

Project: P24-3044 Fairgreen BESS 1_100+45%CC Calculations		Date: 16/05/2025			
		Designed by: TB	Checked by: SD		Approved By: ST
Report Details: Type: Rainfall Analysis Criteria		Company Address: Victory House, Vision Park, Histon Cambridge, CB24 9ZR			

Runoff Type	Dynamic
Output Interval (mins)	5
Time Step	Shortest
Urban Creep	Apply Global Value
Urban Creep Global Value (%)	0
Junction Flood Risk Margin (mm)	300
Perform No Discharge Analysis	☐

Rainfall	
1_100 + 45%CC	Type: FEH
Site Location	GB 577700 191200 TQ 77700 91200
Rainfall Version	2022
Summer	☒
Winter	☒

Return Period	
Return Period (years)	Increase Rainfall (%)
100.0	45.000

Storm Durations	
Duration (mins)	Run Time (mins)
15	30
30	60
60	120
120	240
180	360
240	480
360	720
480	960
600	1200
720	1440
960	1920
1440	2880
2160	4320
2880	5760
4320	8640
5760	11520
7200	14400
8640	17280
10080	20160

Project: P24-3044 Fairgreen BESS 1_100+45%CC Calculations		Date: 16/05/2025			
		Designed by: TB	Checked by: SD		Approved By: ST
Report Details: Type: Inflow Summary Storm Phase: 1_100 + 45%CC		Company Address: Victory House, Vision Park, Histon Cambridge, CB24 9ZR			

Inflow Label	Connected To	Flow (L/s)	Runoff Method	Area (ha)	Percentage Impervious (%)	Urban Creep (%)	Adjusted Percentage Impervious (%)	Area Analysed (ha)
C1.1	MH1		Time of Concentration	0.382	100	0	100	0.382
C1.2	MH5		Time of Concentration	0.614	100	0	100	0.614
C1.3	MH3		Time of Concentration	0.101	100	0	100	0.101
C2.1	MH9		Time of Concentration	0.378	100	0	100	0.378
C2.2	MH15		Time of Concentration	0.164	100	0	100	0.164
C2.3	MH18		Time of Concentration	0.380	100	0	100	0.380
C2.4	MH12		Time of Concentration	0.212	100	0	100	0.212
C3.1	MH20		Time of Concentration	0.214	100	0	100	0.214
C3.2	MH24		Time of Concentration	0.235	100	0	100	0.235
C3.3	MH26		Time of Concentration	0.121	100	0	100	0.121
C3.4	MH22		Time of Concentration	0.094	100	0	100	0.094
TOTAL		0.0		2.896				2.896

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Report Details: Type: Stormwater Controls Storm Phase: 1_100 + 45%CC		Company Address: Victory House, Vision Park, Histon Cambridge, CB24 9ZR			



Attenuation Basin

Type : Pond

Dimensions			
Exceedance Level (m)		16.560	
Depth (m)		1.350	
Base Level (m)		15.210	
Freeboard (mm)		0	
Initial Depth (m)		0.000	
Porosity (%)		100	
Average Slope (1:X)		3.00	
Total Volume (m³)		162.441	
Depth (m)		Area (m²)	Volume (m³)
0.000		51.59	0.000
1.350		206.24	162.441

Advanced		
Perimeter		Circular
Length (m)		22.088
Friction Scheme		Manning's n
n		0.03

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 **Proposed Ditch**

Type : Swale

Swale	
Exceedance Level (m)	14.000
Depth (m)	1.000
Base Level (m)	13.000
Top Width (m)	2.300
Side Slope (1:X)	1.00
Base Width (m)	0.300
Freeboard (mm)	0
Length (m)	120.000
Long. Slope (1:X)	10000.00
Filtration Rate (m/hr)	0.0
Friction Scheme	Manning's n
n	0.03
Total Volume (m³)	156.000

Advanced	
Swale	
Porosity (%)	100

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Cellular Storage B

Type : Cellular Storage

Dimensions	
Exceedance Level (m)	18.150
Depth (m)	1.380
Base Level (m)	16.050
Number of Crates Long	68
Number of Crates Wide	15
Number of Crates High	1
Porosity (%)	97
Crate Length (m)	1.2
Crate Width (m)	0.6
Crate Height (m)	1.38
Total Volume (m³)	983.788



Cellular Storage A

Type : Cellular Storage

Dimensions	
Exceedance Level (m)	19.750
Depth (m)	1.380
Base Level (m)	17.000
Number of Crates Long	22
Number of Crates Wide	46
Number of Crates High	1
Porosity (%)	97
Crate Length (m)	1.2
Crate Width (m)	0.6
Crate Height (m)	1.38
Total Volume (m³)	976.728



Cellular Storage C

Type : Cellular Storage

Dimensions	
Exceedance Level (m)	14.750
Depth (m)	0.750
Base Level (m)	13.400
Number of Crates Long	29
Number of Crates Wide	58
Number of Crates High	1
Porosity (%)	95
Crate Length (m)	1
Crate Width (m)	0.5
Crate Height (m)	0.75
Total Volume (m³)	599.813

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Company Address: Victory House, Vision Park, Histon Cambridge, CB24 9ZR					

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

Stormwater Control	Storm Event	Max. US Level (m)	Max. DS Level (m)	Max. US Depth (m)	Max. DS Depth (m)	Max. Inflow (L/s)	Max. Resident Volume (m³)	Max. Flooded Volume (m³)	Total Lost Volume (m³)	Max. Outflow (L/s)	Total Discharge Volume (m³)	Half Drain Down Time (mins)	Percentage Available (%)
Attenuation Basin	1_100 + 45% CC: 100 years: +45 %: 1440 mins: Winter	15.276	15.276	0.066	0.066	4.7	3.565	0.000	0.000	4.6	661.922	10	97.805
Cellular Storage B	1_100 + 45% CC: 100 years: +45 %: 1440 mins: Winter	17.558	17.558	1.508	1.508	31.6	983.437	0.000	0.000	2.9	193.765		0.036
Cellular Storage A	1_100 + 45% CC: 100 years: +45 %: 2160 mins: Winter	18.359	18.359	1.359	1.359	21.4	960.770	0.000	0.000	2.1	261.691		1.634
Proposed Ditch	1_100 + 45% CC: 100 years: +45 %: 10080 mins: Winter	13.995	13.995	0.983	0.995	0.7	152.885	0.000	0.000	0.0	0.000		1.997
Cellular Storage C	1_100 + 45% CC: 100 years: +45 %: 2880 mins: Winter	14.146	14.146	0.746	0.746	10.1	596.182	0.000	0.000	1.1	124.680		0.605

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	Designed by:	Checked by:	Approved By:	
	TB	SD	ST	
Report Details: Type: Stormwater Controls Summary Storm Phase: 1_100 + 45%CC		Company Address: Victory House, Vision Park, Histon Cambridge, CB24 9ZR		

Status
OK
OK
OK
OK
OK

Project: P24-3044 Fairgreen BESS 1_100+45%CC Calculations		Date: 16/05/2025			
Report Details: Type: Stormwater Controls Summary Storm Phase: 1_100 + 45%CC		Designed by: TB	Checked by: SD		Approved By: ST
		Company Address: Victory House, Vision Park, Histon Cambridge, CB24 9ZR			

Critical Storm Per Item: Rank By: Max. Outflow

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. Residual Volume (m³)	Max. Flooded Volume (m³)	Total Lost Volume (m³)	Max. Outflow (L/s)	Total Discharge Volume (m³)	Half Drain Down Time (mins)	Percentage Available (%)
Attenuation Basin	1_100 + 45% CC: 100 years: +45 %: 1440 mins: Winter	15.276	15.276	0.066	0.066	4.7	3.565	0.000	0.000	4.6	661.922	10	97.805
Cellular Storage B	1_100 + 45% CC: 100 years: +45 %: 1440 mins: Winter	17.558	17.558	1.508	1.508	31.6	983.437	0.000	0.000	2.9	193.765		0.036
Cellular Storage A	1_100 + 45% CC: 100 years: +45 %: 1440 mins: Winter	18.358	18.358	1.358	1.358	30.9	960.164	0.000	0.000	2.1	177.688		1.696
Proposed Ditch	1_100 + 45% CC: 100 years: +45 %: 15 mins: Summer	13.040	13.040	0.028	0.040	1.5	1.364	0.000	0.000	0.0	0.000		99.126
Cellular Storage C	1_100 + 45% CC: 100 years: +45 %: 60 mins: Winter	13.780	13.780	0.380	0.380	194.7	303.678	0.000	0.000	1.2	2.578		49.371

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	Designed by:	Checked by:	Approved By:	
	TB	SD	ST	
Report Details: Type: Stormwater Controls Summary Storm Phase: 1_100 + 45%CC	Company Address: Victory House, Vision Park, Histon Cambridge, CB24 9ZR			

Status
OK
OK
OK
OK
OK

Project: P24-3044 Fairgreen BESS 1_30 Calculations	Date: 16/05/2025			
	Designed by: TB	Checked by:	Approved By:	
	Report Details: Type: Junctions Storm Phase: 1_30			
Company Address: Victory House, Vision Park, Histon Cambridge, CB24 9ZR				

Name	Junction Type	Easting (m)	Northing (m)	Cover Level (m)	Depth (m)	Invert Level (m)	Chamber Shape	Length (m)
MH3	Manhole	577559.361	190472.594	19.350	0.960	18.390	Rectangular	0.300
MH5	Manhole	577722.816	190459.805	19.350	0.500	18.850	Rectangular	0.300
MH15	Manhole	577722.636	190510.205	18.830	0.240	18.590	Rectangular	0.300
MH16	Manhole	577710.653	190548.393	18.442	0.240	18.202	Rectangular	0.300
MH17	Manhole	577688.976	190550.117	18.442	0.283	18.159	Rectangular	0.300
MH18	Manhole	577691.441	190581.661	18.150	0.800	17.350	Rectangular	0.300
MH12	Manhole	577626.174	190586.769	18.150	0.964	17.186	Rectangular	0.300
MH13	Manhole	577646.576	190585.174	18.150	2.350	15.800	Rectangular	0.300
MH4	Manhole	577583.131	190470.734	19.350	2.450	16.900	Rectangular	0.300
MH6	Manhole	577584.260	190490.019	19.050	2.279	16.771	Rectangular	0.300
MH8	Manhole	577623.195	190601.663	16.620	1.380	15.240	Rectangular	0.300
MH19	Manhole	577647.190	190593.226	16.567	1.267	15.300	Rectangular	0.300
MH9	Manhole	577721.549	190495.551	18.922	0.900	18.022	Rectangular	0.400
MH26	Manhole	577797.183	190740.127	14.750	1.000	13.750	Rectangular	0.300
MH22	Manhole	577743.066	190742.153	14.750	1.000	13.750	Rectangular	0.300
MH23	Manhole	577767.746	190741.137	14.750	1.370	13.380	Rectangular	0.300
MH27	Manhole	577767.798	190747.471	14.352	1.000	13.352	Rectangular	0.300
MH28	Manhole	577740.970	190747.963	14.000	0.842	13.158	Rectangular	0.300
MH29	Manhole	577740.604	190728.938	14.260	1.187	13.073	Rectangular	0.300
MH10	Manhole	577614.817	190503.905	18.922	1.257	17.665	Rectangular	0.400
MH11	Manhole	577620.484	190575.101	18.251	1.000	17.251	Rectangular	0.300
MH2	Manhole	577556.076	190430.819	19.800	1.070	18.730	Rectangular	0.300
MH1	Manhole	577726.469	190417.465	19.800	0.500	19.300	Rectangular	0.300
MH14	Manhole	577657.327	190584.333	18.150	2.150	16.000	Rectangular	0.300
MH7	Manhole	577592.935	190514.895	18.502	2.072	16.430	Rectangular	0.300
MH20	Manhole	577793.851	190655.465	15.840	0.240	15.600	Rectangular	0.300
MH21	Manhole	577740.220	190657.549	15.840	0.420	15.420	Rectangular	0.300
MH24	Manhole	577743.511	190701.328	15.200	0.240	14.960	Rectangular	0.300
MH25	Manhole	577795.275	190699.296	15.200	0.415	14.785	Rectangular	0.300
P1.000 Mid 2	Manhole	577626.239	190425.320	19.800	0.835	18.965	Rectangular	0.300
P2.000 Mid	Manhole	577654.118	190465.180	19.350	0.845	18.505	Rectangular	0.300
P5.000 Mid	Manhole	577767.027	190656.530	15.840	0.330	15.510	Rectangular	0.300
P3.000 Mid 2	Manhole	577668.037	190499.740	18.922	1.079	17.843	Rectangular	0.300
P7.000 Mid	Manhole	577770.038	190700.287	15.200	0.330	14.870	Rectangular	0.300
P5.002 Mid 2	Manhole	577755.500	190741.642	14.750	1.186	13.564	Rectangular	0.300
P7.002 Mid 2	Manhole	577785.277	190740.536	14.750	1.150	13.600	Rectangular	0.300
P1.000 Mid 1	Manhole	577676.504	190421.381	19.800	0.667	19.133	Rectangular	0.300
P3.000 Mid 1	Manhole	577696.688	190497.497	18.922	0.983	17.939	Rectangular	0.300
P5.002 Mid 1	Manhole	577749.399	190741.893	14.750	1.095	13.655	Rectangular	0.300
P7.002 Mid 1	Manhole	577791.347	190740.327	14.750	1.073	13.677	Rectangular	0.300

Project: P24-3044 Fairgreen BESS 1_30 Calculations	Date: 16/05/2025		
	Designed by:	Checked by:	Approved By:
	TB		
Report Details: Type: Junctions Storm Phase: 1_30	Company Address: Victory House, Vision Park, Histon Cambridge, CB24 9ZR		



Name	Width (m)	Lock
MH3	0.300	None
MH5	0.300	None
MH15	0.300	None
MH16	0.300	None
MH17	0.300	None
MH18	0.300	None
MH12	0.300	None
MH13	0.300	None
MH4	0.300	None
MH6	0.300	None
MH8	0.300	None
MH19	0.300	None
MH9	0.400	None
MH26	0.300	None
MH22	0.300	None
MH23	0.300	None
MH27	0.300	None
MH28	0.300	None
MH29	0.300	None
MH10	0.400	None
MH11	0.300	None
MH2	0.300	None
MH1	0.300	None
MH14	0.300	None
MH7	0.300	None
MH20	0.300	None
MH21	0.300	None
MH24	0.300	None
MH25	0.300	None
P1.000 Mid 2	0.300	None
P2.000 Mid	0.300	None
P5.000 Mid	0.300	None
P3.000 Mid 2	0.300	None
P7.000 Mid	0.300	None
P5.002 Mid 2	0.300	None
P7.002 Mid 2	0.300	None
P1.000 Mid 1	0.300	None
P3.000 Mid 1	0.300	None
P5.002 Mid 1	0.300	None
P7.002 Mid 1	0.300	None

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	Designed by: TB	Checked by:	Approved By:
	Report Details: Type: Rainfall Analysis Criteria		
		Company Address: Victory House, Vision Park, Histon Cambridge, CB24 9ZR	

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Runoff Type	Dynamic
Output Interval (mins)	5
Time Step	Shortest
Urban Creep	Apply Global Value
Urban Creep Global Value (%)	0
Junction Flood Risk Margin (mm)	300
Perform No Discharge Analysis	☐

Rainfall	
1_30	Type: FEH
Site Location	GB 577700 191200 TQ 77700 91200
Rainfall Version	2022
Summer	☒
Winter	☒

Return Period	
Return Period (years)	Increase Rainfall (%)
30.0	0.000

Storm Durations	
Duration (mins)	Run Time (mins)
15	30
30	60
60	120
120	240
180	360
240	480
360	720
480	960
600	1200
720	1440
960	1920
1440	2880
2160	4320
2880	5760
4320	8640
5760	11520
7200	14400
8640	17280
10080	20160

Project: P24-3044 Fairgreen BESS 1_30 Calculations		Date: 16/05/2025			
Report Details: Type: Junctions Summary Storm Phase: 1_30		Designed by: TB	Checked by:		Approved By:
		Company Address: Victory House, Vision Park, Histon Cambridge, CB24 9ZR			



Critical Storm Per Item: Rank By: Max. Flooded Volume

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
MH3	1_30: 30 years: +0 %: 15 mins: Summer	19.35 0	18.39 0	18.815	0.425	114.5	0.038	0.000	111.1	76.530	Surcharged
MH5	1_30: 30 years: +0 %: 15 mins: Summer	19.35 0	18.85 0	19.150	0.300	113.7	0.027	0.000	73.9	49.383	Flood Risk
MH15	1_30: 30 years: +0 %: 15 mins: Summer	18.83 0	18.59 0	18.767	0.177	59.9	0.016	0.000	58.3	25.974	Flood Risk
MH16	1_30: 30 years: +0 %: 15 mins: Summer	18.44 2	18.20 2	18.430	0.228	58.3	0.021	0.000	55.1	25.942	Flood Risk
MH17	1_30: 30 years: +0 %: 15 mins: Summer	18.44 2	18.15 9	18.271	0.112	55.1	0.010	0.000	54.4	25.910	Flood Risk
MH18	1_30: 30 years: +0 %: 15 mins: Summer	18.15 0	17.35 0	17.657	0.307	193.2	0.028	0.000	170.7	86.387	Surcharged
MH12	1_30: 30 years: +0 %: 15 mins: Summer	18.15 0	17.18 6	17.522	0.335	162.2	0.030	0.000	152.0	93.634	Surcharged
MH13	1_30: 30 years: +0 %: 15 mins: Summer	18.15 0	15.80 0	17.168	1.368	152.0	0.123	0.000	2.2	92.998	Surcharged
MH4	1_30: 30 years: +0 %: 15 mins: Summer	19.35 0	16.90 0	17.724	0.824	287.5	0.074	0.000	1.6	173.457	Surcharged
MH6	1_30: 30 years: +0 %: 15 mins: Summer	19.05 0	16.77 1	16.798	0.027	1.6	0.002	0.000	1.6	2.013	OK
MH8	1_30: 30 years: +0 %: 15 mins: Summer	16.62 0	15.24 0	15.271	0.031	1.6	0.003	0.000	1.6	1.788	OK
MH19	1_30: 30 years: +0 %: 15 mins: Summer	16.56 7	15.30 0	15.331	0.031	2.2	0.003	0.000	2.1	2.692	OK
MH9	1_30: 30 years: +0 %: 15 mins: Summer	18.92 2	18.02 2	18.922	0.900	69.6	0.146	0.002	59.7	30.190	Flood Risk
MH26	1_30: 30 years: +0 %: 15 mins: Summer	14.75 0	13.75 0	14.514	0.764	87.4	0.069	0.000	90.6	41.126	Flood Risk
MH22	1_30: 30 years: +0 %: 15 mins: Summer	14.75 0	13.75 0	14.457	0.707	78.9	0.064	0.000	82.4	37.871	Flood Risk
MH23	1_30: 30 years: +0 %: 15 mins: Summer	14.75 0	13.38 0	14.330	0.950	248.6	0.085	0.000	1.4	104.997	Surcharged
MH27	1_30: 30 years: +0 %: 15 mins: Summer	14.35 2	13.35 2	13.380	0.028	1.4	0.003	0.000	1.5	1.708	OK
MH28	1_30: 30 years: +0 %: 15 mins: Summer	14.00 0	13.15 8	13.190	0.032	1.5	0.003	0.000	1.5	1.641	OK
MH29	1_30: 30 years: +0 %: 15 mins: Summer	14.26 3	13.07 3	13.107	0.034	1.5	0.003	0.000	1.3	1.553	OK
MH10	1_30: 30 years: +0 %: 15 mins: Summer	18.92 2	17.66 5	18.229	0.563	108.1	0.090	0.000	99.5	60.175	Surcharged

Project: P24-3044 Fairgreen BESS 1_30 Calculations				Date: 16/05/2025				I DRN				
Report Details: Type: Junctions Summary Storm Phase: 1_30				Designed by: TB		Checked by:					Approved By:	
				Company Address: Victory House, Vision Park, Histon Cambridge, CB24 9ZR								
MH11	1_30: 30 years: +0 %: 15 mins: Summer	18.25 1	17.25 1	17.624	0.373	99.5	0.034	0.000	85.3	60.071	Surcharged	
MH2	1_30: 30 years: +0 %: 15 mins: Summer	19.80 0	18.73 0	19.063	0.332	91.9	0.030	0.000	85.4	60.610	Surcharged	
MH1	1_30: 30 years: +0 %: 15 mins: Summer	19.80 0	19.30 0	19.638	0.338	31.0	0.030	0.000	18.2	4.660	Flood Risk	
MH14	1_30: 30 years: +0 %: 15 mins: Summer	18.15 0	16.00 0	17.153	1.153	320.4	0.104	0.000	0.8	174.907	Surcharged	
MH7	1_30: 30 years: +0 %: 15 mins: Summer	18.50 2	16.43 0	16.455	0.025	1.6	0.002	0.000	1.6	1.912	OK	
MH20	1_30: 30 years: +0 %: 15 mins: Summer	15.84 0	15.60 0	15.812	0.212	45.8	0.019	0.000	44.0	19.879	Flood Risk	
MH21	1_30: 30 years: +0 %: 15 mins: Summer	15.84 0	15.42 0	15.561	0.141	72.9	0.013	0.000	70.3	34.154	Flood Risk	
MH24	1_30: 30 years: +0 %: 15 mins: Summer	15.20 0	14.96 0	15.174	0.214	43.5	0.019	0.000	41.2	18.846	Flood Risk	
MH25	1_30: 30 years: +0 %: 15 mins: Summer	15.20 0	14.78 5	14.925	0.140	80.2	0.013	0.000	78.5	37.349	Flood Risk	
P1.000 Mid 2	1_30: 30 years: +0 %: 15 mins: Summer	19.80 0	18.96 5	19.562	0.597	98.1	0.054	0.000	91.9	60.466	Flood Risk	
P2.000 Mid	1_30: 30 years: +0 %: 15 mins: Summer	19.35 0	18.50 5	19.121	0.616	185.0	0.055	0.000	176.4	97.322	Flood Risk	
P5.000 Mid	1_30: 30 years: +0 %: 15 mins: Summer	15.84 0	15.51 0	15.757	0.246	76.4	0.022	0.000	72.9	33.950	Flood Risk	
P3.000 Mid 2	1_30: 30 years: +0 %: 15 mins: Summer	18.92 2	17.84 3	18.778	0.935	118.4	0.084	0.000	108.1	60.029	Flood Risk	
P7.000 Mid	1_30: 30 years: +0 %: 15 mins: Summer	15.20 0	14.87 0	15.131	0.261	83.8	0.023	0.000	80.2	37.271	Flood Risk	
P5.002 Mid 2	1_30: 30 years: +0 %: 15 mins: Summer	14.75 0	13.56 4	14.398	0.835	111.7	0.075	0.000	115.4	49.093	Surcharged	
P7.002 Mid 2	1_30: 30 years: +0 %: 15 mins: Summer	14.75 0	13.60 0	14.446	0.845	129.6	0.076	0.000	133.2	56.606	Surcharged	
P1.000 Mid 1	1_30: 30 years: +0 %: 15 mins: Summer	19.80 0	19.13 3	19.602	0.469	56.5	0.042	0.000	48.6	29.161	Flood Risk	
P3.000 Mid 1	1_30: 30 years: +0 %: 15 mins: Summer	18.92 2	17.93 9	18.836	0.897	59.7	0.081	0.000	49.3	30.191	Flood Risk	
P5.002 Mid 1	1_30: 30 years: +0 %: 15 mins: Summer	14.75 0	13.65 5	14.432	0.777	91.3	0.070	0.000	94.8	41.901	Surcharged	
P7.002 Mid 1	1_30: 30 years: +0 %: 15 mins: Summer	14.75 0	13.67 7	14.484	0.807	99.5	0.073	0.000	102.9	44.985	Flood Risk	