

Mayer Brown Limited				Page 14			
Lion House		Hampton Park					
Oriental Road		South & East Central Wetland					
Woking, GU22 8AR		Surface Water Drainage					
Date 01/06/2021		Designed by SF					
File East of wetlands_Revise...		Checked by SF					
Innovyze		Network 2020.1					

Surcharged Outfall Details for Storm

Time (mins)	Depth (m)	Time (mins)	Depth (m)	Time (mins)	Depth (m)	Time (mins)	Depth (m)	Time (mins)	Depth (m)	Time (mins)	Depth (m)	Time (mins)	Depth (m)
497	1.800	510	1.800	523	1.800	536	1.800	549	1.800	562	1.800	575	1.800
498	1.800	511	1.800	524	1.800	537	1.800	550	1.800	563	1.800	576	1.800
499	1.800	512	1.800	525	1.800	538	1.800	551	1.800	564	1.800	577	1.800
500	1.800	513	1.800	526	1.800	539	1.800	552	1.800	565	1.800	578	1.800
501	1.800	514	1.800	527	1.800	540	1.800	553	1.800	566	1.800	579	1.800
502	1.800	515	1.800	528	1.800	541	1.800	554	1.800	567	1.800	580	1.800
503	1.800	516	1.800	529	1.800	542	1.800	555	1.800	568	1.800	581	1.800
504	1.800	517	1.800	530	1.800	543	1.800	556	1.800	569	1.800	582	1.800
505	1.800	518	1.800	531	1.800	544	1.800	557	1.800	570	1.800	583	1.800
506	1.800	519	1.800	532	1.800	545	1.800	558	1.800	571	1.800	584	1.800
507	1.800	520	1.800	533	1.800	546	1.800	559	1.800	572	1.800	585	1.800
508	1.800	521	1.800	534	1.800	547	1.800	560	1.800	573	1.800	586	1.800
509	1.800	522	1.800	535	1.800	548	1.800	561	1.800	574	1.800	587	1.800

Simulation Criteria for Storm

Volumetric Runoff Coeff	0.750	Additional Flow - % of Total Flow	0.000
Areal Reduction Factor	1.000	MADD Factor * 10m³/ha Storage	2.000
Hot Start (mins)	0	Inlet Coefficient	0.800
Hot Start Level (mm)	0	Flow per Person per Day (l/per/day)	0.000
Manhole Headloss Coeff (Global)	0.500	Run Time (mins)	60
Foul Sewage per hectare (l/s)	0.000	Output Interval (mins)	1

Number of Input Hydrographs	0	Number of Offline Controls	0	Number of Time/Area Diagrams	6
Number of Online Controls	4	Number of Storage Structures	2	Number of Real Time Controls	0

Synthetic Rainfall Details

Rainfall Model	FSR	Profile Type	Summer
Return Period (years)	100	Cv (Summer)	0.750
Region	England and Wales	Cv (Winter)	0.840
M5-60 (mm)	19.100	Storm Duration (mins)	30
Ratio R	0.350		

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Hydro-Brake® Optimum Manhole: MAV SW16(HB), DS/PN: 2.013, Volume (m³): 8.6																																																																											
Unit Reference Design Head (m) Design Flow (l/s) Flush-Flo™ Objective Application Sump Available Diameter (mm) Invert Level (m) Minimum Outlet Pipe Diameter (mm) Suggested Manhole Diameter (mm) MD-SHE-0318-6400-1700-6400 1.700 64.0 Calculated Minimise upstream storage Surface Yes 318 2.300 375 Site Specific Design (Contact Hydro International)																																																																											
Control Points Head (m) Flow (l/s) Control Points Head (m) Flow (l/s) <table><tr><td>Design Point (Calculated)</td><td>1.700</td><td>63.9</td><td>Kick-Flo®</td><td>1.205</td><td>54.1</td></tr><tr><td>Flush-Flo™</td><td>0.569</td><td>63.8</td><td>Mean Flow over Head Range</td><td>-</td><td>54.1</td></tr></table>						Design Point (Calculated)	1.700	63.9	Kick-Flo®	1.205	54.1	Flush-Flo™	0.569	63.8	Mean Flow over Head Range	-	54.1																																																										
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Hydro-Brake® Optimum Manhole: SW22(HB), DS/PN: 32.005, Volume (m³): 2.4																																																																											
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Control Points Head (m) Flow (l/s) Control Points Head (m) Flow (l/s) <table><tr><td>Design Point (Calculated)</td><td>1.800</td><td>120.0</td><td>Kick-Flo®</td><td>1.326</td><td>103.4</td></tr><tr><td>Flush-Flo™</td><td>0.672</td><td>120.0</td><td>Mean Flow over Head Range</td><td>-</td><td>99.6</td></tr></table>						Design Point (Calculated)	1.800	120.0	Kick-Flo®	1.326	103.4	Flush-Flo™	0.672	120.0	Mean Flow over Head Range	-	99.6																																																										
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<u>Hydro-Brake® Optimum Manhole: SW22 (HB), DS/PN: 32.005, Volume (m³): 2.4</u>							
Depth (m)	Flow (l/s)	Depth (m)	Flow (l/s)	Depth (m)	Flow (l/s)	Depth (m)	Flow (l/s)
7.500	241.0	8.000	248.7	8.500	256.2	9.000	263.5
9.500 270.6							
<u>Hydro-Brake® Optimum Manhole: SW9A (HB), DS/PN: 37.012, Volume (m³): 4.9</u>							
Unit Reference MD-CHE-0369-1000-1400-1000							
Design Head (m) 1.400							
Design Flow (l/s) 100.0							
Flush-Flo™ Calculated							
Objective Minimise upstream storage							
Application Surface							
Sump Available No							
Diameter (mm) 369							
Invert Level (m) 1.830							
Minimum Outlet Pipe Diameter (mm) 450							
Suggested Manhole Diameter (mm) 1800							
Control Points		Head (m)	Flow (l/s)	Control Points		Head (m)	Flow (l/s)
Design Point (Calculated)		1.400	99.9	Kick-Flo®		0.758	75.2
Flush-Flo™		0.590	99.9	Mean Flow over Head Range		-	72.5
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	8.5	0.800	76.2	2.000	119.0	4.000	167.4
0.200	30.0	1.000	84.7	2.200	124.8	4.500	177.4
0.300	56.4	1.200	92.6	2.400	130.2	5.000	186.8
0.400	77.0	1.400	99.9	2.600	135.4	5.500	195.8
0.500	93.2	1.600	106.7	3.000	145.3	6.000	204.3
0.600	99.7	1.800	113.0	3.500	156.7	6.500	212.5
9.500 256.1							
<u>Hydro-Brake® Optimum Manhole: P5 S48 (HB), DS/PN: 62.003, Volume (m³): 6.3</u>							
Unit Reference MD-SHE-0344-8000-2200-8000							
Design Head (m) 2.200							
Design Flow (l/s) 80.0							
Flush-Flo™ Calculated							
Objective Minimise upstream storage							
Application Surface							
Sump Available Yes							
Diameter (mm) 344							
Invert Level (m) 1.730							
Minimum Outlet Pipe Diameter (mm) 375							
Suggested Manhole Diameter (mm) Site Specific Design (Contact Hydro International)							
Control Points		Head (m)	Flow (l/s)	Control Points		Head (m)	Flow (l/s)
Design Point (Calculated)		2.200	80.0	Kick-Flo®		1.491	66.2
Flush-Flo™		0.683	79.9	Mean Flow over Head Range		-	68.5
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	10.0	0.300	63.6	0.500	78.6	0.800	79.6
0.200	34.9	0.400	76.2	0.600	79.7	1.000	78.2
1.200 75.7							
1.400 70.5							
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<u>Hydro-Brake® Optimum Manhole: P5 S48 (HB), DS/PN: 62.003, Volume (m³): 6.3</u>									
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)
1.600	68.5	2.400	83.4	4.000	106.9	6.000	130.2	8.000	149.9
1.800	72.6	2.600	86.7	4.500	113.2	6.500	135.4	8.500	154.4
2.000	76.3	3.000	92.9	5.000	119.2	7.000	140.4	9.000	158.8
2.200	80.0	3.500	100.2	5.500	124.8	7.500	145.2	9.500	163.0

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Synthetic Rainfall Details Rainfall ModelFEH Data TypeCatchment FEH Rainfall Version2013 Cv (Summer)0.750 Site LocationGB 502950 104450 TQ 02950 04450 Cv (Winter)0.840 Margin for Flood Risk Warning (mm)300.0 Analysis Timestep2.5 Second Increment (Extended) DTS StatusON DVD StatusON Inertia StatusOFF																																																																																																																																																																																																																																																																																																																																																											
Profile(s)Winter Duration(s) (mins)15, 30, 60, 120, 240, 360, 480, 960, 1440 Return Period(s) (years)30 Climate Change (%)0																																																																																																																																																																																																																																																																																																																																																											
<table><tr><th>PN</th><th>US/MH Name</th><th>Storm</th><th>Return Period</th><th>Climate Change</th><th>First (X) Surge</th><th>First (Y) Flood</th><th>First (Z) Overflow</th><th>Overflow Act.</th><th>Water Level (m)</th></tr><tr><td>1.000</td><td>Dummy MH</td><td>15 Winter</td><td>30</td><td>+0%</td><td></td><td></td><td></td><td></td><td>1.700</td></tr><tr><td>2.000</td><td>P6/5-SW1</td><td>15 Winter</td><td>30</td><td>+0%</td><td>30/15 Winter</td><td></td><td></td><td></td><td>4.032</td></tr><tr><td>2.001</td><td>P6/5-SW2</td><td>15 Winter</td><td>30</td><td>+0%</td><td>30/15 Winter</td><td></td><td></td><td></td><td>3.952</td></tr><tr><td>2.002</td><td>P6/5-SW3</td><td>15 Winter</td><td>30</td><td>+0%</td><td>30/15 Winter</td><td></td><td></td><td></td><td>3.484</td></tr><tr><td>2.003</td><td>Swale 5_HW1</td><td>60 Winter</td><td>30</td><td>+0%</td><td></td><td></td><td></td><td></td><td>3.269</td></tr><tr><td>3.000</td><td>P6/5-SW4</td><td>15 Winter</td><td>30</td><td>+0%</td><td>30/15 Winter</td><td></td><td></td><td></td><td>4.207</td></tr><tr><td>3.001</td><td>P6/5-SW5</td><td>15 Winter</td><td>30</td><td>+0%</td><td>30/15 Winter</td><td></td><td></td><td></td><td>4.138</td></tr><tr><td>3.002</td><td>P6/5-SW6</td><td>15 Winter</td><td>30</td><td>+0%</td><td>30/15 Winter</td><td></td><td></td><td></td><td>3.773</td></tr><tr><td>3.003</td><td>P6/5-SW7</td><td>60 Winter</td><td>30</td><td>+0%</td><td>30/15 Winter</td><td></td><td></td><td></td><td>3.346</td></tr><tr><td>4.000</td><td>P6/5-SW8</td><td>15 Winter</td><td>30</td><td>+0%</td><td>30/15 Winter</td><td></td><td></td><td></td><td>4.714</td></tr><tr><td>4.001</td><td>P6/5-SW9</td><td>15 Winter</td><td>30</td><td>+0%</td><td>30/15 Winter</td><td></td><td></td><td></td><td>4.594</td></tr><tr><td>4.002</td><td>P6/5-SW10</td><td>15 Winter</td><td>30</td><td>+0%</td><td>30/15 Winter</td><td></td><td></td><td></td><td>3.878</td></tr><tr><td>2.004</td><td>Swale 5_HW2</td><td>60 Winter</td><td>30</td><td>+0%</td><td></td><td></td><td></td><td></td><td>3.265</td></tr><tr><td>2.005</td><td>Swale 5_HW3</td><td>60 Winter</td><td>30</td><td>+0%</td><td>30/15 Winter</td><td></td><td></td><td></td><td>3.254</td></tr><tr><td>5.000</td><td>P6/6-SW11</td><td>15 Winter</td><td>30</td><td>+0%</td><td>30/15 Winter</td><td></td><td></td><td></td><td>3.284</td></tr><tr><td>6.000</td><td>P6/6-SW12</td><td>15 Winter</td><td>30</td><td>+0%</td><td></td><td></td><td></td><td></td><td>3.467</td></tr><tr><td>6.001</td><td>P6/6-SW13</td><td>15 Winter</td><td>30</td><td>+0%</td><td>30/15 Winter</td><td></td><td></td><td></td><td>3.398</td></tr><tr><td>2.006</td><td>P6/6-SW14</td><td>60 Winter</td><td>30</td><td>+0%</td><td>30/15 Winter</td><td></td><td></td><td></td><td>3.222</td></tr><tr><td>2.007</td><td>Swale 6_HW1</td><td>60 Winter</td><td>30</td><td>+0%</td><td></td><td></td><td></td><td></td><td>3.113</td></tr><tr><td>7.000</td><td>P6/6-SW15</td><td>15 Winter</td><td>30</td><td>+0%</td><td>30/15 Winter</td><td></td><td></td><td></td><td>4.980</td></tr><tr><td>7.001</td><td>P6/6-SW16</td><td>15 Winter</td><td>30</td><td>+0%</td><td>30/15 Winter</td><td></td><td></td><td></td><td>4.774</td></tr><tr><td>7.002</td><td>P6/6-SW17</td><td>15 Winter</td><td>30</td><td>+0%</td><td>30/15 Winter</td><td></td><td></td><td></td><td>3.796</td></tr><tr><td>8.000</td><td>P6/6-SW18</td><td>15 Winter</td><td>30</td><td>+0%</td><td>30/15 Winter</td><td></td><td></td><td></td><td>4.991</td></tr><tr><td>8.001</td><td>P6/6-SW19</td><td>15 Winter</td><td>30</td><td>+0%</td><td>30/15 Winter</td><td></td><td></td><td></td><td>4.887</td></tr><tr><td>8.002</td><td>P6/6-SW20</td><td>15 Winter</td><td>30</td><td>+0%</td><td>30/15 Winter</td><td></td><td></td><td></td><td>4.593</td></tr><tr><td>8.003</td><td>P6/6-SW21</td><td>15 Winter</td><td>30</td><td>+0%</td><td>30/15 Winter</td><td></td><td></td><td></td><td>3.614</td></tr><tr><td>2.008</td><td>Swale 6_HW2</td><td>60 Winter</td><td>30</td><td>+0%</td><td></td><td></td><td></td><td></td><td>3.096</td></tr><tr><td>2.009</td><td>Swale 6_HW3</td><td>60 Winter</td><td>30</td><td>+0%</td><td>30/15 Winter</td><td></td><td></td><td></td><td>3.083</td></tr><tr><td>9.000</td><td>P7/7-SW7</td><td>15 Winter</td><td>30</td><td>+0%</td><td>30/15 Winter</td><td></td><td></td><td></td><td>3.970</td></tr><tr><td>9.001</td><td>Swale 7 & Lake</td><td>480 Winter</td><td>30</td><td>+0%</td><td></td><td></td><td></td><td></td><td>2.930</td></tr><tr><td>10.000</td><td>P7/7-SW1</td><td>15 Winter</td><td>30</td><td>+0%</td><td>30/15 Winter</td><td></td><td></td><td></td><td>5.330</td></tr><tr><td>10.001</td><td>P7/7-SW2</td><td>15 Winter</td><td>30</td><td>+0%</td><td>30/15 Winter</td><td></td><td></td><td></td><td>5.055</td></tr><tr><td>11.000</td><td>P7/7-SW3</td><td>15 Winter</td><td>30</td><td>+0%</td><td>30/15 Winter</td><td></td><td></td><td></td><td>4.707</td></tr></table>								PN	US/MH Name	Storm	Return Period	Climate Change	First (X) Surge	First (Y) Flood	First (Z) Overflow	Overflow Act.	Water Level (m)	1.000	Dummy MH	15 Winter	30	+0%					1.700	2.000	P6/5-SW1	15 Winter	30	+0%	30/15 Winter				4.032	2.001	P6/5-SW2	15 Winter	30	+0%	30/15 Winter				3.952	2.002	P6/5-SW3	15 Winter	30	+0%	30/15 Winter				3.484	2.003	Swale 5_HW1	60 Winter	30	+0%					3.269	3.000	P6/5-SW4	15 Winter	30	+0%	30/15 Winter				4.207	3.001	P6/5-SW5	15 Winter	30	+0%	30/15 Winter				4.138	3.002	P6/5-SW6	15 Winter	30	+0%	30/15 Winter				3.773	3.003	P6/5-SW7	60 Winter	30	+0%	30/15 Winter				3.346	4.000	P6/5-SW8	15 Winter	30	+0%	30/15 Winter				4.714	4.001	P6/5-SW9	15 Winter	30	+0%	30/15 Winter				4.594	4.002	P6/5-SW10	15 Winter	30	+0%	30/15 Winter				3.878	2.004	Swale 5_HW2	60 Winter	30	+0%					3.265	2.005	Swale 5_HW3	60 Winter	30	+0%	30/15 Winter				3.254	5.000	P6/6-SW11	15 Winter	30	+0%	30/15 Winter				3.284	6.000	P6/6-SW12	15 Winter	30	+0%					3.467	6.001	P6/6-SW13	15 Winter	30	+0%	30/15 Winter				3.398	2.006	P6/6-SW14	60 Winter	30	+0%	30/15 Winter				3.222	2.007	Swale 6_HW1	60 Winter	30	+0%					3.113	7.000	P6/6-SW15	15 Winter	30	+0%	30/15 Winter				4.980	7.001	P6/6-SW16	15 Winter	30	+0%	30/15 Winter				4.774	7.002	P6/6-SW17	15 Winter	30	+0%	30/15 Winter				3.796	8.000	P6/6-SW18	15 Winter	30	+0%	30/15 Winter				4.991	8.001	P6/6-SW19	15 Winter	30	+0%	30/15 Winter				4.887	8.002	P6/6-SW20	15 Winter	30	+0%	30/15 Winter				4.593	8.003	P6/6-SW21	15 Winter	30	+0%	30/15 Winter				3.614	2.008	Swale 6_HW2	60 Winter	30	+0%					3.096	2.009	Swale 6_HW3	60 Winter	30	+0%	30/15 Winter				3.083	9.000	P7/7-SW7	15 Winter	30	+0%	30/15 Winter				3.970	9.001	Swale 7 & Lake	480 Winter	30	+0%					2.930	10.000	P7/7-SW1	15 Winter	30	+0%	30/15 Winter				5.330	10.001	P7/7-SW2	15 Winter	30	+0%	30/15 Winter				5.055	11.000	P7/7-SW3	15 Winter	30	+0%	30/15 Winter				4.707
PN	US/MH Name	Storm	Return Period	Climate Change	First (X) Surge	First (Y) Flood	First (Z) Overflow	Overflow Act.	Water Level (m)																																																																																																																																																																																																																																																																																																																																																		
1.000	Dummy MH	15 Winter	30	+0%					1.700																																																																																																																																																																																																																																																																																																																																																		
2.000	P6/5-SW1	15 Winter	30	+0%	30/15 Winter				4.032																																																																																																																																																																																																																																																																																																																																																		
2.001	P6/5-SW2	15 Winter	30	+0%	30/15 Winter				3.952																																																																																																																																																																																																																																																																																																																																																		
2.002	P6/5-SW3	15 Winter	30	+0%	30/15 Winter				3.484																																																																																																																																																																																																																																																																																																																																																		
2.003	Swale 5_HW1	60 Winter	30	+0%					3.269																																																																																																																																																																																																																																																																																																																																																		
3.000	P6/5-SW4	15 Winter	30	+0%	30/15 Winter				4.207																																																																																																																																																																																																																																																																																																																																																		
3.001	P6/5-SW5	15 Winter	30	+0%	30/15 Winter				4.138																																																																																																																																																																																																																																																																																																																																																		
3.002	P6/5-SW6	15 Winter	30	+0%	30/15 Winter				3.773																																																																																																																																																																																																																																																																																																																																																		
3.003	P6/5-SW7	60 Winter	30	+0%	30/15 Winter				3.346																																																																																																																																																																																																																																																																																																																																																		
4.000	P6/5-SW8	15 Winter	30	+0%	30/15 Winter				4.714																																																																																																																																																																																																																																																																																																																																																		
4.001	P6/5-SW9	15 Winter	30	+0%	30/15 Winter				4.594																																																																																																																																																																																																																																																																																																																																																		
4.002	P6/5-SW10	15 Winter	30	+0%	30/15 Winter				3.878																																																																																																																																																																																																																																																																																																																																																		
2.004	Swale 5_HW2	60 Winter	30	+0%					3.265																																																																																																																																																																																																																																																																																																																																																		
2.005	Swale 5_HW3	60 Winter	30	+0%	30/15 Winter				3.254																																																																																																																																																																																																																																																																																																																																																		
5.000	P6/6-SW11	15 Winter	30	+0%	30/15 Winter				3.284																																																																																																																																																																																																																																																																																																																																																		
6.000	P6/6-SW12	15 Winter	30	+0%					3.467																																																																																																																																																																																																																																																																																																																																																		
6.001	P6/6-SW13	15 Winter	30	+0%	30/15 Winter				3.398																																																																																																																																																																																																																																																																																																																																																		
2.006	P6/6-SW14	60 Winter	30	+0%	30/15 Winter				3.222																																																																																																																																																																																																																																																																																																																																																		
2.007	Swale 6_HW1	60 Winter	30	+0%					3.113																																																																																																																																																																																																																																																																																																																																																		
7.000	P6/6-SW15	15 Winter	30	+0%	30/15 Winter				4.980																																																																																																																																																																																																																																																																																																																																																		
7.001	P6/6-SW16	15 Winter	30	+0%	30/15 Winter				4.774																																																																																																																																																																																																																																																																																																																																																		
7.002	P6/6-SW17	15 Winter	30	+0%	30/15 Winter				3.796																																																																																																																																																																																																																																																																																																																																																		
8.000	P6/6-SW18	15 Winter	30	+0%	30/15 Winter				4.991																																																																																																																																																																																																																																																																																																																																																		
8.001	P6/6-SW19	15 Winter	30	+0%	30/15 Winter				4.887																																																																																																																																																																																																																																																																																																																																																		
8.002	P6/6-SW20	15 Winter	30	+0%	30/15 Winter				4.593																																																																																																																																																																																																																																																																																																																																																		
8.003	P6/6-SW21	15 Winter	30	+0%	30/15 Winter				3.614																																																																																																																																																																																																																																																																																																																																																		
2.008	Swale 6_HW2	60 Winter	30	+0%					3.096																																																																																																																																																																																																																																																																																																																																																		
2.009	Swale 6_HW3	60 Winter	30	+0%	30/15 Winter				3.083																																																																																																																																																																																																																																																																																																																																																		
9.000	P7/7-SW7	15 Winter	30	+0%	30/15 Winter				3.970																																																																																																																																																																																																																																																																																																																																																		
9.001	Swale 7 & Lake	480 Winter	30	+0%					2.930																																																																																																																																																																																																																																																																																																																																																		
10.000	P7/7-SW1	15 Winter	30	+0%	30/15 Winter				5.330																																																																																																																																																																																																																																																																																																																																																		
10.001	P7/7-SW2	15 Winter	30	+0%	30/15 Winter				5.055																																																																																																																																																																																																																																																																																																																																																		
11.000	P7/7-SW3	15 Winter	30	+0%	30/15 Winter				4.707																																																																																																																																																																																																																																																																																																																																																		
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Lion House Oriental Road Woking, GU22 8AR				Hampton Park South & East Central Wetland Surface Water Drainage					
Date 01/06/2021 File East of wetlands_Revise...				Designed by SF Checked by SF					
Innovyze				Network 2020.1					
<u>Summary of Critical Results by Maximum Level (Rank 1) for Storm</u>									
PN	US/MH Name	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Half Drain Time (mins)	Pipe Flow (l/s)	Status	Level Exceeded
1.000	Dummy MH	-0.150	0.000	0.00			0.0	OK	
2.000	P6/5-SW1	0.407	0.000	0.64			25.8	SURCHARGED	
2.001	P6/5-SW2	0.577	0.000	1.10			45.2	SURCHARGED	
2.002	P6/5-SW3	0.489	0.000	1.32			68.7	SURCHARGED	
2.003	Swale 5_HW1	-1.131	0.000	0.00			55.6	OK	
3.000	P6/5-SW4	0.582	0.000	0.62			25.0	FLOOD RISK	
3.001	P6/5-SW5	0.753	0.000	1.04			42.6	FLOOD RISK	
3.002	P6/5-SW6	0.718	0.000	1.59			64.1	SURCHARGED	
3.003	P6/5-SW7	0.511	0.000	0.95			44.2	SURCHARGED	
4.000	P6/5-SW8	0.789	0.000	0.65			29.5	SURCHARGED	
4.001	P6/5-SW9	0.969	0.000	1.32			56.4	SURCHARGED	
4.002	P6/5-SW10	0.653	0.000	1.31			84.7	SURCHARGED	
2.004	Swale 5_HW2	-1.135	0.000	0.00			68.1	OK	
2.005	Swale 5_HW3	0.379	0.000	1.99			69.3	SURCHARGED	
5.000	P6/6-SW11	0.119	0.000	0.92			44.9	SURCHARGED	
6.000	P6/6-SW12	-0.033	0.000	0.67			44.1	OK	
6.001	P6/6-SW13	0.128	0.000	0.95			73.4	SURCHARGED	
2.006	P6/6-SW14	0.247	0.000	0.80			99.4	SURCHARGED	
2.007	Swale 6_HW1	-1.287	0.000	0.01			108.8	OK	
7.000	P6/6-SW15	0.955	0.000	0.72			35.5	FLOOD RISK	
7.001	P6/6-SW16	1.139	0.000	1.09			64.4	FLOOD RISK	
7.002	P6/6-SW17	0.971	0.000	2.93			101.3	SURCHARGED	
8.000	P6/6-SW18	1.066	0.000	0.67			26.6	FLOOD RISK	
8.001	P6/6-SW19	1.192	0.000	1.35			53.1	FLOOD RISK	
8.002	P6/6-SW20	1.058	0.000	1.17			79.9	FLOOD RISK	
8.003	P6/6-SW21	0.789	0.000	2.59			108.7	SURCHARGED	
2.008	Swale 6_HW2	-1.304	0.000	0.01			194.0	OK	
2.009	Swale 6_HW3	0.208	0.000	1.67			171.4	SURCHARGED	
9.000	P7/7-SW7	0.745	0.000	1.57			72.2	SURCHARGED	
9.001	Swale 7 & Lake	-1.470	0.000	0.00			34.2	OK	
10.000	P7/7-SW1	1.130	0.000	0.68			59.7	FLOOD RISK	
10.001	P7/7-SW2	1.375	0.000	1.25			108.4	FLOOD RISK	
11.000	P7/7-SW3	0.507	0.000	0.57			66.8	SURCHARGED	
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Lion House Oriental Road Woking, GU22 8AR				Hampton Park South & East Central Wetland Surface Water Drainage					
Date 01/06/2021				Designed by SF					
File East of wetlands_Revise...				Checked by SF					
Innovyze				Network 2020.1					
Summary of Critical Results by Maximum Level (Rank 1) for Storm									
PN	US/MH Name	Storm	Return Period	Climate Change	First (X) Surcharge	First (Y) Flood	First (Z) Overflow	Overflow Act.	Water Level (m)
10.002	P7/7-SW4	15 Winter	30	+0%	30/15 Winter				4.435
12.000	P7/7-SW5	15 Winter	30	+0%					3.946
10.003	P7/7-SW6	15 Winter	30	+0%	30/15 Winter				3.573
9.002	Swale 7_HW2	360 Winter	30	+0%					2.930
2.010	Swale 7_HW3	360 Winter	30	+0%					2.930
13.000	P6/7-SW1	15 Winter	30	+0%	30/15 Winter				4.092
13.001	P6/7-SW2	15 Winter	30	+0%	30/15 Winter				3.999
13.002	P6/7-SW3	15 Winter	30	+0%	30/15 Winter				3.483
2.011	Swale 7_HW4	360 Winter	30	+0%					2.921
14.000	School 01	15 Winter	30	+0%					4.060
14.001	School 02	15 Winter	30	+0%	30/15 Winter				3.959
14.002	School 03	15 Winter	30	+0%	30/15 Winter				3.853
15.000	School 04	15 Winter	30	+0%	30/15 Winter				3.760
14.003	School 04	15 Winter	30	+0%	30/15 Winter				3.623
2.012	Swale 7_HW5	360 Winter	30	+0%	30/60 Winter				2.909
16.000	P5/3_S24	1440 Winter	30	+0%	30/15 Winter				3.466
16.001	P5/3_S26	1440 Winter	30	+0%	30/15 Winter				3.466
17.000	P6/3-SW1	15 Winter	30	+0%	30/15 Winter				3.966
17.001	P6/3-SW2	15 Winter	30	+0%	30/15 Winter				3.911
17.002	P6/3_SW3	15 Winter	30	+0%	30/15 Winter				3.495
16.002	P5/3_S28	1440 Winter	30	+0%	30/15 Winter				3.465
16.003	Swale 3_HW1	1440 Winter	30	+0%					3.463
18.000	P5/3_S16	1440 Winter	30	+0%	30/30 Winter				3.467
18.001	P5/3_S18	1440 Winter	30	+0%	30/15 Winter				3.465
19.000	P5/3_SW20-1	1440 Winter	30	+0%	30/30 Winter				3.468
19.001	P5/3_SW20-2	1440 Winter	30	+0%	30/15 Winter				3.467
18.002	P5/3_S20	1440 Winter	30	+0%	30/15 Winter				3.464
20.000	P6/3-SW4	15 Winter	30	+0%	30/15 Winter				3.470
20.001	P6/3-SW5	1440 Winter	30	+0%	30/15 Winter				3.469
20.002	P6/3-SW6	1440 Winter	30	+0%	30/15 Winter				3.466
16.004	Swale 3_HW2	1440 Winter	30	+0%					3.463
16.005	Swale 3_HW3	1440 Winter	30	+0%	30/15 Winter				3.462
21.000	MAV_SW10/1	1440 Winter	30	+0%	30/120 Winter				3.460
16.006	MAV_SW10	960 Winter	30	+0%					3.457
22.000	Stub SW10-2	15 Winter	30	+0%					3.733
23.000	P6/4_SW1	15 Winter	30	+0%					3.600
23.001	P6/4_SW2	30 Winter	30	+0%					3.544
16.007	Swale 4_HW1	30 Winter	30	+0%					3.527
24.000	Stub HW2/03	15 Winter	30	+0%	30/15 Winter				3.821
16.008	Swale 4_HW2	30 Winter	30	+0%					3.523
25.000	Stub HW2/03	15 Winter	30	+0%	30/15 Winter				3.624
26.000	P6/4- SW3	15 Winter	30	+0%					3.600
26.001	P6/4- SW4	30 Winter	30	+0%					3.538
16.009	Swale 4_HW3	30 Winter	30	+0%					3.519
27.000	MAV_SW11	15 Winter	30	+0%	30/15 Winter				4.188
28.000	Stub SW12-1	15 Winter	30	+0%	30/15 Winter				3.954
27.001	MAV_SW12	15 Winter	30	+0%	30/15 Winter				3.851
16.010	Swale 4_HW4	30 Winter	30	+0%					3.504
29.000	P6/4-SW6	15 Winter	30	+0%					3.601
29.001	P6/4-SW5	30 Winter	30	+0%					3.514
16.011	Swale 4-HW5	30 Winter	30	+0%					3.499
16.012	Swale 4_HW6	30 Winter	30	+0%					3.493
30.000	Stub SW13/1	15 Winter	30	+0%	30/15 Winter				3.371
16.013	MAV_SW13	15 Winter	30	+0%	30/15 Winter				3.156
31.000	MAV_SW14	15 Winter	30	+0%					3.425
31.001	MAV_SW15	15 Winter	30	+0%	30/15 Winter				3.135
2.013	MAV_SW16 (HB)	15 Winter	30	+0%	30/15 Winter				2.908
2.014	OUTFALL 03	120 Winter	30	+0%					1.275
32.000	MAV_SW17	15 Winter	30	+0%	30/15 Winter				3.397
33.000	Youth Site	15 Winter	30	+0%	30/15 Winter				3.840
34.000	Youth Site	15 Winter	30	+0%	30/15 Winter				3.802
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Lion House Oriental Road Woking, GU22 8AR				Hampton Park South & East Central Wetland Surface Water Drainage					
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Innovyze				Network 2020.1					
<u>Summary of Critical Results by Maximum Level (Rank 1) for Storm</u>									
PN	US/MH Name	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Half Drain Time (mins)	Pipe Flow (l/s)	Status	Level Exceeded
10.002	P7/7-SW4	1.080	0.000	1.48			222.0	SURCHARGED	
12.000	P7/7-SW5	-0.054	0.000	0.62			78.7	OK	
10.003	P7/7-SW6	0.598	0.000	2.01			351.1	SURCHARGED	
9.002	Swale 7_HW2	-1.470	0.000	0.00			35.2	OK	
2.010	Swale 7_HW3	-1.470	0.000	0.00			41.3	OK	
13.000	P6/7-SW1	0.567	0.000	0.78			31.9	SURCHARGED	
13.001	P6/7-SW2	0.624	0.000	1.60			63.9	SURCHARGED	
13.002	P6/7-SW3	0.308	0.000	1.23			96.9	SURCHARGED	
2.011	Swale 7_HW4	-1.479	0.000	0.00			42.4	OK	
14.000	School 01	-0.140	0.000	0.41			35.8	OK	
14.001	School 02	0.399	0.000	1.01			86.3	SURCHARGED	
14.002	School 03	0.523	0.000	1.17			97.0	SURCHARGED	
15.000	School 04	0.060	0.000	0.44			51.8	SURCHARGED	
14.003	School 04	0.533	0.000	1.66			169.1	SURCHARGED	
2.012	Swale 7_HW5	0.059	0.000	0.25			44.5	SURCHARGED	
16.000	P5/3_S24	0.466	0.000	0.01			0.9	SURCHARGED	
16.001	P5/3_S26	0.686	0.000	0.03			1.8	SURCHARGED	
17.000	P6/3-SW1	0.541	0.000	0.55			22.5	SURCHARGED	
17.001	P6/3-SW2	0.686	0.000	0.95			39.1	SURCHARGED	
17.002	P6/3_SW3	0.710	0.000	1.60			58.2	SURCHARGED	
16.002	P5/3_S28	0.765	0.000	0.22			6.5	SURCHARGED	
16.003	Swale 3_HW1	-0.937	0.000	0.00			8.0	OK	
18.000	P5/3_S16	0.302	0.000	0.02			0.9	SURCHARGED	
18.001	P5/3_S18	0.570	0.000	0.06			1.8	SURCHARGED	
19.000	P5/3_SW20-1	0.243	0.000	0.02			0.9	SURCHARGED	
19.001	P5/3_SW20-2	0.402	0.000	0.05			1.8	SURCHARGED	
18.002	P5/3_S20	0.544	0.000	0.04			4.5	SURCHARGED	
20.000	P6/3-SW4	0.045	0.000	0.65			26.1	SURCHARGED	
20.001	P6/3-SW5	0.244	0.000	0.06			2.5	SURCHARGED	
20.002	P6/3-SW6	0.391	0.000	0.05			3.8	SURCHARGED	
16.004	Swale 3_HW2	-0.937	0.000	0.00			10.2	OK	
16.005	Swale 3_HW3	0.687	0.000	0.26			8.7	SURCHARGED	
21.000	MAV_SW10/1	0.175	0.000	0.05			2.2	SURCHARGED	
16.006	MAV_SW10	-0.318	0.000	0.05			8.4	OK	
22.000	Stub SW10-2	-0.067	0.000	0.57			11.8	OK	
23.000	P6/4_SW1	-0.125	0.000	0.40			15.6	OK	
23.001	P6/4_SW2	-0.061	0.000	0.41			24.6	OK	
16.007	Swale 4_HW1	-0.873	0.000	0.01			39.4	OK	
24.000	Stub HW2/03	0.246	0.000	1.56			58.5	SURCHARGED	
16.008	Swale 4_HW2	-0.877	0.000	0.02			58.5	OK	
25.000	Stub HW2/03	0.039	0.000	1.02			40.9	SURCHARGED	
26.000	P6/4- SW3	-0.125	0.000	0.40			15.5	OK	
26.001	P6/4- SW4	-0.027	0.000	0.49			23.5	OK	
16.009	Swale 4_HW3	-0.881	0.000	0.01			103.2	OK	
27.000	MAV_SW11	0.311	0.000	0.88			36.0	SURCHARGED	
28.000	Stub SW12-1	0.404	0.000	0.81			15.3	SURCHARGED	
27.001	MAV_SW12	0.381	0.000	2.96			73.0	SURCHARGED	
16.010	Swale 4_HW4	-0.896	0.000	0.04			134.4	OK	
29.000	P6/4-SW6	-0.124	0.000	0.41			15.8	OK	
29.001	P6/4-SW5	-0.101	0.000	0.41			25.3	OK	
16.011	Swale 4-HW5	-0.901	0.000	0.04			150.4	OK	
16.012	Swale 4_HW6	-0.007	0.000	0.80			148.0	OK	
30.000	Stub SW13/1	0.021	0.000	0.68			17.0	SURCHARGED	
16.013	MAV_SW13	0.121	0.000	0.83			153.2	SURCHARGED	
31.000	MAV_SW14	-0.020	0.000	0.86			37.7	OK	
31.001	MAV_SW15	0.090	0.000	1.27			42.1	SURCHARGED	
2.013	MAV_SW16(HB)	0.008	0.000	0.06			63.8	SURCHARGED	
2.014	OUTFALL 03	-1.125	0.000	0.00			63.7	OK	
32.000	MAV_SW17	0.172	0.000	0.41			20.5	SURCHARGED	
33.000	Youth Site	0.915	0.000	0.58			28.0	SURCHARGED	
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PN	US/MH Name	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Half Drain Time (mins)	Pipe Flow (l/s)	Status	Level Exceeded																				
34.000	Youth Site	0.877	0.000	0.49			28.1	SURCHARGED																					
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<u>Summary of Critical Results by Maximum Level (Rank 1) for Storm</u>									
PN	US/MH Name	Storm	Return Period	Climate Change	First (X) Surcharge	First (Y) Flood	First (Z) Overflow	Overflow Act.	Water Level (m)
33.001	SW18/1	15 Winter	30	+0%	30/15 Winter				3.708
32.001	MAV_SW18	15 Winter	30	+0%	30/15 Winter				3.296
32.002	MAV_SW19	15 Winter	30	+0%	30/15 Winter				3.067
35.000	Com Centre	15 Winter	30	+0%	30/15 Winter				3.171
35.001	Com Centre	15 Winter	30	+0%	30/15 Winter				3.001
32.003	MAV_SW20	15 Winter	30	+0%	30/15 Winter				2.742
36.000	Com Centre	15 Winter	30	+0%	30/15 Winter				3.257
36.001	Com Centre	15 Winter	30	+0%	30/15 Winter				2.973
32.004	MAV_SW21 (Tank)	30 Winter	30	+0%	30/15 Winter				2.406
32.005	SW22 (HB)	30 Winter	30	+0%	30/15 Winter				2.364
32.006	OUTFALL 04	60 Winter	30	+0%					1.733
32.007	CWA Culvert_U/S	60 Winter	30	+0%					1.663
32.008	CWA Culvert_DS	60 Winter	30	+0%					1.321
1.001	CWA - Culvert	120 Winter	30	+0%					1.257
1.002	CWA	120 Winter	30	+0%					1.236
37.000	P5/1_S50	15 Winter	30	+0%	30/15 Winter				3.679
38.000	P5/1_S52-1	15 Winter	30	+0%	30/15 Winter				3.709
37.001	P5/1_S52	15 Winter	30	+0%	30/15 Winter				3.605
37.002	P5/1_S54	15 Winter	30	+0%	30/15 Winter				3.528
37.003	P5/1_S56	15 Winter	30	+0%	30/15 Winter				3.217
37.004	P5/1_S58	120 Winter	30	+0%	30/15 Winter				3.059
39.000	P5/1_SW1	60 Winter	30	+0%	30/15 Winter				3.031
39.001	P5/1_SW2	120 Winter	30	+0%	30/15 Winter				3.025
37.005	Swale1_HW1	120 Winter	30	+0%					3.018
40.000	P5/1_S34	120 Winter	30	+0%	30/30 Winter				3.076
40.001	P5/1_S36	120 Winter	30	+0%	30/15 Winter				3.068
41.000	P5/1_S38-1	120 Winter	30	+0%	30/15 Winter				3.062
40.002	P5/1_S38	120 Winter	30	+0%	30/15 Winter				3.058
40.003	P5/1_S40	120 Winter	30	+0%	30/15 Winter				3.018
42.000	P5/1_S10	120 Winter	30	+0%	30/30 Winter				3.026
42.001	P5/1_S12	120 Winter	30	+0%	30/15 Winter				3.022
42.002	P5/1_S14	120 Winter	30	+0%	30/15 Winter				3.017
37.006	Swale1_HW2	120 Winter	30	+0%					3.013
43.000	P5/1_HW3/1	15 Winter	30	+0%					3.059
44.000	P5/1_HW3/2	15 Winter	30	+0%					3.054
37.007	Swale1_HW3	60 Winter	30	+0%	30/15 Winter				2.995
45.000	MAV_SW03	15 Winter	30	+0%	30/15 Winter				3.701
46.000	SW04/1	30 Winter	30	+0%	30/15 Winter				3.372
45.001	MAV_SW04	30 Winter	30	+0%	30/15 Winter				3.372
47.000	Stub SW05/1	30 Winter	30	+0%	30/15 Winter				3.293
48.000	Stub SW05/2	30 Winter	30	+0%	30/15 Winter				3.295
45.002	MAV_SW05	30 Winter	30	+0%	30/15 Winter				3.263
49.000	SW06/1	15 Winter	30	+0%					3.286
49.001	MAV_SW06	15 Winter	30	+0%					3.170
50.000	P5/Mav_S04	15 Winter	30	+0%	30/15 Winter				3.201
50.001	P5/Mav_S06	15 Winter	30	+0%	30/15 Winter				3.170
51.000	P5/Mav_S02-1	15 Winter	30	+0%	30/15 Winter				3.730
51.001	P5/Mav_S02	15 Winter	30	+0%	30/15 Winter				3.304
49.002	MAV_SW08	60 Winter	30	+0%	30/15 Winter				3.065
37.008	MAV_SW09	60 Winter	30	+0%	30/15 Winter				2.983
52.000	P5/2_HW1/1	60 Winter	30	+0%	30/30 Winter				2.893
53.000	P5/2_HW1/2	60 Winter	30	+0%	30/30 Winter				2.893
37.009	Swale2_HW1	60 Winter	30	+0%					2.890
54.000	P5/2_S64	60 Winter	30	+0%	30/60 Winter				2.879
55.000	P5/2_S60	60 Winter	30	+0%	30/30 Winter				2.874
54.001	P5/2_S66	60 Winter	30	+0%	30/15 Winter				2.872
54.002	P5/2_S72	60 Winter	30	+0%	30/15 Winter				2.868
56.000	P5/2_S74	60 Winter	30	+0%					2.945
56.001	P5/2_S76	60 Winter	30	+0%	30/15 Winter				2.935
57.000	P5/2_S78	60 Winter	30	+0%	30/15 Winter				2.939
57.001	P5/2_S80	60 Winter	30	+0%	30/15 Winter				2.932
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