/Width:150	Not Applicable
SW196	40.290 38.940	Diameter / Length: 0.450					Manhole
E:385790.694 N:394016.360	1.350						
			{a} Pipe (196)	Pipe	38.940	Diam/Width:150	Not Applicable
SW2800	40.300 39.250	Diameter / Length: 0.450	{1} PP30	Pipe	39.300	Diam/Width:100	Manhole
E:385850.114 N:393989.364	1.050						
			{a} 2800.000	Pipe	39.250	Diam/Width:150	Not Applicable

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Name	Cover Level (m) Invert Level (m)	Manhole Size (m)	Connection Details				Type
Coordinates (m)	Depth (m)		Incoming Connections	Connection Type	Connection Invert (m)	Connection Size (mm)	Junction Type
			Outgoing Connections				Cover
SW2801	40.320 39.101	Diameter / Length: 0.450	{1} 2800.000	Pipe	39.101	Diam/Width:150	Manhole
E:385850.944 N:393977.494	1.219						
			{a} 2800.001	Pipe	39.101	Diam/Width:150	Not Applicable
SW2803	40.280 39.020	Diameter / Length: 0.450	{1} 2800.002	Pipe	39.020	Diam/Width:150	Manhole
E:385851.929 N:393971.346	1.260						
			{a} 2800.003	Pipe	39.020	Diam/Width:150	Not Applicable
SW2802	40.300 39.065	Diameter / Length: 0.450	{1} 2800.001	Pipe	39.065	Diam/Width:150	Manhole
E:385852.284 N:393974.893	1.235		{2} PP33	Pipe	39.115	Diam/Width:100	
			{a} 2800.002	Pipe	39.065	Diam/Width:150	Not Applicable
SW2804	40.280 38.649	Diameter / Length: 0.450	{1} 2800.003	Pipe	38.649	Diam/Width:150	Manhole
E:385822.256 N:393969.512	1.631						
			{a} 2800.004	Pipe	38.649	Diam/Width:150	Not Applicable
SW2805	40.360 38.570	Diameter / Length: 0.450	{1} 2800.004	Pipe	38.570	Diam/Width:150	Manhole
E:385816.575 N:393972.122	1.790		{2} PP34	Pipe	38.620	Diam/Width:100	
			{a} 2800.005	Pipe	38.570	Diam/Width:150	Not Applicable

Project: UoM Residences DBFO Site Wide Proposed Surface Water Caculations		Date: 29/04/2026			
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Name	Cover Level (m) Invert Level (m)	Manhole Size (m)	Connection Details				Type
Coordinates (m)	Depth (m)		Incoming Connections	Connection Type	Connection Invert (m)	Connection Size (mm)	Junction Type
			Outgoing Connections				Cover
SW2806	40.250 38.324	Diameter / Length: 0.450	{1} 2800.005	Pipe	38.324	Diam/Width:150	Manhole
E:385796.944 N:393970.416	1.926						
			{a} 2800.006	Pipe	38.324	Diam/Width:150	Not Applicable
SW2807	40.150 38.240	Diameter / Length: 0.450	{1} 2800.006	Pipe	38.240	Diam/Width:150	Manhole
E:385789.407 N:393969.761	1.910		{2} PP35	Pipe	38.290	Diam/Width:100	
			{a} 2800.007	Pipe	38.240	Diam/Width:150	Not Applicable
SW309	44.650 42.502	Diameter / Length: 0.600	{1} 305.003	Pipe	42.502	Diam/Width:225	Manhole
E:385699.254 N:394244.031	2.148						
			{a} 305.004	Pipe	42.502	Diam/Width:225	Not Applicable
SW306	44.650 42.849	Diameter / Length: 0.450	{1} 305.000	Pipe	42.849	Diam/Width:150	Manhole
E:385702.471 N:394267.410	1.801						
			{a} 305.001	Pipe	42.849	Diam/Width:150	Not Applicable
SW310	44.650 42.477	Diameter / Length: 0.600	{1} 305.004	Pipe	42.477	Diam/Width:225	Manhole
E:385699.450 N:394241.543	2.173						
			{a} 305.005	Pipe	42.477	Diam/Width:225	Not Applicable

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Name	Cover Level (m) Invert Level (m)	Manhole Size (m)	Connection Details				Type
Coordinates (m)	Depth (m)		Incoming Connections	Connection Type	Connection Invert (m)	Connection Size (mm)	Junction Type
			Outgoing Connections				Cover
SW502	44.650 43.157	Diameter / Length: 0.450	{1} 500.001	Pipe	43.157	Diam/Width:150	Manhole
E:385745.076 N:394263.443	1.493						
			{a} 500.002	Pipe	43.157	Diam/Width:150	Not Applicable
SW009a	44.460 41.631	Diameter / Length: 0.450	{1} Pipe (8)	Pipe	41.631	Diam/Width:150	Manhole
E:385682.579 N:394200.632	2.829						
			{a} Pipe (9a)	Pipe	41.631	Diam/Width:150	Not Applicable
SW009b	44.350 41.535	Diameter / Length: 0.600	{1} Pipe (9a)	Pipe	41.610	Diam/Width:150	Manhole
E:385682.544 N:394198.044	2.815						
			{a} Pipe (9b)	Pipe	41.535	Diam/Width:225	Not Applicable
SW011	43.670 41.246	Diameter / Length: 1.200	{1} Pipe (11)	Pipe	41.246	Diam/Width:225	Manhole
E:385690.911 N:394161.807	2.424		{2} Pipe (33)	Pipe	42.317	Diam/Width:150	
			{a} Pipe (32)	Pipe	41.246	Diam/Width:225	Not Applicable
SW900	44.350 43.350	Diameter / Length: 0.450					Manhole
E:385704.391 N:394179.941	1.000						
			{a} 900.000	Pipe	43.350	Diam/Width:150	Not Applicable

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Name	Cover Level (m) Invert Level (m)	Manhole Size (m)	Connection Details				Type
Coordinates (m)	Depth (m)		Incoming Connections	Connection Type	Connection Invert (m)	Connection Size (mm)	Junction Type
			Outgoing Connections				Cover
SW901	44.350 43.273	Diameter / Length: 0.450	{1} 900.000	Pipe	43.273	Diam/Width:150	Manhole
E:385704.822 N:394173.780	1.077						
			{a} 900.001	Pipe	43.273	Diam/Width:150	Not Applicable
SW902	44.300 43.084	Diameter / Length: 0.600	{1} 900.001	Pipe	43.159	Diam/Width:150	Manhole
E:385705.460 N:394164.663	1.216		{2} PP29	Pipe	43.209	Diam/Width:100	
			{a} 900.002	Pipe	43.084	Diam/Width:225	Not Applicable
SW1102	44.350 42.966	Diameter / Length: 0.450	{1} 1100.001	Pipe	42.966	Diam/Width:150	Manhole
E:385740.387 N:394176.060	1.384						
			{a} 1100.002	Pipe	42.966	Diam/Width:150	Not Applicable
SW600	44.700 43.770	Diameter / Length: 0.450					Manhole
E:385766.914 N:394286.988	0.930						
			{a} 600.000	Pipe	43.770	Diam/Width:150	Not Applicable
SW602	44.620 43.640	Diameter / Length: 0.450					Manhole
E:385782.394 N:394290.657	0.980						
			{a} 601.000	Pipe	43.640	Diam/Width:150	Not Applicable

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Name	Cover Level (m) Invert Level (m)	Manhole Size (m)	Connection Details				Type
Coordinates (m)	Depth (m)		Incoming Connections	Connection Type	Connection Invert (m)	Connection Size (mm)	Junction Type
			Outgoing Connections				Cover
SW601	44.610 43.613	Diameter / Length: 0.600	{1} 600.000	Pipe	43.613	Diam/Width:150	Manhole
E:385782.566 N:394288.205	0.997		{2} 601.000	Pipe	43.613	Diam/Width:150	
			{a} 600.001	Pipe	43.613	Diam/Width:150	Not Applicable
SW607	44.650 43.150	Diameter / Length: 0.600	{1} 600.005	Pipe	43.150	Diam/Width:225	Manhole
E:385778.596 N:394250.480	1.500						
			{a} 600.006	Pipe	43.150	Diam/Width:225	Not Applicable
SW610	44.700 43.190	Diameter / Length: 0.450	{1} PP21	Pipe	43.240	Diam/Width:100	Manhole
E:385759.563 N:394262.830	1.510						
			{a} 610.001	Pipe	43.190	Diam/Width:150	Not Applicable
SW701	44.350 43.428	Diameter / Length: 0.450	{1} 700.000	Pipe	43.428	Diam/Width:150	Manhole
E:385651.175 N:394199.710	0.922						
			{a} 700.001	Pipe	43.428	Diam/Width:150	Not Applicable
SW2101	42.270 40.828	Diameter / Length: 0.450	{1} 2100.000	Pipe	40.828	Diam/Width:150	Manhole
E:385748.751 N:394098.406	1.442						
			{a} 2100.001	Pipe	40.828	Diam/Width:150	Not Applicable

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Name	Cover Level (m) Invert Level (m)	Manhole Size (m)	Connection Details				Type
Coordinates (m)	Depth (m)		Incoming Connections	Connection Type	Connection Invert (m)	Connection Size (mm)	Junction Type
			Outgoing Connections				Cover
SW2100	42.270 40.920	Diameter / Length: 0.450					Manhole
E:385748.111 N:394107.566	1.350		{a} 2100.000	Pipe	40.920	Diam/Width:150	Not Applicable
SW1801	42.900 41.305	Diameter / Length: 0.600	{1} 1800.000	Pipe	41.305	Diam/Width:225	Manhole
E:385735.018 N:394131.251	1.595		{a} 1800.001	Pipe	41.305	Diam/Width:225	Not Applicable
SW2103	42.250 40.550	Diameter / Length: 0.600	{1} 2100.002	Pipe	40.645	Diam/Width:150	Manhole
E:385745.783 N:394080.506	1.700		{2} 1906.000	Pipe	40.645	Diam/Width:150	
			{a} 2100.003	Pipe	40.550	Diam/Width:225	Not Applicable
SW1905	41.750 38.876	Diameter / Length: 1.200	{1} 1903.001	Pipe	40.732	Diam/Width:225	Manhole
E:385711.722 N:394051.654	2.874		{a} 1903.002	Pipe	38.876	Diam/Width:225	Not Applicable
SW1201	41.600 40.401	Diameter / Length: 0.450	{1} 1200.000	Pipe	40.401	Diam/Width:150	Manhole
E:385628.728 N:394123.899	1.199		{a} 1200.001	Pipe	40.401	Diam/Width:150	Not Applicable

Project: UoM Residences DBFO Site Wide Proposed Surface Water Calculations		Date: 29/04/2026			
		Designed by: Nour Rashdan	Checked by: Johnny Hunt		Approved By: Pedro Vicente
Report Details: Type: Manhole Schedule Storm Phase: Full Site		Company Address: 20 Market Street Altrincham WA14 1PF			

Name	Cover Level (m) Invert Level (m)	Manhole Size (m)	Connection Details				Type
Coordinates (m)	Depth (m)		Incoming Connections	Connection Type	Connection Invert (m)	Connection Size (mm)	Junction Type
			Outgoing Connections				Cover
SW1301	41.350 40.235	Diameter / Length: 0.450	{1} 1300.000	Pipe	40.235	Diam/Width:150	Manhole
E:385655.118 N:394110.410	1.115						
			{a} 1300.001	Pipe	40.235	Diam/Width:150	Not Applicable
SW1307	42.550 40.495	Diameter / Length: 0.600	{1} 1304.002	Pipe	40.495	Diam/Width:225	Manhole
E:385692.995 N:394110.993	2.055						
			{a} 1304.003	Pipe	40.495	Diam/Width:225	Not Applicable
SW101	44.550 43.361	Diameter / Length: 0.450	{1} 100.000	Pipe	43.361	Diam/Width:150	Manhole
E:385637.423 N:394259.710	1.189						
			{a} 100.001	Pipe	43.361	Diam/Width:150	Not Applicable
SW1603	40.000 38.899	Diameter / Length: 0.450	{1} 1600.002	Pipe	38.899	Diam/Width:150	Manhole
E:385647.345 N:394019.853	1.101						
			{a} 1600.003	Pipe	38.899	Diam/Width:150	Not Applicable
SW018a	40.010 38.584	Diameter / Length: 1.200	{1} Pipe (14)	Pipe	38.584	Diam/Width:300	Manhole
E:385678.662 N:394051.749	1.426						
			{a} Pipe (62)	Pipe	38.584	Diam/Width:300	Not Applicable

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Name	Cover Level (m) Invert Level (m)	Manhole Size (m)	Connection Details				Type
Coordinates (m)	Depth (m)		Incoming Connections	Connection Type	Connection Invert (m)	Connection Size (mm)	Junction Type
			Outgoing Connections				Cover
SW20a	40.000 38.281	Diameter / Length: 1.200	{1} Pipe (15)	Pipe	38.281	Diam/Width:450	Manhole
E:385687.891 N:394017.117	1.719						
			{a} Pipe (85)	Pipe	38.281	Diam/Width:450	Not Applicable
SW60a	44.500 42.373	Diameter / Length: 0.600	{1} Pipe (1)	Pipe	42.373	Diam/Width:225	Manhole
E:385665.939 N:394221.975	2.127		{2} Pipe (34)	Pipe	42.498	Diam/Width:100	
			{a} Pipe (2)	Pipe	42.373	Diam/Width:225	Not Applicable
SW156a	41.670 40.339	Diameter / Length: 0.600	{1} Pipe (155)	Pipe	40.339	Diam/Width:225	Manhole
E:385784.917 N:394100.259	1.331						
			{a} Pipe (155) (1)	Pipe	40.339	Diam/Width:225	Not Applicable
SW2702	40.550 38.607	Diameter / Length: 1.200	{1} 2700.001	Pipe	38.607	Diam/Width:375	Manhole
E:385842.103 N:394038.567	1.943						
			{a} 2700.002	Pipe	38.607	Diam/Width:375	Not Applicable
SW2703	40.560 38.526	Diameter / Length: 1.200	{1} 2700.002	Pipe	38.526	Diam/Width:375	Manhole
E:385842.951 N:394026.449	2.034						
			{a} 2700.003	Pipe	38.526	Diam/Width:375	Not Applicable

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Report Details: Type: Manhole Schedule Storm Phase: Full Site		Company Address: 20 Market Street Altrincham WA14 1PF			

Name	Cover Level (m) Invert Level (m)	Manhole Size (m)	Connection Details				Type
Coordinates (m)	Depth (m)		Incoming Connections	Connection Type	Connection Invert (m)	Connection Size (mm)	Junction Type
			Outgoing Connections				Cover
SW2903	40.350 39.001	Diameter / Length: 0.450	{1} 2900.002	Pipe	39.001	Diam/Width:150	Manhole
E:385803.202 N:393998.829	1.349						
			{a} 2900.003	Pipe	39.001	Diam/Width:150	Not Applicable
SW2905	40.380 39.330	Diameter / Length: 0.450					Manhole
E:385844.232 N:394008.130	1.050						
			{a} 2905.000	Pipe	39.330	Diam/Width:150	Not Applicable
SW510	44.770 43.280	Diameter / Length: 0.450	{1} 508.001	Pipe	43.280	Diam/Width:150	Manhole
E:385724.566 N:394255.603	1.490						
			{a} 508.002	Pipe	43.280	Diam/Width:150	Not Applicable
SW1009	43.490 41.290	Diameter / Length: 0.450					Manhole
E:385766.223 N:394161.823	2.200						
			{a} 1009.000	Pipe	41.290	Diam/Width:150	Not Applicable
SW1004	43.530 40.929	Diameter / Length: 0.600	{1} 1000.003	Pipe	40.929	Diam/Width:225	Manhole
E:385789.420 N:394152.482	2.601						
			{a} 1000.004	Pipe	40.929	Diam/Width:225	Not Applicable

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Name	Cover Level (m) Invert Level (m)	Manhole Size (m)	Connection Details				Type
Coordinates (m)	Depth (m)		Incoming Connections	Connection Type	Connection Invert (m)	Connection Size (mm)	Junction Type
			Outgoing Connections				Cover
SW2000	42.260 40.770	Diameter / Length: 0.450					Manhole
E:385729.507 N:394072.682	1.490						
			{a} 2000.000	Pipe	40.770	Diam/Width:150	Not Applicable
SW2001	42.250 40.572	Diameter / Length: 0.450					Manhole
E:385740.862 N:394067.319	1.678						
			{a} 2001.000	Pipe	40.572	Diam/Width:150	Not Applicable
SW2002	41.640 39.462	Diameter / Length: 0.450					Manhole
E:385720.596 N:394046.540	2.178						
			{a} 2002.000	Pipe	39.462	Diam/Width:150	Not Applicable
SW012a	43.540 41.182	Diameter / Length: 0.600	{1} Pipe (35)	Pipe	41.182	Diam/Width:225	Manhole
E:385712.226 N:394147.272	2.358						
			{a} Pipe (36)	Pipe	41.182	Diam/Width:225	Not Applicable

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Report Details: Type: Inflow Summary Storm Phase: Full Site	Company Address: 20 Market Street Altrincham WA14 1PF			

Inflow Label	Connected To	Flow (L/s)	Runoff Method	Area (ha)	Percentage Impervious (%)	Urban Creep (%)	Adjusted Percentage Impervious (%)	Area Analysed (ha)
Catchment Area	SW602		Time of Concentration	0.008	100	0	100	0.008
Catchment Area (1)	SW604		Time of Concentration	0.004	100	0	100	0.004
Catchment Area (2)	SW605		Time of Concentration	0.006	100	0	100	0.006
Catchment Area (3)	SW608		Time of Concentration	0.003	100	0	100	0.003
Catchment Area (4)	SW500		Time of Concentration	0.013	100	0	100	0.013
Catchment Area (5)	SW305		Time of Concentration	0.007	100	0	100	0.007
Catchment Area (6)	SW300		Time of Concentration	0.013	100	0	100	0.013
Catchment Area (7)	Porous Paving		Time of Concentration	0.010	100	0	100	0.010
Catchment Area (8)	Porous Paving (1)		Time of Concentration	0.025	100	0	100	0.025
Catchment Area (9)	Porous Paving (19)		Time of Concentration	0.009	100	0	100	0.009
Catchment Area (10)	SW2406		Time of Concentration	0.005	100	0	100	0.005
Catchment Area (11)	SW1900		Time of Concentration	0.006	100	0	100	0.006
Catchment Area (12)	SW202		Time of Concentration	0.009	100	0	100	0.009
Catchment Area (13)	SW202		Time of Concentration	0.004	100	0	100	0.004
Catchment Area (14)	SW307		Time of Concentration	0.004	100	0	100	0.004
Catchment Area (15)	SW305		Time of Concentration	0.003	100	0	100	0.003
Catchment Area (16)	SW308		Time of Concentration	0.002	100	0	100	0.002
Catchment Area (17)	SW311		Time of Concentration	0.008	100	0	100	0.008
Catchment Area (18)	SW508		Time of Concentration	0.006	100	0	100	0.006
Catchment Area (19)	SW007		Time of Concentration	0.010	100	0	100	0.010
Catchment Area (20)	Porous Paving (8)		Time of Concentration	0.014	100	0	100	0.014
Catchment Area (21)	SW600		Time of Concentration	0.004	100	0	100	0.004
Catchment Area (22)	Porous Paving (15)		Time of Concentration	0.014	100	0	100	0.014
Catchment Area (23)	Porous Paving (16)		Time of Concentration	0.011	100	0	100	0.011
Catchment Area (24)	SW1405		Time of Concentration	0.010	100	0	100	0.010
Catchment Area (25)	SW1000		Time of Concentration	0.007	100	0	100	0.007
Catchment Area (26)	SW1006		Time of Concentration	0.026	100	0	100	0.026
Catchment Area (27)	SW1404		Time of Concentration	0.011	100	0	100	0.011
Catchment Area (28)	Porous Paving (14)		Time of Concentration	0.003	100	0	100	0.003
Catchment Area (29)	SW1800		Time of Concentration	0.010	100	0	100	0.010
Catchment Area (30)	Porous Paving (9)		Time of Concentration	0.003	100	0	100	0.003
Catchment Area (31)	SW1100		Time of Concentration	0.005	100	0	100	0.005
Catchment Area (32)	SW1004		Time of Concentration	0.020	100	0	100	0.020
Catchment Area (33)	SW1007		Time of Concentration	0.005	100	0	100	0.005
Catchment Area (34)	Porous Paving (37)		Time of Concentration	0.010	100	0	100	0.010
Catchment Area (35)	SW1003		Time of Concentration	0.003	100	0	100	0.003

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Catchment Area (36)	SW1101		Time of Concentration	0.003	100	0	100	0.003
Catchment Area (37)	SW1104		Time of Concentration	0.009	100	0	100	0.009
Catchment Area (38)	SW901		Time of Concentration	0.018	100	0	100	0.018
Catchment Area (39)	SW602		Time of Concentration	0.002	100	0	100	0.002
Catchment Area (40)	SW2407		Time of Concentration	0.014	100	0	100	0.014
Catchment Area (41)	SW2405		Time of Concentration	0.025	100	0	100	0.025
Catchment Area (42)	SW1009		Time of Concentration	0.035	100	0	100	0.035
Catchment Area (43)	SW1804		Time of Concentration	0.011	100	0	100	0.011
Catchment Area (44)	SW705		Time of Concentration	0.005	100	0	100	0.005
Catchment Area (45)	Porous Paving (30)		Time of Concentration	0.004	100	0	100	0.004
Catchment Area (46)	Porous Paving (33)		Time of Concentration	0.003	100	0	100	0.003
Catchment Area (47)	Porous Paving (34)		Time of Concentration	0.008	100	0	100	0.008
Catchment Area (48)	Porous Paving (4)		Time of Concentration	0.028	100	0	100	0.028
Catchment Area (49)	Porous Paving (35)		Time of Concentration	0.006	100	0	100	0.006
Catchment Area (50)	Porous Paving (36)		Time of Concentration	0.004	100	0	100	0.004
Catchment Area (51)	Porous Paving (32)		Time of Concentration	0.006	100	0	100	0.006
Catchment Area (52)	Porous Paving (29)		Time of Concentration	0.008	100	0	100	0.008
Catchment Area (53)	SW902		Time of Concentration	0.005	100	0	100	0.005
Catchment Area (54)	Porous Paving (20)		Time of Concentration	0.017	100	0	100	0.017
Catchment Area (55)	SW300		Time of Concentration	0.020	100	0	100	0.020
Catchment Area (56)	Porous Paving (31)		Time of Concentration	0.009	100	0	100	0.009
Catchment Area (57)	SW2701		Time of Concentration	0.007	100	0	100	0.007
Catchment Area (58)	SW705		Time of Concentration	0.005	100	0	100	0.005
Catchment Area (59)	SW2402		Time of Concentration	0.008	100	0	100	0.008
Catchment Area (60)	SW2401		Time of Concentration	0.005	100	0	100	0.005
Catchment Area (61)	SW2402		Time of Concentration	0.002	100	0	100	0.002
Catchment Area (62)	Porous Paving (28)		Time of Concentration	0.006	100	0	100	0.006
Catchment Area (63)	SW156		Time of Concentration	0.018	100	0	100	0.018
Catchment Area (64)	SW2404		Time of Concentration	0.009	100	0	100	0.009
Catchment Area (65)	SW196		Time of Concentration	0.019	100	0	100	0.019
Catchment Area (66)	SW026		Time of Concentration	0.017	100	0	100	0.017
Catchment Area (67)	SW024		Time of Concentration	0.011	100	0	100	0.011
Catchment Area (68)	SW022		Time of Concentration	0.014	100	0	100	0.014
Catchment Area (69)	SW021		Time of Concentration	0.012	100	0	100	0.012
Catchment Area (70)	Porous Paving (24)		Time of Concentration	0.003	100	0	100	0.003
Catchment Area (71)	Swale (5)		Time of Concentration	0.031	100	0	100	0.031
Catchment Area (72)	Porous Paving (22)		Time of Concentration	0.004	100	0	100	0.004

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Catchment Area (73)	SW021	Time of Concentration	0.010	100	0	100	0.010
Catchment Area (74)	SW2200	Time of Concentration	0.006	100	0	100	0.006
Catchment Area (75)	SW2106	Time of Concentration	0.007	100	0	100	0.007
Catchment Area (76)	SW2202	Time of Concentration	0.007	100	0	100	0.007
Catchment Area (77)	SW2204	Time of Concentration	0.006	100	0	100	0.006
Catchment Area (78)	SW2203	Time of Concentration	0.018	100	0	100	0.018
Catchment Area (79)	SW2107	Time of Concentration	0.009	100	0	100	0.009
Catchment Area (80)	SW2108	Time of Concentration	0.003	100	0	100	0.003
Catchment Area (81)	SW2108	Time of Concentration	0.004	100	0	100	0.004
Catchment Area (82)	SW305	Time of Concentration	0.002	100	0	100	0.002
Catchment Area (83)	SW500	Time of Concentration	0.013	100	0	100	0.013
Catchment Area (84)	Porous Paving (23)	Time of Concentration	0.003	100	0	100	0.003
Catchment Area (85)	Porous Paving (25)	Time of Concentration	0.002	100	0	100	0.002
Catchment Area (86)	SW305	Time of Concentration	0.002	100	0	100	0.002
Catchment Area (87)	Porous Paving (17)	Time of Concentration	0.004	100	0	100	0.004
Catchment Area (88)	Porous Paving (18)	Time of Concentration	0.004	100	0	100	0.004
Catchment Area (89)	SW1200	Time of Concentration	0.008	100	0	100	0.008
Catchment Area (90)	SW1209	Time of Concentration	0.018	100	0	100	0.018
Catchment Area (91)	SW1805	Time of Concentration	0.005	100	0	100	0.005
Catchment Area (92)	SW1804	Time of Concentration	0.004	100	0	100	0.004
Catchment Area (93)	SW1308	Time of Concentration	0.003	100	0	100	0.003
Catchment Area (94)	SW1303	Time of Concentration	0.004	100	0	100	0.004
Catchment Area (95)	SW1302	Time of Concentration	0.006	100	0	100	0.006
Catchment Area (96)	SW1404	Time of Concentration	0.004	100	0	100	0.004
Catchment Area (97)	SW1301	Time of Concentration	0.002	100	0	100	0.002
Catchment Area (98)	SW1700	Time of Concentration	0.006	100	0	100	0.006
Catchment Area (99)	SW1209	Time of Concentration	0.007	100	0	100	0.007
Catchment Area (100)	SW1701	Time of Concentration	0.005	100	0	100	0.005
Catchment Area (101)	SW1703	Time of Concentration	0.012	100	0	100	0.012
Catchment Area (102)	SW018	Time of Concentration	0.015	100	0	100	0.015
Catchment Area (103)	SW019	Time of Concentration	0.020	100	0	100	0.020
Catchment Area (104)	SW1403	Time of Concentration	0.006	100	0	100	0.006
Catchment Area (105)	SW018	Time of Concentration	0.017	100	0	100	0.017
Catchment Area (106)	Porous Paving (27)	Time of Concentration	0.004	100	0	100	0.004
Catchment Area (107)	SW1403	Time of Concentration	0.005	100	0	100	0.005
Catchment Area (108)	SW1308	Time of Concentration	0.022	100	0	100	0.022
Catchment Area (109)	SW1401	Time of Concentration	0.010	100	0	100	0.010

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Catchment Area (110)	SW1903	Time of Concentration	0.005	100	0	100	0.005
Catchment Area (111)	SW2107	Time of Concentration	0.003	100	0	100	0.003
Catchment Area (112)	Porous Paving (14)	Time of Concentration	0.012	100	0	100	0.012
Catchment Area (113)	SW1807	Time of Concentration	0.003	100	0	100	0.003
Catchment Area (114)	Porous Paving (11)	Time of Concentration	0.004	100	0	100	0.004
Catchment Area (115)	SW1807	Time of Concentration	0.004	100	0	100	0.004
Catchment Area (116)	SW2102	Time of Concentration	0.008	100	0	100	0.008
Catchment Area (117)	SW2103	Time of Concentration	0.007	100	0	100	0.007
Catchment Area (118)	SW2102	Time of Concentration	0.013	100	0	100	0.013
Catchment Area (120)	SW707	Time of Concentration	0.001	100	0	100	0.001
Catchment Area (121)	SW706	Time of Concentration	0.022	100	0	100	0.022
Catchment Area (122)	SW011	Time of Concentration	0.003	100	0	100	0.003
Catchment Area (124)	SW1304	Time of Concentration	0.006	100	0	100	0.006
Catchment Area (125)	SW012	Time of Concentration	0.005	100	0	100	0.005
Catchment Area (126)	SW702	Time of Concentration	0.006	100	0	100	0.006
Catchment Area (127)	SW704	Time of Concentration	0.003	100	0	100	0.003
Catchment Area (128)	Porous Paving (4)	Time of Concentration	0.018	100	0	100	0.018
Catchment Area (129)	Porous Paving (38)	Time of Concentration	0.004	100	0	100	0.004
Catchment Area (130)	SW709	Time of Concentration	0.004	100	0	100	0.004
Catchment Area (131)	SW023	Time of Concentration	0.003	100	0	100	0.003
Catchment Area (132)	SW011	Time of Concentration	0.010	100	0	100	0.010
Catchment Area (133)	SW308	Time of Concentration	0.001	100	0	100	0.001
Catchment Area (134)	Porous Paving (29)	Time of Concentration	0.009	100	0	100	0.009
Catchment Area (135)	SW1109	Time of Concentration	0.004	100	0	100	0.004
Catchment Area (136)	Porous Paving (41)	Time of Concentration	0.042	100	0	100	0.042
Catchment Area (137)	SW1104	Time of Concentration	0.006	100	0	100	0.006
Catchment Area (138)	SW2706	Time of Concentration	0.012	100	0	100	0.012
Catchment Area (139)	SW2705	Time of Concentration	0.009	100	0	100	0.009
Catchment Area (140)	SW2900	Time of Concentration	0.007	100	0	100	0.007
Catchment Area (141)	SW2704	Time of Concentration	0.013	100	0	100	0.013
Catchment Area (142)	SW2904	Time of Concentration	0.011	100	0	100	0.011
Catchment Area (143)	SW2904	Time of Concentration	0.002	100	0	100	0.002
Catchment Area (144)	SW2903	Time of Concentration	0.002	100	0	100	0.002
Catchment Area (145)	SW2902	Time of Concentration	0.007	100	0	100	0.007
Catchment Area (146)	Porous Paving (10)	Time of Concentration	0.037	100	0	100	0.037
Catchment Area (147)	SW2105	Time of Concentration	0.006	100	0	100	0.006
Catchment Area (148)	SW196	Time of Concentration	0.004	100	0	100	0.004

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Catchment Area (149)	SW1209	Time of Concentration	0.008	100	0	100	0.008
Catchment Area (150)	SW301	Time of Concentration	0.015	100	0	100	0.015
Catchment Area (151)	SW708	Time of Concentration	0.011	100	0	100	0.011
Catchment Area (152)	SW1104	Time of Concentration	0.004	100	0	100	0.004
Catchment Area (153)	SW1108	Time of Concentration	0.006	100	0	100	0.006
Catchment Area (154)	SW500	Time of Concentration	0.006	100	0	100	0.006
Catchment Area (155)	Porous Paving (13)	Time of Concentration	0.006	100	0	100	0.006
Catchment Area (156)	SW602	Time of Concentration	0.004	100	0	100	0.004
Catchment Area (158)	SW600	Time of Concentration	0.003	100	0	100	0.003
Catchment Area (159)	SW104	Time of Concentration	0.008	100	0	100	0.008
Catchment Area (161)	SW600	Time of Concentration	0.003	100	0	100	0.003
Catchment Area (163)	SW1007	Time of Concentration	0.006	100	0	100	0.006
Catchment Area (164)	Porous Paving (6)	Time of Concentration	0.001	100	0	100	0.001
Catchment Area (165)	SW200	Time of Concentration	0.007	100	0	100	0.007
Catchment Area (167)	SW1004	Time of Concentration	0.005	100	0	100	0.005
Catchment Area (168)	SW200	Time of Concentration	0.005	100	0	100	0.005
Catchment Area (171)	Porous Paving (3)	Time of Concentration	0.012	100	0	100	0.012
Catchment Area (172)	Porous Paving (2)	Time of Concentration	0.007	100	0	100	0.007
Catchment Area (173)	Porous Paving (12)	Time of Concentration	0.005	100	0	100	0.005
Catchment Area (175)	Porous Paving (9)	Time of Concentration	0.006	100	0	100	0.006
Catchment Area (176)	Porous Paving (26)	Time of Concentration	0.005	100	0	100	0.005
Catchment Area (177)	SW902	Time of Concentration	0.006	100	0	100	0.006
Catchment Area (185)	SW709	Time of Concentration	0.005	100	0	100	0.005
Catchment Area (188)	SW013	Time of Concentration	0.014	100	0	100	0.014
Catchment Area (189)	SW1200	Time of Concentration	0.017	100	0	100	0.017
Catchment Area (190)	SW1200	Time of Concentration	0.011	100	0	100	0.011
Catchment Area (191)	SW600	Time of Concentration	0.007	100	0	100	0.007
Catchment Area (193)	SW1405	Time of Concentration	0.018	100	0	100	0.018
Catchment Area (194)	SW1501	Time of Concentration	0.004	100	0	100	0.004
Catchment Area (196)	SW1209	Time of Concentration	0.006	100	0	100	0.006
Catchment Area (197)	SW600	Time of Concentration	0.002	100	0	100	0.002
Catchment Area (198)	Porous Paving (5)	Time of Concentration	0.011	100	0	100	0.011
Catchment Area (199)	SW018	Time of Concentration	0.009	100	0	100	0.009
Catchment Area (200)	SW300	Time of Concentration	0.001	100	0	100	0.001
Catchment Area (202)	SW1810	Time of Concentration	0.012	100	0	100	0.012
Catchment Area (203)	SW1810	Time of Concentration	0.005	100	0	100	0.005
Catchment Area (205)	SW1806	Time of Concentration	0.006	100	0	100	0.006

Project: UoM Residences DBFO Site Wide Proposed Surface Water Calculations			Date: 29/04/2026					
			Designed by: Nour Rashdan	Checked by: Johnny Hunt	Approved By: Pedro Vicente			
Report Details: Type: Inflow Summary Storm Phase: Full Site			Company Address: 20 Market Street Altrincham WA14 1PF					

Catchment Area (206)	SW2100		Time of Concentration	0.008	100	0	100	0.008
Catchment Area (207)	SW1906		Time of Concentration	0.024	100	0	100	0.024
Catchment Area (208)	SW2203		Time of Concentration	0.017	100	0	100	0.017
Catchment Area (209)	SW2201		Time of Concentration	0.003	100	0	100	0.003
Catchment Area (210)	SW2203		Time of Concentration	0.008	100	0	100	0.008
Catchment Area (211)	Porous Paving (7)		Time of Concentration	0.014	100	0	100	0.014
Catchment Area (212)	SW025		Time of Concentration	0.002	100	0	100	0.002
Catchment Area (213)	SW1007		Time of Concentration	0.016	100	0	100	0.016
Catchment Area (214)	Porous Paving (9)		Time of Concentration	0.027	100	0	100	0.027
Catchment Area (215)	SW2406		Time of Concentration	0.002	100	0	100	0.002
Catchment Area (217)	SW1005		Time of Concentration	0.013	100	0	100	0.013
Catchment Area (218)	SW2700		Time of Concentration	0.012	100	0	100	0.012
Catchment Area (220)	SW2400		Time of Concentration	0.006	100	0	100	0.006
Catchment Area (221)	SW156a		Time of Concentration	0.006	100	0	100	0.006
Catchment Area (222)	Swale (1)		Time of Concentration	0.009	100	0	100	0.009
Catchment Area (223)	Swale (2)		Time of Concentration	0.019	100	0	100	0.019
Catchment Area (224)	Swale (3)		Time of Concentration	0.015	100	0	100	0.015
Catchment Area (225)	Swale (4)		Time of Concentration	0.013	100	0	100	0.013
Catchment Area (226)	SW610		Time of Concentration	0.006	100	0	100	0.006
Catchment Area (228)	Swale 6		Time of Concentration	0.011	100	0	100	0.011
Catchment Area (229)	Porous Paving (21)		Time of Concentration	0.001	100	0	100	0.001
Catchment Area (230)	SW309		Time of Concentration	0.003	100	0	100	0.003
Catchment Area (231)	SW307		Time of Concentration	0.002	100	0	100	0.002
Catchment Area (232)	SW156		Time of Concentration	0.005	100	0	100	0.005
Catchment Area (233)	SW509		Time of Concentration	0.006	100	0	100	0.006
Green Roof	SW603		Green Roof	0.014		0		0.014
Green Roof (1)	SW604		Green Roof	0.017		0		0.017
Green Roof (2)	SW607		Green Roof	0.013		0		0.013
Green Roof (3)	SW501		Green Roof	0.014		0		0.014
Green Roof (4)	SW511		Green Roof	0.022		0		0.022
Green Roof (5)	SW505		Green Roof	0.016		0		0.016
Green Roof (6)	SW306		Green Roof	0.021		0		0.021
Green Roof (7)	SW509		Green Roof	0.017		0		0.017
Green Roof (8)	SW306		Green Roof	0.010		0		0.010
Green Roof (9)	SW309		Green Roof	0.022		0		0.022
Green Roof (10)	SW310		Green Roof	0.016		0		0.016
Green Roof (11)	SW300		Green Roof	0.021		0		0.021
Green Roof (12)	SW100		Green Roof	0.021		0		0.021
Green Roof (13)	SW102		Green Roof	0.014		0		0.014
Green Roof (14)	SW103		Green Roof	0.014		0		0.014
Green Roof (15)	SW203		Green Roof	0.021		0		0.021
Green Roof (16)	SW700		Green Roof	0.014		0		0.014

Project: UoM Residences DBFO Site Wide Proposed Surface Water Calculations	Date: 29/04/2026		
	Designed by: Nour Rashdan	Checked by: Johnny Hunt	Approved By: Pedro Vicente
Report Details: Type: Inflow Summary Storm Phase: Full Site	Company Address: 20 Market Street Altrincham WA14 1PF		

 Kennedy Redford

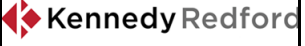
Green Roof (17)	SW701		Green Roof	0.027		0		0.027
Green Roof (18)	SW704		Green Roof	0.010		0		0.010
Green Roof (19)	SW706		Green Roof	0.017		0		0.017
Green Roof (20)	SW009a		Green Roof	0.014		0		0.014
Green Roof (21)	SW009b		Green Roof	0.010		0		0.010
Green Roof (22)	SW900		Green Roof	0.022		0		0.022
Green Roof (23)	SW901		Green Roof	0.017		0		0.017
Green Roof (24)	SW1106		Green Roof	0.014		0		0.014
Green Roof (25)	SW1107		Green Roof	0.010		0		0.010
Green Roof (26)	SW1102		Green Roof	0.022		0		0.022
Green Roof (27)	SW1103		Green Roof	0.017		0		0.017
Green Roof (28)	SW1002		Green Roof	0.050		0		0.050
Green Roof (29)	SW1006		Green Roof	0.046		0		0.046
Green Roof (30)	SW1003		Green Roof	0.053		0		0.053
Green Roof (31)	SW1000		Green Roof	0.045		0		0.045
Green Roof (32)	SW2105		Green Roof	0.003		0		0.003
Green Roof (33)	SW2001		Green Roof	0.003		0		0.003
Green Roof (34)	SW1307		Green Roof	0.017		0		0.017
Green Roof (35)	SW1305		Green Roof	0.021		0		0.021
Green Roof (36)	SW1302		Green Roof	0.021		0		0.021
Green Roof (37)	SW2002		Green Roof	0.002		0		0.002
Green Roof (38)	SW1301		Green Roof	0.021		0		0.021
Green Roof (39)	SW1201		Green Roof	0.020		0		0.020
Green Roof (40)	SW1203		Green Roof	0.014		0		0.014
Green Roof (41)	SW1205		Green Roof	0.017		0		0.017
Green Roof (42)	SW1206		Green Roof	0.021		0		0.021
Green Roof (43)	SW707		Green Roof	0.013		0		0.013
Green Roof (44)	SW1400		Green Roof	0.021		0		0.021
Green Roof (45)	SW1500		Green Roof	0.027		0		0.027
Green Roof (46)	SW709		Green Roof	0.001		0		0.001
Green Roof (47)	SW1800		Green Roof	0.014		0		0.014
Green Roof (48)	SW1801		Green Roof	0.015		0		0.015
Green Roof (49)	SW709		Green Roof	0.001		0		0.001
Green Roof (50)	SW1606		Green Roof	0.026		0		0.026
Green Roof (51)	SW1600		Green Roof	0.015		0		0.015
Green Roof (52)	SW1601		Green Roof	0.014		0		0.014
Green Roof (53)	SW1701		Green Roof	0.026		0		0.026

Project: UoM Residences DBFO Site Wide Proposed Surface Water Calculations		Date: 29/04/2026			
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Report Details: Type: Inflow Summary Storm Phase: Full Site		Company Address: 20 Market Street Altrincham WA14 1PF			

Green Roof (54)	SW706	Green Roof	0.003	0	0.003
Green Roof (55)	SW1605	Green Roof	0.015	0	0.015
Green Roof (56)	SW1702	Green Roof	0.014	0	0.014
Green Roof (57)	SW2202	Green Roof	0.014	0	0.014
Green Roof (58)	SW022	Green Roof	0.015	0	0.015
Green Roof (59)	SW510	Green Roof	0.002	0	0.002
Green Roof (60)	SW2201	Green Roof	0.026	0	0.026
Green Roof (61)	SW024	Green Roof	0.017	0	0.017
Green Roof (62)	SW2301	Green Roof	0.015	0	0.015
Green Roof (63)	SW510	Green Roof	0.001	0	0.001
Green Roof (64)	SW2300	Green Roof	0.026	0	0.026
Green Roof (65)	SW1901	Green Roof	0.014	0	0.014
Green Roof (66)	SW1900	Green Roof	0.010	0	0.010
Green Roof (68)	SW1903	Green Roof	0.022	0	0.022
Green Roof (69)	SW1904	Green Roof	0.016	0	0.016
Green Roof (70)	SW2000	Green Roof	0.016	0	0.016
Green Roof (71)	SW2002	Green Roof	0.013	0	0.013
Green Roof (72)	SW2101	Green Roof	0.014	0	0.014
Green Roof (73)	SW2102	Green Roof	0.015	0	0.015
Green Roof (74)	SW2104	Green Roof	0.012	0	0.012
Green Roof (76)	SW2105	Green Roof	0.015	0	0.015
Green Roof (78)	SW156a	Green Roof	0.026	0	0.026
Green Roof (79)	SW2500	Green Roof	0.015	0	0.015
Green Roof (80)	SW2501	Green Roof	0.014	0	0.014
Green Roof (81)	SW2503	Green Roof	0.017	0	0.017
Green Roof (82)	SW2506	Green Roof	0.015	0	0.015
Green Roof (84)	SW2403	Green Roof	0.026	0	0.026
Green Roof (85)	SW196	Green Roof	0.015	0	0.015
Green Roof (86)	SW2706	Green Roof	0.014	0	0.014
Green Roof (87)	SW2700	Green Roof	0.026	0	0.026
Green Roof (89)	SW2701	Green Roof	0.015	0	0.015
Green Roof (90)	SW2704	Green Roof	0.017	0	0.017
Green Roof (91)	SW2902	Green Roof	0.014	0	0.014
Green Roof (92)	SW2806	Green Roof	0.015	0	0.015
Green Roof (94)	SW2901	Green Roof	0.026	0	0.026
Green Roof (95)	SW2900	Green Roof	0.014	0	0.014
Green Roof (96)	SW2801	Green Roof	0.015	0	0.015

Project: UoM Residences DBFO Site Wide Proposed Surface Water Caculations		Date: 29/04/2026			
		Designed by: Nour Rashdan	Checked by: Johnny Hunt		Approved By: Pedro Vicente
Report Details: Type: Inflow Summary Storm Phase: Full Site		Company Address: 20 Market Street Altrincham WA14 1PF			

Green Roof (98)	SW2905		Green Roof	0.026		0		0.026
Green Roof (99)	SW306		Green Roof	0.014		0		0.014
Green Roof (100)	SW502		Green Roof	0.010		0		0.010
Green Roof (101)	SW104		Green Roof	0.021		0		0.021
Green Roof (102)	SW606		Green Roof	0.015		0		0.015
Green Roof (103)	SW707		Green Roof	0.009		0		0.009
Green Roof (104)	SW1809		Green Roof	0.013		0		0.013
Green Roof (105)	SW1804		Green Roof	0.019		0		0.019
TOTAL		0.0		3.549				3.549

Project: UoM Residences DBFO Site Wide Proposed Surface Water Caculations	Date: 29/04/2026			
	Designed by: Nour Rashdan	Checked by: Johnny Hunt	Approved By: Pedro Vicente	
Report Details: Type: Outfall Details Storm Phase: Full Site	Company Address: 20 Market Street Altrincham WA14 1PF			

Outfalls

Outfall	Outfall Type	Gated	Fixed Surcharged Level (m)	Level Curve
SW029	Free Discharge			

Project: UoM Residences DBFO Site Wide Proposed Surface Water Calculations		Date: 29/04/2026			
		Designed by: Nour Rashdan	Checked by: Johnny Hunt		Approved By: Pedro Vicente
Report Title: Rainfall Analysis Criteria		Company Address: 20 Market Street Altrincham WA14 1PF			

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		
FEH 2022		Type: FEH
Site Location	GB 385550 394000 SJ 85550 94000	
Rainfall Version	2022	
Summer	☒	
Winter	☒	

Return Period	
Return Period (years)	Increase Rainfall (%)
2.0	0.000
30.0	40.000
100.0	45.000

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

Project: UoM Residences DBFO Site Wide Proposed Surface Water Calculations	Date: 29/04/2026			
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Report Details: Type: Junctions Summary Storm Phase: Full Site	Company Address: 20 Market Street Altrincham WA14 1PF			



FEH 2022: 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
SW603	FEH 2022: 2 years: +0 %: 15 mins: Winter	44.630	43.532	43.588	0.056	4.7	0.009	0.000	4.6	2.644	OK
SW604	FEH 2022: 2 years: +0 %: 15 mins: Winter	44.640	43.389	43.443	0.054	5.8	0.015	0.000	5.6	3.605	OK
SW605	FEH 2022: 2 years: +0 %: 15 mins: Winter	44.620	43.259	43.319	0.060	6.4	0.017	0.000	6.2	3.930	OK
SW606	FEH 2022: 2 years: +0 %: 15 mins: Winter	44.640	43.203	43.265	0.061	6.7	0.017	0.000	6.5	4.487	OK
SW608	FEH 2022: 2 years: +0 %: 15 mins: Winter	44.630	43.079	43.141	0.062	7.3	0.017	0.000	7.0	5.183	OK
SW609	FEH 2022: 2 years: +0 %: 15 mins: Winter	44.780	42.937	42.981	0.044	8.2	0.050	0.000	8.0	5.951	OK
SW006	FEH 2022: 2 years: +0 %: 30 mins: Winter	44.670	42.558	42.617	0.059	9.7	0.067	0.000	9.6	11.451	OK
SW007	FEH 2022: 2 years: +0 %: 240 mins: Winter	44.500	42.008	42.201	0.193	8.9	0.341	0.000	8.8	63.306	OK
SW008	FEH 2022: 2 years: +0 %: 240 mins: Winter	44.400	41.800	42.201	0.401	10.5	0.708	0.000	6.5	144.747	Surcharged
SW009	FEH 2022: 2 years: +0 %: 480 mins: Winter	44.250	41.433	41.511	0.078	6.8	0.022	0.000	6.8	187.292	OK
SW010	FEH 2022: 2 years: +0 %: 480 mins: Winter	44.390	41.407	41.506	0.100	6.8	0.028	0.000	6.8	187.276	OK
SW011a	FEH 2022: 2 years: +0 %: 480 mins: Winter	44.380	41.360	41.501	0.141	8.7	0.159	0.000	8.7	212.865	OK
SW012	FEH 2022: 2 years: +0 %: 480 mins: Winter	43.260	41.115	41.493	0.378	11.8	0.668	0.000	6.7	326.270	Surcharged
SW013	FEH 2022: 2 years: +0 %: 480 mins: Winter	43.170	41.011	41.478	0.467	6.7	0.528	0.000	6.7	274.826	Surcharged
SW1306	FEH 2022: 2 years: +0 %: 15 mins: Winter	42.620	40.694	40.774	0.080	13.1	0.090	0.000	12.6	13.469	OK
SW1308	FEH 2022: 2 years: +0 %: 15 mins: Winter	41.950	40.266	40.372	0.106	21.6	0.120	0.000	20.4	18.869	OK
SW1405	FEH 2022: 2 years: +0 %: 15 mins: Winter	41.600	38.965	39.077	0.112	30.9	0.127	0.000	30.2	24.817	OK
SW017	FEH 2022: 2 years: +0 %: 15 mins: Winter	41.530	38.747	38.858	0.112	31.5	0.126	0.000	29.3	25.698	OK
SW018	FEH 2022: 2 years: +0 %: 15 mins: Winter	40.980	38.351	38.563	0.212	49.0	0.375	0.000	44.0	40.194	OK
SW019	FEH 2022: 2 years: +0 %: 15 mins: Winter	40.680	38.310	38.550	0.241	58.5	0.425	0.000	45.2	49.664	OK
SW020	FEH 2022: 2 years: +0 %: 15 mins: Winter	40.000	38.241	38.532	0.291	48.0	1.668	0.000	26.3	40.619	OK
SW021	FEH 2022: 2 years: +0 %: 15 mins: Winter	39.900	38.170	38.295	0.124	27.9	0.178	0.000	24.9	22.514	OK
SW022	FEH 2022: 2 years: +0 %: 30 mins: Summer	40.000	38.141	38.262	0.121	25.9	0.174	0.000	26.8	42.877	OK
SW023	FEH 2022: 2 years: +0 %: 240 mins: Winter	40.000	38.063	38.214	0.151	21.9	0.217	0.000	21.9	324.625	OK
SW024	FEH 2022: 2 years: +0 %: 240 mins: Winter	40.000	38.017	38.203	0.185	22.4	0.265	0.000	22.4	329.720	OK
SW025	FEH 2022: 2 years: +0 %: 240 mins: Winter	39.800	37.956	38.195	0.239	22.6	0.342	0.000	22.6	332.595	OK
SW026	FEH 2022: 2 years: +0 %: 240 mins: Winter	40.100	37.913	38.191	0.279	47.0	0.399	0.000	46.6	519.144	OK
SW027	FEH 2022: 2 years: +0 %: 240 mins: Winter	40.130	37.851	38.184	0.333	47.6	0.589	0.000	47.4	525.784	OK
SW028	FEH 2022: 2 years: +0 %: 240 mins: Winter	39.600	37.824	38.178	0.354	38.1	2.029	0.000	38.1	472.708	OK
SW029	FEH 2022: 2 years: +0 %: 240 mins: Winter	39.580	37.640	37.766	0.126	38.1	0.000	0.000	38.1	472.533	OK
SW611	FEH 2022: 2 years: +0 %: 15 mins: Winter	44.780	43.120	43.150	0.030	1.4	0.005	0.000	1.3	0.808	OK
SW031	FEH 2022: 2 years: +0 %: 30 mins: Winter	44.490	43.070	43.094	0.024	1.2	0.027	0.000	1.2	1.363	OK

Project: UoM Residences DBFO Site Wide Proposed Surface Water Calculations	Date: 29/04/2026			
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Report Details: Type: Junctions Summary Storm Phase: Full Site	Company Address: 20 Market Street Altrincham WA14 1PF			

SW032	FEH 2022: 2 years: +0 %: 30 mins: Winter	44.480	42.813	42.848	0.035	2.1	0.039	0.000	2.0	2.243	OK
SW500	FEH 2022: 2 years: +0 %: 15 mins: Winter	44.770	43.420	43.469	0.049	4.4	0.008	0.000	4.3	2.017	OK
SW501	FEH 2022: 2 years: +0 %: 15 mins: Winter	44.650	43.256	43.309	0.053	4.8	0.008	0.000	4.7	2.590	OK
SW503	FEH 2022: 2 years: +0 %: 15 mins: Winter	44.780	43.109	43.164	0.055	4.9	0.009	0.000	4.8	2.921	OK
SW504	FEH 2022: 2 years: +0 %: 15 mins: Winter	44.790	43.050	43.101	0.051	4.8	0.008	0.000	4.7	2.903	OK
SW505	FEH 2022: 2 years: +0 %: 15 mins: Winter	44.800	42.871	42.925	0.055	5.3	0.009	0.000	5.1	3.565	OK
SW506	FEH 2022: 2 years: +0 %: 15 mins: Winter	44.640	42.755	42.807	0.051	5.1	0.008	0.000	4.8	3.531	OK
SW507	FEH 2022: 2 years: +0 %: 15 mins: Winter	44.550	42.461	42.502	0.041	7.8	0.012	0.000	7.7	5.978	OK
SW509	FEH 2022: 2 years: +0 %: 15 mins: Winter	44.790	43.331	43.367	0.036	2.2	0.006	0.000	2.2	1.444	OK
SW511	FEH 2022: 2 years: +0 %: 15 mins: Winter	44.750	43.182	43.212	0.029	3.0	0.005	0.000	2.9	2.472	OK
SW300	FEH 2022: 2 years: +0 %: 15 mins: Winter	44.380	42.925	42.974	0.049	5.5	0.014	0.000	5.4	3.035	OK
SW301	FEH 2022: 2 years: +0 %: 15 mins: Winter	44.500	42.826	42.884	0.058	7.7	0.016	0.000	7.6	4.129	OK
SW508	FEH 2022: 2 years: +0 %: 15 mins: Winter	44.790	43.440	43.460	0.020	0.8	0.003	0.000	0.8	0.376	OK
SW302	FEH 2022: 2 years: +0 %: 15 mins: Winter	44.740	42.699	42.755	0.055	7.6	0.016	0.000	7.3	4.110	OK
SW303	FEH 2022: 2 years: +0 %: 15 mins: Winter	44.650	42.432	42.487	0.055	7.6	0.016	0.000	7.2	4.255	OK
SW304	FEH 2022: 2 years: +0 %: 15 mins: Winter	44.550	42.202	42.258	0.056	14.1	0.016	0.000	13.7	9.641	OK
SW305	FEH 2022: 2 years: +0 %: 15 mins: Winter	44.450	43.100	43.131	0.031	1.9	0.005	0.000	1.8	0.867	OK
SW307	FEH 2022: 2 years: +0 %: 15 mins: Winter	44.650	42.643	42.687	0.044	4.1	0.012	0.000	4.0	3.012	OK
SW308	FEH 2022: 2 years: +0 %: 15 mins: Winter	44.780	42.557	42.606	0.049	4.6	0.014	0.000	4.5	3.270	OK
SW311	FEH 2022: 2 years: +0 %: 15 mins: Winter	44.650	42.385	42.440	0.055	7.1	0.015	0.000	6.9	5.452	OK
SW100	FEH 2022: 2 years: +0 %: 30 mins: Winter	44.680	43.425	43.447	0.022	0.9	0.004	0.000	0.9	1.545	OK
SW102	FEH 2022: 2 years: +0 %: 30 mins: Winter	44.550	43.263	43.291	0.027	1.4	0.004	0.000	1.4	2.579	OK
SW103	FEH 2022: 2 years: +0 %: 30 mins: Winter	44.470	43.116	43.149	0.032	2.0	0.005	0.000	2.0	3.615	OK
SW104	FEH 2022: 2 years: +0 %: 30 mins: Winter	44.490	42.938	42.978	0.041	3.8	0.006	0.000	3.8	6.216	OK
SW059	FEH 2022: 2 years: +0 %: 30 mins: Winter	44.220	42.687	42.726	0.039	3.8	0.068	0.000	3.7	6.171	OK
SW060	FEH 2022: 2 years: +0 %: 30 mins: Winter	44.400	42.237	42.271	0.033	8.1	0.038	0.000	8.1	11.363	OK
SW200	FEH 2022: 2 years: +0 %: 15 mins: Summer	44.700	43.650	43.679	0.029	1.6	0.005	0.000	1.5	0.672	OK
SW201	FEH 2022: 2 years: +0 %: 15 mins: Summer	44.680	43.481	43.508	0.027	1.5	0.004	0.000	1.4	0.670	OK
SW202	FEH 2022: 2 years: +0 %: 15 mins: Winter	44.610	43.273	43.317	0.044	3.2	0.007	0.000	3.1	1.530	OK
SW203	FEH 2022: 2 years: +0 %: 15 mins: Winter	44.600	43.175	43.225	0.051	3.9	0.008	0.000	3.7	2.381	OK
SW700	FEH 2022: 2 years: +0 %: 30 mins: Winter	44.350	43.500	43.517	0.017	0.6	0.003	0.000	0.6	1.009	OK
SW702	FEH 2022: 2 years: +0 %: 30 mins: Winter	44.460	43.399	43.434	0.035	2.2	0.006	0.000	2.2	3.470	OK
SW703	FEH 2022: 2 years: +0 %: 30 mins: Winter	44.480	43.319	43.353	0.034	2.2	0.005	0.000	2.1	3.453	OK
SW704	FEH 2022: 2 years: +0 %: 30 mins: Winter	44.470	43.158	43.190	0.032	2.9	0.005	0.000	2.8	4.475	OK
SW705	FEH 2022: 2 years: +0 %: 15 mins: Winter	44.000	42.782	42.821	0.039	4.2	0.006	0.000	4.1	3.205	OK
SW706	FEH 2022: 2 years: +0 %: 15 mins: Winter	43.970	42.586	42.642	0.056	7.7	0.009	0.000	7.5	5.322	OK
SW707	FEH 2022: 2 years: +0 %: 30 mins: Summer	43.980	42.750	42.774	0.024	1.0	0.004	0.000	1.0	1.582	OK

Project: UoM Residences DBFO Site Wide Proposed Surface Water Caculations		Date: 29/04/2026			
		Designed by: Nour Rashdan	Checked by: Johnny Hunt		Approved By: Pedro Vicente
Report Details: Type: Junctions Summary Storm Phase: Full Site		Company Address: 20 Market Street Altrincham WA14 1PF			

SW708	FEH 2022: 2 years: +0 %: 15 mins: Winter	43.960	42.694	42.731	0.037	2.3	0.006	0.000	2.2	1.554	OK
SW709	FEH 2022: 2 years: +0 %: 15 mins: Winter	43.850	42.512	42.554	0.042	3.7	0.075	0.000	3.2	2.486	OK
SW1100	FEH 2022: 2 years: +0 %: 15 mins: Summer	44.350	43.300	43.318	0.018	0.6	0.003	0.000	0.6	0.256	OK
SW1101	FEH 2022: 2 years: +0 %: 15 mins: Summer	44.490	43.125	43.148	0.023	1.0	0.004	0.000	1.0	0.449	OK
SW1103	FEH 2022: 2 years: +0 %: 30 mins: Winter	44.350	42.886	42.921	0.035	2.3	0.006	0.000	2.3	3.575	OK
SW1104	FEH 2022: 2 years: +0 %: 15 mins: Summer	44.350	42.783	42.832	0.049	4.5	0.008	0.000	4.3	2.878	OK
SW1109	FEH 2022: 2 years: +0 %: 15 mins: Winter	44.470	43.054	43.087	0.033	2.1	0.005	0.000	2.0	1.561	OK
SW1105	FEH 2022: 2 years: +0 %: 480 mins: Winter	44.350	41.260	41.493	0.233	1.9	0.264	0.000	1.8	22.562	Surcharged
SW1106	FEH 2022: 2 years: +0 %: 30 mins: Winter	44.350	43.300	43.317	0.017	0.6	0.003	0.000	0.6	1.009	OK
SW1107	FEH 2022: 2 years: +0 %: 30 mins: Winter	44.350	43.219	43.242	0.023	1.0	0.004	0.000	1.0	1.761	OK
SW1108	FEH 2022: 2 years: +0 %: 15 mins: Winter	44.460	43.120	43.149	0.030	1.6	0.005	0.000	1.6	1.333	OK
SW1800	FEH 2022: 2 years: +0 %: 15 mins: Winter	42.900	41.386	41.414	0.028	1.9	0.008	0.000	1.8	1.210	OK
SW1802	FEH 2022: 2 years: +0 %: 15 mins: Winter	42.900	41.257	41.289	0.032	2.4	0.009	0.000	2.3	1.823	OK
SW1803	FEH 2022: 2 years: +0 %: 15 mins: Winter	43.000	41.188	41.218	0.030	2.3	0.009	0.000	2.2	1.804	OK
SW1804	FEH 2022: 2 years: +0 %: 15 mins: Winter	43.050	41.070	41.114	0.044	4.9	0.013	0.000	4.7	3.488	OK
SW1805	FEH 2022: 2 years: +0 %: 15 mins: Winter	43.200	40.858	40.903	0.045	5.4	0.013	0.000	5.2	3.752	OK
SW1304	FEH 2022: 2 years: +0 %: 15 mins: Winter	42.550	41.260	41.279	0.019	1.0	0.003	0.000	0.9	0.465	OK
SW1806	FEH 2022: 2 years: +0 %: 15 mins: Summer	43.100	40.985	41.005	0.020	0.8	0.003	0.000	0.7	0.331	OK
SW1807	FEH 2022: 2 years: +0 %: 15 mins: Summer	42.950	40.776	40.806	0.030	1.6	0.005	0.000	1.5	0.703	OK
SW1808	FEH 2022: 2 years: +0 %: 15 mins: Summer	42.950	40.709	40.739	0.030	1.5	0.005	0.000	1.5	0.701	OK
SW1809	FEH 2022: 2 years: +0 %: 15 mins: Winter	42.950	40.678	40.710	0.032	1.9	0.005	0.000	1.9	1.275	OK
SW1810	FEH 2022: 2 years: +0 %: 15 mins: Summer	42.740	40.424	40.472	0.048	5.5	0.054	0.000	5.3	3.310	OK
SW1900	FEH 2022: 2 years: +0 %: 15 mins: Winter	42.150	41.000	41.026	0.026	1.2	0.004	0.000	1.2	0.796	OK
SW1901	FEH 2022: 2 years: +0 %: 15 mins: Winter	42.300	40.937	40.966	0.030	1.7	0.005	0.000	1.6	1.365	OK
SW1902	FEH 2022: 2 years: +0 %: 15 mins: Winter	42.200	40.730	40.752	0.022	1.6	0.004	0.000	1.6	1.351	OK
SW1300	FEH 2022: 2 years: +0 %: 15 mins: Summer	41.500	40.450	40.450	0.000	0.0	0.000	0.000	0.0	0.000	OK
SW1302	FEH 2022: 2 years: +0 %: 15 mins: Winter	42.050	40.186	40.221	0.035	2.5	0.006	0.000	2.4	2.156	OK
SW1303	FEH 2022: 2 years: +0 %: 15 mins: Winter	42.530	39.947	39.986	0.039	2.9	0.006	0.000	2.8	2.376	OK
SW1305	FEH 2022: 2 years: +0 %: 15 mins: Winter	42.600	40.804	40.825	0.021	1.7	0.006	0.000	1.6	1.329	OK
SW1401	FEH 2022: 2 years: +0 %: 15 mins: Summer	41.500	40.450	40.476	0.026	1.3	0.004	0.000	1.2	0.550	OK
SW1402	FEH 2022: 2 years: +0 %: 15 mins: Summer	41.350	40.211	40.237	0.026	1.2	0.004	0.000	1.2	0.547	OK
SW1403	FEH 2022: 2 years: +0 %: 15 mins: Summer	41.350	40.157	40.193	0.036	2.6	0.006	0.000	2.5	1.150	OK
SW1404	FEH 2022: 2 years: +0 %: 15 mins: Summer	41.480	39.880	39.931	0.051	4.4	0.008	0.000	4.2	1.995	OK
SW1500	FEH 2022: 2 years: +0 %: 30 mins: Winter	41.480	40.430	40.454	0.024	1.1	0.004	0.000	1.1	1.977	OK
SW1501	FEH 2022: 2 years: +0 %: 30 mins: Winter	41.480	40.326	40.353	0.028	1.4	0.004	0.000	1.4	2.274	OK
SW1200	FEH 2022: 2 years: +0 %: 15 mins: Summer	42.100	40.870	40.904	0.034	4.6	0.005	0.000	4.6	2.006	OK
SW1202	FEH 2022: 2 years: +0 %: 15 mins: Summer	41.400	40.311	40.368	0.057	5.3	0.009	0.000	5.0	2.813	OK

Project: UoM Residences DBFO Site Wide Proposed Surface Water Calculations				Date: 29/04/2026							
				Designed by: Nour Rashdan		Checked by: Johnny Hunt					
Report Details: Type: Junctions Summary Storm Phase: Full Site				Company Address: 20 Market Street Altrincham WA14 1PF							

SW1203	FEH 2022: 2 years: +0 %: 15 mins: Summer	41.270	40.063	40.115	0.052	5.4	0.015	0.000	5.3	3.313	OK
SW1206	FEH 2022: 2 years: +0 %: 15 mins: Winter	41.000	39.776	39.832	0.056	6.4	0.016	0.000	6.2	5.053	OK
SW1204	FEH 2022: 2 years: +0 %: 15 mins: Summer	41.250	39.997	40.048	0.051	5.4	0.014	0.000	5.3	3.342	OK
SW1205	FEH 2022: 2 years: +0 %: 15 mins: Summer	41.150	39.896	39.948	0.052	5.9	0.015	0.000	5.7	3.969	OK
SW1207	FEH 2022: 2 years: +0 %: 15 mins: Winter	41.040	39.700	39.752	0.052	6.3	0.015	0.000	6.0	5.071	OK
SW1208	FEH 2022: 2 years: +0 %: 30 mins: Winter	41.200	39.446	39.484	0.038	6.9	0.011	0.000	6.9	9.842	OK
SW1209	FEH 2022: 2 years: +0 %: 30 mins: Winter	39.950	39.041	39.114	0.074	11.6	0.083	0.000	11.4	15.132	OK
SW1704	FEH 2022: 2 years: +0 %: 30 mins: Winter	40.020	38.675	38.758	0.083	15.1	0.094	0.000	14.9	19.916	OK
SW1400	FEH 2022: 2 years: +0 %: 30 mins: Winter	41.300	39.840	39.858	0.018	0.9	0.003	0.000	0.9	1.547	OK
SW1606	FEH 2022: 2 years: +0 %: 30 mins: Winter	40.000	39.169	39.193	0.024	1.1	0.007	0.000	1.1	1.947	OK
SW1700	FEH 2022: 2 years: +0 %: 15 mins: Winter	40.100	39.200	39.221	0.021	0.8	0.003	0.000	0.8	0.387	OK
SW1701	FEH 2022: 2 years: +0 %: 15 mins: Winter	40.150	39.149	39.186	0.037	2.4	0.006	0.000	2.3	1.756	OK
SW1702	FEH 2022: 2 years: +0 %: 15 mins: Winter	40.150	38.973	39.014	0.041	2.9	0.007	0.000	2.7	2.339	OK
SW1703	FEH 2022: 2 years: +0 %: 15 mins: Winter	40.100	38.885	38.939	0.055	4.4	0.009	0.000	4.2	3.061	OK
SW2200	FEH 2022: 2 years: +0 %: 15 mins: Winter	40.460	39.167	39.187	0.020	0.8	0.003	0.000	0.8	0.372	OK
SW2300	FEH 2022: 2 years: +0 %: 30 mins: Winter	40.350	39.300	39.325	0.025	1.1	0.004	0.000	1.1	1.948	OK
SW2201	FEH 2022: 2 years: +0 %: 60 mins: Winter	40.460	39.104	39.146	0.042	2.9	0.048	0.000	2.9	7.269	OK
SW2202	FEH 2022: 2 years: +0 %: 30 mins: Winter	40.470	38.868	38.913	0.045	4.2	0.013	0.000	4.1	6.731	OK
SW2203	FEH 2022: 2 years: +0 %: 15 mins: Winter	40.400	38.781	38.853	0.072	9.5	0.020	0.000	9.0	6.341	OK
SW2204	FEH 2022: 2 years: +0 %: 15 mins: Winter	40.700	38.586	38.663	0.077	12.2	0.087	0.000	11.8	9.022	OK
SW1903	FEH 2022: 2 years: +0 %: 15 mins: Winter	42.150	41.000	41.028	0.028	1.5	0.005	0.000	1.4	1.220	OK
SW1904	FEH 2022: 2 years: +0 %: 30 mins: Winter	42.150	40.846	40.875	0.029	2.0	0.005	0.000	2.0	3.252	OK
SW1600	FEH 2022: 2 years: +0 %: 30 mins: Winter	39.850	39.100	39.122	0.022	0.8	0.004	0.000	0.8	1.262	OK
SW1601	FEH 2022: 2 years: +0 %: 30 mins: Winter	40.000	38.995	39.025	0.030	1.4	0.005	0.000	1.4	2.319	OK
SW1602	FEH 2022: 2 years: +0 %: 30 mins: Winter	39.850	38.940	38.971	0.031	1.4	0.005	0.000	1.3	2.304	OK
SW1604	FEH 2022: 2 years: +0 %: 30 mins: Winter	40.000	38.811	38.841	0.031	1.5	0.005	0.000	1.5	2.444	OK
SW1605	FEH 2022: 2 years: +0 %: 30 mins: Winter	40.000	38.683	38.723	0.040	2.3	0.006	0.000	2.2	3.690	OK
SW2301	FEH 2022: 2 years: +0 %: 30 mins: Winter	40.000	38.950	38.969	0.019	0.6	0.003	0.000	0.6	1.139	OK
SW1000	FEH 2022: 2 years: +0 %: 15 mins: Winter	44.470	43.120	43.157	0.037	2.5	0.006	0.000	2.4	2.125	OK
SW1001	FEH 2022: 2 years: +0 %: 30 mins: Summer	44.470	43.009	43.045	0.036	2.5	0.041	0.000	2.5	3.675	OK
SW1002	FEH 2022: 2 years: +0 %: 30 mins: Winter	44.460	42.780	42.829	0.049	4.6	0.008	0.000	4.4	7.418	OK
SW1003	FEH 2022: 2 years: +0 %: 15 mins: Winter	44.080	41.025	41.110	0.085	13.3	0.096	0.000	12.9	11.094	OK
SW1005	FEH 2022: 2 years: +0 %: 15 mins: Winter	43.300	40.797	40.901	0.104	22.0	0.029	0.000	21.0	15.421	OK
SW2407	FEH 2022: 2 years: +0 %: 15 mins: Winter	41.700	40.487	40.604	0.117	27.1	0.033	0.000	25.9	18.247	OK
SW156	FEH 2022: 2 years: +0 %: 15 mins: Winter	41.650	40.046	40.162	0.115	41.4	0.131	0.000	39.4	28.999	OK
SW2402	FEH 2022: 2 years: +0 %: 15 mins: Winter	41.550	39.691	39.789	0.098	42.1	0.111	0.000	41.6	30.258	OK
SW2404	FEH 2022: 2 years: +0 %: 15 mins: Winter	41.210	38.981	39.125	0.144	43.1	0.162	0.000	42.0	31.745	OK

Project: UoM Residences DBFO Site Wide Proposed Surface Water Calculations	Date: 29/04/2026			 Kennedy Redford
	Designed by: Nour Rashdan	Checked by: Johnny Hunt	Approved By: Pedro Vicente	
Report Details: Type: Junctions Summary Storm Phase: Full Site	Company Address: 20 Market Street Altrincham WA14 1PF			

SW2700	FEH 2022: 2 years: +0 %: 30 mins: Winter	40.650	38.881	39.019	0.138	42.9	0.197	0.000	42.6	52.074	OK
SW2701	FEH 2022: 2 years: +0 %: 30 mins: Winter	40.450	38.664	38.822	0.158	46.6	0.179	0.000	46.2	58.526	OK
SW2704	FEH 2022: 2 years: +0 %: 30 mins: Winter	40.250	38.437	38.585	0.148	48.9	0.212	0.000	48.5	62.531	OK
SW2705	FEH 2022: 2 years: +0 %: 15 mins: Winter	40.320	38.222	38.377	0.155	49.4	0.175	0.000	52.5	39.975	OK
SW163	FEH 2022: 2 years: +0 %: 240 mins: Winter	40.200	37.999	38.194	0.195	28.8	0.279	0.000	28.5	183.426	OK
SW1006	FEH 2022: 2 years: +0 %: 15 mins: Winter	44.480	43.130	43.181	0.051	5.0	0.015	0.000	4.8	3.319	OK
SW1007	FEH 2022: 2 years: +0 %: 15 mins: Summer	44.470	42.764	42.827	0.063	8.1	0.018	0.000	8.0	4.645	OK
SW1008	FEH 2022: 2 years: +0 %: 15 mins: Winter	44.380	42.658	42.717	0.059	8.0	0.017	0.000	7.5	4.791	OK
SW2405	FEH 2022: 2 years: +0 %: 15 mins: Winter	41.620	40.790	40.835	0.045	3.6	0.007	0.000	3.5	1.669	OK
SW2406	FEH 2022: 2 years: +0 %: 15 mins: Winter	41.640	40.680	40.730	0.050	4.4	0.008	0.000	4.2	2.067	OK
SW1906	FEH 2022: 2 years: +0 %: 15 mins: Summer	42.050	40.718	40.760	0.042	3.1	0.007	0.000	3.0	1.341	OK
SW2102	FEH 2022: 2 years: +0 %: 15 mins: Summer	42.270	40.776	40.830	0.054	4.7	0.009	0.000	4.5	2.730	OK
SW2104	FEH 2022: 2 years: +0 %: 15 mins: Summer	42.250	40.482	40.554	0.072	9.3	0.020	0.000	9.1	5.472	OK
SW2106	FEH 2022: 2 years: +0 %: 15 mins: Summer	42.280	40.355	40.437	0.082	11.1	0.023	0.000	10.7	6.885	OK
SW2107	FEH 2022: 2 years: +0 %: 15 mins: Summer	42.270	40.249	40.337	0.088	12.2	0.025	0.000	11.7	7.509	OK
SW2105	FEH 2022: 2 years: +0 %: 15 mins: Summer	42.250	40.422	40.498	0.076	10.5	0.086	0.000	10.2	6.523	OK
SW2108	FEH 2022: 2 years: +0 %: 15 mins: Summer	42.180	40.181	40.265	0.084	12.7	0.024	0.000	12.1	7.883	OK
SW2109	FEH 2022: 2 years: +0 %: 15 mins: Summer	42.280	40.500	40.500	0.000	0.0	0.000	0.000	0.0	0.000	OK
SW2400	FEH 2022: 2 years: +0 %: 15 mins: Winter	41.690	40.340	40.361	0.021	0.9	0.003	0.000	0.8	0.403	OK
SW2403	FEH 2022: 2 years: +0 %: 15 mins: Winter	41.570	39.360	39.461	0.101	42.6	0.029	0.000	41.8	31.290	OK
SW2401	FEH 2022: 2 years: +0 %: 15 mins: Winter	41.650	40.066	40.093	0.027	1.5	0.004	0.000	1.4	0.706	OK
SW2500	FEH 2022: 2 years: +0 %: 30 mins: Winter	41.570	40.620	40.639	0.019	0.6	0.003	0.000	0.6	1.142	OK
SW2501	FEH 2022: 2 years: +0 %: 30 mins: Winter	41.570	40.462	40.489	0.026	1.2	0.004	0.000	1.2	2.197	OK
SW2502	FEH 2022: 2 years: +0 %: 30 mins: Winter	41.620	40.388	40.413	0.026	1.2	0.004	0.000	1.2	2.183	OK
SW2503	FEH 2022: 2 years: +0 %: 30 mins: Winter	41.640	40.196	40.225	0.029	2.0	0.005	0.000	2.0	3.551	OK
SW2504	FEH 2022: 2 years: +0 %: 30 mins: Winter	41.150	40.019	40.049	0.030	2.0	0.005	0.000	2.0	3.534	OK
SW2505	FEH 2022: 2 years: +0 %: 30 mins: Winter	41.110	39.926	39.952	0.026	2.6	0.004	0.000	2.6	4.660	OK
SW2506	FEH 2022: 2 years: +0 %: 30 mins: Winter	41.550	40.150	40.167	0.017	0.6	0.003	0.000	0.6	1.143	OK
SW2706	FEH 2022: 2 years: +0 %: 15 mins: Winter	40.780	39.730	39.758	0.028	2.1	0.004	0.000	2.1	1.336	OK
SW2900	FEH 2022: 2 years: +0 %: 15 mins: Winter	40.530	39.480	39.508	0.028	1.5	0.004	0.000	1.4	1.039	OK
SW2901	FEH 2022: 2 years: +0 %: 15 mins: Winter	40.380	39.336	39.371	0.035	2.4	0.005	0.000	2.3	2.096	OK
SW2902	FEH 2022: 2 years: +0 %: 15 mins: Winter	40.500	39.119	39.164	0.046	3.8	0.007	0.000	3.7	3.140	OK
SW2904	FEH 2022: 2 years: +0 %: 15 mins: Winter	40.230	38.949	38.989	0.040	5.8	0.006	0.000	5.7	4.106	OK
SW196	FEH 2022: 2 years: +0 %: 15 mins: Winter	40.290	38.940	38.985	0.045	3.7	0.007	0.000	3.6	2.080	OK
SW2800	FEH 2022: 2 years: +0 %: 30 mins: Winter	40.300	39.250	39.257	0.007	0.1	0.001	0.000	0.1	0.076	OK
SW2801	FEH 2022: 2 years: +0 %: 30 mins: Winter	40.320	39.101	39.122	0.021	0.7	0.003	0.000	0.7	1.215	OK
SW2803	FEH 2022: 2 years: +0 %: 30 mins: Winter	40.280	39.020	39.041	0.021	0.8	0.003	0.000	0.8	1.289	OK

Project: UoM Residences DBFO Site Wide Proposed Surface Water Caculations		Date: 29/04/2026			
		Designed by: Nour Rashdan	Checked by: Johnny Hunt		Approved By: Pedro Vicente
Report Details: Type: Junctions Summary Storm Phase: Full Site		Company Address: 20 Market Street Altrincham WA14 1PF			

SW2802	FEH 2022: 2 years: +0 %: 30 mins: Winter	40.300	39.065	39.086	0.022	0.8	0.003	0.000	0.8	1.299	OK
SW2804	FEH 2022: 2 years: +0 %: 30 mins: Winter	40.280	38.649	38.669	0.021	0.8	0.003	0.000	0.8	1.278	OK
SW2805	FEH 2022: 2 years: +0 %: 30 mins: Winter	40.360	38.570	38.592	0.022	0.9	0.003	0.000	0.9	1.404	OK
SW2806	FEH 2022: 2 years: +0 %: 30 mins: Winter	40.250	38.324	38.354	0.030	1.5	0.005	0.000	1.5	2.541	OK
SW2807	FEH 2022: 2 years: +0 %: 30 mins: Winter	40.150	38.240	38.272	0.032	1.6	0.005	0.000	1.6	2.630	OK
SW309	FEH 2022: 2 years: +0 %: 15 mins: Winter	44.650	42.502	42.559	0.057	5.6	0.016	0.000	5.5	4.331	OK
SW306	FEH 2022: 2 years: +0 %: 15 mins: Winter	44.650	42.849	42.892	0.043	3.4	0.007	0.000	3.2	2.646	OK
SW310	FEH 2022: 2 years: +0 %: 15 mins: Winter	44.650	42.477	42.532	0.055	6.1	0.015	0.000	6.0	4.984	OK
SW502	FEH 2022: 2 years: +0 %: 15 mins: Winter	44.650	43.157	43.214	0.057	5.0	0.009	0.000	4.9	2.939	OK
SW009a	FEH 2022: 2 years: +0 %: 240 mins: Winter	44.460	41.631	41.707	0.076	6.8	0.012	0.000	6.8	135.874	OK
SW009b	FEH 2022: 2 years: +0 %: 120 mins: Winter	44.350	41.535	41.596	0.061	7.1	0.017	0.000	7.1	80.637	OK
SW011	FEH 2022: 2 years: +0 %: 480 mins: Winter	43.670	41.246	41.497	0.251	9.9	0.284	0.000	9.8	227.585	Surcharged
SW900	FEH 2022: 2 years: +0 %: 30 mins: Winter	44.350	43.350	43.372	0.022	0.9	0.003	0.000	0.9	1.669	OK
SW901	FEH 2022: 2 years: +0 %: 15 mins: Winter	44.350	43.273	43.319	0.046	3.9	0.007	0.000	3.7	2.756	OK
SW902	FEH 2022: 2 years: +0 %: 15 mins: Winter	44.300	43.084	43.141	0.057	6.1	0.016	0.000	6.0	3.960	OK
SW1102	FEH 2022: 2 years: +0 %: 15 mins: Winter	44.350	42.966	42.997	0.031	1.8	0.005	0.000	1.7	1.401	OK
SW600	FEH 2022: 2 years: +0 %: 15 mins: Winter	44.700	43.770	43.808	0.038	2.6	0.006	0.000	2.5	1.193	OK
SW602	FEH 2022: 2 years: +0 %: 15 mins: Winter	44.620	43.640	43.676	0.036	1.9	0.006	0.000	1.8	0.882	OK
SW601	FEH 2022: 2 years: +0 %: 15 mins: Winter	44.610	43.613	43.666	0.053	4.4	0.015	0.000	4.2	2.072	OK
SW607	FEH 2022: 2 years: +0 %: 15 mins: Winter	44.650	43.150	43.212	0.062	7.0	0.018	0.000	6.8	5.015	OK
SW610	FEH 2022: 2 years: +0 %: 15 mins: Winter	44.700	43.190	43.213	0.023	0.9	0.004	0.000	0.8	0.413	OK
SW701	FEH 2022: 2 years: +0 %: 30 mins: Winter	44.350	43.428	43.461	0.033	1.7	0.005	0.000	1.7	3.000	OK
SW2101	FEH 2022: 2 years: +0 %: 15 mins: Summer	42.270	40.828	40.857	0.029	1.5	0.005	0.000	1.5	0.988	OK
SW2100	FEH 2022: 2 years: +0 %: 15 mins: Summer	42.270	40.920	40.945	0.025	1.1	0.004	0.000	1.1	0.471	OK
SW1801	FEH 2022: 2 years: +0 %: 15 mins: Winter	42.900	41.305	41.338	0.033	2.4	0.009	0.000	2.4	1.841	OK
SW2103	FEH 2022: 2 years: +0 %: 15 mins: Summer	42.250	40.550	40.617	0.067	8.5	0.019	0.000	8.4	4.465	OK
SW1905	FEH 2022: 2 years: +0 %: 30 mins: Winter	41.750	38.876	38.901	0.025	2.0	0.028	0.000	2.0	3.235	OK
SW1201	FEH 2022: 2 years: +0 %: 15 mins: Summer	41.600	40.401	40.456	0.056	5.3	0.009	0.000	5.2	2.760	OK
SW1301	FEH 2022: 2 years: +0 %: 30 mins: Winter	41.350	40.235	40.258	0.023	1.0	0.004	0.000	1.0	1.659	OK
SW1307	FEH 2022: 2 years: +0 %: 30 mins: Winter	42.550	40.495	40.561	0.066	13.4	0.019	0.000	13.4	27.751	OK
SW101	FEH 2022: 2 years: +0 %: 30 mins: Winter	44.550	43.361	43.382	0.021	0.9	0.003	0.000	0.8	1.533	OK
SW1603	FEH 2022: 2 years: +0 %: 30 mins: Winter	40.000	38.899	38.928	0.030	1.3	0.005	0.000	1.3	2.288	OK
SW018a	FEH 2022: 2 years: +0 %: 15 mins: Summer	40.010	38.584	38.591	0.007	0.0	0.007	0.000	0.1	0.078	OK
SW20a	FEH 2022: 2 years: +0 %: 15 mins: Winter	40.000	38.281	38.531	0.250	37.0	0.283	0.000	0.2	18.660	OK
SW60a	FEH 2022: 2 years: +0 %: 30 mins: Winter	44.500	42.373	42.414	0.041	3.8	0.012	0.000	3.8	6.310	OK
SW156a	FEH 2022: 2 years: +0 %: 15 mins: Winter	41.670	40.339	40.457	0.118	27.5	0.033	0.000	26.4	19.553	OK
SW2702	FEH 2022: 2 years: +0 %: 30 mins: Winter	40.550	38.607	38.761	0.153	46.2	0.174	0.000	46.0	58.412	OK

Project: UoM Residences DBFO Site Wide Proposed Surface Water Calculations				Date: 29/04/2026							
				Designed by: Nour Rashdan		Checked by: Johnny Hunt					
Report Details: Type: Junctions Summary Storm Phase: Full Site				Company Address: 20 Market Street Altrincham WA14 1PF							

SW2703	FEH 2022: 2 years: +0 %: 30 mins: Winter	40.560	38.526	38.678	0.151	46.0	0.171	0.000	45.8	58.277	OK
SW2903	FEH 2022: 2 years: +0 %: 15 mins: Winter	40.350	39.001	39.050	0.049	4.0	0.008	0.000	3.9	3.252	OK
SW2905	FEH 2022: 2 years: +0 %: 30 mins: Winter	40.380	39.330	39.355	0.025	1.1	0.004	0.000	1.1	1.943	OK
SW510	FEH 2022: 2 years: +0 %: 15 mins: Winter	44.770	43.280	43.316	0.036	2.3	0.006	0.000	2.2	1.577	OK
SW1009	FEH 2022: 2 years: +0 %: 15 mins: Winter	43.490	41.290	41.336	0.046	4.8	0.007	0.000	4.6	2.203	OK
SW1004	FEH 2022: 2 years: +0 %: 15 mins: Winter	43.530	40.929	41.022	0.093	16.3	0.026	0.000	15.8	12.586	OK
SW2000	FEH 2022: 2 years: +0 %: 30 mins: Winter	42.260	40.770	40.789	0.019	0.7	0.003	0.000	0.6	1.162	OK
SW2001	FEH 2022: 2 years: +0 %: 60 mins: Summer	42.250	40.572	40.580	0.008	0.1	0.001	0.000	0.1	0.260	OK
SW2002	FEH 2022: 2 years: +0 %: 30 mins: Winter	41.640	39.462	39.481	0.019	0.6	0.003	0.000	0.6	1.139	OK
SW012a	FEH 2022: 2 years: +0 %: 480 mins: Winter	43.540	41.182	41.493	0.311	5.6	0.088	0.000	5.3	127.757	Surcharged

Project: UoM Residences DBFO Site Wide Proposed Surface Water Calculations	Date: 29/04/2026			
	Designed by: Nour Rashdan	Checked by: Johnny Hunt	Approved By: Pedro Vicente	
Report Details: Type: Junctions Summary Storm Phase: Full Site	Company Address: 20 Market Street Altrincham WA14 1PF			



FEH 2022: 30 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
SW603	FEH 2022: 30 years: +40 %: 15 mins: Winter	44.630	43.532	43.646	0.114	14.6	0.018	0.000	14.2	8.204	OK
SW604	FEH 2022: 30 years: +40 %: 15 mins: Winter	44.640	43.389	43.492	0.103	18.0	0.029	0.000	17.7	11.193	OK
SW605	FEH 2022: 30 years: +40 %: 15 mins: Winter	44.620	43.259	43.378	0.119	20.0	0.034	0.000	19.4	12.227	OK
SW606	FEH 2022: 30 years: +40 %: 15 mins: Winter	44.640	43.203	43.326	0.122	21.0	0.035	0.000	20.6	13.981	OK
SW608	FEH 2022: 30 years: +40 %: 15 mins: Winter	44.630	43.079	43.195	0.116	23.0	0.033	0.000	22.4	16.198	OK
SW609	FEH 2022: 30 years: +40 %: 15 mins: Winter	44.780	42.937	43.022	0.085	27.2	0.096	0.000	26.5	18.786	OK
SW006	FEH 2022: 30 years: +40 %: 480 mins: Winter	44.670	42.558	42.899	0.341	8.2	0.386	0.000	8.2	124.163	Surcharged
SW007	FEH 2022: 30 years: +40 %: 480 mins: Winter	44.500	42.008	42.899	0.891	15.8	1.574	0.000	13.5	246.871	Surcharged
SW008	FEH 2022: 30 years: +40 %: 480 mins: Winter	44.400	41.800	42.898	1.098	18.1	1.940	0.000	6.7	426.258	Surcharged
SW009	FEH 2022: 30 years: +40 %: 1440 mins: Winter	44.250	41.433	42.418	0.985	7.2	0.279	0.000	7.2	714.554	Surcharged
SW010	FEH 2022: 30 years: +40 %: 1440 mins: Winter	44.390	41.407	42.417	1.010	7.2	0.286	0.000	7.1	714.543	Surcharged
SW011a	FEH 2022: 30 years: +40 %: 1440 mins: Winter	44.380	41.360	42.416	1.056	9.7	1.194	0.000	9.7	804.252	Surcharged
SW012	FEH 2022: 30 years: +40 %: 1440 mins: Winter	43.260	41.115	42.410	1.295	13.7	2.288	0.000	6.7	1211.432	Surcharged
SW013	FEH 2022: 30 years: +40 %: 1440 mins: Winter	43.170	41.011	42.398	1.387	6.7	1.569	0.000	6.7	982.646	Surcharged
SW1306	FEH 2022: 30 years: +40 %: 15 mins: Winter	42.620	40.694	40.818	0.124	28.1	0.141	0.000	27.3	25.620	OK
SW1308	FEH 2022: 30 years: +40 %: 15 mins: Winter	41.950	40.266	40.493	0.227	56.4	0.257	0.000	51.2	43.097	Surcharged
SW1405	FEH 2022: 30 years: +40 %: 15 mins: Winter	41.600	38.965	39.184	0.219	84.1	0.247	0.000	82.7	61.831	OK
SW017	FEH 2022: 30 years: +40 %: 15 mins: Winter	41.530	38.747	38.973	0.226	87.0	0.256	0.000	82.0	65.402	OK
SW018	FEH 2022: 30 years: +40 %: 15 mins: Summer	40.980	38.351	38.838	0.487	140.1	0.861	0.000	129.1	102.378	Surcharged
SW019	FEH 2022: 30 years: +40 %: 240 mins: Winter	40.680	38.310	38.833	0.523	73.3	0.925	0.000	42.8	734.771	Surcharged
SW020	FEH 2022: 30 years: +40 %: 240 mins: Winter	40.000	38.241	38.831	0.590	47.8	3.378	0.000	40.6	689.895	Surcharged

Project: UoM Residences DBFO Site Wide Proposed Surface Water Calculations				Date: 29/04/2026						
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Report Details: Type: Junctions Summary Storm Phase: Full Site				Company Address: 20 Market Street Altrincham WA14 1PF						

SW021	FEH 2022: 30 years: +40 %: 120 mins: Winter	39.900	38.170	38.731	0.561	43.0	0.803	0.000	43.1	383.244	Surcharged
SW022	FEH 2022: 30 years: +40 %: 120 mins: Winter	40.000	38.141	38.731	0.590	43.4	0.845	0.000	43.5	394.183	Surcharged
SW023	FEH 2022: 30 years: +40 %: 120 mins: Winter	40.000	38.063	38.731	0.668	43.5	0.956	0.000	43.8	394.115	Surcharged
SW024	FEH 2022: 30 years: +40 %: 120 mins: Winter	40.000	38.017	38.731	0.714	44.1	1.022	0.000	44.4	404.234	Surcharged
SW025	FEH 2022: 30 years: +40 %: 120 mins: Winter	39.800	37.956	38.731	0.775	44.7	1.109	0.000	44.9	409.130	Surcharged
SW026	FEH 2022: 30 years: +40 %: 120 mins: Winter	40.100	37.913	38.731	0.818	143.1	1.170	0.000	142.5	812.707	Surcharged
SW027	FEH 2022: 30 years: +40 %: 120 mins: Winter	40.130	37.851	38.720	0.869	145.5	1.536	0.000	144.9	826.309	Surcharged
SW028	FEH 2022: 30 years: +40 %: 120 mins: Winter	39.600	37.824	38.706	0.882	65.0	5.049	0.000	63.0	678.887	Surcharged
SW029	FEH 2022: 30 years: +40 %: 240 mins: Winter	39.580	37.640	37.806	0.166	63.0	0.000	0.000	63.0	1095.256	OK
SW611	FEH 2022: 30 years: +40 %: 15 mins: Winter	44.780	43.120	43.180	0.060	5.1	0.010	0.000	4.8	2.662	OK
SW031	FEH 2022: 30 years: +40 %: 30 mins: Winter	44.490	43.070	43.116	0.046	4.3	0.052	0.000	4.3	4.758	OK
SW032	FEH 2022: 30 years: +40 %: 480 mins: Winter	44.480	42.813	42.900	0.087	2.2	0.099	0.000	2.2	47.173	OK
SW500	FEH 2022: 30 years: +40 %: 15 mins: Winter	44.770	43.420	43.518	0.098	13.5	0.016	0.000	13.3	6.218	OK
SW501	FEH 2022: 30 years: +40 %: 15 mins: Winter	44.650	43.256	43.368	0.112	14.8	0.018	0.000	14.5	8.014	OK
SW503	FEH 2022: 30 years: +40 %: 15 mins: Winter	44.780	43.109	43.223	0.114	15.1	0.018	0.000	14.8	9.082	OK
SW504	FEH 2022: 30 years: +40 %: 15 mins: Winter	44.790	43.050	43.154	0.104	14.8	0.017	0.000	14.5	9.051	OK
SW505	FEH 2022: 30 years: +40 %: 15 mins: Winter	44.800	42.871	42.984	0.114	16.4	0.018	0.000	15.9	11.127	OK
SW506	FEH 2022: 30 years: +40 %: 480 mins: Winter	44.640	42.755	42.899	0.144	3.6	0.023	0.000	3.6	42.061	OK
SW507	FEH 2022: 30 years: +40 %: 480 mins: Winter	44.550	42.461	42.899	0.438	6.2	0.124	0.000	6.2	73.903	Surcharged
SW509	FEH 2022: 30 years: +40 %: 15 mins: Winter	44.790	43.331	43.399	0.068	6.9	0.011	0.000	6.8	4.476	OK
SW511	FEH 2022: 30 years: +40 %: 15 mins: Winter	44.750	43.182	43.236	0.053	9.5	0.008	0.000	9.2	7.668	OK
SW300	FEH 2022: 30 years: +40 %: 15 mins: Winter	44.380	42.925	43.020	0.095	16.9	0.027	0.000	16.7	9.375	OK
SW301	FEH 2022: 30 years: +40 %: 15 mins: Winter	44.500	42.826	42.937	0.111	24.0	0.031	0.000	23.6	12.823	OK
SW508	FEH 2022: 30 years: +40 %: 15 mins: Winter	44.790	43.440	43.475	0.035	2.5	0.006	0.000	2.5	1.161	OK
SW302	FEH 2022: 30 years: +40 %: 480 mins: Winter	44.740	42.699	42.899	0.199	3.8	0.056	0.000	3.8	47.428	OK

Project: UoM Residences DBFO Site Wide Proposed Surface Water Calculations				Date: 29/04/2026					
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Report Details: Type: Junctions Summary Storm Phase: Full Site				Company Address: 20 Market Street Altrincham WA14 1PF					

SW303	FEH 2022: 30 years: +40 %: 480 mins: Winter	44.650	42.432	42.898	0.466	4.1	0.132	0.000	4.1	52.682	Surcharged
SW304	FEH 2022: 30 years: +40 %: 480 mins: Winter	44.550	42.202	42.898	0.696	9.8	0.197	0.000	9.5	120.849	Surcharged
SW305	FEH 2022: 30 years: +40 %: 15 mins: Winter	44.450	43.100	43.155	0.055	5.8	0.009	0.000	5.7	2.671	OK
SW307	FEH 2022: 30 years: +40 %: 480 mins: Winter	44.650	42.643	42.898	0.255	3.1	0.072	0.000	3.1	37.383	Surcharged
SW308	FEH 2022: 30 years: +40 %: 480 mins: Winter	44.780	42.557	42.898	0.341	3.4	0.097	0.000	3.4	40.321	Surcharged
SW311	FEH 2022: 30 years: +40 %: 480 mins: Winter	44.650	42.385	42.898	0.513	5.8	0.145	0.000	5.8	69.130	Surcharged
SW100	FEH 2022: 30 years: +40 %: 30 mins: Winter	44.680	43.425	43.465	0.040	2.7	0.006	0.000	2.7	4.825	OK
SW102	FEH 2022: 30 years: +40 %: 30 mins: Winter	44.550	43.263	43.313	0.050	4.5	0.008	0.000	4.5	8.092	OK
SW103	FEH 2022: 30 years: +40 %: 30 mins: Winter	44.470	43.116	43.176	0.059	6.3	0.009	0.000	6.2	11.349	OK
SW104	FEH 2022: 30 years: +40 %: 30 mins: Winter	44.490	42.938	43.019	0.081	12.8	0.013	0.000	12.6	19.872	OK
SW059	FEH 2022: 30 years: +40 %: 480 mins: Winter	44.220	42.687	42.898	0.211	4.3	0.374	0.000	4.3	61.788	OK
SW060	FEH 2022: 30 years: +40 %: 480 mins: Winter	44.400	42.237	42.899	0.661	8.2	0.748	0.000	8.0	116.540	Surcharged
SW200	FEH 2022: 30 years: +40 %: 15 mins: Summer	44.700	43.650	43.702	0.052	4.8	0.008	0.000	4.7	2.087	OK
SW201	FEH 2022: 30 years: +40 %: 15 mins: Summer	44.680	43.481	43.530	0.049	4.7	0.008	0.000	4.6	2.084	OK
SW202	FEH 2022: 30 years: +40 %: 15 mins: Winter	44.610	43.273	43.361	0.088	10.1	0.014	0.000	9.8	4.750	OK
SW203	FEH 2022: 30 years: +40 %: 15 mins: Winter	44.600	43.175	43.276	0.101	12.1	0.016	0.000	11.6	7.399	OK
SW700	FEH 2022: 30 years: +40 %: 30 mins: Winter	44.350	43.500	43.530	0.030	1.8	0.005	0.000	1.8	3.159	OK
SW702	FEH 2022: 30 years: +40 %: 30 mins: Winter	44.460	43.399	43.465	0.066	6.8	0.010	0.000	6.8	10.861	OK
SW703	FEH 2022: 30 years: +40 %: 30 mins: Winter	44.480	43.319	43.382	0.063	6.8	0.010	0.000	6.8	10.834	OK
SW704	FEH 2022: 30 years: +40 %: 30 mins: Winter	44.470	43.158	43.217	0.059	9.0	0.009	0.000	9.0	14.029	OK
SW705	FEH 2022: 30 years: +40 %: 15 mins: Winter	44.000	42.782	42.861	0.079	13.2	0.013	0.000	12.9	10.060	OK
SW706	FEH 2022: 30 years: +40 %: 15 mins: Winter	43.970	42.586	42.704	0.118	24.2	0.019	0.000	23.5	16.616	OK
SW707	FEH 2022: 30 years: +40 %: 30 mins: Summer	43.980	42.750	42.795	0.045	3.1	0.007	0.000	3.0	4.953	OK
SW708	FEH 2022: 30 years: +40 %: 15 mins: Winter	43.960	42.694	42.763	0.069	7.2	0.011	0.000	7.0	4.833	OK
SW709	FEH 2022: 30 years: +40 %: 15 mins: Summer	43.850	42.512	42.597	0.085	12.1	0.151	0.000	11.0	7.734	OK

Project: UoM Residences DBFO Site Wide Proposed Surface Water Calculations	Date: 29/04/2026			
	Designed by: Nour Rashdan	Checked by: Johnny Hunt	Approved By: Pedro Vicente	
Report Details: Type: Junctions Summary Storm Phase: Full Site	Company Address: 20 Market Street Altrincham WA14 1PF			

SW1100	FEH 2022: 30 years: +40 %: 15 mins: Summer	44.350	43.300	43.331	0.031	1.8	0.005	0.000	1.8	0.796	OK
SW1101	FEH 2022: 30 years: +40 %: 15 mins: Summer	44.490	43.125	43.165	0.040	3.2	0.006	0.000	3.1	1.393	OK
SW1103	FEH 2022: 30 years: +40 %: 30 mins: Winter	44.350	42.886	42.955	0.069	7.3	0.011	0.000	7.3	11.220	OK
SW1104	FEH 2022: 30 years: +40 %: 15 mins: Summer	44.350	42.783	42.880	0.097	14.1	0.015	0.000	13.4	8.972	OK
SW1109	FEH 2022: 30 years: +40 %: 15 mins: Winter	44.470	43.054	43.114	0.061	6.7	0.010	0.000	6.4	4.903	OK
SW1105	FEH 2022: 30 years: +40 %: 1440 mins: Winter	44.350	41.260	42.410	1.150	2.3	1.300	0.000	2.3	79.200	Surcharged
SW1106	FEH 2022: 30 years: +40 %: 30 mins: Winter	44.350	43.300	43.331	0.031	1.8	0.005	0.000	1.8	3.159	OK
SW1107	FEH 2022: 30 years: +40 %: 30 mins: Winter	44.350	43.219	43.261	0.041	3.1	0.007	0.000	3.1	5.518	OK
SW1108	FEH 2022: 30 years: +40 %: 15 mins: Winter	44.460	43.120	43.176	0.057	5.1	0.009	0.000	5.0	4.172	OK
SW1800	FEH 2022: 30 years: +40 %: 15 mins: Winter	42.900	41.386	41.437	0.051	5.8	0.015	0.000	5.7	3.755	OK
SW1802	FEH 2022: 30 years: +40 %: 15 mins: Winter	42.900	41.257	41.315	0.058	7.4	0.017	0.000	7.3	5.701	OK
SW1803	FEH 2022: 30 years: +40 %: 15 mins: Winter	43.000	41.188	41.244	0.056	7.3	0.016	0.000	7.1	5.669	OK
SW1804	FEH 2022: 30 years: +40 %: 15 mins: Winter	43.050	41.070	41.152	0.082	15.3	0.023	0.000	14.9	10.876	OK
SW1805	FEH 2022: 30 years: +40 %: 15 mins: Winter	43.200	40.858	40.947	0.089	16.8	0.025	0.000	16.3	11.717	OK
SW1304	FEH 2022: 30 years: +40 %: 15 mins: Winter	42.550	41.260	41.293	0.033	3.0	0.005	0.000	2.9	1.442	OK
SW1806	FEH 2022: 30 years: +40 %: 15 mins: Summer	43.100	40.985	41.019	0.035	2.4	0.006	0.000	2.3	1.030	OK
SW1807	FEH 2022: 30 years: +40 %: 15 mins: Summer	42.950	40.776	40.832	0.056	5.0	0.009	0.000	4.9	2.196	OK
SW1808	FEH 2022: 30 years: +40 %: 15 mins: Summer	42.950	40.709	40.768	0.059	4.9	0.009	0.000	4.7	2.193	OK
SW1809	FEH 2022: 30 years: +40 %: 15 mins: Summer	42.950	40.678	40.737	0.059	6.1	0.009	0.000	5.9	3.695	OK
SW1810	FEH 2022: 30 years: +40 %: 15 mins: Summer	42.740	40.424	40.511	0.087	17.3	0.098	0.000	16.9	10.344	OK
SW1900	FEH 2022: 30 years: +40 %: 15 mins: Winter	42.150	41.000	41.048	0.048	3.7	0.008	0.000	3.6	2.454	OK
SW1901	FEH 2022: 30 years: +40 %: 15 mins: Winter	42.300	40.937	40.991	0.054	5.2	0.009	0.000	5.1	4.240	OK
SW1902	FEH 2022: 30 years: +40 %: 15 mins: Winter	42.200	40.730	40.769	0.039	5.1	0.006	0.000	5.0	4.214	OK
SW1300	FEH 2022: 30 years: +40 %: 15 mins: Summer	41.500	40.450	40.450	0.000	0.0	0.000	0.000	0.0	0.000	OK
SW1302	FEH 2022: 30 years: +40 %: 15 mins: Winter	42.050	40.186	40.251	0.065	7.6	0.010	0.000	7.4	6.712	OK

Project: UoM Residences DBFO Site Wide Proposed Surface Water Caculations		Date: 29/04/2026			
		Designed by: Nour Rashdan	Checked by: Johnny Hunt	Approved By: Pedro Vicente	
Report Details: Type: Junctions Summary Storm Phase: Full Site		Company Address: 20 Market Street Altrincham WA14 1PF			

SW1303	FEH 2022: 30 years: +40 %: 15 mins: Winter	42.530	39.947	40.021	0.074	9.1	0.012	0.000	8.7	7.424	OK
SW1305	FEH 2022: 30 years: +40 %: 15 mins: Winter	42.600	40.804	40.841	0.037	5.3	0.010	0.000	5.2	4.125	OK
SW1401	FEH 2022: 30 years: +40 %: 15 mins: Summer	41.500	40.450	40.496	0.046	4.0	0.007	0.000	3.9	1.713	OK
SW1402	FEH 2022: 30 years: +40 %: 15 mins: Summer	41.350	40.211	40.261	0.049	3.9	0.008	0.000	3.7	1.710	OK
SW1403	FEH 2022: 30 years: +40 %: 15 mins: Summer	41.350	40.157	40.222	0.065	8.0	0.010	0.000	7.8	3.569	OK
SW1404	FEH 2022: 30 years: +40 %: 15 mins: Summer	41.480	39.880	39.982	0.102	13.9	0.016	0.000	13.4	6.192	OK
SW1500	FEH 2022: 30 years: +40 %: 30 mins: Winter	41.480	40.430	40.474	0.044	3.5	0.007	0.000	3.4	6.179	OK
SW1501	FEH 2022: 30 years: +40 %: 30 mins: Winter	41.480	40.326	40.376	0.050	4.5	0.008	0.000	4.4	7.134	OK
SW1200	FEH 2022: 30 years: +40 %: 15 mins: Summer	42.100	40.870	40.932	0.062	14.3	0.010	0.000	14.2	6.199	OK
SW1202	FEH 2022: 30 years: +40 %: 15 mins: Summer	41.400	40.311	40.429	0.118	16.3	0.019	0.000	15.5	8.744	OK
SW1203	FEH 2022: 30 years: +40 %: 15 mins: Summer	41.270	40.063	40.163	0.100	16.9	0.028	0.000	16.7	10.323	OK
SW1206	FEH 2022: 30 years: +40 %: 15 mins: Winter	41.000	39.776	39.883	0.107	20.2	0.030	0.000	19.7	15.801	OK
SW1204	FEH 2022: 30 years: +40 %: 15 mins: Summer	41.250	39.997	40.094	0.097	17.1	0.028	0.000	16.7	10.451	OK
SW1205	FEH 2022: 30 years: +40 %: 15 mins: Summer	41.150	39.896	39.997	0.101	18.5	0.028	0.000	18.0	12.411	OK
SW1207	FEH 2022: 30 years: +40 %: 15 mins: Winter	41.040	39.700	39.797	0.097	20.1	0.027	0.000	19.6	15.904	OK
SW1208	FEH 2022: 30 years: +40 %: 30 mins: Winter	41.200	39.446	39.514	0.068	21.8	0.019	0.000	21.7	31.016	OK
SW1209	FEH 2022: 30 years: +40 %: 15 mins: Winter	39.950	39.041	39.193	0.152	40.9	0.172	0.000	37.2	29.260	OK
SW1704	FEH 2022: 30 years: +40 %: 15 mins: Winter	40.020	38.675	38.878	0.203	50.4	0.230	0.000	45.5	38.553	OK
SW1400	FEH 2022: 30 years: +40 %: 30 mins: Winter	41.300	39.840	39.872	0.032	2.7	0.005	0.000	2.7	4.849	OK
SW1606	FEH 2022: 30 years: +40 %: 30 mins: Winter	40.000	39.169	39.210	0.041	3.4	0.012	0.000	3.4	6.088	OK
SW1700	FEH 2022: 30 years: +40 %: 15 mins: Winter	40.100	39.200	39.237	0.037	2.6	0.006	0.000	2.6	1.200	OK
SW1701	FEH 2022: 30 years: +40 %: 15 mins: Winter	40.150	39.149	39.219	0.070	7.5	0.011	0.000	7.3	5.445	OK
SW1702	FEH 2022: 30 years: +40 %: 15 mins: Winter	40.150	38.973	39.054	0.081	8.9	0.013	0.000	8.6	7.269	OK
SW1703	FEH 2022: 30 years: +40 %: 15 mins: Winter	40.100	38.885	38.996	0.111	13.6	0.018	0.000	13.2	9.529	OK
SW2200	FEH 2022: 30 years: +40 %: 15 mins: Winter	40.460	39.167	39.202	0.035	2.5	0.006	0.000	2.4	1.146	OK

Project: UoM Residences DBFO Site Wide Proposed Surface Water Calculations	Date: 29/04/2026			 Kennedy Redford
	Designed by: Nour Rashdan	Checked by: Johnny Hunt	Approved By: Pedro Vicente	
Report Details: Type: Junctions Summary Storm Phase: Full Site	Company Address: 20 Market Street Altrincham WA14 1PF			

SW2300	FEH 2022: 30 years: +40 %: 30 mins: Winter	40.350	39.300	39.344	0.044	3.4	0.007	0.000	3.4	6.092	OK
SW2201	FEH 2022: 30 years: +40 %: 30 mins: Winter	40.460	39.104	39.192	0.088	10.8	0.099	0.000	10.5	16.428	OK
SW2202	FEH 2022: 30 years: +40 %: 30 mins: Winter	40.470	38.868	38.961	0.093	14.4	0.026	0.000	14.3	21.675	OK
SW2203	FEH 2022: 30 years: +40 %: 15 mins: Winter	40.400	38.781	38.928	0.147	29.8	0.042	0.000	28.8	20.386	OK
SW2204	FEH 2022: 30 years: +40 %: 240 mins: Winter	40.700	38.586	38.834	0.248	15.0	0.281	0.000	15.1	95.888	OK
SW1903	FEH 2022: 30 years: +40 %: 15 mins: Winter	42.150	41.000	41.052	0.052	4.6	0.008	0.000	4.5	3.784	OK
SW1904	FEH 2022: 30 years: +40 %: 30 mins: Winter	42.150	40.846	40.899	0.053	6.4	0.008	0.000	6.4	10.181	OK
SW1600	FEH 2022: 30 years: +40 %: 30 mins: Winter	39.850	39.100	39.139	0.039	2.4	0.006	0.000	2.4	3.973	OK
SW1601	FEH 2022: 30 years: +40 %: 30 mins: Winter	40.000	38.995	39.051	0.056	4.3	0.009	0.000	4.3	7.313	OK
SW1602	FEH 2022: 30 years: +40 %: 30 mins: Winter	39.850	38.940	38.997	0.057	4.3	0.009	0.000	4.2	7.286	OK
SW1604	FEH 2022: 30 years: +40 %: 30 mins: Winter	40.000	38.811	38.866	0.055	4.8	0.009	0.000	4.7	7.782	OK
SW1605	FEH 2022: 30 years: +40 %: 240 mins: Winter	40.000	38.683	38.833	0.150	3.8	0.024	0.000	3.8	26.086	Surcharged
SW2301	FEH 2022: 30 years: +40 %: 30 mins: Winter	40.000	38.950	38.983	0.033	2.0	0.005	0.000	2.0	3.572	OK
SW1000	FEH 2022: 30 years: +40 %: 15 mins: Winter	44.470	43.120	43.189	0.069	7.6	0.011	0.000	7.5	6.587	OK
SW1001	FEH 2022: 30 years: +40 %: 15 mins: Winter	44.470	43.009	43.077	0.067	8.2	0.076	0.000	7.9	6.929	OK
SW1002	FEH 2022: 30 years: +40 %: 30 mins: Winter	44.460	42.780	42.876	0.095	14.4	0.015	0.000	13.8	23.304	OK
SW1003	FEH 2022: 30 years: +40 %: 30 mins: Winter	44.080	41.025	41.734	0.709	40.5	0.802	0.000	38.5	57.876	Surcharged
SW1005	FEH 2022: 30 years: +40 %: 15 mins: Winter	43.300	40.797	41.555	0.758	55.8	0.214	0.000	51.5	48.184	Surcharged
SW2407	FEH 2022: 30 years: +40 %: 15 mins: Winter	41.700	40.487	41.230	0.743	61.6	0.210	0.000	63.9	57.057	Surcharged
SW156	FEH 2022: 30 years: +40 %: 15 mins: Winter	41.650	40.046	40.469	0.423	101.9	0.478	0.000	102.9	90.971	Surcharged
SW2402	FEH 2022: 30 years: +40 %: 30 mins: Winter	41.550	39.691	39.870	0.179	107.4	0.203	0.000	107.3	146.888	OK
SW2404	FEH 2022: 30 years: +40 %: 30 mins: Winter	41.210	38.981	39.258	0.277	113.2	0.314	0.000	112.7	155.159	OK
SW2700	FEH 2022: 30 years: +40 %: 15 mins: Winter	40.650	38.881	39.154	0.274	115.7	0.392	0.000	118.1	104.582	OK
SW2701	FEH 2022: 30 years: +40 %: 15 mins: Winter	40.450	38.664	39.018	0.354	128.2	0.400	0.000	130.1	115.707	OK
SW2704	FEH 2022: 30 years: +40 %: 120 mins: Winter	40.250	38.437	38.774	0.337	92.9	0.482	0.000	93.2	335.909	OK

Project: UoM Residences DBFO Site Wide Proposed Surface Water Caculations		Date: 29/04/2026			
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SW2705	FEH 2022: 30 years: +40 %: 120 mins: Winter	40.320	38.222	38.753	0.531	97.1	0.601	0.000	95.6	349.269	Surcharged
SW163	FEH 2022: 30 years: +40 %: 120 mins: Winter	40.200	37.999	38.736	0.737	109.6	1.055	0.000	108.6	398.947	Surcharged
SW1006	FEH 2022: 30 years: +40 %: 15 mins: Winter	44.480	43.130	43.232	0.102	15.5	0.029	0.000	14.8	10.271	OK
SW1007	FEH 2022: 30 years: +40 %: 15 mins: Summer	44.470	42.764	42.886	0.122	25.2	0.035	0.000	24.9	14.406	OK
SW1008	FEH 2022: 30 years: +40 %: 15 mins: Winter	44.380	42.658	42.771	0.113	24.9	0.032	0.000	23.6	14.922	OK
SW2405	FEH 2022: 30 years: +40 %: 15 mins: Winter	41.620	40.790	41.268	0.478	11.1	0.076	0.000	6.4	5.164	Surcharged
SW2406	FEH 2022: 30 years: +40 %: 15 mins: Winter	41.640	40.680	41.258	0.578	9.2	0.092	0.000	8.5	6.386	Surcharged
SW1906	FEH 2022: 30 years: +40 %: 15 mins: Summer	42.050	40.718	40.799	0.081	9.6	0.013	0.000	9.4	4.138	OK
SW2102	FEH 2022: 30 years: +40 %: 15 mins: Summer	42.270	40.776	40.886	0.110	14.5	0.017	0.000	14.0	8.443	OK
SW2104	FEH 2022: 30 years: +40 %: 15 mins: Winter	42.250	40.482	40.665	0.183	28.4	0.052	0.000	26.2	17.952	OK
SW2106	FEH 2022: 30 years: +40 %: 15 mins: Winter	42.280	40.355	40.634	0.279	27.9	0.079	0.000	25.0	22.722	Surcharged
SW2107	FEH 2022: 30 years: +40 %: 15 mins: Winter	42.270	40.249	40.589	0.340	28.7	0.096	0.000	28.5	24.687	Surcharged
SW2105	FEH 2022: 30 years: +40 %: 15 mins: Winter	42.250	40.422	40.655	0.233	30.6	0.264	0.000	25.2	21.709	Surcharged
SW2108	FEH 2022: 30 years: +40 %: 15 mins: Winter	42.180	40.181	40.551	0.370	31.3	0.105	0.000	30.1	26.012	Surcharged
SW2109	FEH 2022: 30 years: +40 %: 15 mins: Winter	42.280	40.500	40.551	0.051	0.0	0.008	0.000	1.0	0.129	OK
SW2400	FEH 2022: 30 years: +40 %: 15 mins: Winter	41.690	40.340	40.377	0.037	2.7	0.006	0.000	2.6	1.246	OK
SW2403	FEH 2022: 30 years: +40 %: 30 mins: Winter	41.570	39.360	39.550	0.190	110.7	0.054	0.000	110.6	152.906	OK
SW2401	FEH 2022: 30 years: +40 %: 15 mins: Winter	41.650	40.066	40.115	0.049	4.7	0.008	0.000	4.4	2.186	OK
SW2500	FEH 2022: 30 years: +40 %: 30 mins: Winter	41.570	40.620	40.652	0.032	2.0	0.005	0.000	2.0	3.581	OK
SW2501	FEH 2022: 30 years: +40 %: 30 mins: Winter	41.570	40.462	40.510	0.048	3.9	0.008	0.000	3.8	6.925	OK
SW2502	FEH 2022: 30 years: +40 %: 30 mins: Winter	41.620	40.388	40.434	0.046	3.8	0.007	0.000	3.8	6.900	OK
SW2503	FEH 2022: 30 years: +40 %: 30 mins: Winter	41.640	40.196	40.248	0.052	6.4	0.008	0.000	6.3	11.208	OK
SW2504	FEH 2022: 30 years: +40 %: 30 mins: Winter	41.150	40.019	40.072	0.053	6.3	0.008	0.000	6.3	11.178	OK
SW2505	FEH 2022: 30 years: +40 %: 30 mins: Winter	41.110	39.926	39.972	0.046	8.3	0.007	0.000	8.2	14.725	OK
SW2506	FEH 2022: 30 years: +40 %: 30 mins: Winter	41.550	40.150	40.180	0.030	2.0	0.005	0.000	2.0	3.583	OK

Project: UoM Residences DBFO Site Wide Proposed Surface Water Calculations	Date: 29/04/2026			
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SW2706	FEH 2022: 30 years: +40 %: 15 mins: Winter	40.780	39.730	39.781	0.051	6.6	0.008	0.000	6.4	4.129	OK
SW2900	FEH 2022: 30 years: +40 %: 15 mins: Winter	40.530	39.480	39.530	0.050	4.6	0.008	0.000	4.5	3.219	OK
SW2901	FEH 2022: 30 years: +40 %: 15 mins: Winter	40.380	39.336	39.400	0.063	7.4	0.010	0.000	7.1	6.493	OK
SW2902	FEH 2022: 30 years: +40 %: 15 mins: Winter	40.500	39.119	39.209	0.091	11.9	0.014	0.000	11.5	9.737	OK
SW2904	FEH 2022: 30 years: +40 %: 15 mins: Winter	40.230	38.949	39.024	0.075	18.1	0.012	0.000	17.8	12.761	OK
SW196	FEH 2022: 30 years: +40 %: 15 mins: Winter	40.290	38.940	39.028	0.088	11.4	0.014	0.000	11.2	6.437	OK
SW2800	FEH 2022: 30 years: +40 %: 15 mins: Winter	40.300	39.250	39.263	0.013	0.4	0.002	0.000	0.3	0.181	OK
SW2801	FEH 2022: 30 years: +40 %: 30 mins: Winter	40.320	39.101	39.139	0.038	2.3	0.006	0.000	2.3	3.844	OK
SW2803	FEH 2022: 30 years: +40 %: 30 mins: Winter	40.280	39.020	39.056	0.036	2.6	0.006	0.000	2.5	4.136	OK
SW2802	FEH 2022: 30 years: +40 %: 30 mins: Winter	40.300	39.065	39.104	0.039	2.6	0.006	0.000	2.6	4.156	OK
SW2804	FEH 2022: 30 years: +40 %: 120 mins: Winter	40.280	38.649	38.725	0.076	1.9	0.012	0.000	1.9	7.607	OK
SW2805	FEH 2022: 30 years: +40 %: 120 mins: Winter	40.360	38.570	38.725	0.155	2.1	0.025	0.000	2.1	8.632	Surcharged
SW2806	FEH 2022: 30 years: +40 %: 120 mins: Winter	40.250	38.324	38.723	0.399	3.7	0.064	0.000	3.5	14.903	Surcharged
SW2807	FEH 2022: 30 years: +40 %: 120 mins: Winter	40.150	38.240	38.722	0.482	3.7	0.077	0.000	3.4	15.845	Surcharged
SW309	FEH 2022: 30 years: +40 %: 480 mins: Winter	44.650	42.502	42.898	0.396	4.6	0.112	0.000	4.6	54.870	Surcharged
SW306	FEH 2022: 30 years: +40 %: 15 mins: Winter	44.650	42.849	42.931	0.082	10.5	0.013	0.000	10.1	8.208	OK
SW310	FEH 2022: 30 years: +40 %: 480 mins: Winter	44.650	42.477	42.898	0.421	5.4	0.119	0.000	5.4	64.503	Surcharged
SW502	FEH 2022: 30 years: +40 %: 15 mins: Winter	44.650	43.157	43.279	0.122	15.5	0.019	0.000	15.1	9.113	OK
SW009a	FEH 2022: 30 years: +40 %: 1440 mins: Winter	44.460	41.631	42.426	0.795	7.0	0.126	0.000	7.0	706.274	Surcharged
SW009b	FEH 2022: 30 years: +40 %: 1440 mins: Winter	44.350	41.535	42.421	0.886	7.3	0.251	0.000	7.2	714.573	Surcharged
SW011	FEH 2022: 30 years: +40 %: 1440 mins: Winter	43.670	41.246	42.413	1.167	11.2	1.320	0.000	11.2	855.736	Surcharged
SW900	FEH 2022: 30 years: +40 %: 30 mins: Winter	44.350	43.350	43.388	0.038	2.9	0.006	0.000	2.9	5.233	OK
SW901	FEH 2022: 30 years: +40 %: 15 mins: Winter	44.350	43.273	43.363	0.090	11.9	0.014	0.000	11.6	8.556	OK
SW902	FEH 2022: 30 years: +40 %: 15 mins: Winter	44.300	43.084	43.188	0.104	19.3	0.029	0.000	19.1	12.478	OK
SW1102	FEH 2022: 30 years: +40 %: 15 mins: Winter	44.350	42.966	43.025	0.059	5.6	0.009	0.000	5.4	4.352	OK

Project: UoM Residences DBFO Site Wide Proposed Surface Water Calculations	Date: 29/04/2026			
	Designed by: Nour Rashdan	Checked by: Johnny Hunt	Approved By: Pedro Vicente	
Report Details: Type: Junctions Summary Storm Phase: Full Site	Company Address: 20 Market Street Altrincham WA14 1PF			

SW600	FEH 2022: 30 years: +40 %: 15 mins: Winter	44.700	43.770	43.840	0.070	8.0	0.011	0.000	7.9	3.691	OK
SW602	FEH 2022: 30 years: +40 %: 15 mins: Winter	44.620	43.640	43.728	0.088	5.9	0.014	0.000	5.6	2.723	OK
SW601	FEH 2022: 30 years: +40 %: 15 mins: Winter	44.610	43.613	43.723	0.110	13.5	0.031	0.000	13.0	6.410	OK
SW607	FEH 2022: 30 years: +40 %: 15 mins: Winter	44.650	43.150	43.272	0.121	22.1	0.034	0.000	21.6	15.640	OK
SW610	FEH 2022: 30 years: +40 %: 15 mins: Winter	44.700	43.190	43.231	0.041	2.8	0.007	0.000	2.7	1.302	OK
SW701	FEH 2022: 30 years: +40 %: 30 mins: Winter	44.350	43.428	43.493	0.064	5.3	0.010	0.000	5.2	9.384	OK
SW2101	FEH 2022: 30 years: +40 %: 15 mins: Summer	42.270	40.828	40.891	0.063	4.8	0.010	0.000	4.5	3.072	OK
SW2100	FEH 2022: 30 years: +40 %: 15 mins: Summer	42.270	40.920	40.965	0.045	3.4	0.007	0.000	3.4	1.466	OK
SW1801	FEH 2022: 30 years: +40 %: 15 mins: Winter	42.900	41.305	41.365	0.061	7.5	0.017	0.000	7.4	5.733	OK
SW2103	FEH 2022: 30 years: +40 %: 15 mins: Summer	42.250	40.550	40.690	0.140	26.4	0.039	0.000	26.1	13.849	OK
SW1905	FEH 2022: 30 years: +40 %: 30 mins: Winter	41.750	38.876	38.918	0.042	6.4	0.048	0.000	6.3	10.153	OK
SW1201	FEH 2022: 30 years: +40 %: 15 mins: Summer	41.600	40.401	40.521	0.120	16.3	0.019	0.000	15.9	8.543	OK
SW1301	FEH 2022: 30 years: +40 %: 30 mins: Winter	41.350	40.235	40.279	0.044	3.1	0.007	0.000	3.1	5.185	OK
SW1307	FEH 2022: 30 years: +40 %: 30 mins: Winter	42.550	40.495	40.595	0.100	28.0	0.028	0.000	27.9	50.910	OK
SW101	FEH 2022: 30 years: +40 %: 30 mins: Winter	44.550	43.361	43.399	0.038	2.7	0.006	0.000	2.7	4.805	OK
SW1603	FEH 2022: 30 years: +40 %: 30 mins: Winter	40.000	38.899	38.953	0.055	4.2	0.009	0.000	4.2	7.260	OK
SW018a	FEH 2022: 30 years: +40 %: 15 mins: Winter	40.010	38.584	38.840	0.256	5.8	0.290	0.000	1.2	1.885	OK
SW20a	FEH 2022: 30 years: +40 %: 240 mins: Winter	40.000	38.281	38.831	0.550	15.7	0.622	0.000	8.0	154.969	Surcharged
SW60a	FEH 2022: 30 years: +40 %: 480 mins: Winter	44.500	42.373	42.898	0.525	4.5	0.149	0.000	4.4	64.603	Surcharged
SW156a	FEH 2022: 30 years: +40 %: 15 mins: Winter	41.670	40.339	41.000	0.661	67.4	0.187	0.000	69.3	61.214	Surcharged
SW2702	FEH 2022: 30 years: +40 %: 15 mins: Winter	40.550	38.607	38.945	0.337	130.1	0.381	0.000	131.0	115.316	OK
SW2703	FEH 2022: 30 years: +40 %: 15 mins: Winter	40.560	38.526	38.854	0.327	131.0	0.370	0.000	132.0	114.850	OK
SW2903	FEH 2022: 30 years: +40 %: 15 mins: Winter	40.350	39.001	39.096	0.095	12.5	0.015	0.000	12.3	10.132	OK
SW2905	FEH 2022: 30 years: +40 %: 30 mins: Winter	40.380	39.330	39.375	0.045	3.4	0.007	0.000	3.4	6.090	OK
SW510	FEH 2022: 30 years: +40 %: 15 mins: Winter	44.770	43.280	43.347	0.066	7.1	0.011	0.000	7.0	4.888	OK

Project: UoM Residences DBFO Site Wide Proposed Surface Water Caculations		Date: 29/04/2026			
		Designed by: Nour Rashdan	Checked by: Johnny Hunt		Approved By: Pedro Vicente
Report Details: Type: Junctions Summary Storm Phase: Full Site		Company Address: 20 Market Street Altrincham WA14 1PF			

SW1009	FEH 2022: 30 years: +40 %: 30 mins: Winter	43.490	41.290	41.597	0.307	10.0	0.049	0.000	9.8	9.115	Surcharged
SW1004	FEH 2022: 30 years: +40 %: 30 mins: Winter	43.530	40.929	41.660	0.731	45.6	0.207	0.000	43.7	64.313	Surcharged
SW2000	FEH 2022: 30 years: +40 %: 60 mins: Winter	42.260	40.770	40.803	0.033	2.0	0.005	0.000	2.0	5.200	OK
SW2001	FEH 2022: 30 years: +40 %: 15 mins: Winter	42.250	40.572	40.656	0.084	1.4	0.013	0.000	1.3	0.444	OK
SW2002	FEH 2022: 30 years: +40 %: 30 mins: Winter	41.640	39.462	39.495	0.033	2.0	0.005	0.000	2.0	3.587	OK
SW012a	FEH 2022: 30 years: +40 %: 1440 mins: Winter	43.540	41.182	42.410	1.228	7.2	0.347	0.000	6.3	506.588	Surcharged

Project: UoM Residences DBFO Site Wide Proposed Surface Water Calculations	Date: 29/04/2026			
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Report Details: Type: Junctions Summary Storm Phase: Full Site	Company Address: 20 Market Street Altrincham WA14 1PF			



FEH 2022: 100 years: Increase Rainfall (%): +45: 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
SW603	FEH 2022: 100 years: +45 %: 15 mins: Winter	44.630	43.532	43.681	0.149	18.0	0.024	0.000	17.6	10.734	OK
SW604	FEH 2022: 100 years: +45 %: 15 mins: Winter	44.640	43.389	43.508	0.119	22.5	0.034	0.000	22.4	14.655	OK
SW605	FEH 2022: 100 years: +45 %: 960 mins: Winter	44.620	43.259	43.497	0.238	3.1	0.067	0.000	3.1	71.278	Surcharged
SW606	FEH 2022: 100 years: +45 %: 960 mins: Winter	44.640	43.203	43.497	0.294	3.7	0.083	0.000	3.7	84.653	Surcharged
SW608	FEH 2022: 100 years: +45 %: 960 mins: Winter	44.630	43.079	43.497	0.418	4.4	0.118	0.000	4.4	100.599	Surcharged
SW609	FEH 2022: 100 years: +45 %: 960 mins: Winter	44.780	42.937	43.497	0.560	5.2	0.633	0.000	5.2	130.919	Surcharged
SW006	FEH 2022: 100 years: +45 %: 960 mins: Winter	44.670	42.558	43.497	0.939	7.6	1.062	0.000	7.4	219.151	Surcharged
SW007	FEH 2022: 100 years: +45 %: 960 mins: Winter	44.500	42.008	43.496	1.488	13.7	2.630	0.000	9.6	431.824	Surcharged
SW008	FEH 2022: 100 years: +45 %: 960 mins: Winter	44.400	41.800	43.496	1.696	15.7	2.997	0.000	6.7	765.918	Surcharged
SW009	FEH 2022: 100 years: +45 %: 1440 mins: Winter	44.250	41.433	43.062	1.629	7.3	0.461	0.000	7.2	893.809	Surcharged
SW010	FEH 2022: 100 years: +45 %: 1440 mins: Winter	44.390	41.407	43.061	1.654	7.2	0.468	0.000	7.2	892.926	Surcharged
SW011a	FEH 2022: 100 years: +45 %: 1440 mins: Winter	44.380	41.360	43.060	1.700	10.5	1.923	0.000	10.5	1012.384	Surcharged
SW012	FEH 2022: 100 years: +45 %: 1440 mins: Winter	43.260	41.115	43.053	1.938	15.8	3.424	0.000	7.3	1327.726	Flood Risk
SW013	FEH 2022: 100 years: +45 %: 1440 mins: Winter	43.170	41.011	43.038	2.028	7.3	2.293	0.000	7.3	1069.707	Flood Risk
SW1306	FEH 2022: 100 years: +45 %: 15 mins: Winter	42.620	40.694	40.836	0.142	34.8	0.161	0.000	33.4	30.708	OK
SW1308	FEH 2022: 100 years: +45 %: 15 mins: Winter	41.950	40.266	40.590	0.325	63.1	0.367	0.000	61.8	53.721	Surcharged
SW1405	FEH 2022: 100 years: +45 %: 240 mins: Winter	41.600	38.965	39.470	0.505	40.4	0.571	0.000	40.4	373.625	Surcharged
SW017	FEH 2022: 100 years: +45 %: 240 mins: Winter	41.530	38.747	39.465	0.718	43.2	0.813	0.000	43.4	392.356	Surcharged
SW018	FEH 2022: 100 years: +45 %: 240 mins: Winter	40.980	38.351	39.460	1.109	73.9	1.960	0.000	68.1	742.630	Surcharged
SW019	FEH 2022: 100 years: +45 %: 240 mins: Winter	40.680	38.310	39.459	1.149	89.2	2.030	0.000	53.3	946.124	Surcharged
SW020	FEH 2022: 100 years: +45 %: 240 mins: Winter	40.000	38.241	39.457	1.216	57.5	6.961	0.000	57.9	906.267	Surcharged

Project: UoM Residences DBFO Site Wide Proposed Surface Water Calculations	Date: 29/04/2026			
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SW021	FEH 2022: 100 years: +45 %: 240 mins: Winter	39.900	38.170	39.278	1.108	58.1	1.586	0.000	58.4	826.684	Surcharged
SW022	FEH 2022: 100 years: +45 %: 240 mins: Winter	40.000	38.141	39.278	1.137	58.4	1.627	0.000	58.7	838.032	Surcharged
SW023	FEH 2022: 100 years: +45 %: 240 mins: Winter	40.000	38.063	39.278	1.215	58.7	1.739	0.000	58.9	836.060	Surcharged
SW024	FEH 2022: 100 years: +45 %: 240 mins: Winter	40.000	38.017	39.278	1.261	58.9	1.804	0.000	59.0	850.237	Surcharged
SW025	FEH 2022: 100 years: +45 %: 240 mins: Winter	39.800	37.956	39.278	1.322	59.0	1.891	0.000	59.2	854.515	Surcharged
SW026	FEH 2022: 100 years: +45 %: 240 mins: Winter	40.100	37.913	39.277	1.364	128.3	1.952	0.000	127.9	1456.536	Surcharged
SW027	FEH 2022: 100 years: +45 %: 240 mins: Winter	40.130	37.851	39.267	1.416	131.0	2.503	0.000	130.6	1447.807	Surcharged
SW028	FEH 2022: 100 years: +45 %: 240 mins: Winter	39.600	37.824	39.257	1.433	69.7	8.206	0.000	63.0	1319.159	Surcharged
SW029	FEH 2022: 100 years: +45 %: 960 mins: Winter	39.580	37.640	37.806	0.166	63.0	0.000	0.000	63.0	2712.933	OK
SW611	FEH 2022: 100 years: +45 %: 960 mins: Winter	44.780	43.120	43.497	0.377	0.9	0.060	0.000	0.9	30.348	Surcharged
SW031	FEH 2022: 100 years: +45 %: 960 mins: Winter	44.490	43.070	43.498	0.428	1.4	0.484	0.000	1.4	46.778	Surcharged
SW032	FEH 2022: 100 years: +45 %: 960 mins: Winter	44.480	42.813	43.498	0.685	2.5	0.775	0.000	2.4	88.329	Surcharged
SW500	FEH 2022: 100 years: +45 %: 15 mins: Winter	44.770	43.420	43.542	0.122	17.6	0.019	0.000	16.9	8.143	OK
SW501	FEH 2022: 100 years: +45 %: 960 mins: Winter	44.650	43.256	43.497	0.241	1.9	0.038	0.000	1.9	44.659	Surcharged
SW503	FEH 2022: 100 years: +45 %: 960 mins: Winter	44.780	43.109	43.497	0.388	2.3	0.062	0.000	2.3	53.102	Surcharged
SW504	FEH 2022: 100 years: +45 %: 960 mins: Winter	44.790	43.050	43.497	0.447	2.3	0.071	0.000	2.3	53.110	Surcharged
SW505	FEH 2022: 100 years: +45 %: 960 mins: Winter	44.800	42.871	43.496	0.626	3.0	0.099	0.000	3.0	68.896	Surcharged
SW506	FEH 2022: 100 years: +45 %: 960 mins: Winter	44.640	42.755	43.497	0.742	3.0	0.118	0.000	3.0	68.863	Surcharged
SW507	FEH 2022: 100 years: +45 %: 960 mins: Winter	44.550	42.461	43.496	1.035	5.2	0.293	0.000	5.1	120.884	Surcharged
SW509	FEH 2022: 100 years: +45 %: 960 mins: Winter	44.790	43.331	43.497	0.166	1.2	0.026	0.000	1.2	27.760	Surcharged
SW511	FEH 2022: 100 years: +45 %: 960 mins: Winter	44.750	43.182	43.497	0.314	2.2	0.050	0.000	2.3	52.111	Surcharged
SW300	FEH 2022: 100 years: +45 %: 960 mins: Winter	44.380	42.925	43.496	0.571	2.3	0.162	0.000	2.3	53.629	Surcharged
SW301	FEH 2022: 100 years: +45 %: 960 mins: Winter	44.500	42.826	43.496	0.670	3.3	0.190	0.000	3.3	78.087	Surcharged
SW508	FEH 2022: 100 years: +45 %: 960 mins: Winter	44.790	43.440	43.497	0.057	0.3	0.009	0.000	0.3	5.772	OK
SW302	FEH 2022: 100 years: +45 %: 960 mins: Winter	44.740	42.699	43.496	0.797	3.3	0.226	0.000	3.3	78.091	Surcharged

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SW303	FEH 2022: 100 years: +45 %: 960 mins: Winter	44.650	42.432	43.496	1.064	3.5	0.301	0.000	3.4	87.569	Surcharged
SW304	FEH 2022: 100 years: +45 %: 960 mins: Winter	44.550	42.202	43.496	1.294	7.9	0.366	0.000	7.8	199.160	Surcharged
SW305	FEH 2022: 100 years: +45 %: 960 mins: Winter	44.450	43.100	43.496	0.396	0.6	0.063	0.000	0.6	13.172	Surcharged
SW307	FEH 2022: 100 years: +45 %: 960 mins: Winter	44.650	42.643	43.496	0.853	2.6	0.241	0.000	2.6	61.019	Surcharged
SW308	FEH 2022: 100 years: +45 %: 960 mins: Winter	44.780	42.557	43.496	0.939	2.8	0.266	0.000	2.8	65.941	Surcharged
SW311	FEH 2022: 100 years: +45 %: 960 mins: Winter	44.650	42.385	43.496	1.111	4.7	0.314	0.000	4.5	112.734	Surcharged
SW100	FEH 2022: 100 years: +45 %: 960 mins: Winter	44.680	43.425	43.497	0.072	0.9	0.011	0.000	0.9	20.106	OK
SW102	FEH 2022: 100 years: +45 %: 960 mins: Winter	44.550	43.263	43.497	0.233	1.5	0.037	0.000	1.5	33.848	Surcharged
SW103	FEH 2022: 100 years: +45 %: 960 mins: Winter	44.470	43.116	43.497	0.380	2.0	0.060	0.000	2.0	47.496	Surcharged
SW104	FEH 2022: 100 years: +45 %: 960 mins: Winter	44.490	42.938	43.496	0.558	3.9	0.089	0.000	3.9	107.663	Surcharged
SW059	FEH 2022: 100 years: +45 %: 960 mins: Winter	44.220	42.687	43.496	0.809	3.9	1.430	0.000	3.9	107.625	Surcharged
SW060	FEH 2022: 100 years: +45 %: 960 mins: Winter	44.400	42.237	43.496	1.259	7.4	1.424	0.000	7.3	198.198	Surcharged
SW200	FEH 2022: 100 years: +45 %: 15 mins: Summer	44.700	43.650	43.711	0.061	6.3	0.010	0.000	6.2	2.732	OK
SW201	FEH 2022: 100 years: +45 %: 15 mins: Summer	44.680	43.481	43.537	0.056	6.2	0.009	0.000	6.0	2.729	OK
SW202	FEH 2022: 100 years: +45 %: 960 mins: Winter	44.610	43.273	43.495	0.223	1.0	0.035	0.000	1.1	23.766	Surcharged
SW203	FEH 2022: 100 years: +45 %: 960 mins: Winter	44.600	43.175	43.496	0.321	1.9	0.051	0.000	1.9	43.862	Surcharged
SW700	FEH 2022: 100 years: +45 %: 30 mins: Winter	44.350	43.500	43.534	0.034	2.3	0.005	0.000	2.3	4.177	OK
SW702	FEH 2022: 100 years: +45 %: 30 mins: Winter	44.460	43.399	43.477	0.078	9.1	0.012	0.000	9.0	14.377	OK
SW703	FEH 2022: 100 years: +45 %: 30 mins: Winter	44.480	43.319	43.393	0.075	9.0	0.012	0.000	9.0	14.345	OK
SW704	FEH 2022: 100 years: +45 %: 30 mins: Winter	44.470	43.158	43.227	0.069	11.9	0.011	0.000	11.9	18.572	OK
SW705	FEH 2022: 100 years: +45 %: 1440 mins: Winter	44.000	42.782	43.060	0.278	2.2	0.044	0.000	2.2	76.663	Surcharged
SW706	FEH 2022: 100 years: +45 %: 1440 mins: Winter	43.970	42.586	43.060	0.474	3.5	0.075	0.000	3.5	120.803	Surcharged
SW707	FEH 2022: 100 years: +45 %: 1440 mins: Winter	43.980	42.750	43.057	0.307	0.7	0.049	0.000	0.7	23.340	Surcharged
SW708	FEH 2022: 100 years: +45 %: 1440 mins: Winter	43.960	42.694	43.057	0.363	1.0	0.058	0.000	1.0	35.023	Surcharged
SW709	FEH 2022: 100 years: +45 %: 1440 mins: Winter	43.850	42.512	43.056	0.545	2.7	0.962	0.000	1.6	93.326	Surcharged

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SW1100	FEH 2022: 100 years: +45 %: 15 mins: Summer	44.350	43.300	43.335	0.035	2.4	0.006	0.000	2.4	1.039	OK
SW1101	FEH 2022: 100 years: +45 %: 15 mins: Summer	44.490	43.125	43.171	0.046	4.2	0.007	0.000	4.0	1.819	OK
SW1103	FEH 2022: 100 years: +45 %: 1440 mins: Winter	44.350	42.886	43.053	0.167	1.5	0.027	0.000	1.5	51.988	Surcharged
SW1104	FEH 2022: 100 years: +45 %: 1440 mins: Winter	44.350	42.783	43.053	0.270	2.0	0.043	0.000	2.0	69.499	Surcharged
SW1109	FEH 2022: 100 years: +45 %: 15 mins: Winter	44.470	43.054	43.125	0.071	8.8	0.011	0.000	8.4	6.443	OK
SW1105	FEH 2022: 100 years: +45 %: 1440 mins: Winter	44.350	41.260	43.053	1.793	3.1	2.028	0.000	3.0	105.575	Surcharged
SW1106	FEH 2022: 100 years: +45 %: 30 mins: Winter	44.350	43.300	43.336	0.036	2.3	0.006	0.000	2.3	4.177	OK
SW1107	FEH 2022: 100 years: +45 %: 30 mins: Winter	44.350	43.219	43.268	0.049	4.1	0.008	0.000	4.0	7.298	OK
SW1108	FEH 2022: 100 years: +45 %: 15 mins: Winter	44.460	43.120	43.186	0.067	6.7	0.011	0.000	6.6	5.482	OK
SW1800	FEH 2022: 100 years: +45 %: 15 mins: Winter	42.900	41.386	41.446	0.060	7.6	0.017	0.000	7.5	4.914	OK
SW1802	FEH 2022: 100 years: +45 %: 15 mins: Winter	42.900	41.257	41.325	0.068	9.6	0.019	0.000	9.5	7.472	OK
SW1803	FEH 2022: 100 years: +45 %: 15 mins: Winter	43.000	41.188	41.253	0.065	9.5	0.018	0.000	9.3	7.435	OK
SW1804	FEH 2022: 100 years: +45 %: 15 mins: Winter	43.050	41.070	41.166	0.096	20.0	0.027	0.000	19.5	14.260	OK
SW1805	FEH 2022: 100 years: +45 %: 15 mins: Winter	43.200	40.858	40.964	0.106	22.1	0.030	0.000	21.4	15.365	OK
SW1304	FEH 2022: 100 years: +45 %: 15 mins: Winter	42.550	41.260	41.298	0.038	4.0	0.006	0.000	3.8	1.896	OK
SW1806	FEH 2022: 100 years: +45 %: 15 mins: Summer	43.100	40.985	41.024	0.040	3.1	0.006	0.000	3.0	1.348	OK
SW1807	FEH 2022: 100 years: +45 %: 15 mins: Summer	42.950	40.776	40.842	0.066	6.6	0.010	0.000	6.4	2.871	OK
SW1808	FEH 2022: 100 years: +45 %: 15 mins: Summer	42.950	40.709	40.778	0.070	6.4	0.011	0.000	6.3	2.868	OK
SW1809	FEH 2022: 100 years: +45 %: 15 mins: Summer	42.950	40.678	40.746	0.068	8.1	0.011	0.000	8.2	4.824	OK
SW1810	FEH 2022: 100 years: +45 %: 15 mins: Winter	42.740	40.424	40.621	0.197	22.9	0.222	0.000	19.0	14.485	OK
SW1900	FEH 2022: 100 years: +45 %: 15 mins: Winter	42.150	41.000	41.056	0.056	4.9	0.009	0.000	4.8	3.213	OK
SW1901	FEH 2022: 100 years: +45 %: 15 mins: Winter	42.300	40.937	41.000	0.063	6.8	0.010	0.000	6.6	5.552	OK
SW1902	FEH 2022: 100 years: +45 %: 15 mins: Winter	42.200	40.730	40.772	0.042	6.6	0.007	0.000	6.6	5.522	OK
SW1300	FEH 2022: 100 years: +45 %: 15 mins: Summer	41.500	40.450	40.450	0.000	0.0	0.000	0.000	0.0	0.000	OK
SW1302	FEH 2022: 100 years: +45 %: 15 mins: Winter	42.050	40.186	40.263	0.077	10.0	0.012	0.000	9.7	8.799	OK

Project: UoM Residences DBFO Site Wide Proposed Surface Water Caculations		Date: 29/04/2026			
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Report Details: Type: Junctions Summary Storm Phase: Full Site		Company Address: 20 Market Street Altrincham WA14 1PF			

SW1303	FEH 2022: 100 years: +45 %: 15 mins: Winter	42.530	39.947	40.035	0.088	12.0	0.014	0.000	11.4	9.738	OK
SW1305	FEH 2022: 100 years: +45 %: 15 mins: Winter	42.600	40.804	40.846	0.042	6.9	0.012	0.000	6.9	5.410	OK
SW1401	FEH 2022: 100 years: +45 %: 15 mins: Summer	41.500	40.450	40.503	0.053	5.2	0.008	0.000	5.1	2.241	OK
SW1402	FEH 2022: 100 years: +45 %: 15 mins: Summer	41.350	40.211	40.269	0.058	5.1	0.009	0.000	4.9	2.238	OK
SW1403	FEH 2022: 100 years: +45 %: 15 mins: Summer	41.350	40.157	40.233	0.076	10.5	0.012	0.000	10.2	4.676	OK
SW1404	FEH 2022: 100 years: +45 %: 15 mins: Summer	41.480	39.880	40.007	0.127	18.2	0.020	0.000	17.5	8.111	OK
SW1500	FEH 2022: 100 years: +45 %: 30 mins: Winter	41.480	40.430	40.482	0.052	4.6	0.008	0.000	4.6	8.172	OK
SW1501	FEH 2022: 100 years: +45 %: 30 mins: Winter	41.480	40.326	40.384	0.058	6.0	0.009	0.000	5.9	9.433	OK
SW1200	FEH 2022: 100 years: +45 %: 15 mins: Summer	42.100	40.870	40.942	0.072	18.7	0.011	0.000	18.6	8.112	OK
SW1202	FEH 2022: 100 years: +45 %: 15 mins: Summer	41.400	40.311	40.481	0.170	20.2	0.027	0.000	18.7	11.463	Surcharged
SW1203	FEH 2022: 100 years: +45 %: 15 mins: Summer	41.270	40.063	40.177	0.114	20.6	0.032	0.000	20.5	13.534	OK
SW1206	FEH 2022: 100 years: +45 %: 15 mins: Winter	41.000	39.776	39.901	0.125	25.8	0.035	0.000	25.4	20.721	OK
SW1204	FEH 2022: 100 years: +45 %: 15 mins: Summer	41.250	39.997	40.108	0.111	21.0	0.031	0.000	20.5	13.708	OK
SW1205	FEH 2022: 100 years: +45 %: 15 mins: Winter	41.150	39.896	40.013	0.117	23.0	0.033	0.000	22.7	17.269	OK
SW1207	FEH 2022: 100 years: +45 %: 15 mins: Winter	41.040	39.700	39.812	0.112	25.9	0.032	0.000	25.4	20.868	OK
SW1208	FEH 2022: 100 years: +45 %: 30 mins: Winter	41.200	39.446	39.528	0.082	28.8	0.023	0.000	28.6	41.063	OK
SW1209	FEH 2022: 100 years: +45 %: 240 mins: Winter	39.950	39.041	39.465	0.424	20.0	0.480	0.000	19.9	130.473	Surcharged
SW1704	FEH 2022: 100 years: +45 %: 240 mins: Winter	40.020	38.675	39.461	0.786	26.2	0.890	0.000	25.9	170.840	Surcharged
SW1400	FEH 2022: 100 years: +45 %: 30 mins: Winter	41.300	39.840	39.877	0.037	3.6	0.006	0.000	3.6	6.401	OK
SW1606	FEH 2022: 100 years: +45 %: 240 mins: Winter	40.000	39.169	39.465	0.296	2.5	0.084	0.000	2.5	16.728	Surcharged
SW1700	FEH 2022: 100 years: +45 %: 240 mins: Winter	40.100	39.200	39.464	0.264	0.7	0.042	0.000	0.7	3.957	Surcharged
SW1701	FEH 2022: 100 years: +45 %: 240 mins: Winter	40.150	39.149	39.464	0.315	3.7	0.050	0.000	3.7	23.463	Surcharged
SW1702	FEH 2022: 100 years: +45 %: 240 mins: Winter	40.150	38.973	39.463	0.490	5.0	0.078	0.000	5.0	32.675	Surcharged
SW1703	FEH 2022: 100 years: +45 %: 240 mins: Winter	40.100	38.885	39.462	0.577	6.3	0.092	0.000	6.3	40.302	Surcharged
SW2200	FEH 2022: 100 years: +45 %: 240 mins: Winter	40.460	39.167	39.463	0.296	0.7	0.047	0.000	0.7	3.832	Surcharged

Project: UoM Residences DBFO Site Wide Proposed Surface Water Caculations		Date: 29/04/2026			
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SW2300	FEH 2022: 100 years: +45 %: 240 mins: Winter	40.350	39.300	39.464	0.164	2.5	0.026	0.000	2.5	16.722	Surcharged
SW2201	FEH 2022: 100 years: +45 %: 240 mins: Winter	40.460	39.104	39.463	0.359	6.9	0.406	0.000	6.9	44.829	Surcharged
SW2202	FEH 2022: 100 years: +45 %: 240 mins: Winter	40.470	38.868	39.461	0.593	9.1	0.168	0.000	9.1	58.704	Surcharged
SW2203	FEH 2022: 100 years: +45 %: 240 mins: Winter	40.400	38.781	39.460	0.679	13.4	0.192	0.000	13.4	84.475	Surcharged
SW2204	FEH 2022: 100 years: +45 %: 240 mins: Winter	40.700	38.586	39.460	0.874	19.6	0.988	0.000	18.9	125.152	Surcharged
SW1903	FEH 2022: 100 years: +45 %: 15 mins: Winter	42.150	41.000	41.061	0.061	6.0	0.010	0.000	5.9	4.953	OK
SW1904	FEH 2022: 100 years: +45 %: 30 mins: Winter	42.150	40.846	40.907	0.061	8.5	0.010	0.000	8.4	13.452	OK
SW1600	FEH 2022: 100 years: +45 %: 240 mins: Winter	39.850	39.100	39.460	0.360	1.7	0.057	0.000	1.7	11.152	Surcharged
SW1601	FEH 2022: 100 years: +45 %: 240 mins: Winter	40.000	38.995	39.460	0.465	3.1	0.074	0.000	3.0	20.207	Surcharged
SW1602	FEH 2022: 100 years: +45 %: 240 mins: Winter	39.850	38.940	39.460	0.520	3.0	0.083	0.000	3.0	20.281	Surcharged
SW1604	FEH 2022: 100 years: +45 %: 240 mins: Winter	40.000	38.811	39.459	0.648	3.3	0.103	0.000	3.3	22.823	Surcharged
SW1605	FEH 2022: 100 years: +45 %: 240 mins: Winter	40.000	38.683	39.458	0.775	5.0	0.123	0.000	4.8	34.692	Surcharged
SW2301	FEH 2022: 100 years: +45 %: 240 mins: Winter	40.000	38.950	39.278	0.328	1.5	0.052	0.000	1.5	9.805	Surcharged
SW1000	FEH 2022: 100 years: +45 %: 15 mins: Winter	44.470	43.120	43.201	0.081	10.0	0.013	0.000	9.8	8.621	OK
SW1001	FEH 2022: 100 years: +45 %: 15 mins: Winter	44.470	43.009	43.090	0.080	10.8	0.091	0.000	10.3	9.084	OK
SW1002	FEH 2022: 100 years: +45 %: 30 mins: Winter	44.460	42.780	42.910	0.129	19.1	0.021	0.000	17.9	30.890	OK
SW1003	FEH 2022: 100 years: +45 %: 30 mins: Winter	44.080	41.025	42.504	1.479	52.0	1.672	0.000	49.4	76.576	Surcharged
SW1005	FEH 2022: 100 years: +45 %: 30 mins: Winter	43.300	40.797	42.209	1.412	71.3	0.400	0.000	69.3	101.158	Surcharged
SW2407	FEH 2022: 100 years: +45 %: 30 mins: Winter	41.700	40.487	41.643	1.156	74.4	0.327	0.000	73.7	117.599	Flood Risk
SW156	FEH 2022: 100 years: +45 %: 30 mins: Winter	41.650	40.046	40.662	0.616	120.8	0.696	0.000	120.3	186.811	Surcharged
SW2402	FEH 2022: 100 years: +45 %: 30 mins: Winter	41.550	39.691	39.965	0.274	128.2	0.310	0.000	125.3	193.974	OK
SW2404	FEH 2022: 100 years: +45 %: 60 mins: Winter	41.210	38.981	39.663	0.682	122.9	0.771	0.000	124.6	282.515	Surcharged
SW2700	FEH 2022: 100 years: +45 %: 60 mins: Winter	40.650	38.881	39.619	0.738	131.2	1.056	0.000	129.7	298.787	Surcharged
SW2701	FEH 2022: 100 years: +45 %: 60 mins: Winter	40.450	38.664	39.520	0.856	145.1	0.969	0.000	144.2	339.608	Surcharged
SW2704	FEH 2022: 100 years: +45 %: 120 mins: Winter	40.250	38.437	39.413	0.976	116.7	1.397	0.000	116.0	440.342	Surcharged

Project: UoM Residences DBFO Site Wide Proposed Surface Water Calculations				Date: 29/04/2026							
				Designed by: Nour Rashdan	Checked by: Johnny Hunt	Approved By: Pedro Vicente					
Report Details: Type: Junctions Summary Storm Phase: Full Site				Company Address: 20 Market Street Altrincham WA14 1PF							

SW2705	FEH 2022: 100 years: +45 %: 120 mins: Winter	40.320	38.222	39.340	1.118	121.2	1.264	0.000	120.6	455.762	Surcharged
SW163	FEH 2022: 100 years: +45 %: 240 mins: Winter	40.200	37.999	39.283	1.284	95.8	1.838	0.000	95.5	630.502	Surcharged
SW1006	FEH 2022: 100 years: +45 %: 15 mins: Winter	44.480	43.130	43.260	0.130	20.2	0.037	0.000	19.1	13.455	OK
SW1007	FEH 2022: 100 years: +45 %: 15 mins: Summer	44.470	42.764	42.910	0.146	32.9	0.041	0.000	32.5	18.859	OK
SW1008	FEH 2022: 100 years: +45 %: 15 mins: Winter	44.380	42.658	42.792	0.134	32.4	0.038	0.000	30.8	19.445	OK
SW2405	FEH 2022: 100 years: +45 %: 15 mins: Winter	41.620	40.790	41.622	0.832	14.5	2.313	2.181	11.5	9.141	Flood
SW2406	FEH 2022: 100 years: +45 %: 30 mins: Winter	41.640	40.680	41.632	0.952	11.0	0.151	0.000	12.9	12.880	Flood Risk
SW1906	FEH 2022: 100 years: +45 %: 15 mins: Winter	42.050	40.718	40.963	0.245	11.7	0.039	0.000	8.9	5.416	Surcharged
SW2102	FEH 2022: 100 years: +45 %: 15 mins: Winter	42.270	40.776	41.026	0.250	17.2	0.040	0.000	15.2	11.761	Surcharged
SW2104	FEH 2022: 100 years: +45 %: 15 mins: Winter	42.250	40.482	40.946	0.464	29.7	0.131	0.000	27.7	23.518	Surcharged
SW2106	FEH 2022: 100 years: +45 %: 15 mins: Winter	42.280	40.355	40.889	0.534	31.5	0.151	0.000	31.4	29.747	Surcharged
SW2107	FEH 2022: 100 years: +45 %: 15 mins: Winter	42.270	40.249	40.817	0.568	34.6	0.161	0.000	33.8	32.322	Surcharged
SW2105	FEH 2022: 100 years: +45 %: 15 mins: Winter	42.250	40.422	40.924	0.502	33.4	0.568	0.000	29.6	28.601	Surcharged
SW2108	FEH 2022: 100 years: +45 %: 30 mins: Winter	42.180	40.181	40.758	0.577	34.6	0.163	0.000	35.3	53.130	Surcharged
SW2109	FEH 2022: 100 years: +45 %: 30 mins: Winter	42.280	40.500	40.758	0.258	0.8	0.041	0.000	0.7	0.338	Surcharged
SW2400	FEH 2022: 100 years: +45 %: 15 mins: Winter	41.690	40.340	40.382	0.042	3.5	0.007	0.000	3.4	1.626	OK
SW2403	FEH 2022: 100 years: +45 %: 30 mins: Winter	41.570	39.360	39.810	0.450	129.8	0.127	0.000	127.8	201.937	Surcharged
SW2401	FEH 2022: 100 years: +45 %: 15 mins: Winter	41.650	40.066	40.123	0.057	6.1	0.009	0.000	5.7	2.812	OK
SW2500	FEH 2022: 100 years: +45 %: 30 mins: Winter	41.570	40.620	40.657	0.037	2.7	0.006	0.000	2.6	4.737	OK
SW2501	FEH 2022: 100 years: +45 %: 30 mins: Winter	41.570	40.462	40.518	0.056	5.1	0.009	0.000	5.1	9.152	OK
SW2502	FEH 2022: 100 years: +45 %: 60 mins: Winter	41.620	40.388	40.442	0.054	5.1	0.009	0.000	5.1	13.209	OK
SW2503	FEH 2022: 100 years: +45 %: 30 mins: Winter	41.640	40.196	40.256	0.060	8.5	0.010	0.000	8.4	14.854	OK
SW2504	FEH 2022: 100 years: +45 %: 30 mins: Winter	41.150	40.019	40.081	0.062	8.4	0.010	0.000	8.3	14.817	OK
SW2505	FEH 2022: 100 years: +45 %: 30 mins: Winter	41.110	39.926	39.979	0.053	11.0	0.008	0.000	10.9	19.513	OK
SW2506	FEH 2022: 100 years: +45 %: 30 mins: Winter	41.550	40.150	40.185	0.035	2.7	0.005	0.000	2.6	4.739	OK

Project: UoM Residences DBFO Site Wide Proposed Surface Water Calculations	Date: 29/04/2026			
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SW2706	FEH 2022: 100 years: +45 %: 15 mins: Winter	40.780	39.730	39.789	0.059	8.6	0.009	0.000	8.4	5.411	OK
SW2900	FEH 2022: 100 years: +45 %: 15 mins: Winter	40.530	39.480	39.539	0.059	6.0	0.009	0.000	5.9	4.214	OK
SW2901	FEH 2022: 100 years: +45 %: 30 mins: Winter	40.380	39.336	39.411	0.075	9.6	0.012	0.000	9.5	14.749	OK
SW2902	FEH 2022: 100 years: +45 %: 120 mins: Winter	40.500	39.119	39.351	0.233	9.7	0.037	0.000	9.7	36.755	Surcharged
SW2904	FEH 2022: 100 years: +45 %: 120 mins: Winter	40.230	38.949	39.317	0.369	12.5	0.059	0.000	12.5	45.377	Surcharged
SW196	FEH 2022: 100 years: +45 %: 120 mins: Winter	40.290	38.940	39.285	0.345	6.1	0.055	0.000	6.1	20.460	Surcharged
SW2800	FEH 2022: 100 years: +45 %: 240 mins: Winter	40.300	39.250	39.274	0.024	0.1	0.004	0.000	0.1	1.421	OK
SW2801	FEH 2022: 100 years: +45 %: 240 mins: Winter	40.320	39.101	39.274	0.173	1.6	0.027	0.000	1.6	11.221	Surcharged
SW2803	FEH 2022: 100 years: +45 %: 240 mins: Winter	40.280	39.020	39.273	0.253	1.8	0.040	0.000	1.8	12.769	Surcharged
SW2802	FEH 2022: 100 years: +45 %: 240 mins: Winter	40.300	39.065	39.273	0.209	1.8	0.033	0.000	1.8	12.774	Surcharged
SW2804	FEH 2022: 100 years: +45 %: 240 mins: Winter	40.280	38.649	39.271	0.623	1.8	0.099	0.000	1.8	12.907	Surcharged
SW2805	FEH 2022: 100 years: +45 %: 240 mins: Winter	40.360	38.570	39.272	0.701	2.0	0.112	0.000	2.0	15.510	Surcharged
SW2806	FEH 2022: 100 years: +45 %: 240 mins: Winter	40.250	38.324	39.270	0.946	3.4	0.150	0.000	3.2	25.559	Surcharged
SW2807	FEH 2022: 100 years: +45 %: 240 mins: Winter	40.150	38.240	39.269	1.029	3.4	0.164	0.000	3.2	28.073	Surcharged
SW309	FEH 2022: 100 years: +45 %: 960 mins: Winter	44.650	42.502	43.496	0.994	3.8	0.281	0.000	3.7	89.666	Surcharged
SW306	FEH 2022: 100 years: +45 %: 960 mins: Winter	44.650	42.849	43.496	0.647	2.4	0.103	0.000	2.4	54.992	Surcharged
SW310	FEH 2022: 100 years: +45 %: 960 mins: Winter	44.650	42.477	43.496	1.019	4.4	0.288	0.000	4.3	105.314	Surcharged
SW502	FEH 2022: 100 years: +45 %: 960 mins: Winter	44.650	43.157	43.497	0.340	2.3	0.054	0.000	2.3	53.094	Surcharged
SW009a	FEH 2022: 100 years: +45 %: 1440 mins: Winter	44.460	41.631	43.070	1.439	7.1	0.229	0.000	7.1	884.318	Surcharged
SW009b	FEH 2022: 100 years: +45 %: 1440 mins: Winter	44.350	41.535	43.065	1.530	7.3	0.433	0.000	7.3	894.765	Surcharged
SW011	FEH 2022: 100 years: +45 %: 1440 mins: Winter	43.670	41.246	43.057	1.811	12.5	2.048	0.000	12.5	1098.333	Surcharged
SW900	FEH 2022: 100 years: +45 %: 60 mins: Winter	44.350	43.350	43.394	0.044	3.8	0.007	0.000	3.8	9.976	OK
SW901	FEH 2022: 100 years: +45 %: 15 mins: Winter	44.350	43.273	43.382	0.110	15.6	0.017	0.000	15.2	11.211	OK
SW902	FEH 2022: 100 years: +45 %: 15 mins: Winter	44.300	43.084	43.205	0.121	25.3	0.034	0.000	25.0	16.410	OK
SW1102	FEH 2022: 100 years: +45 %: 1440 mins: Winter	44.350	42.966	43.053	0.087	1.0	0.014	0.000	1.0	32.974	OK

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SW600	FEH 2022: 100 years: +45 %: 15 mins: Winter	44.700	43.770	43.852	0.082	10.5	0.013	0.000	10.3	4.818	OK
SW602	FEH 2022: 100 years: +45 %: 15 mins: Winter	44.620	43.640	43.767	0.127	7.7	0.020	0.000	6.8	3.572	OK
SW601	FEH 2022: 100 years: +45 %: 15 mins: Winter	44.610	43.613	43.762	0.149	17.1	0.042	0.000	16.0	8.384	OK
SW607	FEH 2022: 100 years: +45 %: 960 mins: Winter	44.650	43.150	43.498	0.347	4.2	0.098	0.000	4.2	97.422	Surcharged
SW610	FEH 2022: 100 years: +45 %: 960 mins: Winter	44.700	43.190	43.497	0.307	0.3	0.049	0.000	0.3	7.010	Surcharged
SW701	FEH 2022: 100 years: +45 %: 30 mins: Winter	44.350	43.428	43.505	0.077	7.0	0.012	0.000	6.9	12.411	OK
SW2101	FEH 2022: 100 years: +45 %: 15 mins: Winter	42.270	40.828	41.034	0.206	6.2	0.033	0.000	5.4	4.271	Surcharged
SW2100	FEH 2022: 100 years: +45 %: 15 mins: Winter	42.270	40.920	41.036	0.116	4.2	0.018	0.000	4.1	1.919	OK
SW1801	FEH 2022: 100 years: +45 %: 15 mins: Winter	42.900	41.305	41.376	0.071	9.8	0.020	0.000	9.6	7.508	OK
SW2103	FEH 2022: 100 years: +45 %: 15 mins: Winter	42.250	40.550	40.959	0.409	27.7	0.116	0.000	25.7	18.881	Surcharged
SW1905	FEH 2022: 100 years: +45 %: 240 mins: Winter	41.750	38.876	39.460	0.584	4.2	0.660	0.000	4.2	27.568	Surcharged
SW1201	FEH 2022: 100 years: +45 %: 15 mins: Summer	41.600	40.401	40.596	0.195	21.4	0.031	0.000	19.7	11.187	Surcharged
SW1301	FEH 2022: 100 years: +45 %: 30 mins: Winter	41.350	40.235	40.288	0.052	4.1	0.008	0.000	4.1	6.850	OK
SW1307	FEH 2022: 100 years: +45 %: 15 mins: Winter	42.550	40.495	40.625	0.130	36.0	0.037	0.000	30.6	33.491	OK
SW101	FEH 2022: 100 years: +45 %: 960 mins: Winter	44.550	43.361	43.496	0.135	0.9	0.022	0.000	0.9	20.106	OK
SW1603	FEH 2022: 100 years: +45 %: 240 mins: Winter	40.000	38.899	39.459	0.560	3.0	0.089	0.000	3.0	20.432	Surcharged
SW018a	FEH 2022: 100 years: +45 %: 240 mins: Winter	40.010	38.584	39.460	0.876	58.0	0.991	0.000	32.5	286.072	Surcharged
SW20a	FEH 2022: 100 years: +45 %: 240 mins: Winter	40.000	38.281	39.457	1.176	26.4	1.330	0.000	12.4	203.932	Surcharged
SW60a	FEH 2022: 100 years: +45 %: 960 mins: Winter	44.500	42.373	43.496	1.123	4.0	0.318	0.000	3.9	112.174	Surcharged
SW156a	FEH 2022: 100 years: +45 %: 30 mins: Winter	41.670	40.339	41.348	1.009	80.1	0.286	0.000	79.7	126.644	Surcharged
SW2702	FEH 2022: 100 years: +45 %: 120 mins: Winter	40.550	38.607	39.479	0.871	110.0	0.985	0.000	109.2	409.235	Surcharged
SW2703	FEH 2022: 100 years: +45 %: 120 mins: Winter	40.560	38.526	39.447	0.921	109.2	1.041	0.000	108.5	409.208	Surcharged
SW2903	FEH 2022: 100 years: +45 %: 120 mins: Winter	40.350	39.001	39.331	0.329	10.1	0.052	0.000	10.1	37.965	Surcharged
SW2905	FEH 2022: 100 years: +45 %: 120 mins: Winter	40.380	39.330	39.417	0.087	3.5	0.014	0.000	3.5	13.958	OK
SW510	FEH 2022: 100 years: +45 %: 960 mins: Winter	44.770	43.280	43.497	0.217	1.3	0.034	0.000	1.3	31.091	Surcharged

Project: UoM Residences DBFO Site Wide Proposed Surface Water Caculations		Date: 29/04/2026			
		Designed by: Nour Rashdan	Checked by: Johnny Hunt		Approved By: Pedro Vicente
Report Details: Type: Junctions Summary Storm Phase: Full Site		Company Address: 20 Market Street Altrincham WA14 1PF			

SW1009	FEH 2022: 100 years: +45 %: 30 mins: Winter	43.490	41.290	42.293	1.003	13.2	0.159	0.000	10.8	12.058	Surcharged
SW1004	FEH 2022: 100 years: +45 %: 30 mins: Winter	43.530	40.929	42.392	1.463	58.7	0.414	0.000	56.3	85.087	Surcharged
SW2000	FEH 2022: 100 years: +45 %: 15 mins: Winter	42.260	40.770	40.954	0.184	2.3	0.029	0.000	3.2	2.652	Surcharged
SW2001	FEH 2022: 100 years: +45 %: 15 mins: Winter	42.250	40.572	40.925	0.353	3.4	0.056	0.000	1.3	0.762	Surcharged
SW2002	FEH 2022: 100 years: +45 %: 30 mins: Winter	41.640	39.462	39.500	0.038	2.7	0.006	0.000	2.6	4.738	OK
SW012a	FEH 2022: 100 years: +45 %: 1440 mins: Winter	43.540	41.182	43.053	1.871	10.3	0.529	0.000	2.6	400.047	Surcharged

Project: UoM Residences DBFO Site Wide Proposed Surface Water Calculations	Date: 29/04/2026			
	Designed by: Nour Rashdan	Checked by: Johnny Hunt	Approved By: Pedro Vicente	
Report Details: Type: Stormwater Controls Summary Storm Phase: Full Site	Company Address: 20 Market Street Altrincham WA14 1PF			



FEH 2022: 2 years: Increase Rainfall (%): +0: Critical Storm Per Item: Rank By: Max. Avg. Depth

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
Tank 5	FEH 2022: 2 years: +0 %: 240 mins: Winter	38.506	38.506	0.156	0.156	15.0	48.293	0.000	0.000	4.1	35.213	77.818	OK
Swale (3)	FEH 2022: 2 years: +0 %: 60 mins: Summer	39.518	39.512	0.003	0.012	1.2	0.691	0.000	0.000	0.8	1.368	98.929	OK
Swale (4)	FEH 2022: 2 years: +0 %: 1440 mins: Summer	39.429	39.429	0.064	0.089	0.2	3.864	0.000	0.000	0.0	0.000	92.658	OK
Swale (1)	FEH 2022: 2 years: +0 %: 30 mins: Summer	42.677	42.674	0.004	0.014	0.8	0.305	0.000	0.000	0.5	0.606	98.995	OK
Tank 3	FEH 2022: 2 years: +0 %: 480 mins: Winter	41.493	41.493	0.293	0.293	7.4	75.560	0.000	0.000	5.3	73.559	79.137	OK
Swale (2)	FEH 2022: 2 years: +0 %: 60 mins: Winter	43.047	43.047	0.024	0.047	5.3	3.681	0.000	0.000	3.4	9.799	94.962	OK
Tank 1	FEH 2022: 2 years: +0 %: 240 mins: Winter	42.201	42.201	0.234	0.234	12.9	55.576	0.000	0.000	5.6	70.553	83.356	OK
Tank 2	FEH 2022: 2 years: +0 %: 15 mins: Summer	42.280	42.280	0.000	0.000	0.0	0.000	0.000	0.000	0.0	0.000	100.000	OK
Swale (5)	FEH 2022: 2 years: +0 %: 1440 mins: Winter	38.940	38.940	0.039	0.067	0.3	9.870	0.000	0.000	0.0	0.000	94.416	OK
Porous Paving (4)	FEH 2022: 2 years: +0 %: 240 mins: Winter	43.992	43.882	0.062	0.012	1.4	3.907	0.000	0.000	0.7	6.993	87.413	OK
Porous Paving (3)	FEH 2022: 2 years: +0 %: 480 mins: Summer	44.350	44.155	0.034	0.004	0.3	1.253	0.000	0.000	0.1	2.244	76.370	OK
Porous Paving (2)	FEH 2022: 2 years: +0 %: 480 mins: Summer	44.374	44.180	0.026	0.004	0.2	0.629	0.000	0.000	0.1	1.501	83.014	OK
Porous Paving (1)	FEH 2022: 2 years: +0 %: 960 mins: Winter	44.148	43.977	0.044	0.007	0.3	3.273	0.000	0.000	0.1	6.653	88.005	OK
Tank 4	FEH 2022: 2 years: +0 %: 15 mins: Winter	38.600	38.600	0.000	0.000	0.0	0.019	0.000	0.000	0.0	0.000	99.992	OK
Porous Paving (9)	FEH 2022: 2 years: +0 %: 960 mins: Winter	44.130	43.875	0.064	0.005	0.4	5.551	0.000	0.000	0.2	8.771	81.544	OK
Porous Paving (10)	FEH 2022: 2 years: +0 %: 960 mins: Winter	44.141	43.876	0.044	0.006	0.5	6.301	0.000	0.000	0.2	8.643	86.005	OK
Porous Paving (12)	FEH 2022: 2 years: +0 %: 240 mins: Summer	44.333	44.179	0.028	0.003	0.2	0.407	0.000	0.000	0.1	0.827	83.120	OK

Project: UoM Residences DBFO Site Wide Proposed Surface Water Caculations			Date: 29/04/2026			
			Designed by: Nour Rashdan	Checked by: Johnny Hunt	Approved By: Pedro Vicente	
Report Details: Type: Stormwater Controls Summary Storm Phase: Full Site			Company Address: 20 Market Street Altrincham WA14 1PF			

Porous Paving (13)	FEH 2022: 2 years: +0 %: 480 mins: Summer	44.318	44.154	0.035	0.003	0.2	0.549	0.000	0.000	0.1	1.204	79.810	OK
Swale 6	FEH 2022: 2 years: +0 %: 120 mins: Summer	39.514	39.513	0.012	0.013	0.7	0.704	0.000	0.000	0.5	1.410	98.351	OK
Porous Paving	FEH 2022: 2 years: +0 %: 480 mins: Winter	44.205	44.024	0.034	0.004	0.2	1.126	0.000	0.000	0.1	2.248	89.986	OK
Porous Paving (5)	FEH 2022: 2 years: +0 %: 960 mins: Winter	44.324	44.224	0.102	0.004	0.1	1.572	0.000	0.000	0.1	2.537	81.417	OK
Porous Paving (7)	FEH 2022: 2 years: +0 %: 360 mins: Winter	44.250	43.918	0.030	0.003	0.3	1.522	0.000	0.000	0.1	2.762	90.144	OK
Porous Paving (8)	FEH 2022: 2 years: +0 %: 1440 mins: Winter	44.377	44.294	0.085	0.004	0.1	2.382	0.000	0.000	0.1	3.320	84.512	OK
Porous Paving (15)	FEH 2022: 2 years: +0 %: 1440 mins: Winter	44.366	44.283	0.083	0.003	0.1	2.447	0.000	0.000	0.1	3.555	84.761	OK
Porous Paving (16)	FEH 2022: 2 years: +0 %: 480 mins: Winter	44.274	44.025	0.035	0.005	0.2	1.344	0.000	0.000	0.1	2.414	89.238	OK
Porous Paving (17)	FEH 2022: 2 years: +0 %: 960 mins: Winter	40.971	40.852	0.057	0.002	0.0	0.495	0.000	0.000	0.0	0.903	69.138	OK
Porous Paving (18)	FEH 2022: 2 years: +0 %: 120 mins: Winter	41.904	41.004	0.015	0.004	0.2	0.268	0.000	0.000	0.1	0.545	84.599	OK
Porous Paving (22)	FEH 2022: 2 years: +0 %: 480 mins: Winter	39.853	39.733	0.049	0.003	0.1	0.468	0.000	0.000	0.0	0.854	75.317	OK
Porous Paving (23)	FEH 2022: 2 years: +0 %: 120 mins: Summer	40.994	39.903	0.015	0.003	0.2	0.194	0.000	0.000	0.1	0.393	86.065	OK
Porous Paving (24)	FEH 2022: 2 years: +0 %: 960 mins: Winter	40.065	40.003	0.064	0.003	0.0	0.394	0.000	0.000	0.0	0.865	73.587	OK
Porous Paving (25)	FEH 2022: 2 years: +0 %: 120 mins: Winter	40.618	40.084	0.011	0.004	0.1	0.098	0.000	0.000	0.1	0.274	88.239	OK
Porous Paving (27)	FEH 2022: 2 years: +0 %: 960 mins: Winter	41.494	41.423	0.060	0.003	0.1	0.468	0.000	0.000	0.0	1.051	74.054	OK
Porous Paving (28)	FEH 2022: 2 years: +0 %: 1440 mins: Summer	41.545	41.453	0.061	0.003	0.1	0.823	0.000	0.000	0.0	1.605	69.724	OK
Porous Paving (31)	FEH 2022: 2 years: +0 %: 240 mins: Winter	41.521	40.116	0.012	0.006	0.3	0.773	0.000	0.000	0.1	1.686	81.126	OK
Porous Paving (32)	FEH 2022: 2 years: +0 %: 1440 mins: Winter	40.147	40.002	0.071	0.002	0.1	1.095	0.000	0.000	0.0	1.495	69.615	OK

Project: UoM Residences DBFO Site Wide Proposed Surface Water Calculations	Date: 29/04/2026			
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Report Details: Type: Stormwater Controls Summary Storm Phase: Full Site	Company Address: 20 Market Street Altrincham WA14 1PF			

Porous Paving (33)	FEH 2022: 2 years: +0 %: 1440 mins: Winter	40.113	40.042	0.071	0.002	0.0	0.434	0.000	0.000	0.0	1.030	70.704	OK
Porous Paving (35)	FEH 2022: 2 years: +0 %: 960 mins: Winter	40.138	39.952	0.049	0.002	0.1	0.881	0.000	0.000	0.0	1.367	65.596	OK
Porous Paving (36)	FEH 2022: 2 years: +0 %: 960 mins: Winter	40.117	39.952	0.044	0.002	0.0	0.529	0.000	0.000	0.0	1.122	71.375	OK
Porous Paving (34)	FEH 2022: 2 years: +0 %: 1440 mins: Winter	40.147	40.012	0.075	0.002	0.1	1.479	0.000	0.000	0.0	1.806	68.946	OK
Porous Paving (19)	FEH 2022: 2 years: +0 %: 960 mins: Winter	44.168	43.994	0.039	0.004	0.1	1.158	0.000	0.000	0.0	2.326	89.040	OK
Porous Paving (20)	FEH 2022: 2 years: +0 %: 1440 mins: Winter	39.723	39.452	0.074	0.002	0.2	3.792	0.000	0.000	0.0	3.214	75.817	OK
Porous Paving (41)	FEH 2022: 2 years: +0 %: 960 mins: Summer	43.720	43.431	0.031	0.011	0.7	5.792	0.000	0.000	0.2	10.377	88.602	OK
Tank 6	FEH 2022: 2 years: +0 %: 240 mins: Winter	38.182	38.182	0.349	0.349	47.4	126.210	0.000	0.000	38.1	473.616	50.302	OK
Tank 7	FEH 2022: 2 years: +0 %: 240 mins: Winter	38.501	38.501	0.201	0.201	6.4	32.154	0.000	0.000	2.1	18.475	71.591	OK
Porous Paving (14)	FEH 2022: 2 years: +0 %: 240 mins: Winter	44.548	44.220	0.028	0.010	0.5	1.145	0.000	0.000	0.3	2.680	78.883	OK
Porous Paving (21)	FEH 2022: 2 years: +0 %: 240 mins: Winter	44.602	44.458	0.028	0.002	0.0	0.067	0.000	0.000	0.0	0.272	89.835	OK
Porous Paving (6)	FEH 2022: 2 years: +0 %: 240 mins: Winter	44.546	44.508	0.040	0.002	0.0	0.076	0.000	0.000	0.0	0.215	86.201	OK
Porous Paving (38)	FEH 2022: 2 years: +0 %: 240 mins: Winter	40.437	39.660	0.021	0.004	0.1	0.370	0.000	0.000	0.1	0.712	79.138	OK
Porous Paving (26)	FEH 2022: 2 years: +0 %: 240 mins: Winter	43.408	42.474	0.017	0.004	0.2	0.486	0.000	0.000	0.1	0.922	69.529	OK
Porous Paving (29)	FEH 2022: 2 years: +0 %: 240 mins: Winter	44.290	44.109	0.077	0.009	0.5	0.840	0.000	0.000	0.4	2.949	78.652	OK
Porous Paving (30)	FEH 2022: 2 years: +0 %: 1440 mins: Winter	39.957	39.872	0.078	0.002	0.0	0.586	0.000	0.000	0.0	1.023	82.216	OK
Porous Paving (37)	FEH 2022: 2 years: +0 %: 480 mins: Winter	44.128	43.995	0.045	0.005	0.2	1.083	0.000	0.000	0.1	2.080	90.343	OK
Porous Paving (11)	FEH 2022: 2 years: +0 %: 960 mins: Winter	40.987	40.852	0.061	0.002	0.1	0.561	0.000	0.000	0.0	0.913	66.444	OK

Project: UoM Residences DBFO Site Wide Proposed Surface Water Calculations	Date: 29/04/2026			
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Report Details: Type: Stormwater Controls Summary Storm Phase: Full Site	Company Address: 20 Market Street Altrincham WA14 1PF			



FEH 2022: 30 years: Increase Rainfall (%): +40: Critical Storm Per Item: Rank By: Max. Avg. Depth

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
Tank 5	FEH 2022: 30 years: +40 %: 240 mins: Winter	38.833	38.833	0.483	0.483	29.4	149.675	0.000	0.000	15.1	132.347	31.250	OK
Swale (3)	FEH 2022: 30 years: +40 %: 30 mins: Summer	39.523	39.522	0.008	0.022	4.1	1.601	0.000	0.000	2.8	3.372	97.518	OK
Swale (4)	FEH 2022: 30 years: +40 %: 480 mins: Summer	39.438	39.438	0.073	0.098	0.9	4.427	0.000	0.000	0.6	3.052	91.588	OK
Swale (1)	FEH 2022: 30 years: +40 %: 30 mins: Summer	42.687	42.686	0.014	0.026	2.3	0.723	0.000	0.000	1.9	1.976	97.617	OK
Tank 3	FEH 2022: 30 years: +40 %: 1440 mins: Winter	42.410	42.410	1.210	1.210	9.4	311.755	0.000	0.000	6.2	268.490	13.920	OK
Swale (2)	FEH 2022: 30 years: +40 %: 30 mins: Winter	43.101	43.100	0.078	0.100	20.7	9.625	0.000	0.000	12.2	21.053	86.828	OK
Tank 1	FEH 2022: 30 years: +40 %: 480 mins: Winter	42.899	42.899	0.932	0.932	22.6	221.406	0.000	0.000	5.9	177.835	33.692	OK
Tank 2	FEH 2022: 30 years: +40 %: 480 mins: Winter	42.899	42.899	0.619	0.619	7.0	34.598	0.000	0.000	1.0	25.012	42.110	OK
Swale (5)	FEH 2022: 30 years: +40 %: 1440 mins: Winter	39.017	39.017	0.116	0.144	0.7	25.026	0.000	0.000	0.0	0.000	85.842	OK
Porous Paving (4)	FEH 2022: 30 years: +40 %: 120 mins: Winter	44.084	43.894	0.154	0.024	6.2	8.908	0.000	0.000	2.8	14.234	71.297	OK
Porous Paving (3)	FEH 2022: 30 years: +40 %: 480 mins: Summer	44.411	44.158	0.094	0.007	0.8	2.946	0.000	0.000	0.3	5.686	44.440	OK
Porous Paving (2)	FEH 2022: 30 years: +40 %: 240 mins: Summer	44.426	44.182	0.078	0.006	0.8	1.502	0.000	0.000	0.4	2.833	59.432	OK
Porous Paving (1)	FEH 2022: 30 years: +40 %: 480 mins: Winter	44.229	43.983	0.125	0.013	1.3	7.563	0.000	0.000	0.5	11.911	72.289	OK
Tank 4	FEH 2022: 30 years: +40 %: 240 mins: Winter	38.835	38.835	0.235	0.235	22.9	39.126	0.000	0.000	6.8	37.732	83.302	OK
Porous Paving (9)	FEH 2022: 30 years: +40 %: 960 mins: Winter	44.245	43.879	0.179	0.009	1.1	12.601	0.000	0.000	0.5	22.731	58.105	OK
Porous Paving (10)	FEH 2022: 30 years: +40 %: 960 mins: Winter	44.223	43.879	0.126	0.009	1.2	14.656	0.000	0.000	0.4	22.413	67.444	OK

Project: UoM Residences DBFO Site Wide Proposed Surface Water Caculations			Date: 29/04/2026			
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Report Details: Type: Stormwater Controls Summary Storm Phase: Full Site			Company Address: 20 Market Street Altrincham WA14 1PF			

Porous Paving (12)	FEH 2022: 30 years: +40 %: 240 mins: Summer	44.385	44.182	0.080	0.006	0.6	0.983	0.000	0.000	0.3	2.191	59.248	OK
Porous Paving (13)	FEH 2022: 30 years: +40 %: 360 mins: Summer	44.378	44.157	0.094	0.006	0.5	1.270	0.000	0.000	0.2	2.679	53.282	OK
Swale 6	FEH 2022: 30 years: +40 %: 60 mins: Summer	39.528	39.525	0.026	0.025	2.8	1.470	0.000	0.000	2.0	3.261	96.556	OK
Porous Paving	FEH 2022: 30 years: +40 %: 240 mins: Winter	44.272	44.027	0.102	0.007	0.9	2.643	0.000	0.000	0.3	3.929	76.501	OK
Porous Paving (5)	FEH 2022: 30 years: +40 %: 480 mins: Winter	44.433	44.228	0.211	0.008	0.6	3.228	0.000	0.000	0.3	5.295	61.838	OK
Porous Paving (7)	FEH 2022: 30 years: +40 %: 240 mins: Winter	44.310	43.921	0.090	0.006	1.2	3.688	0.000	0.000	0.4	5.589	76.125	OK
Porous Paving (8)	FEH 2022: 30 years: +40 %: 960 mins: Winter	44.472	44.297	0.179	0.007	0.4	4.988	0.000	0.000	0.2	8.173	67.563	OK
Porous Paving (15)	FEH 2022: 30 years: +40 %: 960 mins: Winter	44.457	44.286	0.174	0.006	0.5	5.070	0.000	0.000	0.2	8.608	68.433	OK
Porous Paving (16)	FEH 2022: 30 years: +40 %: 360 mins: Winter	44.341	44.029	0.103	0.009	0.7	3.169	0.000	0.000	0.3	5.225	74.630	OK
Porous Paving (17)	FEH 2022: 30 years: +40 %: 480 mins: Winter	41.053	40.853	0.139	0.003	0.2	1.083	0.000	0.000	0.1	1.651	32.407	OK
Porous Paving (18)	FEH 2022: 30 years: +40 %: 60 mins: Winter	41.942	41.007	0.053	0.007	0.8	0.740	0.000	0.000	0.3	1.091	57.416	OK
Porous Paving (22)	FEH 2022: 30 years: +40 %: 360 mins: Winter	39.926	39.735	0.122	0.005	0.3	1.042	0.000	0.000	0.1	1.953	45.068	OK
Porous Paving (23)	FEH 2022: 30 years: +40 %: 120 mins: Summer	41.021	39.906	0.042	0.006	0.5	0.525	0.000	0.000	0.2	1.106	62.260	OK
Porous Paving (24)	FEH 2022: 30 years: +40 %: 360 mins: Winter	40.132	40.006	0.130	0.006	0.2	0.806	0.000	0.000	0.1	1.521	45.973	OK
Porous Paving (25)	FEH 2022: 30 years: +40 %: 60 mins: Winter	40.657	40.088	0.050	0.008	0.4	0.287	0.000	0.000	0.2	0.574	65.719	OK
Porous Paving (27)	FEH 2022: 30 years: +40 %: 360 mins: Winter	41.562	41.428	0.129	0.008	0.3	0.985	0.000	0.000	0.1	1.832	45.371	OK
Porous Paving (28)	FEH 2022: 30 years: +40 %: 1440 mins: Summer	41.623	41.455	0.139	0.005	0.2	1.758	0.000	0.000	0.1	4.200	35.337	OK
Porous Paving (31)	FEH 2022: 30 years: +40 %: 240 mins: Winter	41.543	40.120	0.033	0.010	0.8	1.969	0.024	0.000	0.4	4.485	51.938	OK
Porous Paving (32)	FEH 2022: 30 years: +40 %: 1440 mins: Winter	40.252	40.003	0.176	0.003	0.1	2.421	0.000	0.000	0.1	4.217	32.836	OK

Project: UoM Residences DBFO Site Wide Proposed Surface Water Caculations			Date: 29/04/2026			
			Designed by: Nour Rashdan	Checked by: Johnny Hunt	Approved By: Pedro Vicente	
Report Details: Type: Stormwater Controls Summary Storm Phase: Full Site			Company Address: 20 Market Street Altrincham WA14 1PF			

Porous Paving (33)	FEH 2022: 30 years: +40 %: 480 mins: Winter	40.184	40.044	0.142	0.004	0.2	0.867	0.000	0.000	0.1	1.612	41.474	OK
Porous Paving (35)	FEH 2022: 30 years: +40 %: 960 mins: Winter	40.225	39.953	0.136	0.003	0.2	1.993	0.030	0.000	0.1	3.611	22.152	OK
Porous Paving (36)	FEH 2022: 30 years: +40 %: 480 mins: Winter	40.198	39.953	0.125	0.003	0.2	1.227	0.000	0.000	0.1	2.026	33.665	OK
Porous Paving (34)	FEH 2022: 30 years: +40 %: 1440 mins: Winter	40.257	40.014	0.185	0.004	0.2	3.298	0.000	0.000	0.1	5.299	30.748	OK
Porous Paving (19)	FEH 2022: 30 years: +40 %: 480 mins: Winter	44.241	43.997	0.112	0.007	0.4	2.659	0.000	0.000	0.2	4.051	74.846	OK
Porous Paving (20)	FEH 2022: 30 years: +40 %: 1440 mins: Winter	39.846	39.454	0.198	0.004	0.4	8.770	0.000	0.000	0.1	9.166	44.066	OK
Porous Paving (41)	FEH 2022: 30 years: +40 %: 960 mins: Summer	43.779	43.438	0.090	0.018	1.9	13.565	0.000	0.000	0.6	25.768	73.306	OK
Tank 6	FEH 2022: 30 years: +40 %: 120 mins: Winter	38.716	38.716	0.883	0.883	144.9	253.449	0.000	0.000	65.0	681.308	0.199	OK
Tank 7	FEH 2022: 30 years: +40 %: 240 mins: Winter	38.831	38.831	0.531	0.531	15.5	84.996	0.000	0.000	7.9	68.969	24.902	OK
Porous Paving (14)	FEH 2022: 30 years: +40 %: 120 mins: Winter	44.614	44.228	0.094	0.018	2.1	2.931	0.000	0.000	0.9	5.167	45.949	OK
Porous Paving (21)	FEH 2022: 30 years: +40 %: 60 mins: Winter	44.650	44.461	0.077	0.005	0.3	0.178	0.000	0.000	0.2	0.428	72.990	OK
Porous Paving (6)	FEH 2022: 30 years: +40 %: 120 mins: Winter	44.590	44.510	0.083	0.004	0.2	0.159	0.000	0.000	0.1	0.448	71.033	OK
Porous Paving (38)	FEH 2022: 30 years: +40 %: 120 mins: Winter	40.486	39.663	0.070	0.007	0.6	0.923	0.000	0.000	0.2	1.282	47.933	OK
Porous Paving (26)	FEH 2022: 30 years: +40 %: 120 mins: Winter	43.454	42.478	0.063	0.008	0.7	1.203	0.059	0.000	0.2	1.683	24.620	OK
Porous Paving (29)	FEH 2022: 30 years: +40 %: 60 mins: Winter	44.406	44.122	0.193	0.022	3.5	2.066	0.000	0.000	2.1	4.597	47.503	OK
Porous Paving (30)	FEH 2022: 30 years: +40 %: 960 mins: Winter	40.043	39.874	0.163	0.004	0.1	1.205	0.000	0.000	0.1	2.268	63.433	OK
Porous Paving (37)	FEH 2022: 30 years: +40 %: 360 mins: Winter	44.199	43.999	0.116	0.009	0.6	2.475	0.000	0.000	0.3	4.733	77.936	OK
Porous Paving (11)	FEH 2022: 30 years: +40 %: 960 mins: Winter	41.073	40.853	0.147	0.003	0.1	1.206	0.005	0.000	0.1	2.360	27.839	OK

Project: UoM Residences DBFO Site Wide Proposed Surface Water Calculations	Date: 29/04/2026			
	Designed by: Nour Rashdan	Checked by: Johnny Hunt	Approved By: Pedro Vicente	
Report Details: Type: Stormwater Controls Summary Storm Phase: Full Site	Company Address: 20 Market Street Altrincham WA14 1PF			



FEH 2022: 100 years: Increase Rainfall (%): +45: Critical Storm Per Item: Rank By: Max. Avg. Depth

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
Tank 5	FEH 2022: 100 years: +45 %: 240 mins: Winter	39.459	39.459	1.109	1.109	57.6	217.250	0.000	0.000	29.0	186.590	0.211	OK
Swale (3)	FEH 2022: 100 years: +45 %: 30 mins: Summer	39.527	39.526	0.012	0.026	5.4	1.986	0.000	0.000	3.8	4.522	96.921	OK
Swale (4)	FEH 2022: 100 years: +45 %: 240 mins: Winter	39.457	39.457	0.092	0.117	2.0	5.507	0.000	0.000	1.3	4.584	89.535	OK
Swale (1)	FEH 2022: 100 years: +45 %: 1440 mins: Winter	43.057	43.057	0.384	0.397	2.7	21.493	0.000	0.000	1.0	29.039	29.195	OK
Tank 3	FEH 2022: 100 years: +45 %: 1440 mins: Winter	43.053	43.053	1.853	1.853	13.2	361.317	0.000	0.000	2.5	131.291	0.235	OK
Swale (2)	FEH 2022: 100 years: +45 %: 60 mins: Winter	43.126	43.126	0.103	0.126	22.5	12.635	0.000	0.000	16.1	43.189	82.708	OK
Tank 1	FEH 2022: 100 years: +45 %: 960 mins: Winter	43.496	43.496	1.529	1.529	18.3	332.955	0.000	0.000	5.8	347.871	0.284	OK
Tank 2	FEH 2022: 100 years: +45 %: 960 mins: Winter	43.496	43.496	1.216	1.216	4.9	58.886	0.000	0.000	0.9	43.596	1.472	OK
Swale (5)	FEH 2022: 100 years: +45 %: 240 mins: Winter	39.122	39.121	0.220	0.248	9.3	47.196	0.000	0.000	8.9	2.691	73.299	OK
Porous Paving (4)	FEH 2022: 100 years: +45 %: 120 mins: Winter	44.126	43.898	0.196	0.028	8.1	11.188	0.000	0.000	3.9	19.353	63.951	OK
Porous Paving (3)	FEH 2022: 100 years: +45 %: 480 mins: Summer	44.443	44.159	0.127	0.008	1.1	3.769	0.000	0.000	0.4	7.539	28.913	OK
Porous Paving (2)	FEH 2022: 100 years: +45 %: 240 mins: Summer	44.451	44.182	0.102	0.006	1.1	1.920	0.000	0.000	0.5	3.727	48.142	OK
Porous Paving (1)	FEH 2022: 100 years: +45 %: 480 mins: Winter	44.270	43.985	0.165	0.015	1.7	9.607	0.000	0.000	0.7	16.022	64.799	OK
Tank 4	FEH 2022: 100 years: +45 %: 240 mins: Winter	39.460	39.460	0.860	0.860	57.6	143.402	0.000	0.000	32.3	141.034	38.799	OK
Porous Paving (9)	FEH 2022: 100 years: +45 %: 960 mins: Winter	44.307	43.880	0.241	0.010	1.5	16.125	0.000	0.000	0.8	30.797	46.389	OK
Porous Paving (10)	FEH 2022: 100 years: +45 %: 960 mins: Winter	44.270	43.881	0.174	0.011	1.6	18.972	0.000	0.000	0.6	30.483	57.859	OK

Project: UoM Residences DBFO Site Wide Proposed Surface Water Caculations			Date: 29/04/2026			
			Designed by: Nour Rashdan	Checked by: Johnny Hunt	Approved By: Pedro Vicente	
Report Details: Type: Stormwater Controls Summary Storm Phase: Full Site			Company Address: 20 Market Street Altrincham WA14 1PF			

Porous Paving (12)	FEH 2022: 100 years: +45 %: 240 mins: Summer	44.410	44.183	0.105	0.007	0.8	1.243	0.000	0.000	0.4	2.863	48.479	OK
Porous Paving (13)	FEH 2022: 100 years: +45 %: 360 mins: Summer	44.408	44.158	0.125	0.007	0.7	1.622	0.000	0.000	0.3	3.549	40.332	OK
Swale 6	FEH 2022: 100 years: +45 %: 30 mins: Summer	39.533	39.530	0.031	0.030	4.1	1.778	0.000	0.000	2.8	3.160	95.834	OK
Porous Paving	FEH 2022: 100 years: +45 %: 240 mins: Winter	44.306	44.028	0.135	0.008	1.1	3.353	0.000	0.000	0.4	5.245	70.185	OK
Porous Paving (5)	FEH 2022: 100 years: +45 %: 480 mins: Winter	44.484	44.229	0.262	0.009	0.8	3.995	0.000	0.000	0.4	7.257	52.760	OK
Porous Paving (7)	FEH 2022: 100 years: +45 %: 240 mins: Winter	44.340	43.922	0.120	0.007	1.5	4.703	0.000	0.000	0.6	7.329	69.551	OK
Porous Paving (8)	FEH 2022: 100 years: +45 %: 960 mins: Winter	44.517	44.298	0.224	0.008	0.6	6.224	0.000	0.000	0.3	11.343	59.525	OK
Porous Paving (15)	FEH 2022: 100 years: +45 %: 960 mins: Winter	44.501	44.287	0.219	0.007	0.6	6.337	0.000	0.000	0.3	12.008	60.540	OK
Porous Paving (16)	FEH 2022: 100 years: +45 %: 360 mins: Winter	44.376	44.031	0.137	0.011	0.9	4.024	0.000	0.000	0.4	6.891	67.783	OK
Porous Paving (17)	FEH 2022: 100 years: +45 %: 480 mins: Winter	41.116	40.854	0.202	0.004	0.2	1.313	0.099	0.000	0.1	2.295	18.058	Flood
Porous Paving (18)	FEH 2022: 100 years: +45 %: 120 mins: Winter	41.946	41.007	0.057	0.007	0.7	0.925	0.020	0.000	0.3	2.020	46.787	OK
Porous Paving (22)	FEH 2022: 100 years: +45 %: 360 mins: Winter	40.005	39.736	0.201	0.006	0.3	1.302	0.019	0.000	0.2	2.583	31.407	Flood
Porous Paving (23)	FEH 2022: 100 years: +45 %: 120 mins: Summer	41.035	39.906	0.055	0.006	0.7	0.684	0.006	0.000	0.3	1.456	50.841	OK
Porous Paving (24)	FEH 2022: 100 years: +45 %: 360 mins: Winter	40.205	40.007	0.204	0.007	0.3	0.994	0.039	0.000	0.1	2.058	33.355	Flood
Porous Paving (25)	FEH 2022: 100 years: +45 %: 60 mins: Winter	40.675	40.089	0.068	0.009	0.5	0.377	0.000	0.000	0.3	0.764	54.951	OK
Porous Paving (27)	FEH 2022: 100 years: +45 %: 30 mins: Winter	41.653	41.661	0.220	0.241	5.1	2.486	0.907	0.000	7.0	2.161	-37.879	Flood
Porous Paving (28)	FEH 2022: 100 years: +45 %: 960 mins: Summer	41.687	41.456	0.202	0.006	0.4	2.189	0.124	0.000	0.2	4.755	19.461	Flood
Porous Paving (31)	FEH 2022: 100 years: +45 %: 120 mins: Winter	41.575	40.121	0.066	0.011	1.7	2.696	0.077	0.000	0.7	4.506	34.209	OK
Porous Paving (32)	FEH 2022: 100 years: +45 %: 960 mins: Winter	40.328	40.004	0.252	0.004	0.3	3.017	0.133	0.000	0.1	4.691	16.307	Flood

Project: UoM Residences DBFO Site Wide Proposed Surface Water Caculations			Date: 29/04/2026			
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Porous Paving (33)	FEH 2022: 100 years: +45 %: 360 mins: Winter	40.248	40.044	0.206	0.004	0.3	1.066	0.067	0.000	0.1	1.931	28.018	Flood
Porous Paving (35)	FEH 2022: 100 years: +45 %: 360 mins: Winter	40.291	39.954	0.201	0.004	0.5	2.254	0.190	0.000	0.2	2.858	11.932	Flood
Porous Paving (36)	FEH 2022: 100 years: +45 %: 360 mins: Winter	40.274	39.953	0.201	0.003	0.3	1.481	0.083	0.000	0.2	2.333	19.926	Flood
Porous Paving (34)	FEH 2022: 100 years: +45 %: 960 mins: Winter	40.324	40.016	0.252	0.006	0.3	4.069	0.231	0.000	0.2	6.039	14.561	Flood
Porous Paving (19)	FEH 2022: 100 years: +45 %: 480 mins: Winter	44.278	43.998	0.149	0.008	0.6	3.382	0.000	0.000	0.2	5.437	67.998	OK
Porous Paving (20)	FEH 2022: 100 years: +45 %: 1440 mins: Winter	39.918	39.454	0.270	0.004	0.6	11.467	0.000	0.000	0.2	13.023	26.869	OK
Porous Paving (41)	FEH 2022: 100 years: +45 %: 960 mins: Summer	43.815	43.441	0.127	0.021	2.5	17.593	0.000	0.000	0.9	34.353	65.381	OK
Tank 6	FEH 2022: 100 years: +45 %: 240 mins: Winter	39.264	39.264	1.431	1.431	130.6	253.976	0.000	0.000	69.7	1320.834	-0.009	OK
Tank 7	FEH 2022: 100 years: +45 %: 240 mins: Winter	39.457	39.457	1.157	1.157	26.2	112.553	0.000	0.000	12.3	89.505	0.555	OK
Porous Paving (14)	FEH 2022: 100 years: +45 %: 120 mins: Winter	44.644	44.231	0.125	0.021	2.7	3.692	0.143	0.000	1.2	6.845	31.914	OK
Porous Paving (21)	FEH 2022: 100 years: +45 %: 60 mins: Winter	44.673	44.462	0.099	0.006	0.4	0.228	0.000	0.000	0.3	0.570	65.338	OK
Porous Paving (6)	FEH 2022: 100 years: +45 %: 60 mins: Winter	44.610	44.512	0.104	0.006	0.3	0.197	0.000	0.000	0.2	0.457	64.066	OK
Porous Paving (38)	FEH 2022: 100 years: +45 %: 240 mins: Winter	40.492	39.663	0.077	0.007	0.4	1.114	0.039	0.000	0.2	2.433	37.124	OK
Porous Paving (26)	FEH 2022: 100 years: +45 %: 60 mins: Winter	43.483	42.481	0.092	0.011	1.5	1.417	0.148	0.000	0.5	1.408	11.202	OK
Porous Paving (29)	FEH 2022: 100 years: +45 %: 60 mins: Winter	44.471	44.126	0.258	0.026	4.7	2.486	0.261	0.000	3.0	6.366	36.842	Flood
Porous Paving (30)	FEH 2022: 100 years: +45 %: 960 mins: Winter	40.084	39.874	0.204	0.004	0.2	1.503	0.000	0.000	0.1	3.160	54.408	OK
Porous Paving (37)	FEH 2022: 100 years: +45 %: 360 mins: Winter	44.233	44.000	0.150	0.010	0.8	3.120	0.000	0.000	0.4	6.329	72.182	OK
Porous Paving (11)	FEH 2022: 100 years: +45 %: 360 mins: Winter	41.129	40.855	0.202	0.005	0.3	1.394	0.126	0.000	0.2	1.916	16.601	Flood