

528 High Road  
Leytonstone  
London E11 3EE

Attenuation Tank  
Broadwater Road, Welwyn



Date 03/02/2020  
File C12885 Attenuation Tank REVISED.SRCX

Designed by CJC  
Checked by DPA

Micro Drainage

Source Control 2018.1.1

Summary of Results for 100 year Return Period (+40%)

Half Drain Time : 753 minutes.

Storm Event	Max Level (m)	Max Depth (m)	Max Infiltration (l/s)	Max Control (l/s)	Max Σ Outflow (l/s)	Max Volume (m³)	Status
15 min Summer	82.003	0.403	0.0	1.6	1.6	65.1	O K
30 min Summer	82.123	0.523	0.0	1.7	1.7	84.5	O K
60 min Summer	82.240	0.640	0.0	1.7	1.7	103.3	O K
120 min Summer	82.343	0.743	0.0	1.7	1.7	120.0	O K
180 min Summer	82.389	0.789	0.0	1.7	1.7	127.4	O K
240 min Summer	82.411	0.811	0.0	1.8	1.8	130.9	O K
360 min Summer	82.423	0.823	0.0	1.8	1.8	132.9	O K
480 min Summer	82.416	0.816	0.0	1.8	1.8	131.8	O K
600 min Summer	82.398	0.798	0.0	1.8	1.8	128.8	O K
720 min Summer	82.376	0.776	0.0	1.7	1.7	125.4	O K
960 min Summer	82.339	0.739	0.0	1.7	1.7	119.3	O K
1440 min Summer	82.281	0.681	0.0	1.7	1.7	110.0	O K
2160 min Summer	82.208	0.608	0.0	1.7	1.7	98.3	O K
2880 min Summer	82.141	0.541	0.0	1.7	1.7	87.4	O K
4320 min Summer	82.020	0.420	0.0	1.6	1.6	67.8	O K
5760 min Summer	81.916	0.316	0.0	1.6	1.6	51.1	O K
7200 min Summer	81.829	0.229	0.0	1.5	1.5	37.0	O K
8640 min Summer	81.759	0.159	0.0	1.5	1.5	25.6	O K
10080 min Summer	81.702	0.102	0.0	1.5	1.5	16.6	O K
15 min Winter	82.053	0.453	0.0	1.6	1.6	73.2	O K
30 min Winter	82.189	0.589	0.0	1.7	1.7	95.1	O K
60 min Winter	82.322	0.722	0.0	1.7	1.7	116.6	O K
120 min Winter	82.442	0.842	0.0	1.8	1.8	136.0	O K
180 min Winter	82.499	0.899	0.0	1.8	1.8	145.1	O K
240 min Winter	82.527	0.927	0.0	1.8	1.8	149.8	O K
360 min Winter	82.551	0.951	0.0	1.8	1.8	153.6	O K
480 min Winter	82.553	0.953	0.0	1.8	1.8	153.9	O K
600 min Winter	82.542	0.942	0.0	1.8	1.8	152.2	O K
720 min Winter	82.524	0.924	0.0	1.8	1.8	149.3	O K
960 min Winter	82.476	0.876	0.0	1.8	1.8	141.5	O K
1440 min Winter	82.397	0.797	0.0	1.8	1.8	128.7	O K
2160 min Winter	82.293	0.693	0.0	1.7	1.7	111.9	O K
2880 min Winter	82.193	0.593	0.0	1.7	1.7	95.7	O K
4320 min Winter	82.013	0.413	0.0	1.6	1.6	66.7	O K
5760 min Winter	81.864	0.264	0.0	1.5	1.5	42.6	O K
7200 min Winter	81.746	0.146	0.0	1.5	1.5	23.5	O K
8640 min Winter	81.658	0.058	0.0	1.5	1.5	9.3	O K

Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Discharge Volume (m³)	Time-Peak (mins)
15 min Summer	139.231	0.0	67.2	23
30 min Summer	91.066	0.0	88.0	38
60 min Summer	56.713	0.0	109.7	68
120 min Summer	34.120	0.0	131.9	126
180 min Summer	25.012	0.0	145.0	186
240 min Summer	19.949	0.0	154.4	244
360 min Summer	14.458	0.0	167.8	364
480 min Summer	11.506	0.0	178.0	482
600 min Summer	9.631	0.0	186.2	584
720 min Summer	8.325	0.0	193.3	628
960 min Summer	6.610	0.0	204.5	752
1440 min Summer	4.768	0.0	221.4	1012
2160 min Summer	3.433	0.0	239.0	1416
2880 min Summer	2.717	0.0	252.3	1820
4320 min Summer	1.952	0.0	271.9	2600
5760 min Summer	1.542	0.0	286.3	3352
7200 min Summer	1.284	0.0	298.0	4104
8640 min Summer	1.105	0.0	307.7	4760
10080 min Summer	0.973	0.0	316.0	5448
15 min Winter	139.231	0.0	75.4	24
30 min Winter	91.066	0.0	98.6	38
60 min Winter	56.713	0.0	122.9	66
120 min Winter	34.120	0.0	147.9	124
180 min Winter	25.012	0.0	162.6	182
240 min Winter	19.949	0.0	172.9	240
360 min Winter	14.458	0.0	188.0	356
480 min Winter	11.506	0.0	199.5	468
600 min Winter	9.631	0.0	208.7	578
720 min Winter	8.325	0.0	216.5	686
960 min Winter	6.610	0.0	229.1	806
1440 min Winter	4.768	0.0	247.9	1088
2160 min Winter	3.433	0.0	267.7	1540
2880 min Winter	2.717	0.0	282.7	1988
4320 min Winter	1.952	0.0	304.4	2808
5760 min Winter	1.542	0.0	320.8	3568
7200 min Winter	1.284	0.0	333.8	4248
8640 min Winter	1.105	0.0	344.6	4840

528 High Road  
 Leytonstone  
 London E11 3EE

Attenuation Tank  
 Broadwater Road, Welwyn



Date 03/02/2020  
 File C12885 Attenuation Tank REVISED.SRCX

Designed by CJC  
 Checked by DPA

Micro Drainage

Source Control 2018.1.1

Summary of Results for 100 year Return Period (+40%)

Storm Event	Max Level (m)	Max Depth (m)	Max Infiltration (l/s)	Max Control (l/s)	Max E (l/s)	Max Outflow (l/s)	Max Volume (m³)	Status
10080 min Winter	81.605	0.005	0.0	1.4	1.4	0.8		O K

Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Discharge Volume (m³)	Time-Peak (mins)
10080 min Winter	0.973	0.0	354.0	5248