

C-04841-C
Wykham Park Farm



Date 26/01/2021 14:27

Designed by Monika Fanczal

File WPF-HYD-XX-XX-CA-C-0001 (2019.11.01).pdf.mdx

Checked by Sean Mitchinson

Innovyze

Network 2018.1.1

STORM SEWER DESIGN by the Modified Rational Method

Network Design Table for S Net 2 Catch 2

« - Indicates pipe capacity < flow

PN	Length (m)	Fall (m)	Slope (1:X)	I.Area (ha)	T.E. (mins)	Base Flow (l/s)	k (mm)	HYD SECT	DIA (mm)	Section Type	Auto Design
S1.000	53.969	0.174	310.2	0.238	5.00	0.0	0.600	o	375	Pipe/Conduit	🔒
S1.001	67.896	0.170	399.4	0.238	0.00	0.0	0.600	o	450	Pipe/Conduit	🔒
S1.002	52.057	0.495	105.2	0.024	0.00	0.0	0.600	o	450	Pipe/Conduit	🔒
S2.000	116.115	0.340	341.5	0.476	5.00	0.0	0.600	o	525	Pipe/Conduit	🔒
S1.003	80.517	3.185	25.3	0.080	0.00	0.0	0.600	o	600	Pipe/Conduit	🔒
S3.000	105.499	2.615	40.3	0.238	5.00	0.0	0.600	o	300	Pipe/Conduit	🔒
S3.001	14.331	0.041	349.5	0.238	0.00	0.0	0.600	o	450	Pipe/Conduit	🔒
S1.004	80.710	0.116	695.8	0.493	0.00	0.0	0.600	o	600	Pipe/Conduit	🔒
S1.005	29.570	0.071	416.5	0.119	0.00	0.0	0.600	o	750	Pipe/Conduit	🔒

Network Results Table

PN	Rain (mm/hr)	T.C. (mins)	US/IL (m)	Σ I.Area (ha)	Σ Base Flow (l/s)	Foul (l/s)	Add Flow (l/s)	Vel (m/s)	Cap (l/s)	Flow (l/s)
S1.000	50.00	5.88	125.649	0.238	0.0	0.0	0.0	1.02	113.0	32.2
S1.001	50.00	7.00	125.400	0.476	0.0	0.0	0.0	1.01	160.8	64.5
S1.002	50.00	7.44	125.230	0.500	0.0	0.0	0.0	1.98	315.3	67.7
S2.000	50.00	6.60	125.000	0.476	0.0	0.0	0.0	1.21	261.1	64.5
S1.003	50.00	7.71	124.585	1.056	0.0	0.0	0.0	4.86	1373.2	143.0
S3.000	50.00	5.71	124.356	0.238	0.0	0.0	0.0	2.48	175.5	32.2
S3.001	50.00	5.93	121.591	0.476	0.0	0.0	0.0	1.08	172.0	64.5
S1.004	50.00	9.18	121.400	2.025	0.0	0.0	0.0	0.92	258.9«	274.2
S1.005	50.00	9.54	121.048	2.144	0.0	0.0	0.0	1.36	603.0	290.3

C-04841-C
Wykham Park Farm



Date 26/01/2021 14:27

Designed by Monika Fanczal

File WPF-HYD-XX-XX-CA-C-0001 (2019.11.01).pdf.mdx

Checked by Sean Mitchinson

Innovyze

Network 2018.1.1

STORM SEWER DESIGN by the Modified Rational Method

Network Design Table for S Net 2 Catch 2

PN	Length (m)	Fall (m)	Slope (1:X)	I.Area (ha)	T.E. (mins)	Base Flow (l/s)	k (mm)	HYD SECT	DIA (mm)	Section Type	Auto Design
S4.000	68.306	2.176	31.4	0.096	5.00	0.0	0.600	o	225	Pipe/Conduit	🔒
S1.006	37.683	0.092	409.6	0.060	0.00	0.0	0.600	o	750	Pipe/Conduit	🔒
S1.007	74.163	0.185	400.9	0.320	0.00	0.0	0.600	o	750	Pipe/Conduit	🔒
S1.008	110.516	0.276	400.4	0.000	0.00	0.0	0.600	o	750	Pipe/Conduit	🔒
S1.009	22.731	0.124	183.3	0.000	0.00	0.0	0.600	o	750	Pipe/Conduit	🔒
S1.010	43.856	0.200	219.3	0.000	0.00	0.0	0.600	o	750	Pipe/Conduit	🔒
S1.011	17.381	0.116	150.0	0.000	0.00	0.0	0.600	o	225	Pipe/Conduit	🔒
S1.012	81.589	0.544	150.0	0.000	0.00	0.0	0.600	o	225	Pipe/Conduit	🔒
S1.013	110.864	0.739	150.0	0.000	0.00	0.0	0.600	o	225	Pipe/Conduit	🔒
S1.014	23.666	0.652	36.3	0.000	0.00	0.0	0.600	o	225	Pipe/Conduit	🔒

Network Results Table

PN	Rain (mm/hr)	T.C. (mins)	US/IL (m)	E I.Area (ha)	E Base Flow (l/s)	Foul (l/s)	Add Flow (l/s)	Vel (m/s)	Cap (l/s)	Flow (l/s)
S4.000	50.00	5.49	123.678	0.096	0.0	0.0	0.0	2.34	93.2	13.0
S1.006	50.00	10.00	120.977	2.300	0.0	0.0	0.0	1.38	608.1	311.4
S1.007	50.00	10.89	120.885	2.620	0.0	0.0	0.0	1.39	614.7	354.8
S1.008	50.00	12.21	120.700	2.620	0.0	0.0	0.0	1.39	615.1	354.8
S1.009	50.00	12.39	120.424	2.620	0.0	0.0	0.0	2.06	911.7	354.8
S1.010	50.00	12.78	120.300	2.620	0.0	0.0	0.0	1.89	833.1	354.8
S1.011	50.00	13.05	120.100	2.620	0.0	0.0	0.0	1.07	42.4«	354.8
S1.012	50.00	14.33	119.984	2.620	0.0	0.0	0.0	1.07	42.4«	354.8
S1.013	50.00	16.06	119.440	2.620	0.0	0.0	0.0	1.07	42.4«	354.8
S1.014	50.00	16.25	118.701	2.620	0.0	0.0	0.0	2.18	86.6«	354.8

C-04841-C
Wykham Park Farm



Date 26/01/2021 14:27

Designed by Monika Fanczal

File WPF-HYD-XX-XX-CA-C-0001 (2019.11.01).pdf.mdx

Checked by Sean Mitchinson

Innovyze

Network 2018.1.1

Area Summary for S Net 2 Catch 2

Pipe Number	PIMP Type	PIMP Name	PIMP (%)	Gross Area (ha)	Imp. Area (ha)	Pipe Total (ha)
1.000	-	-	100	0.238	0.238	0.238
1.001	-	-	100	0.238	0.238	0.238
1.002	-	-	100	0.024	0.024	0.024
2.000	-	-	100	0.476	0.476	0.476
1.003	-	-	100	0.080	0.080	0.080
3.000	-	-	100	0.238	0.238	0.238
3.001	-	-	100	0.238	0.238	0.238
1.004	-	-	100	0.493	0.493	0.493
1.005	-	-	100	0.119	0.119	0.119
4.000	-	-	100	0.096	0.096	0.096
1.006	-	-	100	0.060	0.060	0.060
1.007	-	-	100	0.320	0.320	0.320
1.008	-	-	100	0.000	0.000	0.000
1.009	-	-	100	0.000	0.000	0.000
1.010	-	-	100	0.000	0.000	0.000
1.011	-	-	100	0.000	0.000	0.000
1.012	-	-	100	0.000	0.000	0.000
1.013	-	-	100	0.000	0.000	0.000
1.014	-	-	100	0.000	0.000	0.000
				Total	Total	Total
				2.620	2.620	2.620

Free Flowing Outfall Details for S Net 2 Catch 2

Outfall Pipe Number	Outfall Name	C. Level (m)	I. Level (m)	Min I. Level (m)	D, L (mm)	W (mm)
S1.014	SHW15	119.950	118.049	0.000	0	0

C-04841-C
Wykham Park Farm



Date 26/01/2021 14:27

Designed by Monika Fanczal

File WPF-HYD-XX-XX-CA-C-0001 (2019.11.01).pdf.mdx

Checked by Sean Mitchinson

Innovyze

Network 2018.1.1

Simulation Criteria for S Net 2 Catch 2

Volumetric Runoff Coeff	0.750	Manhole Headloss Coeff (Global)	0.500	Inlet Coeffiecient	0.800
Areal Reduction Factor	1.000	Foul Sewage per hectare (l/s)	0.000	Flow per Person per Day (l/per/day)	0.000
Hot Start (mins)	0	Additional Flow - % of Total Flow	0.000	Run Time (mins)	60
Hot Start Level (mm)	0	MADD Factor * 10m ³ /ha Storage	2.000	Output Interval (mins)	1

Number of Input Hydrographs 0 Number of Offline Controls 0 Number of Time/Area Diagrams 0
Number of Online Controls 1 Number of Storage Structures 1 Number of Real Time Controls 0

Synthetic Rainfall Details

Rainfall Model	FSR	M5-60 (mm)	19.700	Cv (Summer)	0.750
Return Period (years)	100	Ratio R	0.408	Cv (Winter)	0.840
Region England and Wales Profile Type			Summer Storm Duration (mins)	30	

C-04841-C
Wykham Park Farm



Date 26/01/2021 14:27

Designed by Monika Fanczal

File WPF-HYD-XX-XX-CA-C-0001 (2019.11.01).pdf.mdx

Checked by Sean Mitchinson

Innovyze

Network 2018.1.1

Online Controls for S Net 2 Catch 2

Hydro-Brake® Optimum Manhole: S57, DS/PN: S1.012, Volume (m³): 14.0

Unit Reference	MD-SHE-0084-5000-2800-5000	Sump Available	Yes
Design Head (m)	2.800	Diameter (mm)	84
Design Flow (l/s)	5.0	Invert Level (m)	119.984
Flush-Flo™	Calculated	Minimum Outlet Pipe Diameter (mm)	100
Objective	Minimise upstream storage	Suggested Manhole Diameter (mm)	1200
Application	Surface		

Control Points	Head (m)	Flow (l/s)	Control Points	Head (m)	Flow (l/s)
Design Point (Calculated)	2.800	5.0	Kick-Flo®	0.756	2.7
Flush-Flo™	0.371	3.4	Mean Flow over Head Range	-	3.7

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)	Depth (m)	Flow (l/s)	Depth (m)	Flow (l/s)
0.100	2.5	0.600	3.2	1.600	3.9	2.600	4.8	5.000	6.6	7.500	8.0
0.200	3.2	0.800	2.8	1.800	4.1	3.000	5.2	5.500	6.9	8.000	8.2
0.300	3.4	1.000	3.1	2.000	4.3	3.500	5.5	6.000	7.2	8.500	8.4
0.400	3.4	1.200	3.4	2.200	4.5	4.000	5.9	6.500	7.4	9.000	8.7
0.500	3.3	1.400	3.6	2.400	4.7	4.500	6.2	7.000	7.7	9.500	8.9

C-04841-C
Wykham Park Farm



Date 26/01/2021 14:27

Designed by Monika Fanczal

File WPF-HYD-XX-XX-CA-C-0001 (2019.11.01).pdf.mdx

Checked by Sean Mitchinson

Innovyze

Network 2018.1.1

Storage Structures for S Net 2 Catch 2

Tank or Pond Manhole: SHW14, DS/PN: S1.011

Invert Level (m) 120.100

Depth (m)	Area (m ²)	Depth (m)	Area (m ²)	Depth (m)	Area (m ²)	Depth (m)	Area (m ²)	Depth (m)	Area (m ²)	Depth (m)	Area (m ²)	Depth (m)	Area (m ²)
0.000	300.0	1.600	992.3	3.200	2086.6	4.800	3583.1	6.400	5481.8	8.000	7782.5	9.600	10485.4
0.400	435.4	2.000	1228.2	3.600	2423.1	5.200	4020.1	6.800	6019.3	8.400	8420.6	10.000	11224.0
0.800	595.9	2.400	1489.2	4.000	2784.6	5.600	4482.2	7.200	6581.9	8.800	9083.7		
1.200	781.5	2.800	1775.3	4.400	3171.3	6.000	4969.4	7.600	7169.6	9.200	9772.0		

C-04841-C
Wykham Park Farm



Date 26/01/2021 14:27

Designed by Monika Fanczal

File WPF-HYD-XX-XX-CA-C-0001 (2019.11.01).pdf.mdx

Checked by Sean Mitchinson

Innovyze

Network 2018.1.1

1 year Return Period Summary of Critical Results by Maximum Level (Rank 1) for S Net 2 Catch 2

Simulation Criteria

Areal Reduction Factor 1.000 Manhole Headloss Coeff (Global) 0.500 MADD Factor * 10m³/ha Storage 2.000
Hot Start (mins) 0 Foul Sewage per hectare (l/s) 0.000 Inlet Coefficient 0.800
Hot Start Level (mm) 0 Additional Flow - % of Total Flow 0.000 Flow per Person per Day (l/per/day) 0.000

Number of Input Hydrographs 0 Number of Offline Controls 0 Number of Time/Area Diagrams 0
Number of Online Controls 1 Number of Storage Structures 1 Number of Real Time Controls 0

Synthetic Rainfall Details

Rainfall Model FSR M5-60 (mm) 19.700 Cv (Summer) 0.750
Region England and Wales Ratio R 0.408 Cv (Winter) 0.840

Margin for Flood Risk Warning (mm) 450.0 DVD Status ON
Analysis Timestep 2.5 Second Increment (Extended) Inertia Status ON
DTS Status OFF

Profile(s) Summer and Winter
Duration(s) (mins) 15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440, 2160
Return Period(s) (years) 1, 30, 100
Climate Change (%) 0, 0, 40

PN	US/MH Name	Storm	Return Period	Climate Change	First (X) Surcharge	First (Y) Flood	First (Z) Overflow	Overflow Act.	Water			Surcharged		Flooded		Pipe	
									Level (m)	Depth (m)	Volume (m ³)	Flow / Cap.	Overflow (l/s)	Flow (l/s)	Status	Level Exceeded	
S1.000	SL 15	Winter	1	+0%	100/15	Summer		125.793	-0.231	0.000	0.30		31.5	OK			
S1.001	SL 15	Winter	1	+0%	100/15	Summer		125.595	-0.255	0.000	0.37		55.8	OK			
S1.002	S48 15	Winter	1	+0%				125.367	-0.313	0.000	0.20		57.9	OK			
S2.000	SL 15	Winter	1	+0%	100/15	Summer		125.184	-0.341	0.000	0.26		63.2	OK			
S1.003	S49 15	Winter	1	+0%				124.712	-0.473	0.000	0.10		126.9	OK			
S3.000	S6 15	Winter	1	+0%	100/15	Summer		124.445	-0.211	0.000	0.19		32.0	OK			
S3.001	S6 15	Winter	1	+0%	30/15	Summer		121.892	-0.149	0.000	0.46		55.9	OK			
S1.004	S50 15	Winter	1	+0%	30/15	Summer		121.872	-0.128	0.000	0.92		218.6	OK			
S1.005	S51 15	Winter	1	+0%	30/15	Winter		121.438	-0.360	0.000	0.48		225.2	OK			
S4.000	S52 15	Winter	1	+0%				123.735	-0.168	0.000	0.14		13.1	OK			
S1.006	S53 15	Winter	1	+0%	100/15	Summer		121.356	-0.371	0.000	0.48		234.1	OK			
S1.007	S54 15	Winter	1	+0%	30/960	Winter		121.246	-0.389	0.000	0.46		250.0	OK			
S1.008	S55 15	Winter	1	+0%	30/240	Winter		121.046	-0.404	0.000	0.42		238.3	OK			

C-04841-C
Wykham Park Farm



Date 26/01/2021 14:27

Designed by Monika Fanczal

File WPF-HYD-XX-XX-CA-C-0001 (2019.11.01).pdf.mdx

Checked by Sean Mitchinson

Innovyze

Network 2018.1.1

1 year Return Period Summary of Critical Results by Maximum Level (Rank 1) for S Net 2 Catch 2

PN	US/MH		Return Period	Climate Change	First (X) Surcharge	First (Y) Flood	First (Z) Overflow	Overflow Act.	Water	Surcharged	Flooded	Pipe		Status	Level Exceeded
	Name	Storm							Level (m)	Depth (m)	Volume (m ³)	Flow / Overflow Cap. (l/s)	Flow (l/s)		
S1.009	S56	960 Winter	1	+0%	30/60 Winter			120.954	-0.220	0.000	0.04	24.9		OK	
S1.010	SHW13	960 Winter	1	+0%	30/30 Summer			120.954	-0.096	0.000	0.04	24.2		OK	
S1.011	SHW14	960 Winter	1	+0%	1/15 Summer			120.952	0.627	0.000	0.09	3.4	SURCHARGED		
S1.012	S57	960 Winter	1	+0%	1/15 Summer			120.946	0.737	0.000	0.08	3.3	SURCHARGED		
S1.013	S58	2160 Winter	1	+0%				119.482	-0.183	0.000	0.08	3.3		OK	
S1.014	S59	2160 Summer	1	+0%				118.730	-0.196	0.000	0.04	3.3		OK	

C-04841-C
Wykham Park Farm



Date 26/01/2021 14:27

Designed by Monika Fanczal

File WPF-HYD-XX-XX-CA-C-0001 (2019.11.01).pdf.mdx

Checked by Sean Mitchinson

Innovyze

Network 2018.1.1

30 year Return Period Summary of Critical Results by Maximum Level (Rank 1) for S Net 2 Catch 2

Simulation Criteria

Areal Reduction Factor 1.000 Manhole Headloss Coeff (Global) 0.500 MADD Factor * 10m³/ha Storage 2.000
Hot Start (mins) 0 Foul Sewage per hectare (l/s) 0.000 Inlet Coefficient 0.800
Hot Start Level (mm) 0 Additional Flow - % of Total Flow 0.000 Flow per Person per Day (l/per/day) 0.000

Number of Input Hydrographs 0 Number of Offline Controls 0 Number of Time/Area Diagrams 0
Number of Online Controls 1 Number of Storage Structures 1 Number of Real Time Controls 0

Synthetic Rainfall Details

Rainfall Model FSR M5-60 (mm) 19.700 Cv (Summer) 0.750
Region England and Wales Ratio R 0.408 Cv (Winter) 0.840

Margin for Flood Risk Warning (mm) 450.0 DVD Status ON
Analysis Timestep 2.5 Second Increment (Extended) Inertia Status ON
DTS Status OFF

Profile(s) Summer and Winter
Duration(s) (mins) 15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440, 2160
Return Period(s) (years) 1, 30, 100
Climate Change (%) 0, 0, 40

PN	US/MH Name	Storm	Return Period	Climate Change	First (X) Surchage	First (Y) Flood	First (Z) Overflow	Overflow Act.	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m ³)	Flow / Overflow Cap. (l/s)	Pipe Flow (l/s)	Status	Level Exceeded
S1.000	SL	15 Winter	30	+0%	100/15 Summer				125.898	-0.126	0.000	0.74	77.4	OK	
S1.001	SL	15 Winter	30	+0%	100/15 Summer				125.782	-0.068	0.000	0.97	144.5	OK	
S1.002	S48	15 Winter	30	+0%					125.461	-0.219	0.000	0.52	148.3	OK	
S2.000	SL	15 Winter	30	+0%	100/15 Summer				125.311	-0.214	0.000	0.58	144.2	OK	
S1.003	S49	15 Winter	30	+0%					124.787	-0.398	0.000	0.25	308.5	OK	
S3.000	S6	15 Winter	30	+0%	100/15 Summer				124.502	-0.154	0.000	0.46	78.4	OK	
S3.001	S6	15 Winter	30	+0%	30/15 Summer				122.632	0.591	0.000	1.20	144.6	SURCHARGED	
S1.004	S50	15 Winter	30	+0%	30/15 Summer				122.582	0.582	0.000	2.28	541.1	SURCHARGED	
S1.005	S51	15 Winter	30	+0%	30/15 Winter				121.828	0.030	0.000	1.15	534.4	SURCHARGED	
S4.000	S52	15 Winter	30	+0%					123.772	-0.131	0.000	0.35	31.9	OK	
S1.006	S53	15 Winter	30	+0%	100/15 Summer				121.727	0.000	0.000	1.11	543.6	OK	
S1.007	S54	1440 Winter	30	+0%	30/960 Winter				121.666	0.031	0.000	0.07	40.5	SURCHARGED	
S1.008	S55	1440 Winter	30	+0%	30/240 Winter				121.666	0.216	0.000	0.07	40.5	SURCHARGED	

C-04841-C
Wykham Park Farm



Date 26/01/2021 14:27

Designed by Monika Fanczal

File WPF-HYD-XX-XX-CA-C-0001 (2019.11.01).pdf.mdx

Checked by Sean Mitchinson

Innovyze

Network 2018.1.1

30 year Return Period Summary of Critical Results by Maximum Level (Rank 1) for S Net 2 Catch 2

PN	US/MH		Return Period	Climate Change	First (X) Surcharge	First (Y) Flood	First (Z) Overflow	Overflow Act.	Water	Surcharged	Flooded	Pipe		Level Exceeded
	Name	Storm							Level (m)	Depth (m)	Volume (m ³)	Flow / Overflow Cap. (l/s)	Flow (l/s)	
S1.009	S56	1440	Winter	30	+0%	30/60	Winter	121.666	0.492	0.000	0.07	40.6	SURCHARGED	
S1.010	SHW13	1440	Winter	30	+0%	30/30	Summer	121.665	0.615	0.000	0.06	40.3	SURCHARGED	
S1.011	SHW14	1440	Winter	30	+0%	1/15	Summer	121.666	1.341	0.000	0.10	3.9	SURCHARGED	
S1.012	S57	1440	Winter	30	+0%	1/15	Summer	121.658	1.449	0.000	0.10	3.9	SURCHARGED	
S1.013	S58	1440	Winter	30	+0%			119.486	-0.179	0.000	0.09	3.9	OK	
S1.014	S59	1440	Winter	30	+0%			118.733	-0.193	0.000	0.05	3.9	OK	

C-04841-C
Wykham Park Farm



Date 26/01/2021 14:27

Designed by Monika Fanczal

File WPF-HYD-XX-XX-CA-C-0001 (2019.11.01).pdf.mdx

Checked by Sean Mitchinson

Innovyze

Network 2018.1.1

100 year Return Period Summary of Critical Results by Maximum Level (Rank 1) for S Net 2 Catch 2

Simulation Criteria

Areal Reduction Factor 1.000 Manhole Headloss Coeff (Global) 0.500 MADD Factor * 10m³/ha Storage 2.000
Hot Start (mins) 0 Foul Sewage per hectare (l/s) 0.000 Inlet Coefficient 0.800
Hot Start Level (mm) 0 Additional Flow - % of Total Flow 0.000 Flow per Person per Day (l/per/day) 0.000

Number of Input Hydrographs 0 Number of Offline Controls 0 Number of Time/Area Diagrams 0
Number of Online Controls 1 Number of Storage Structures 1 Number of Real Time Controls 0

Synthetic Rainfall Details

Rainfall Model FSR M5-60 (mm) 19.700 Cv (Summer) 0.750
Region England and Wales Ratio R 0.408 Cv (Winter) 0.840

Margin for Flood Risk Warning (mm) 450.0 DVD Status ON
Analysis Timestep 2.5 Second Increment (Extended) Inertia Status ON
DTS Status OFF

Profile(s) Summer and Winter
Duration(s) (mins) 15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440, 2160
Return Period(s) (years) 1, 30, 100
Climate Change (%) 0, 0, 40

PN	US/MH Name	Storm	Return Period	Climate Change	First (X) Surchage	First (Y) Flood	First (Z) Overflow	Overflow Act.	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m ³)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)	Status	Level Exceeded
S1.000	SL	15 Winter	100	+40%	100/15 Summer				126.590	0.566	0.000	1.31		137.3	SURCHARGED	
S1.001	SL	15 Winter	100	+40%	100/15 Summer				126.268	0.418	0.000	1.72		257.4	SURCHARGED	
S1.002	S48	15 Winter	100	+40%					125.569	-0.111	0.000	0.91		262.7	OK	
S2.000	SL	15 Winter	100	+40%	100/15 Summer				125.643	0.118	0.000	1.06		262.3	SURCHARGED	
S1.003	S49	15 Winter	100	+40%					124.977	-0.208	0.000	0.42		523.2	OK	
S3.000	S6	15 Winter	100	+40%	100/15 Summer				125.600	0.944	0.000	0.70		119.5	SURCHARGED	
S3.001	S6	15 Winter	100	+40%	30/15 Summer				124.604	2.563	0.000	1.66		201.2	FLOOD RISK	
S1.004	S50	15 Winter	100	+40%	30/15 Summer				124.524	2.524	0.000	3.48		827.8	SURCHARGED	
S1.005	S51	15 Winter	100	+40%	30/15 Winter				123.135	1.337	0.000	1.84		855.2	SURCHARGED	
S4.000	S52	15 Winter	100	+40%					123.812	-0.091	0.000	0.64		57.7	OK	
S1.006	S53	15 Winter	100	+40%	100/15 Summer				122.881	1.154	0.000	1.83		897.6	SURCHARGED	
S1.007	S54	30 Winter	100	+40%	30/960 Winter				122.613	0.978	0.000	1.68		915.5	SURCHARGED	
S1.008	S55	2160 Winter	100	+40%	30/240 Winter				122.512	1.062	0.000	0.09		52.0	SURCHARGED	

C-04841-C
Wykham Park Farm



Date 26/01/2021 14:27

Designed by Monika Fanczal

File WPF-HYD-XX-XX-CA-C-0001 (2019.11.01).pdf.mdx

Checked by Sean Mitchinson

Innovyze

Network 2018.1.1

100 year Return Period Summary of Critical Results by Maximum Level (Rank 1) for S Net 2 Catch 2

PN	US/MH		Return Period	Climate Change	First (X) Surcharge	First (Y) Flood	First (Z) Overflow	Overflow Act.	Water	Surcharged	Flooded	Pipe		Level Exceeded
	Name	Storm							Level (m)	Depth (m)	Volume (m ³)	Flow / Overflow Cap. (l/s)	Flow (l/s)	
S1.009	S56	2160	Winter	100	+40%	30/60	Winter	122.512	1.338	0.000	0.09	51.9	SURCHARGED	
S1.010	SHW13	2160	Winter	100	+40%	30/30	Summer	122.512	1.462	0.000	0.08	51.8	SURCHARGED	
S1.011	SHW14	2160	Winter	100	+40%	1/15	Summer	122.511	2.186	0.000	0.13	4.8	SURCHARGED	
S1.012	S57	2160	Winter	100	+40%	1/15	Summer	122.502	2.293	0.000	0.12	4.8	SURCHARGED	
S1.013	S58	2160	Winter	100	+40%			119.490	-0.175	0.000	0.11	4.8	OK	
S1.014	S59	2160	Winter	100	+40%			118.736	-0.190	0.000	0.06	4.8	OK	