

Royal HaskoningDHV

Blays House Wick Road  
Englefield Green Egham  
Surrey TW20 0HJ

Haverhill  
Great Willsey Park  
Area 5 : 1 in 100 480 min



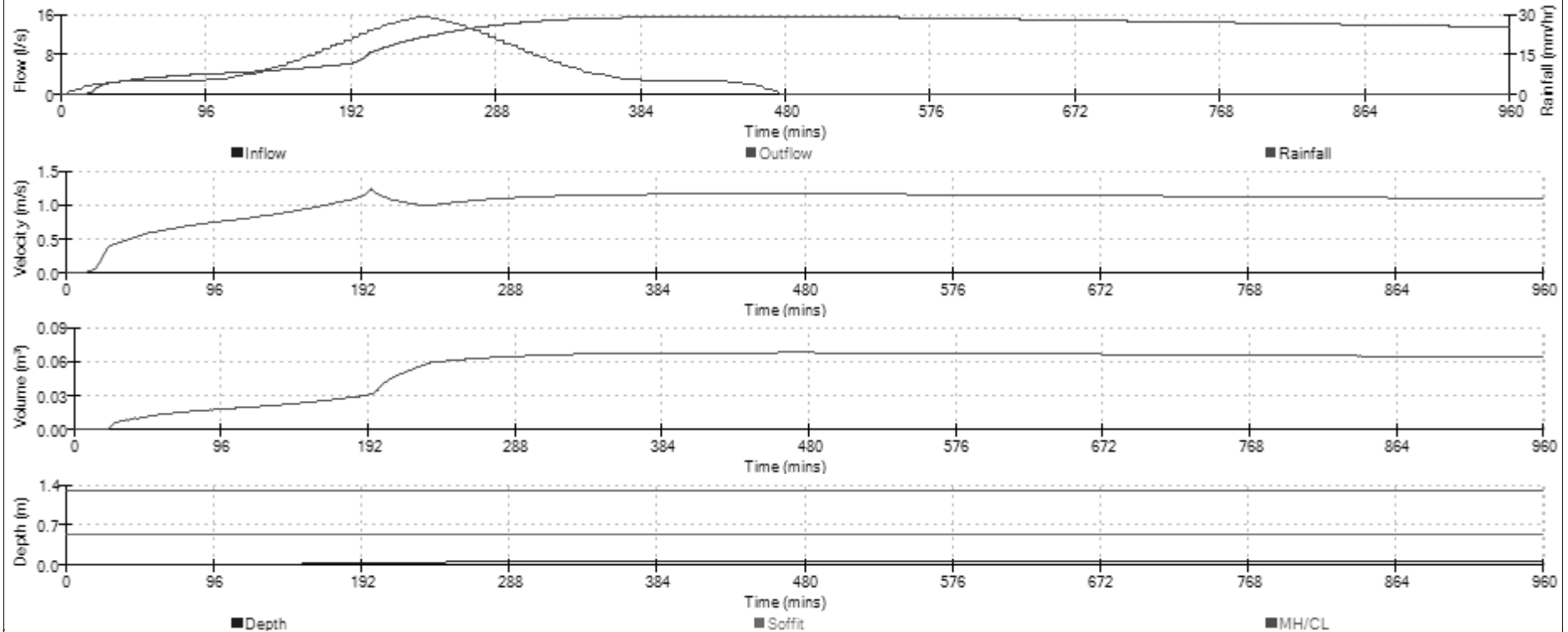
Date 4/7/2019  
File HAVERHILL. ALL NETWORKS FOR TENDER.MDX


Designed by RMV  
Checked by DJ

Innovyze

Network 2018.1.1


Graphs for Pipe 1.005 US/MH S5.23 (SW 05)  
480 minute 100 year Winter I+30%  
Status: OK\*



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Blays House Wick Road Englefield Green Egham Surrey TW20 OHJ	Haverhill Great Willsey Park Area 5 : 1 in 100 480 min	
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Innovyze	Network 2018.1.1	


Flows and Levels for Pipe 1.005 US/MH S5.23 (SW 05)  
480 minute 100 year Winter I+30%  
Average Rainfall Intensity 11.472 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (1/s)	Pipe Flow (1/s)	Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (1/s)	Pipe Flow (1/s)
1	88.400	87.931	-0.525	0.0	0.0	23	88.406	87.942	-0.519	0.0	1.1
2	88.400	87.931	-0.525	0.0	0.0	24	88.408	87.944	-0.517	0.0	1.3
3	88.400	87.931	-0.525	0.0	0.0	25	88.408	87.946	-0.517	0.0	1.6
4	88.400	87.931	-0.525	0.0	0.0	26	88.409	87.948	-0.516	0.0	1.8
5	88.400	87.931	-0.525	0.0	0.0	27	88.410	87.949	-0.515	0.0	1.9
6	88.400	87.931	-0.525	0.0	0.0	28	88.410	87.950	-0.515	0.0	2.1
7	88.400	87.931	-0.525	0.0	0.0	29	88.410	87.951	-0.515	0.0	2.1
8	88.400	87.931	-0.525	0.0	0.0	30	88.411	87.952	-0.514	0.0	2.2
9	88.400	87.931	-0.525	0.0	0.0	31	88.411	87.952	-0.514	0.0	2.3
10	88.400	87.931	-0.525	0.0	0.0	32	88.411	87.953	-0.514	0.0	2.3
11	88.400	87.931	-0.525	0.0	0.0	33	88.411	87.954	-0.514	0.0	2.4
12	88.400	87.932	-0.525	0.0	0.1	34	88.412	87.954	-0.513	0.0	2.4
13	88.401	87.932	-0.524	0.0	0.1	35	88.412	87.954	-0.513	0.0	2.5
14	88.401	87.932	-0.524	0.0	0.1	36	88.412	87.955	-0.513	0.0	2.5
15	88.401	87.933	-0.524	0.0	0.2	37	88.413	87.955	-0.512	0.0	2.6
16	88.401	87.933	-0.524	0.0	0.2	38	88.412	87.955	-0.513	0.0	2.6
17	88.401	87.933	-0.524	0.0	0.2	39	88.412	87.956	-0.513	0.0	2.6
18	88.402	87.934	-0.523	0.0	0.3	40	88.413	87.956	-0.512	0.0	2.7
19	88.402	87.935	-0.523	0.0	0.4	41	88.413	87.956	-0.512	0.0	2.7
20	88.403	87.936	-0.522	0.0	0.5	42	88.413	87.957	-0.512	0.0	2.8
21	88.404	87.937	-0.521	0.0	0.6	43	88.414	87.957	-0.511	0.0	2.8
22	88.405	87.939	-0.520	0.0	0.8	44	88.413	87.958	-0.512	0.0	2.8

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Blays House Wick Road Englefield Green Egham Surrey TW20 0HJ	Haverhill Great Willsey Park Area 5 : 1 in 100 480 min	
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Flows and Levels for Pipe 1.005 US/MH S5.23 (SW 05)  
480 minute 100 year Winter I+30%  
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Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Pipe Flow (l/s)	Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Pipe Flow (l/s)
45	88.414	87.958	-0.511	0.0	2.9	67	88.417	87.964	-0.508	0.0	3.6
46	88.414	87.958	-0.511	0.0	2.9	68	88.417	87.965	-0.508	0.0	3.6
47	88.414	87.959	-0.511	0.0	3.0	69	88.417	87.965	-0.508	0.0	3.6
48	88.414	87.959	-0.511	0.0	3.0	70	88.417	87.965	-0.508	0.0	3.6
49	88.415	87.960	-0.510	0.0	3.1	71	88.417	87.965	-0.508	0.0	3.6
50	88.415	87.960	-0.510	0.0	3.1	72	88.417	87.965	-0.508	0.0	3.7
51	88.415	87.960	-0.510	0.0	3.1	73	88.418	87.966	-0.507	0.0	3.7
52	88.415	87.961	-0.510	0.0	3.2	74	88.418	87.966	-0.507	0.0	3.7
53	88.415	87.961	-0.510	0.0	3.2	75	88.418	87.966	-0.507	0.0	3.7
54	88.415	87.961	-0.510	0.0	3.2	76	88.418	87.966	-0.507	0.0	3.7
55	88.416	87.962	-0.509	0.0	3.3	77	88.418	87.966	-0.507	0.0	3.8
56	88.416	87.962	-0.509	0.0	3.3	78	88.418	87.967	-0.507	0.0	3.8
57	88.416	87.962	-0.509	0.0	3.3	79	88.418	87.967	-0.507	0.0	3.8
58	88.416	87.962	-0.509	0.0	3.3	80	88.418	87.967	-0.507	0.0	3.8
59	88.416	87.963	-0.509	0.0	3.4	81	88.418	87.967	-0.507	0.0	3.9
60	88.416	87.963	-0.509	0.0	3.4	82	88.418	87.967	-0.507	0.0	3.9
61	88.416	87.963	-0.509	0.0	3.4	83	88.419	87.967	-0.506	0.0	3.9
62	88.416	87.963	-0.509	0.0	3.4	84	88.418	87.968	-0.507	0.0	3.9
63	88.416	87.963	-0.509	0.0	3.5	85	88.419	87.968	-0.506	0.0	3.9
64	88.417	87.964	-0.508	0.0	3.5	86	88.419	87.968	-0.506	0.0	4.0
65	88.417	87.964	-0.508	0.0	3.5	87	88.419	87.968	-0.506	0.0	4.0
66	88.417	87.964	-0.508	0.0	3.5	88	88.419	87.968	-0.506	0.0	4.0

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89	88.419	87.968	-0.506	0.0	4.0	111	88.420	87.972	-0.505	0.0	4.3
90	88.419	87.969	-0.506	0.0	4.0	112	88.421	87.972	-0.504	0.0	4.3
91	88.419	87.969	-0.506	0.0	4.0	113	88.421	87.972	-0.504	0.0	4.4
92	88.419	87.969	-0.506	0.0	4.0	114	88.421	87.972	-0.504	0.0	4.4
93	88.419	87.969	-0.506	0.0	4.1	115	88.421	87.972	-0.504	0.0	4.4
94	88.419	87.969	-0.506	0.0	4.1	116	88.421	87.972	-0.504	0.0	4.4
95	88.419	87.969	-0.506	0.0	4.1	117	88.421	87.972	-0.504	0.0	4.4
96	88.419	87.969	-0.506	0.0	4.1	118	88.421	87.973	-0.504	0.0	4.4
97	88.420	87.970	-0.505	0.0	4.1	119	88.421	87.973	-0.504	0.0	4.5
98	88.420	87.970	-0.505	0.0	4.1	120	88.421	87.973	-0.504	0.0	4.5
99	88.420	87.970	-0.505	0.0	4.1	121	88.421	87.973	-0.504	0.0	4.5
100	88.420	87.970	-0.505	0.0	4.2	122	88.421	87.973	-0.504	0.0	4.5
101	88.420	87.970	-0.505	0.0	4.2	123	88.421	87.973	-0.504	0.0	4.5
102	88.420	87.970	-0.505	0.0	4.2	124	88.422	87.974	-0.503	0.0	4.5
103	88.420	87.970	-0.505	0.0	4.2	125	88.422	87.974	-0.503	0.0	4.6
104	88.420	87.971	-0.505	0.0	4.2	126	88.422	87.974	-0.503	0.0	4.6
105	88.420	87.971	-0.505	0.0	4.2	127	88.422	87.974	-0.503	0.0	4.6
106	88.420	87.971	-0.505	0.0	4.3	128	88.422	87.974	-0.503	0.0	4.6
107	88.420	87.971	-0.505	0.0	4.3	129	88.422	87.974	-0.503	0.0	4.6
108	88.420	87.971	-0.505	0.0	4.3	130	88.422	87.975	-0.503	0.0	4.7
109	88.420	87.971	-0.505	0.0	4.3	131	88.422	87.975	-0.503	0.0	4.7
110	88.420	87.971	-0.505	0.0	4.3	132	88.422	87.975	-0.503	0.0	4.7

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133	88.422	87.975	-0.503	0.0	4.7	155	88.425	87.979	-0.500	0.0	5.2
134	88.422	87.975	-0.503	0.0	4.7	156	88.425	87.980	-0.500	0.0	5.2
135	88.422	87.975	-0.503	0.0	4.7	157	88.425	87.980	-0.500	0.0	5.2
136	88.423	87.976	-0.502	0.0	4.8	158	88.425	87.980	-0.500	0.0	5.2
137	88.423	87.976	-0.502	0.0	4.8	159	88.425	87.980	-0.500	0.0	5.3
138	88.423	87.976	-0.502	0.0	4.8	160	88.425	87.981	-0.500	0.0	5.3
139	88.423	87.976	-0.502	0.0	4.8	161	88.425	87.981	-0.500	0.0	5.3
140	88.423	87.976	-0.502	0.0	4.8	162	88.425	87.981	-0.500	0.0	5.3
141	88.423	87.977	-0.502	0.0	4.9	163	88.425	87.981	-0.500	0.0	5.4
142	88.423	87.977	-0.502	0.0	4.9	164	88.426	87.981	-0.499	0.0	5.4
143	88.423	87.977	-0.502	0.0	4.9	165	88.426	87.982	-0.499	0.0	5.4
144	88.423	87.977	-0.502	0.0	4.9	166	88.426	87.982	-0.499	0.0	5.4
145	88.423	87.977	-0.502	0.0	4.9	167	88.426	87.982	-0.499	0.0	5.5
146	88.424	87.977	-0.501	0.0	5.0	168	88.426	87.982	-0.499	0.0	5.5
147	88.424	87.978	-0.501	0.0	5.0	169	88.426	87.983	-0.499	0.0	5.5
148	88.424	87.978	-0.501	0.0	5.0	170	88.426	87.983	-0.499	0.0	5.5
149	88.424	87.978	-0.501	0.0	5.0	171	88.426	87.983	-0.499	0.0	5.6
150	88.424	87.978	-0.501	0.0	5.1	172	88.427	87.983	-0.498	0.0	5.6
151	88.424	87.979	-0.501	0.0	5.1	173	88.427	87.984	-0.498	0.0	5.6
152	88.424	87.979	-0.501	0.0	5.1	174	88.427	87.984	-0.498	0.0	5.6
153	88.424	87.979	-0.501	0.0	5.1	175	88.427	87.984	-0.498	0.0	5.7
154	88.424	87.979	-0.501	0.0	5.1	176	88.427	87.984	-0.498	0.0	5.7

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177	88.427	87.984	-0.498	0.0	5.7	199	88.434	87.988	-0.491	0.0	7.1
178	88.427	87.984	-0.498	0.0	5.8	200	88.435	87.989	-0.490	0.0	7.2
179	88.427	87.984	-0.498	0.0	5.8	201	88.436	87.989	-0.489	0.0	7.4
180	88.428	87.984	-0.497	0.0	5.8	202	88.437	87.990	-0.488	0.0	7.6
181	88.428	87.984	-0.497	0.0	5.8	203	88.438	87.990	-0.487	0.0	7.9
182	88.428	87.984	-0.497	0.0	5.9	204	88.439	87.991	-0.486	0.0	8.1
183	88.428	87.984	-0.497	0.0	5.9	205	88.440	87.992	-0.485	0.0	8.3
184	88.428	87.984	-0.497	0.0	5.9	206	88.440	87.992	-0.485	0.0	8.4
185	88.428	87.985	-0.497	0.0	6.0	207	88.441	87.992	-0.484	0.0	8.6
186	88.428	87.985	-0.497	0.0	6.0	208	88.441	87.993	-0.484	0.0	8.7
187	88.429	87.985	-0.496	0.0	6.0	209	88.442	87.993	-0.483	0.0	8.8
188	88.429	87.985	-0.496	0.0	6.0	210	88.442	87.993	-0.483	0.0	8.9
189	88.429	87.985	-0.496	0.0	6.1	211	88.443	87.994	-0.482	0.0	9.0
190	88.429	87.985	-0.496	0.0	6.1	212	88.443	87.994	-0.482	0.0	9.1
191	88.429	87.985	-0.496	0.0	6.1	213	88.444	87.994	-0.481	0.0	9.2
192	88.429	87.985	-0.496	0.0	6.2	214	88.444	87.995	-0.481	0.0	9.3
193	88.430	87.985	-0.495	0.0	6.2	215	88.445	87.995	-0.480	0.0	9.4
194	88.430	87.986	-0.495	0.0	6.3	216	88.445	87.995	-0.480	0.0	9.5
195	88.431	87.986	-0.494	0.0	6.4	217	88.446	87.995	-0.479	0.0	9.6
196	88.432	87.986	-0.493	0.0	6.6	218	88.446	87.996	-0.479	0.0	9.7
197	88.432	87.987	-0.493	0.0	6.7	219	88.447	87.996	-0.478	0.0	9.8
198	88.433	87.987	-0.492	0.0	6.9	220	88.447	87.996	-0.478	0.0	9.9

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221	88.448	87.996	-0.477	0.0	10.0	243	88.453	88.001	-0.472	0.0	11.6
222	88.448	87.997	-0.477	0.0	10.1	244	88.453	88.001	-0.472	0.0	11.7
223	88.448	87.997	-0.477	0.0	10.2	245	88.454	88.002	-0.471	0.0	11.7
224	88.449	87.997	-0.476	0.0	10.3	246	88.454	88.002	-0.471	0.0	11.8
225	88.449	87.998	-0.476	0.0	10.3	247	88.454	88.002	-0.471	0.0	11.9
226	88.450	87.998	-0.475	0.0	10.4	248	88.454	88.002	-0.471	0.0	11.9
227	88.450	87.998	-0.475	0.0	10.5	249	88.454	88.002	-0.471	0.0	12.0
228	88.450	87.998	-0.475	0.0	10.6	250	88.454	88.002	-0.471	0.0	12.0
229	88.451	87.998	-0.474	0.0	10.7	251	88.454	88.003	-0.471	0.0	12.1
230	88.451	87.999	-0.474	0.0	10.7	252	88.454	88.003	-0.471	0.0	12.2
231	88.451	87.999	-0.474	0.0	10.8	253	88.454	88.003	-0.471	0.0	12.2
232	88.452	87.999	-0.473	0.0	10.9	254	88.454	88.003	-0.471	0.0	12.3
233	88.452	87.999	-0.473	0.0	11.0	255	88.454	88.003	-0.471	0.0	12.3
234	88.452	88.000	-0.473	0.0	11.0	256	88.454	88.004	-0.471	0.0	12.4
235	88.453	88.000	-0.472	0.0	11.1	257	88.455	88.004	-0.470	0.0	12.5
236	88.453	88.000	-0.472	0.0	11.2	258	88.455	88.004	-0.470	0.0	12.5
237	88.453	88.000	-0.472	0.0	11.3	259	88.455	88.004	-0.470	0.0	12.6
238	88.453	88.000	-0.472	0.0	11.3	260	88.455	88.004	-0.470	0.0	12.6
239	88.453	88.001	-0.472	0.0	11.4	261	88.455	88.004	-0.470	0.0	12.7
240	88.453	88.001	-0.472	0.0	11.5	262	88.455	88.004	-0.470	0.0	12.7
241	88.453	88.001	-0.472	0.0	11.5	263	88.455	88.005	-0.470	0.0	12.8
242	88.453	88.001	-0.472	0.0	11.6	264	88.455	88.005	-0.470	0.0	12.8

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Innovyze	Network 2018.1.1	

Flows and Levels for Pipe 1.005 US/MH S5.23 (SW 05)  
480 minute 100 year Winter I+30%  
Average Rainfall Intensity 11.472 mm/hr


Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Pipe Flow (l/s)	Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Pipe Flow (l/s)
265	88.455	88.005	-0.470	0.0	12.9	287	88.457	88.008	-0.468	0.0	13.8
266	88.455	88.005	-0.470	0.0	12.9	288	88.457	88.008	-0.468	0.0	13.8
267	88.455	88.005	-0.470	0.0	13.0	289	88.457	88.008	-0.468	0.0	13.8
268	88.455	88.005	-0.470	0.0	13.0	290	88.457	88.008	-0.468	0.0	13.9
269	88.455	88.005	-0.470	0.0	13.1	291	88.457	88.008	-0.468	0.0	13.9
270	88.456	88.006	-0.469	0.0	13.1	292	88.457	88.008	-0.468	0.0	13.9
271	88.456	88.006	-0.469	0.0	13.2	293	88.457	88.008	-0.468	0.0	14.0
272	88.456	88.006	-0.469	0.0	13.2	294	88.457	88.008	-0.468	0.0	14.0
273	88.456	88.006	-0.469	0.0	13.3	295	88.457	88.008	-0.468	0.0	14.0
274	88.456	88.006	-0.469	0.0	13.3	296	88.457	88.008	-0.468	0.0	14.1
275	88.456	88.006	-0.469	0.0	13.3	297	88.457	88.008	-0.468	0.0	14.1
276	88.456	88.006	-0.469	0.0	13.4	298	88.457	88.009	-0.468	0.0	14.1
277	88.456	88.007	-0.469	0.0	13.4	299	88.457	88.009	-0.468	0.0	14.2
278	88.456	88.007	-0.469	0.0	13.5	300	88.457	88.009	-0.468	0.0	14.2
279	88.456	88.007	-0.469	0.0	13.5	301	88.457	88.009	-0.468	0.0	14.2
280	88.456	88.007	-0.469	0.0	13.5	302	88.457	88.009	-0.468	0.0	14.2
281	88.456	88.007	-0.469	0.0	13.6	303	88.457	88.009	-0.468	0.0	14.3
282	88.456	88.007	-0.469	0.0	13.6	304	88.457	88.009	-0.468	0.0	14.3
283	88.456	88.007	-0.469	0.0	13.6	305	88.457	88.009	-0.468	0.0	14.3
284	88.456	88.007	-0.469	0.0	13.7	306	88.457	88.009	-0.468	0.0	14.4
285	88.456	88.007	-0.469	0.0	13.7	307	88.457	88.009	-0.468	0.0	14.4
286	88.456	88.007	-0.469	0.0	13.7	308	88.457	88.009	-0.468	0.0	14.4



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Innovyze	Network 2018.1.1	


Flows and Levels for Pipe 1.005 US/MH S5.23 (SW 05)  
480 minute 100 year Winter I+30%  
Average Rainfall Intensity 11.472 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (1/s)	Pipe Flow (1/s)	Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (1/s)	Pipe Flow (1/s)
309	88.457	88.009	-0.468	0.0	14.4	331	88.458	88.011	-0.467	0.0	14.9
310	88.457	88.010	-0.468	0.0	14.5	332	88.458	88.011	-0.467	0.0	14.9
311	88.458	88.010	-0.467	0.0	14.5	333	88.458	88.011	-0.467	0.0	14.9
312	88.458	88.010	-0.467	0.0	14.5	334	88.458	88.011	-0.467	0.0	15.0
313	88.458	88.010	-0.467	0.0	14.5	335	88.458	88.011	-0.467	0.0	15.0
314	88.458	88.010	-0.467	0.0	14.6	336	88.458	88.011	-0.467	0.0	15.0
315	88.458	88.010	-0.467	0.0	14.6	337	88.458	88.011	-0.467	0.0	15.0
316	88.458	88.010	-0.467	0.0	14.6	338	88.458	88.011	-0.467	0.0	15.0
317	88.458	88.010	-0.467	0.0	14.6	339	88.458	88.011	-0.467	0.0	15.0
318	88.458	88.010	-0.467	0.0	14.6	340	88.458	88.011	-0.467	0.0	15.0
319	88.458	88.010	-0.467	0.0	14.7	341	88.458	88.011	-0.467	0.0	15.1
320	88.458	88.010	-0.467	0.0	14.7	342	88.458	88.011	-0.467	0.0	15.1
321	88.458	88.010	-0.467	0.0	14.7	343	88.458	88.011	-0.467	0.0	15.1
322	88.458	88.010	-0.467	0.0	14.7	344	88.458	88.011	-0.467	0.0	15.1
323	88.458	88.010	-0.467	0.0	14.8	345	88.458	88.011	-0.467	0.0	15.1
324	88.458	88.010	-0.467	0.0	14.8	346	88.458	88.011	-0.467	0.0	15.1
325	88.458	88.011	-0.467	0.0	14.8	347	88.458	88.011	-0.467	0.0	15.1
326	88.458	88.011	-0.467	0.0	14.8	348	88.458	88.012	-0.467	0.0	15.1
327	88.458	88.011	-0.467	0.0	14.8	349	88.459	88.012	-0.466	0.0	15.1
328	88.458	88.011	-0.467	0.0	14.8	350	88.459	88.012	-0.466	0.0	15.2
329	88.458	88.011	-0.467	0.0	14.9	351	88.459	88.012	-0.466	0.0	15.2
330	88.458	88.011	-0.467	0.0	14.9	352	88.459	88.012	-0.466	0.0	15.2

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Innovyze	Network 2018.1.1	


Flows and Levels for Pipe 1.005 US/MH S5.23 (SW 05)  
480 minute 100 year Winter I+30%  
Average Rainfall Intensity 11.472 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Pipe Flow (l/s)	Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Pipe Flow (l/s)
353	88.459	88.012	-0.466	0.0	15.2	375	88.459	88.012	-0.466	0.0	15.4
354	88.459	88.012	-0.466	0.0	15.2	376	88.459	88.012	-0.466	0.0	15.4
355	88.459	88.012	-0.466	0.0	15.2	377	88.459	88.012	-0.466	0.0	15.4
356	88.459	88.012	-0.466	0.0	15.2	378	88.459	88.012	-0.466	0.0	15.4
357	88.459	88.012	-0.466	0.0	15.2	379	88.459	88.012	-0.466	0.0	15.4
358	88.459	88.012	-0.466	0.0	15.2	380	88.459	88.012	-0.466	0.0	15.4
359	88.459	88.012	-0.466	0.0	15.2	381	88.459	88.012	-0.466	0.0	15.4
360	88.459	88.012	-0.466	0.0	15.2	382	88.459	88.012	-0.466	0.0	15.4
361	88.459	88.012	-0.466	0.0	15.3	383	88.459	88.012	-0.466	0.0	15.4
362	88.459	88.012	-0.466	0.0	15.3	384	88.459	88.012	-0.466	0.0	15.4
363	88.459	88.012	-0.466	0.0	15.3	385	88.459	88.012	-0.466	0.0	15.4
364	88.459	88.012	-0.466	0.0	15.3	386	88.459	88.012	-0.466	0.0	15.4
365	88.459	88.012	-0.466	0.0	15.3	387	88.459	88.012	-0.466	0.0	15.4
366	88.459	88.012	-0.466	0.0	15.3	388	88.459	88.012	-0.466	0.0	15.4
367	88.459	88.012	-0.466	0.0	15.3	389	88.459	88.012	-0.466	0.0	15.4
368	88.459	88.012	-0.466	0.0	15.3	390	88.459	88.012	-0.466	0.0	15.4
369	88.459	88.012	-0.466	0.0	15.3	391	88.459	88.012	-0.466	0.0	15.4
370	88.459	88.012	-0.466	0.0	15.3	392	88.459	88.012	-0.466	0.0	15.4
371	88.459	88.012	-0.466	0.0	15.3	393	88.459	88.012	-0.466	0.0	15.4
372	88.459	88.012	-0.466	0.0	15.3	394	88.459	88.012	-0.466	0.0	15.4
373	88.459	88.012	-0.466	0.0	15.3	395	88.459	88.012	-0.466	0.0	15.4
374	88.459	88.012	-0.466	0.0	15.3	396	88.459	88.012	-0.466	0.0	15.4

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Flows and Levels for Pipe 1.005 US/MH S5.23 (SW 05)  
480 minute 100 year Winter I+30%  
Average Rainfall Intensity 11.472 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (1/s)	Pipe Flow (1/s)	Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (1/s)	Pipe Flow (1/s)
397	88.459	88.012	-0.466	0.0	15.5	419	88.459	88.013	-0.466	0.0	15.5
398	88.459	88.012	-0.466	0.0	15.5	420	88.459	88.013	-0.466	0.0	15.5
399	88.459	88.012	-0.466	0.0	15.5	421	88.459	88.013	-0.466	0.0	15.5
400	88.459	88.012	-0.466	0.0	15.5	422	88.459	88.013	-0.466	0.0	15.5
401	88.459	88.012	-0.466	0.0	15.5	423	88.459	88.013	-0.466	0.0	15.5
402	88.459	88.012	-0.466	0.0	15.5	424	88.459	88.013	-0.466	0.0	15.5
403	88.459	88.012	-0.466	0.0	15.5	425	88.459	88.013	-0.466	0.0	15.5
404	88.459	88.013	-0.466	0.0	15.5	426	88.459	88.013	-0.466	0.0	15.5
405	88.459	88.013	-0.466	0.0	15.5	427	88.459	88.013	-0.466	0.0	15.5
406	88.459	88.013	-0.466	0.0	15.5	428	88.459	88.013	-0.466	0.0	15.5
407	88.459	88.013	-0.466	0.0	15.5	429	88.459	88.013	-0.466	0.0	15.5
408	88.459	88.013	-0.466	0.0	15.5	430	88.459	88.013	-0.466	0.0	15.6
409	88.459	88.013	-0.466	0.0	15.5	431	88.459	88.013	-0.466	0.0	15.6
410	88.459	88.013	-0.466	0.0	15.5	432	88.459	88.013	-0.466	0.0	15.6
411	88.459	88.013	-0.466	0.0	15.5	433	88.459	88.013	-0.466	0.0	15.6
412	88.459	88.013	-0.466	0.0	15.5	434	88.459	88.013	-0.466	0.0	15.6
413	88.459	88.013	-0.466	0.0	15.5	435	88.459	88.013	-0.466	0.0	15.6
414	88.459	88.013	-0.466	0.0	15.5	436	88.459	88.013	-0.466	0.0	15.6
415	88.459	88.013	-0.466	0.0	15.5	437	88.459	88.013	-0.466	0.0	15.6
416	88.459	88.013	-0.466	0.0	15.5	438	88.459	88.013	-0.466	0.0	15.6
417	88.459	88.013	-0.466	0.0	15.5	439	88.459	88.013	-0.466	0.0	15.6
418	88.459	88.013	-0.466	0.0	15.5	440	88.459	88.013	-0.466	0.0	15.6

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Flows and Levels for Pipe 1.005 US/MH S5.23 (SW 05)  
480 minute 100 year Winter I+30%  
Average Rainfall Intensity 11.472 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (1/s)	Pipe Flow (1/s)	Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (1/s)	Pipe Flow (1/s)
441	88.459	88.013	-0.466	0.0	15.6	463	88.459	88.013	-0.466	0.0	15.6
442	88.459	88.013	-0.466	0.0	15.6	464	88.459	88.013	-0.466	0.0	15.6
443	88.459	88.013	-0.466	0.0	15.6	465	88.459	88.013	-0.466	0.0	15.6
444	88.459	88.013	-0.466	0.0	15.6	466	88.459	88.013	-0.466	0.0	15.6
445	88.459	88.013	-0.466	0.0	15.6	467	88.459	88.013	-0.466	0.0	15.6
446	88.459	88.013	-0.466	0.0	15.6	468	88.459	88.013	-0.466	0.0	15.6
447	88.459	88.013	-0.466	0.0	15.6	469	88.459	88.013	-0.466	0.0	15.6
448	88.459	88.013	-0.466	0.0	15.6	470	88.459	88.013	-0.466	0.0	15.6
449	88.459	88.013	-0.466	0.0	15.6	471	88.459	88.013	-0.466	0.0	15.6
450	88.459	88.013	-0.466	0.0	15.6	472	88.459	88.013	-0.466	0.0	15.6
451	88.459	88.013	-0.466	0.0	15.6	473	88.459	88.013	-0.466	0.0	15.6
452	88.459	88.013	-0.466	0.0	15.6	474	88.459	88.013	-0.466	0.0	15.6
453	88.459	88.013	-0.466	0.0	15.6	475	88.459	88.013	-0.466	0.0	15.6
454	88.459	88.013	-0.466	0.0	15.6	476	88.459	88.013	-0.466	0.0	15.6
455	88.459	88.013	-0.466	0.0	15.6	477	88.459	88.013	-0.466	0.0	15.6
456	88.459	88.013	-0.466	0.0	15.6	478	88.459	88.013	-0.466	0.0	15.6
457	88.459	88.013	-0.466	0.0	15.6	479	88.459	88.013	-0.466	0.0	15.6
458	88.459	88.013	-0.466	0.0	15.6	480	88.459	88.013	-0.466	0.0	15.6
459	88.459	88.013	-0.466	0.0	15.6	481	88.459	88.013	-0.466	0.0	15.6
460	88.459	88.013	-0.466	0.0	15.6	482	88.459	88.013	-0.466	0.0	15.6
461	88.459	88.013	-0.466	0.0	15.6	483	88.459	88.013	-0.466	0.0	15.6
462	88.459	88.013	-0.466	0.0	15.6	484	88.459	88.013	-0.466	0.0	15.6

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Flows and Levels for Pipe 1.005 US/MH S5.23 (SW 05)  
480 minute 100 year Winter I+30%  
Average Rainfall Intensity 11.472 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (1/s)	Pipe Flow (1/s)	Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (1/s)	Pipe Flow (1/s)
485	88.459	88.013	-0.466	0.0	15.6	507	88.459	88.013	-0.466	0.0	15.5
486	88.459	88.013	-0.466	0.0	15.6	508	88.459	88.013	-0.466	0.0	15.5
487	88.459	88.013	-0.466	0.0	15.6	509	88.459	88.013	-0.466	0.0	15.5
488	88.459	88.013	-0.466	0.0	15.6	510	88.459	88.013	-0.466	0.0	15.5
489	88.459	88.013	-0.466	0.0	15.6	511	88.459	88.013	-0.466	0.0	15.5
490	88.459	88.013	-0.466	0.0	15.6	512	88.459	88.013	-0.466	0.0	15.5
491	88.459	88.013	-0.466	0.0	15.6	513	88.459	88.013	-0.466	0.0	15.5
492	88.459	88.013	-0.466	0.0	15.6	514	88.459	88.013	-0.466	0.0	15.5
493	88.459	88.013	-0.466	0.0	15.6	515	88.459	88.013	-0.466	0.0	15.5
494	88.459	88.013	-0.466	0.0	15.6	516	88.459	88.013	-0.466	0.0	15.5
495	88.459	88.013	-0.466	0.0	15.6	517	88.459	88.013	-0.466	0.0	15.5
496	88.459	88.013	-0.466	0.0	15.6	518	88.459	88.013	-0.466	0.0	15.5
497	88.459	88.013	-0.466	0.0	15.6	519	88.459	88.013	-0.466	0.0	15.5
498	88.459	88.013	-0.466	0.0	15.6	520	88.459	88.013	-0.466	0.0	15.5
499	88.459	88.013	-0.466	0.0	15.6	521	88.459	88.013	-0.466	0.0	15.5
500	88.459	88.013	-0.466	0.0	15.6	522	88.459	88.012	-0.466	0.0	15.5
501	88.459	88.013	-0.466	0.0	15.6	523	88.459	88.012	-0.466	0.0	15.5
502	88.459	88.013	-0.466	0.0	15.6	524	88.459	88.012	-0.466	0.0	15.5
503	88.459	88.013	-0.466	0.0	15.6	525	88.459	88.012	-0.466	0.0	15.5
504	88.459	88.013	-0.466	0.0	15.6	526	88.459	88.012	-0.466	0.0	15.5
505	88.459	88.013	-0.466	0.0	15.5	527	88.459	88.012	-0.466	0.0	15.5
506	88.459	88.013	-0.466	0.0	15.5	528	88.459	88.012	-0.466	0.0	15.4

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Innovyze	Network 2018.1.1	


Flows and Levels for Pipe 1.005 US/MH S5.23 (SW 05)  
480 minute 100 year Winter I+30%  
Average Rainfall Intensity 11.472 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (1/s)	Pipe Flow (1/s)	Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (1/s)	Pipe Flow (1/s)
529	88.459	88.012	-0.466	0.0	15.4	551	88.459	88.012	-0.466	0.0	15.4
530	88.459	88.012	-0.466	0.0	15.4	552	88.459	88.012	-0.466	0.0	15.3
531	88.459	88.012	-0.466	0.0	15.4	553	88.459	88.012	-0.466	0.0	15.3
532	88.459	88.012	-0.466	0.0	15.4	554	88.459	88.012	-0.466	0.0	15.3
533	88.459	88.012	-0.466	0.0	15.4	555	88.459	88.012	-0.466	0.0	15.3
534	88.459	88.012	-0.466	0.0	15.4	556	88.459	88.012	-0.466	0.0	15.3
535	88.459	88.012	-0.466	0.0	15.4	557	88.459	88.012	-0.466	0.0	15.3
536	88.459	88.012	-0.466	0.0	15.4	558	88.459	88.012	-0.466	0.0	15.3
537	88.459	88.012	-0.466	0.0	15.4	559	88.459	88.012	-0.466	0.0	15.3
538	88.459	88.012	-0.466	0.0	15.4	560	88.459	88.012	-0.466	0.0	15.3
539	88.459	88.012	-0.466	0.0	15.4	561	88.459	88.012	-0.466	0.0	15.3
540	88.459	88.012	-0.466	0.0	15.4	562	88.459	88.012	-0.466	0.0	15.3
541	88.459	88.012	-0.466	0.0	15.4	563	88.459	88.012	-0.466	0.0	15.3
542	88.459	88.012	-0.466	0.0	15.4	564	88.459	88.012	-0.466	0.0	15.3
543	88.459	88.012	-0.466	0.0	15.4	565	88.459	88.012	-0.466	0.0	15.3
544	88.459	88.012	-0.466	0.0	15.4	566	88.459	88.012	-0.466	0.0	15.3
545	88.459	88.012	-0.466	0.0	15.4	567	88.459	88.012	-0.466	0.0	15.3
546	88.459	88.012	-0.466	0.0	15.4	568	88.459	88.012	-0.466	0.0	15.3
547	88.459	88.012	-0.466	0.0	15.4	569	88.459	88.012	-0.466	0.0	15.3
548	88.459	88.012	-0.466	0.0	15.4	570	88.459	88.012	-0.466	0.0	15.3
549	88.459	88.012	-0.466	0.0	15.4	571	88.459	88.012	-0.466	0.0	15.3
550	88.459	88.012	-0.466	0.0	15.4	572	88.459	88.012	-0.466	0.0	15.3

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Innovyze	Network 2018.1.1	

Flows and Levels for Pipe 1.005 US/MH S5.23 (SW 05)  
480 minute 100 year Winter I+30%  
Average Rainfall Intensity 11.472 mm/hr


Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Pipe Flow (l/s)	Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Pipe Flow (l/s)
573	88.459	88.012	-0.466	0.0	15.3	595	88.459	88.012	-0.466	0.0	15.2
574	88.459	88.012	-0.466	0.0	15.3	596	88.459	88.012	-0.466	0.0	15.2
575	88.459	88.012	-0.466	0.0	15.3	597	88.459	88.012	-0.466	0.0	15.2
576	88.459	88.012	-0.466	0.0	15.2	598	88.458	88.012	-0.467	0.0	15.2
577	88.459	88.012	-0.466	0.0	15.2	599	88.458	88.012	-0.467	0.0	15.2
578	88.459	88.012	-0.466	0.0	15.2	600	88.458	88.012	-0.467	0.0	15.1
579	88.459	88.012	-0.466	0.0	15.2	601	88.458	88.012	-0.467	0.0	15.1
580	88.459	88.012	-0.466	0.0	15.2	602	88.458	88.012	-0.467	0.0	15.1
581	88.459	88.012	-0.466	0.0	15.2	603	88.458	88.011	-0.467	0.0	15.1
582	88.459	88.012	-0.466	0.0	15.2	604	88.458	88.011	-0.467	0.0	15.1
583	88.459	88.012	-0.466	0.0	15.2	605	88.458	88.011	-0.467	0.0	15.1
584	88.459	88.012	-0.466	0.0	15.2	606	88.458	88.011	-0.467	0.0	15.1
585	88.459	88.012	-0.466	0.0	15.2	607	88.458	88.011	-0.467	0.0	15.1
586	88.459	88.012	-0.466	0.0	15.2	608	88.458	88.011	-0.467	0.0	15.1
587	88.459	88.012	-0.466	0.0	15.2	609	88.458	88.011	-0.467	0.0	15.1
588	88.459	88.012	-0.466	0.0	15.2	610	88.458	88.011	-0.467	0.0	15.1
589	88.459	88.012	-0.466	0.0	15.2	611	88.458	88.011	-0.467	0.0	15.1
590	88.459	88.012	-0.466	0.0	15.2	612	88.458	88.011	-0.467	0.0	15.1
591	88.459	88.012	-0.466	0.0	15.2	613	88.458	88.011	-0.467	0.0	15.1
592	88.459	88.012	-0.466	0.0	15.2	614	88.458	88.011	-0.467	0.0	15.1
593	88.459	88.012	-0.466	0.0	15.2	615	88.458	88.011	-0.467	0.0	15.1
594	88.459	88.012	-0.466	0.0	15.2	616	88.458	88.011	-0.467	0.0	15.1

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Innovyze	Network 2018.1.1	

Flows and Levels for Pipe 1.005 US/MH S5.23 (SW 05)  
480 minute 100 year Winter I+30%  
Average Rainfall Intensity 11.472 mm/hr


Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (1/s)	Pipe Flow (1/s)	Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (1/s)	Pipe Flow (1/s)
617	88.458	88.011	-0.467	0.0	15.1	639	88.458	88.011	-0.467	0.0	15.0
618	88.458	88.011	-0.467	0.0	15.1	640	88.458	88.011	-0.467	0.0	15.0
619	88.458	88.011	-0.467	0.0	15.1	641	88.458	88.011	-0.467	0.0	15.0
620	88.458	88.011	-0.467	0.0	15.1	642	88.458	88.011	-0.467	0.0	15.0
621	88.458	88.011	-0.467	0.0	15.1	643	88.458	88.011	-0.467	0.0	15.0
622	88.458	88.011	-0.467	0.0	15.1	644	88.458	88.011	-0.467	0.0	15.0
623	88.458	88.011	-0.467	0.0	15.0	645	88.458	88.011	-0.467	0.0	15.0
624	88.458	88.011	-0.467	0.0	15.0	646	88.458	88.011	-0.467	0.0	14.9
625	88.458	88.011	-0.467	0.0	15.0	647	88.458	88.011	-0.467	0.0	14.9
626	88.458	88.011	-0.467	0.0	15.0	648	88.458	88.011	-0.467	0.0	14.9
627	88.458	88.011	-0.467	0.0	15.0	649	88.458	88.011	-0.467	0.0	14.9
628	88.458	88.011	-0.467	0.0	15.0	650	88.458	88.011	-0.467	0.0	14.9
629	88.458	88.011	-0.467	0.0	15.0	651	88.458	88.011	-0.467	0.0	14.9
630	88.458	88.011	-0.467	0.0	15.0	652	88.458	88.011	-0.467	0.0	14.9
631	88.458	88.011	-0.467	0.0	15.0	653	88.458	88.011	-0.467	0.0	14.9
632	88.458	88.011	-0.467	0.0	15.0	654	88.458	88.011	-0.467	0.0	14.9
633	88.458	88.011	-0.467	0.0	15.0	655	88.458	88.011	-0.467	0.0	14.9
634	88.458	88.011	-0.467	0.0	15.0	656	88.458	88.011	-0.467	0.0	14.9
635	88.458	88.011	-0.467	0.0	15.0	657	88.458	88.011	-0.467	0.0	14.9
636	88.458	88.011	-0.467	0.0	15.0	658	88.458	88.011	-0.467	0.0	14.9
637	88.458	88.011	-0.467	0.0	15.0	659	88.458	88.011	-0.467	0.0	14.9
638	88.458	88.011	-0.467	0.0	15.0	660	88.458	88.011	-0.467	0.0	14.9



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Innovyze	Network 2018.1.1	


Flows and Levels for Pipe 1.005 US/MH S5.23 (SW 05)  
480 minute 100 year Winter I+30%  
Average Rainfall Intensity 11.472 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Pipe Flow (l/s)	Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Pipe Flow (l/s)
661	88.458	88.011	-0.467	0.0	14.9	683	88.458	88.010	-0.467	0.0	14.8
662	88.458	88.011	-0.467	0.0	14.9	684	88.458	88.010	-0.467	0.0	14.8
663	88.458	88.011	-0.467	0.0	14.9	685	88.458	88.010	-0.467	0.0	14.8
664	88.458	88.011	-0.467	0.0	14.9	686	88.458	88.010	-0.467	0.0	14.8
665	88.458	88.011	-0.467	0.0	14.9	687	88.458	88.010	-0.467	0.0	14.8
666	88.458	88.011	-0.467	0.0	14.9	688	88.458	88.010	-0.467	0.0	14.8
667	88.458	88.011	-0.467	0.0	14.8	689	88.458	88.010	-0.467	0.0	14.7
668	88.458	88.011	-0.467	0.0	14.8	690	88.458	88.010	-0.467	0.0	14.7
669	88.458	88.011	-0.467	0.0	14.8	691	88.458	88.010	-0.467	0.0	14.7
670	88.458	88.011	-0.467	0.0	14.8	692	88.458	88.010	-0.467	0.0	14.7
671	88.458	88.011	-0.467	0.0	14.8	693	88.458	88.010	-0.467	0.0	14.7
672	88.458	88.011	-0.467	0.0	14.8	694	88.458	88.010	-0.467	0.0	14.7
673	88.458	88.011	-0.467	0.0	14.8	695	88.458	88.010	-0.467	0.0	14.7
674	88.458	88.011	-0.467	0.0	14.8	696	88.458	88.010	-0.467	0.0	14.7
675	88.458	88.011	-0.467	0.0	14.8	697	88.458	88.010	-0.467	0.0	14.7
676	88.458	88.011	-0.467	0.0	14.8	698	88.458	88.010	-0.467	0.0	14.7
677	88.458	88.011	-0.467	0.0	14.8	699	88.458	88.010	-0.467	0.0	14.7
678	88.458	88.011	-0.467	0.0	14.8	700	88.458	88.010	-0.467	0.0	14.7
679	88.458	88.010	-0.467	0.0	14.8	701	88.458	88.010	-0.467	0.0	14.7
680	88.458	88.010	-0.467	0.0	14.8	702	88.458	88.010	-0.467	0.0	14.7
681	88.458	88.010	-0.467	0.0	14.8	703	88.458	88.010	-0.467	0.0	14.7
682	88.458	88.010	-0.467	0.0	14.8	704	88.458	88.010	-0.467	0.0	14.7

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Innovyze	Network 2018.1.1	


Flows and Levels for Pipe 1.005 US/MH S5.23 (SW 05)  
480 minute 100 year Winter I+30%  
Average Rainfall Intensity 11.472 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (1/s)	Pipe Flow (1/s)	Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (1/s)	Pipe Flow (1/s)
705	88.458	88.010	-0.467	0.0	14.7	727	88.458	88.010	-0.467	0.0	14.6
706	88.458	88.010	-0.467	0.0	14.7	728	88.458	88.010	-0.467	0.0	14.6
707	88.458	88.010	-0.467	0.0	14.7	729	88.458	88.010	-0.467	0.0	14.6
708	88.458	88.010	-0.467	0.0	14.7	730	88.458	88.010	-0.467	0.0	14.6
709	88.458	88.010	-0.467	0.0	14.7	731	88.458	88.010	-0.467	0.0	14.6
710	88.458	88.010	-0.467	0.0	14.6	732	88.458	88.010	-0.467	0.0	14.5
711	88.458	88.010	-0.467	0.0	14.6	733	88.458	88.010	-0.467	0.0	14.5
712	88.458	88.010	-0.467	0.0	14.6	734	88.458	88.010	-0.467	0.0	14.5
713	88.458	88.010	-0.467	0.0	14.6	735	88.458	88.010	-0.467	0.0	14.5
714	88.458	88.010	-0.467	0.0	14.6	736	88.458	88.010	-0.467	0.0	14.5
715	88.458	88.010	-0.467	0.0	14.6	737	88.458	88.010	-0.467	0.0	14.5
716	88.458	88.010	-0.467	0.0	14.6	738	88.458	88.010	-0.467	0.0	14.5
717	88.458	88.010	-0.467	0.0	14.6	739	88.458	88.010	-0.467	0.0	14.5
718	88.458	88.010	-0.467	0.0	14.6	740	88.458	88.010	-0.467	0.0	14.5
719	88.458	88.010	-0.467	0.0	14.6	741	88.458	88.010	-0.467	0.0	14.5
720	88.458	88.010	-0.467	0.0	14.6	742	88.458	88.010	-0.467	0.0	14.5
721	88.458	88.010	-0.467	0.0	14.6	743	88.458	88.010	-0.467	0.0	14.5
722	88.458	88.010	-0.467	0.0	14.6	744	88.458	88.010	-0.467	0.0	14.5
723	88.458	88.010	-0.467	0.0	14.6	745	88.458	88.010	-0.467	0.0	14.5
724	88.458	88.010	-0.467	0.0	14.6	746	88.457	88.010	-0.468	0.0	14.5
725	88.458	88.010	-0.467	0.0	14.6	747	88.457	88.010	-0.468	0.0	14.5
726	88.458	88.010	-0.467	0.0	14.6	748	88.457	88.010	-0.468	0.0	14.5

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Flows and Levels for Pipe 1.005 US/MH S5.23 (SW 05)  
480 minute 100 year Winter I+30%  
Average Rainfall Intensity 11.472 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (1/s)	Pipe Flow (1/s)	Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (1/s)	Pipe Flow (1/s)
749	88.457	88.010	-0.468	0.0	14.5	771	88.457	88.009	-0.468	0.0	14.4
750	88.457	88.010	-0.468	0.0	14.5	772	88.457	88.009	-0.468	0.0	14.4
751	88.457	88.010	-0.468	0.0	14.5	773	88.457	88.009	-0.468	0.0	14.4
752	88.457	88.009	-0.468	0.0	14.5	774	88.457	88.009	-0.468	0.0	14.3
753	88.457	88.009	-0.468	0.0	14.4	775	88.457	88.009	-0.468	0.0	14.3
754	88.457	88.009	-0.468	0.0	14.4	776	88.457	88.009	-0.468	0.0	14.3
755	88.457	88.009	-0.468	0.0	14.4	777	88.457	88.009	-0.468	0.0	14.3
756	88.457	88.009	-0.468	0.0	14.4	778	88.457	88.009	-0.468	0.0	14.3
757	88.457	88.009	-0.468	0.0	14.4	779	88.457	88.009	-0.468	0.0	14.3
758	88.457	88.009	-0.468	0.0	14.4	780	88.457	88.009	-0.468	0.0	14.3
759	88.457	88.009	-0.468	0.0	14.4	781	88.457	88.009	-0.468	0.0	14.3
760	88.457	88.009	-0.468	0.0	14.4	782	88.457	88.009	-0.468	0.0	14.3
761	88.457	88.009	-0.468	0.0	14.4	783	88.457	88.009	-0.468	0.0	14.3
762	88.457	88.009	-0.468	0.0	14.4	784	88.457	88.009	-0.468	0.0	14.3
763	88.457	88.009	-0.468	0.0	14.4	785	88.457	88.009	-0.468	0.0	14.3
764	88.457	88.009	-0.468	0.0	14.4	786	88.457	88.009	-0.468	0.0	14.3
765	88.457	88.009	-0.468	0.0	14.4	787	88.457	88.009	-0.468	0.0	14.3
766	88.457	88.009	-0.468	0.0	14.4	788	88.457	88.009	-0.468	0.0	14.3
767	88.457	88.009	-0.468	0.0	14.4	789	88.457	88.009	-0.468	0.0	14.3
768	88.457	88.009	-0.468	0.0	14.4	790	88.457	88.009	-0.468	0.0	14.3
769	88.457	88.009	-0.468	0.0	14.4	791	88.457	88.009	-0.468	0.0	14.3
770	88.457	88.009	-0.468	0.0	14.4	792	88.457	88.009	-0.468	0.0	14.3

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Innovyze	Network 2018.1.1	


Flows and Levels for Pipe 1.005 US/MH S5.23 (SW 05)  
480 minute 100 year Winter I+30%  
Average Rainfall Intensity 11.472 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (1/s)	Pipe Flow (1/s)	Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (1/s)	Pipe Flow (1/s)
793	88.457	88.009	-0.468	0.0	14.3	815	88.457	88.009	-0.468	0.0	14.2
794	88.457	88.009	-0.468	0.0	14.3	816	88.457	88.009	-0.468	0.0	14.1
795	88.457	88.009	-0.468	0.0	14.3	817	88.457	88.009	-0.468	0.0	14.1
796	88.457	88.009	-0.468	0.0	14.2	818	88.457	88.009	-0.468	0.0	14.1
797	88.457	88.009	-0.468	0.0	14.2	819	88.457	88.009	-0.468	0.0	14.1
798	88.457	88.009	-0.468	0.0	14.2	820	88.457	88.009	-0.468	0.0	14.1
799	88.457	88.009	-0.468	0.0	14.2	821	88.457	88.009	-0.468	0.0	14.1
800	88.457	88.009	-0.468	0.0	14.2	822	88.457	88.009	-0.468	0.0	14.1
801	88.457	88.009	-0.468	0.0	14.2	823	88.457	88.008	-0.468	0.0	14.1
802	88.457	88.009	-0.468	0.0	14.2	824	88.457	88.008	-0.468	0.0	14.1
803	88.457	88.009	-0.468	0.0	14.2	825	88.457	88.008	-0.468	0.0	14.1
804	88.457	88.009	-0.468	0.0	14.2	826	88.457	88.008	-0.468	0.0	14.1
805	88.457	88.009	-0.468	0.0	14.2	827	88.457	88.008	-0.468	0.0	14.1
806	88.457	88.009	-0.468	0.0	14.2	828	88.457	88.008	-0.468	0.0	14.1
807	88.457	88.009	-0.468	0.0	14.2	829	88.457	88.008	-0.468	0.0	14.1
808	88.457	88.009	-0.468	0.0	14.2	830	88.457	88.008	-0.468	0.0	14.1
809	88.457	88.009	-0.468	0.0	14.2	831	88.457	88.008	-0.468	0.0	14.1
810	88.457	88.009	-0.468	0.0	14.2	832	88.457	88.008	-0.468	0.0	14.1
811	88.457	88.009	-0.468	0.0	14.2	833	88.457	88.008	-0.468	0.0	14.1
812	88.457	88.009	-0.468	0.0	14.2	834	88.457	88.008	-0.468	0.0	14.1
813	88.457	88.009	-0.468	0.0	14.2	835	88.457	88.008	-0.468	0.0	14.1
814	88.457	88.009	-0.468	0.0	14.2	836	88.457	88.008	-0.468	0.0	14.1

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Blays House Wick Road Englefield Green Egham Surrey TW20 0HJ	Haverhill Great Willsey Park Area 5 : 1 in 100 480 min	
Date 4/7/2019 File HAVERHILL. ALL NETWORKS FOR TENDER.MDX	Designed by RMV Checked by DJ	
Innovyze	Network 2018.1.1	


Flows and Levels for Pipe 1.005 US/MH S5.23 (SW 05)  
480 minute 100 year Winter I+30%  
Average Rainfall Intensity 11.472 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (1/s)	Pipe Flow (1/s)	Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (1/s)	Pipe Flow (1/s)
837	88.457	88.008	-0.468	0.0	14.0	859	88.457	88.008	-0.468	0.0	13.9
838	88.457	88.008	-0.468	0.0	14.0	860	88.457	88.008	-0.468	0.0	13.9
839	88.457	88.008	-0.468	0.0	14.0	861	88.457	88.008	-0.468	0.0	13.9
840	88.457	88.008	-0.468	0.0	14.0	862	88.457	88.008	-0.468	0.0	13.9
841	88.457	88.008	-0.468	0.0	14.0	863	88.457	88.008	-0.468	0.0	13.9
842	88.457	88.008	-0.468	0.0	14.0	864	88.457	88.008	-0.468	0.0	13.9
843	88.457	88.008	-0.468	0.0	14.0	865	88.457	88.008	-0.468	0.0	13.9
844	88.457	88.008	-0.468	0.0	14.0	866	88.457	88.008	-0.468	0.0	13.9
845	88.457	88.008	-0.468	0.0	14.0	867	88.457	88.008	-0.468	0.0	13.9
846	88.457	88.008	-0.468	0.0	14.0	868	88.457	88.008	-0.468	0.0	13.9
847	88.457	88.008	-0.468	0.0	14.0	869	88.457	88.008	-0.468	0.0	13.9
848	88.457	88.008	-0.468	0.0	14.0	870	88.457	88.008	-0.468	0.0	13.9
849	88.457	88.008	-0.468	0.0	14.0	871	88.457	88.008	-0.468	0.0	13.9
850	88.457	88.008	-0.468	0.0	14.0	872	88.457	88.008	-0.468	0.0	13.9
851	88.457	88.008	-0.468	0.0	14.0	873	88.457	88.008	-0.468	0.0	13.9
852	88.457	88.008	-0.468	0.0	14.0	874	88.457	88.008	-0.468	0.0	13.9
853	88.457	88.008	-0.468	0.0	14.0	875	88.457	88.008	-0.468	0.0	13.9
854	88.457	88.008	-0.468	0.0	14.0	876	88.457	88.008	-0.468	0.0	13.9
855	88.457	88.008	-0.468	0.0	14.0	877	88.457	88.008	-0.468	0.0	13.9
856	88.457	88.008	-0.468	0.0	14.0	878	88.457	88.008	-0.468	0.0	13.9
857	88.457	88.008	-0.468	0.0	14.0	879	88.457	88.008	-0.468	0.0	13.9
858	88.457	88.008	-0.468	0.0	13.9	880	88.457	88.008	-0.468	0.0	13.8

Royal HaskoningDHV		Page 22
Blays House Wick Road Englefield Green Egham Surrey TW20 0HJ	Haverhill Great Willsey Park Area 5 : 1 in 100 480 min	
Date 4/7/2019 File HAVERHILL. ALL NETWORKS FOR TENDER.MDX	Designed by RMV Checked by DJ	
Innovyze	Network 2018.1.1	

Flows and Levels for Pipe 1.005 US/MH S5.23 (SW 05)  
480 minute 100 year Winter I+30%  
Average Rainfall Intensity 11.472 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (1/s)	Pipe Flow (1/s)	Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (1/s)	Pipe Flow (1/s)
881	88.457	88.008	-0.468	0.0	13.8	903	88.456	88.007	-0.469	0.0	13.7
882	88.457	88.008	-0.468	0.0	13.8	904	88.456	88.007	-0.469	0.0	13.7
883	88.457	88.008	-0.468	0.0	13.8	905	88.456	88.007	-0.469	0.0	13.7
884	88.457	88.008	-0.468	0.0	13.8	906	88.456	88.007	-0.469	0.0	13.7
885	88.457	88.008	-0.468	0.0	13.8	907	88.456	88.007	-0.469	0.0	13.7
886	88.457	88.008	-0.468	0.0	13.8	908	88.456	88.007	-0.469	0.0	13.7
887	88.457	88.008	-0.468	0.0	13.8	909	88.456	88.007	-0.469	0.0	13.7
888	88.457	88.008	-0.468	0.0	13.8	910	88.456	88.007	-0.469	0.0	13.7
889	88.456	88.008	-0.469	0.0	13.8	911	88.456	88.007	-0.469	0.0	13.7
890	88.456	88.008	-0.469	0.0	13.8	912	88.456	88.007	-0.469	0.0	13.7
891	88.456	88.008	-0.469	0.0	13.8	913	88.456	88.007	-0.469	0.0	13.7
892	88.456	88.008	-0.469	0.0	13.8	914	88.456	88.007	-0.469	0.0	13.7
893	88.456	88.008	-0.469	0.0	13.8	915	88.456	88.007	-0.469	0.0	13.7
894	88.456	88.008	-0.469	0.0	13.8	916	88.456	88.007	-0.469	0.0	13.7
895	88.456	88.007	-0.469	0.0	13.8	917	88.456	88.007	-0.469	0.0	13.7
896	88.456	88.007	-0.469	0.0	13.8	918	88.456	88.007	-0.469	0.0	13.7
897	88.456	88.007	-0.469	0.0	13.8	919	88.456	88.007	-0.469	0.0	13.7
898	88.456	88.007	-0.469	0.0	13.8	920	88.456	88.007	-0.469	0.0	13.7
899	88.456	88.007	-0.469	0.0	13.8	921	88.456	88.007	-0.469	0.0	13.7
900	88.456	88.007	-0.469	0.0	13.8	922	88.456	88.007	-0.469	0.0	13.6
901	88.456	88.007	-0.469	0.0	13.7	923	88.456	88.007	-0.469	0.0	13.6
902	88.456	88.007	-0.469	0.0	13.7	924	88.456	88.007	-0.469	0.0	13.6

Royal HaskoningDHV		Page 23
Blays House Wick Road Englefield Green Egham Surrey TW20 OHJ	Haverhill Great Willsey Park Area 5 : 1 in 100 480 min	
Date 4/7/2019 File HAVERHILL. ALL NETWORKS FOR TENDER.MDX	Designed by RMV Checked by DJ	
Innovyze	Network 2018.1.1	

Flows and Levels for Pipe 1.005 US/MH S5.23 (SW 05)  
480 minute 100 year Winter I+30%  
Average Rainfall Intensity 11.472 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (1/s)	Pipe Flow (1/s)	Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (1/s)	Pipe Flow (1/s)
925	88.456	88.007	-0.469	0.0	13.6	943	88.456	88.007	-0.469	0.0	13.5
926	88.456	88.007	-0.469	0.0	13.6	944	88.456	88.007	-0.469	0.0	13.5
927	88.456	88.007	-0.469	0.0	13.6	945	88.456	88.007	-0.469	0.0	13.5
928	88.456	88.007	-0.469	0.0	13.6	946	88.456	88.007	-0.469	0.0	13.5
929	88.456	88.007	-0.469	0.0	13.6	947	88.456	88.007	-0.469	0.0	13.5
930	88.456	88.007	-0.469	0.0	13.6	948	88.456	88.007	-0.469	0.0	13.5
931	88.456	88.007	-0.469	0.0	13.6	949	88.456	88.007	-0.469	0.0	13.5
932	88.456	88.007	-0.469	0.0	13.6	950	88.456	88.007	-0.469	0.0	13.5
933	88.456	88.007	-0.469	0.0	13.6	951	88.456	88.007	-0.469	0.0	13.5
934	88.456	88.007	-0.469	0.0	13.6	952	88.456	88.007	-0.469	0.0	13.5
935	88.456	88.007	-0.469	0.0	13.6	953	88.456	88.007	-0.469	0.0	13.5
936	88.456	88.007	-0.469	0.0	13.6	954	88.456	88.007	-0.469	0.0	13.5
937	88.456	88.007	-0.469	0.0	13.6	955	88.456	88.007	-0.469	0.0	13.5
938	88.456	88.007	-0.469	0.0	13.6	956	88.456	88.007	-0.469	0.0	13.5
939	88.456	88.007	-0.469	0.0	13.6	957	88.456	88.007	-0.469	0.0	13.5
940	88.456	88.007	-0.469	0.0	13.6	958	88.456	88.007	-0.469	0.0	13.5
941	88.456	88.007	-0.469	0.0	13.6	959	88.456	88.007	-0.469	0.0	13.5
942	88.456	88.007	-0.469	0.0	13.6	960	88.456	88.007	-0.469	0.0	13.5