

MJA Consulting

Monarch House
Barton Lane
OX14 3NB

Date 21/06/2022
File Cascade.CASX

Innovyze

Phase 2 Manor Farm
Bedhampton
Pond + Boreholes

Designed by S.Smith
Checked by

Source Control 2020.1

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Cascade Summary of Results for Pond.SRCX								
Upstream Structures			Outflow To			Overflow To		
(None)			Deep Borehole Soakaway.SRCX			(None)		
Half Drain Time exceeds 7 days.								
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	5.727	0.327	0.0	0.6	0.6	184.5	O	K
30 min Summer	5.825	0.425	0.0	0.6	0.6	248.0	O	K
60 min Summer	5.928	0.528	0.0	0.6	0.6	317.6	O	K
120 min Summer	6.031	0.631	0.0	0.6	0.6	391.8	O	K
180 min Summer	6.089	0.689	0.0	0.6	0.6	435.5	O	K
240 min Summer	6.128	0.728	0.0	0.7	0.7	465.6	O	K
360 min Summer	6.185	0.785	0.0	0.7	0.7	510.5	O	K
480 min Summer	6.226	0.826	0.0	0.7	0.7	543.5	O	K
600 min Summer	6.257	0.857	0.0	0.7	0.7	569.4	O	K
720 min Summer	6.283	0.883	0.0	0.7	0.7	590.7	O	K
960 min Summer	6.322	0.922	0.0	0.7	0.7	624.0	O	K
1440 min Summer	6.374	0.974	0.0	0.7	0.7	669.1	O	K
2160 min Summer	6.420	1.020	0.0	0.7	0.7	709.5	O	K
2880 min Summer	6.446	1.046	0.0	0.7	0.7	733.1	O	K
4320 min Summer	6.469	1.069	0.0	0.7	0.7	754.4	O	K
5760 min Summer	6.472	1.072	0.0	0.7	0.7	757.1	O	K
7200 min Summer	6.464	1.064	0.0	0.7	0.7	749.7	O	K
Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Discharge Volume (m³)	Time-Peak (mins)				
15 min Summer	127.517	0.0	48.6	47				
30 min Summer	85.701	0.0	50.3	61				
60 min Summer	54.957	0.0	103.1	92				
120 min Summer	34.010	0.0	106.4	150				
180 min Summer	25.295	0.0	108.2	210				
240 min Summer	20.351	0.0	109.3	270				
360 min Summer	14.971	0.0	110.7	388				
480 min Summer	12.028	0.0	111.5	508				
600 min Summer	10.141	0.0	111.9	628				
720 min Summer	8.817	0.0	112.2	746				
960 min Summer	7.063	0.0	112.3	986				
1440 min Summer	5.157	0.0	111.4	1464				
2160 min Summer	3.757	0.0	227.0	2180				
2880 min Summer	2.997	0.0	225.3	2896				
4320 min Summer	2.176	0.0	219.6	4332				
5760 min Summer	1.731	0.0	449.3	5768				
7200 min Summer	1.449	0.0	443.8	7200				

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Micro
Drainage

Cascade Summary of Results for Pond.SRCX

Storm Event	Max Level (m)	Max Depth (m)	Max Infiltration (l/s)	Max Control (l/s)	Max E Outflow (l/s)	Max Volume (m³)	Status
8640 min Summer	6.451	1.051	0.0	0.7	0.7	737.8	O K
10080 min Summer	6.437	1.037	0.0	0.7	0.7	725.4	O K
15 min Winter	5.762	0.362	0.0	0.6	0.6	206.8	O K
30 min Winter	5.870	0.470	0.0	0.6	0.6	278.0	O K
60 min Winter	5.982	0.582	0.0	0.6	0.6	356.1	O K
120 min Winter	6.094	0.694	0.0	0.6	0.6	439.4	O K
180 min Winter	6.157	0.757	0.0	0.7	0.7	488.7	O K
240 min Winter	6.200	0.800	0.0	0.7	0.7	522.7	O K
360 min Winter	6.262	0.862	0.0	0.7	0.7	573.5	O K
480 min Winter	6.307	0.907	0.0	0.7	0.7	611.0	O K
600 min Winter	6.341	0.941	0.0	0.7	0.7	640.6	O K
720 min Winter	6.369	0.969	0.0	0.7	0.7	664.9	O K
960 min Winter	6.412	1.012	0.0	0.7	0.7	703.2	O K
1440 min Winter	6.471	1.071	0.0	0.7	0.7	755.9	O K
2160 min Winter	6.523	1.123	0.0	0.7	0.7	804.3	O K
2880 min Winter	6.554	1.154	0.0	0.7	0.7	833.9	O K
4320 min Winter	6.586	1.186	0.0	0.7	0.7	864.5	O K
5760 min Winter	6.596	1.196	0.0	0.7	0.7	874.5	O K
7200 min Winter	6.595	1.195	0.0	0.7	0.7	873.5	O K
8640 min Winter	6.589	1.189	0.0	0.7	0.7	867.1	O K
10080 min Winter	6.578	1.178	0.0	0.7	0.7	856.2	O K

Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Discharge Volume (m³)	Time-Peak (mins)
8640 min Summer	1.255	0.0	436.9	8216
10080 min Summer	1.111	0.0	428.8	8696
15 min Winter	127.517	0.0	49.2	47
30 min Winter	85.701	0.0	51.1	61
60 min Winter	54.957	0.0	104.9	90
120 min Winter	34.010	0.0	108.5	148
180 min Winter	25.295	0.0	110.3	208
240 min Winter	20.351	0.0	111.4	266
360 min Winter	14.971	0.0	112.9	384
480 min Winter	12.028	0.0	113.7	500
600 min Winter	10.141	0.0	114.1	618
720 min Winter	8.817	0.0	114.3	736
960 min Winter	7.063	0.0	114.3	972
1440 min Winter	5.157	0.0	113.3	1442
2160 min Winter	3.757	0.0	231.6	2148
2880 min Winter	2.997	0.0	229.7	2852
4320 min Winter	2.176	0.0	223.1	4244
5760 min Winter	1.731	0.0	459.1	5608
7200 min Winter	1.449	0.0	452.6	6944
8640 min Winter	1.255	0.0	444.7	8296
10080 min Winter	1.111	0.0	435.3	9576

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Date 21/06/2022 File Cascade.CASX	Designed by S.Smith Checked by	
Innovyze Source Control 2020.1		

Cascade Model Details for Pond.SRCX

Storage is Online Cover Level (m) 7.000

Infiltration Basin Structure

Invert Level (m) 5.400 Safety Factor 2.0
Infiltration Coefficient Base (m/hr) 0.00000 Porosity 1.00
Infiltration Coefficient Side (m/hr) 0.00000

Depth (m)	Area (m ²)	Depth (m)	Area (m ²)	Depth (m)	Area (m ²)	Depth (m)	Area (m ²)
0.000	506.0	0.500	690.0	1.000	888.0	1.500	1100.0
0.100	542.0	0.600	728.0	1.100	929.0	1.600	1144.0
0.200	578.0	0.700	767.0	1.200	971.0		
0.300	615.0	0.800	807.0	1.300	1013.0		
0.400	651.0	0.900	847.0	1.400	1056.0		

Hydro-Brake® Optimum Outflow Control

Unit Reference MD-SHE-0033-6000-1300-6000
Design Head (m) 1.300
Design Flow (l/s) 0.6
Flush-Flo™ Calculated
Objective Minimise upstream storage
Application Surface
Sump Available Yes
Diameter (mm) 33
Invert Level (m) 4.550
Minimum Outlet Pipe Diameter (mm) 75
Suggested Manhole Diameter (mm) 1200

Control Points	Head (m)	Flow (l/s)
Design Point (Calculated)	1.300	0.6
Flush-Flo™	0.146	0.4
Kick-Flo®	0.297	0.3
Mean Flow over Head Range	-	0.4

The hydrological calculations have been based on the Head/Discharge relationship for the Hydro-Brake® Optimum as specified. Should another type of control device other than a Hydro-Brake Optimum® be utilised then these storage routing calculations will be invalidated

Depth (m)	Flow (l/s)	Depth (m)	Flow (l/s)	Depth (m)	Flow (l/s)	Depth (m)	Flow (l/s)
0.100	0.4	1.200	0.6	3.000	0.9	7.000	1.3
0.200	0.4	1.400	0.6	3.500	0.9	7.500	1.3
0.300	0.3	1.600	0.7	4.000	1.0	8.000	1.4
0.400	0.4	1.800	0.7	4.500	1.0	8.500	1.4
0.500	0.4	2.000	0.7	5.000	1.1	9.000	1.4
0.600	0.4	2.200	0.8	5.500	1.1	9.500	1.5
0.800	0.5	2.400	0.8	6.000	1.2		
1.000	0.5	2.600	0.8	6.500	1.2		

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Date 21/06/2022 File Cascade.CASX		Designed by S.Smith Checked by CP					
Innovyze		Source Control 2020.1					
<u>Cascade Summary of Results for Deep Borehole Soakaway.SRCX</u>							
Storm Event	Max Level (m)	Max Depth (m)	Max Infiltration (l/s)	Max Overflow (l/s)	Max Σ Outflow (l/s)	Max Volume (m³)	Status
8640 min Summer	99.625	50.125	0.4	0.4	0.7	3.7	O K
10080 min Summer	99.625	50.125	0.4	0.4	0.7	3.7	O K
15 min Winter	99.619	50.119	0.4	0.2	0.6	3.7	O K
30 min Winter	99.620	50.120	0.4	0.3	0.6	3.7	O K
60 min Winter	99.621	50.121	0.4	0.3	0.6	3.7	O K
120 min Winter	99.622	50.122	0.4	0.3	0.6	3.7	O K
180 min Winter	99.623	50.123	0.4	0.3	0.7	3.7	O K
240 min Winter	99.623	50.123	0.4	0.3	0.7	3.7	O K
360 min Winter	99.624	50.124	0.4	0.3	0.7	3.7	O K
480 min Winter	99.624	50.124	0.4	0.3	0.7	3.7	O K
600 min Winter	99.624	50.124	0.4	0.4	0.7	3.7	O K
720 min Winter	99.624	50.124	0.4	0.4	0.7	3.7	O K
960 min Winter	99.624	50.124	0.4	0.4	0.7	3.7	O K
1440 min Winter	99.625	50.125	0.4	0.4	0.7	3.7	O K
2160 min Winter	99.625	50.125	0.4	0.4	0.7	3.7	O K
2880 min Winter	99.625	50.125	0.4	0.4	0.7	3.7	O K
4320 min Winter	99.625	50.125	0.4	0.4	0.7	3.7	O K
5760 min Winter	99.626	50.126	0.4	0.4	0.8	3.7	O K
7200 min Winter	99.626	50.126	0.4	0.4	0.8	3.7	O K
8640 min Winter	99.626	50.126	0.4	0.4	0.8	3.7	O K
10080 min Winter	99.626	50.126	0.4	0.4	0.8	3.7	O K
Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Overflow Volume (m³)	Time-Peak (mins)			
8640 min Summer	1.255	0.0	193.1	5864			
10080 min Summer	1.111	0.0	185.1	10504			
15 min Winter	127.517	0.0	16.8	197			
30 min Winter	85.701	0.0	18.6	178			
60 min Winter	54.957	0.0	42.2	470			
120 min Winter	34.010	0.0	45.8	210			
180 min Winter	25.295	0.0	47.7	224			
240 min Winter	20.351	0.0	48.9	826			
360 min Winter	14.971	0.0	50.4	604			
480 min Winter	12.028	0.0	51.3	486			
600 min Winter	10.141	0.0	51.8	846			
720 min Winter	8.817	0.0	52.0	914			
960 min Winter	7.063	0.0	52.1	1042			
1440 min Winter	5.157	0.0	51.1	1834			
2160 min Winter	3.757	0.0	109.1	2016			
2880 min Winter	2.997	0.0	107.3	2796			
4320 min Winter	2.176	0.0	101.1	3716			
5760 min Winter	1.731	0.0	216.6	4024			
7200 min Winter	1.449	0.0	210.6	7016			
8640 min Winter	1.255	0.0	203.2	8248			
10080 min Winter	1.111	0.0	194.6	10384			
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Monarch House Barton Lane OX14 3NB	Phase 2 Manor Farm Bedhampton Pond + Boreholes	
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Cascade Model Details for Deep Borehole Soakaway.SRCX

Storage is Online Cover Level (m) 100.000

Deep Bore Soakaway Structure

Chamber Invert Level (m) 99.500 Infiltration Coefficient Base (m/hr) 0.05328
Chamber Diameter/Length (m) 1.200 Safety Factor 2.0
Borehole Diameter (m) 0.300
Borehole Depth (m) 50.000

Side		Side	
Depth	Infil.	Depth	Infil.
(m)	Coef.	(m)	Coef.
	(m/hr)		(m/hr)
0.000	0.05328	50.000	0.05328

Orifice Overflow Control

Diameter (m) 0.150 Discharge Coefficient 0.600 Invert Level (m) 99.600

[illegible]

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Source Control 2020.1

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Cascade Summary of Results for Deep Borehole Soakaway 2.SRCX

Storm Event	Max Level (m)	Max Depth (m)	Max Infiltration (l/s)	Max Overflow (l/s)	Max Outflow (l/s)	Max Volume (m³)	Status
8640 min Summer	99.604	50.104	0.3	0.0	0.4	3.7	O K
10080 min Summer	99.604	50.104	0.3	0.0	0.4	3.7	O K
15 min Winter	80.688	31.188	0.2	0.0	0.2	2.2	O K
30 min Winter	83.964	34.464	0.2	0.0	0.2	2.4	O K
60 min Winter	87.208	37.708	0.3	0.0	0.3	2.7	O K
120 min Winter	90.364	40.864	0.3	0.0	0.3	2.9	O K
180 min Winter	92.115	42.615	0.3	0.0	0.3	3.0	O K
240 min Winter	93.289	43.789	0.3	0.0	0.3	3.1	O K
360 min Winter	94.983	45.483	0.3	0.0	0.3	3.2	O K
480 min Winter	96.202	46.702	0.3	0.0	0.3	3.3	O K
600 min Winter	97.138	47.638	0.3	0.0	0.3	3.4	O K
720 min Winter	97.885	48.385	0.3	0.0	0.3	3.4	O K
960 min Winter	99.062	49.562	0.3	0.0	0.3	3.5	O K
1440 min Winter	99.603	50.103	0.3	0.0	0.4	3.7	O K
2160 min Winter	99.606	50.106	0.3	0.0	0.4	3.7	O K
2880 min Winter	99.607	50.107	0.3	0.0	0.4	3.7	O K
4320 min Winter	99.607	50.107	0.3	0.0	0.4	3.7	O K
5760 min Winter	99.608	50.108	0.3	0.0	0.4	3.7	O K
7200 min Winter	99.608	50.108	0.3	0.0	0.4	3.7	O K
8640 min Winter	99.608	50.108	0.3	0.0	0.4	3.7	O K
10080 min Winter	99.607	50.107	0.3	0.0	0.4	3.7	O K

Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Overflow Volume (m³)	Time-Peak (mins)
8640 min Summer	1.255	0.0	0.8	8256
10080 min Summer	1.111	0.0	0.5	9240
15 min Winter	127.517	0.0	0.0	978
30 min Winter	85.701	0.0	0.0	987
60 min Winter	54.957	0.0	0.0	1004
120 min Winter	34.010	0.0	0.0	1034
180 min Winter	25.295	0.0	0.0	1082
240 min Winter	20.351	0.0	0.0	1090
360 min Winter	14.971	0.0	0.0	1128
480 min Winter	12.028	0.0	0.0	1188
600 min Winter	10.141	0.0	0.0	1196
720 min Winter	8.817	0.0	0.0	1222
960 min Winter	7.063	0.0	0.0	1426
1440 min Winter	5.157	0.0	0.3	1656
2160 min Winter	3.757	0.0	1.5	1944
2880 min Winter	2.997	0.0	2.8	2944
4320 min Winter	2.176	0.0	3.6	4300
5760 min Winter	1.731	0.0	6.2	5496
7200 min Winter	1.449	0.0	6.9	7120
8640 min Winter	1.255	0.0	7.2	8496
10080 min Winter	1.111	0.0	6.6	10128

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Cascade Model Details for Deep Borehole Soakaway 2.SRCX

Storage is Online Cover Level (m) 100.000

Deep Bore Soakaway Structure

Chamber Invert Level (m) 99.500 Infiltration Coefficient Base (m/hr) 0.05328
Chamber Diameter/Length (m) 1.200 Safety Factor 2.0
Borehole Diameter (m) 0.300
Borehole Depth (m) 50.000

Side		Side	
Depth	Infil.	Depth	Infil.
(m)	Coef.	(m)	Coef.
	(m/hr)		(m/hr)
0.000	0.05328	50.000	0.05328

Orifice Overflow Control

Diameter (m) 0.150 Discharge Coefficient 0.600 Invert Level (m) 99.600

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<u>Cascade Summary of Results for Deep Borehole Soakaway 3.SRCX</u>				
Upstream Structures		Outflow To Overflow To		
Deep Borehole Soakaway 2.SRCX		(None)		(None)
Deep Borehole Soakaway.SRCX				
Pond.SRCX				
Half Drain Time : 111 minutes.				
Storm Event	Max Level (m)	Max Depth (m)	Max Infiltration (l/s)	Max Volume (m³) Status
15 min Summer	49.500	0.000	0.0	0.0 O K
30 min Summer	49.500	0.000	0.0	0.0 O K
60 min Summer	49.500	0.000	0.0	0.0 O K
120 min Summer	49.500	0.000	0.0	0.0 O K
180 min Summer	49.500	0.000	0.0	0.0 O K
240 min Summer	49.500	0.000	0.0	0.0 O K
360 min Summer	49.500	0.000	0.0	0.0 O K
480 min Summer	49.500	0.000	0.0	0.0 O K
600 min Summer	49.500	0.000	0.0	0.0 O K
720 min Summer	49.500	0.000	0.0	0.0 O K
960 min Summer	49.500	0.000	0.0	0.0 O K
1440 min Summer	49.500	0.000	0.0	0.0 O K
2160 min Summer	49.500	0.000	0.0	0.0 O K
2880 min Summer	49.804	0.304	0.0	0.0 O K
4320 min Summer	50.631	1.131	0.0	0.1 O K
5760 min Summer	50.761	1.261	0.0	0.1 O K
Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Time-Peak (mins)	
15 min Summer	127.517	0.0	0	
30 min Summer	85.701	0.0	0	
60 min Summer	54.957	0.0	0	
120 min Summer	34.010	0.0	0	
180 min Summer	25.295	0.0	0	
240 min Summer	20.351	0.0	0	
360 min Summer	14.971	0.0	0	
480 min Summer	12.028	0.0	0	
600 min Summer	10.141	0.0	0	
720 min Summer	8.817	0.0	0	
960 min Summer	7.063	0.0	0	
1440 min Summer	5.157	0.0	0	
2160 min Summer	3.757	0.0	0	
2880 min Summer	2.997	0.0	3268	
4320 min Summer	2.176	0.0	4416	
5760 min Summer	1.731	0.0	5800	
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<u>Cascade Summary of Results for Deep Borehole Soakaway 3.SRCX</u>					
Storm Event	Max Level (m)	Max Depth (m)	Max Infiltration (l/s)	Max Volume (m³)	Status
7200 min Summer	50.597	1.097	0.0	0.1	O K
8640 min Summer	50.308	0.808	0.0	0.1	O K
10080 min Summer	49.997	0.497	0.0	0.0	O K
15 min Winter	49.500	0.000	0.0	0.0	O K
30 min Winter	49.500	0.000	0.0	0.0	O K
60 min Winter	49.500	0.000	0.0	0.0	O K
120 min Winter	49.500	0.000	0.0	0.0	O K
180 min Winter	49.500	0.000	0.0	0.0	O K
240 min Winter	49.500	0.000	0.0	0.0	O K
360 min Winter	49.500	0.000	0.0	0.0	O K
480 min Winter	49.500	0.000	0.0	0.0	O K
600 min Winter	49.500	0.000	0.0	0.0	O K
720 min Winter	49.500	0.000	0.0	0.0	O K
960 min Winter	49.500	0.000	0.0	0.0	O K
1440 min Winter	50.243	0.743	0.0	0.1	O K
2160 min Winter	51.717	2.217	0.0	0.2	O K
2880 min Winter	52.553	3.053	0.0	0.2	O K
4320 min Winter	53.363	3.863	0.0	0.3	O K
5760 min Winter	53.645	4.145	0.0	0.3	O K
7200 min Winter	53.644	4.144	0.0	0.3	O K
8640 min Winter	53.513	4.013	0.0	0.3	O K
Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Time-Peak (mins)		
7200 min Summer	1.449	0.0	7288		
8640 min Summer	1.255	0.0	8312		
10080 min Summer	1.111	0.0	9008		
15 min Winter	127.517	0.0	0		
30 min Winter	85.701	0.0	0		
60 min Winter	54.957	0.0	0		
120 min Winter	34.010	0.0	0		
180 min Winter	25.295	0.0	0		
240 min Winter	20.351	0.0	0		
360 min Winter	14.971	0.0	0		
480 min Winter	12.028	0.0	0		
600 min Winter	10.141	0.0	0		
720 min Winter	8.817	0.0	0		
960 min Winter	7.063	0.0	0		
1440 min Winter	5.157	0.0	1954		
2160 min Winter	3.757	0.0	2432		
2880 min Winter	2.997	0.0	3028		
4320 min Winter	2.176	0.0	4376		
5760 min Winter	1.731	0.0	5752		
7200 min Winter	1.449	0.0	7072		
8640 min Winter	1.255	0.0	8448		
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Date 21/06/2022 File Cascade.CASX	Designed by S.Smith Checked by CP	
Innovyze	Source Control 2020.1	

Cascade Summary of Results for Deep Borehole Soakaway 3.SRCX

Storm Event	Max Level (m)	Max Depth (m)	Max Infiltration (l/s)	Max Volume (m ³)	Status
10080 min Winter	53.261	3.761	0.0	0.3	O K

Storm Event	Rain (mm/hr)	Flooded Volume (m ³)	Time-Peak (mins)
10080 min Winter	1.111	0.0	9744

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Monarch House Barton Lane OX14 3NB	Phase 2 Manor Farm Bedhampton Pond + Boreholes	
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Innovyze	Source Control 2020.1	

Cascade Model Details for Deep Borehole Soakaway 3.SRCX

Storage is Online Cover Level (m) 100.000

Deep Bore Soakaway Structure

Chamber Invert Level (m) 99.500 Infiltration Coefficient Base (m/hr) 0.05328
Chamber Diameter/Length (m) 1.200 Safety Factor 2.0
Borehole Diameter (m) 0.300
Borehole Depth (m) 50.000

Side		Side	
Depth	Infil.	Depth	Infil.
(m)	Coef.	(m)	Coef.
	(m/hr)		(m/hr)
0.000	0.05328	50.000	0.05328