

Blays House Wick Road
 Englefield Green Egham
 Surrey TW20 0HJ

Haverhill
 Great Willsey Park
 Area 2: 1 in 100 1440 min



Date 4/7/2019

Designed by RMV

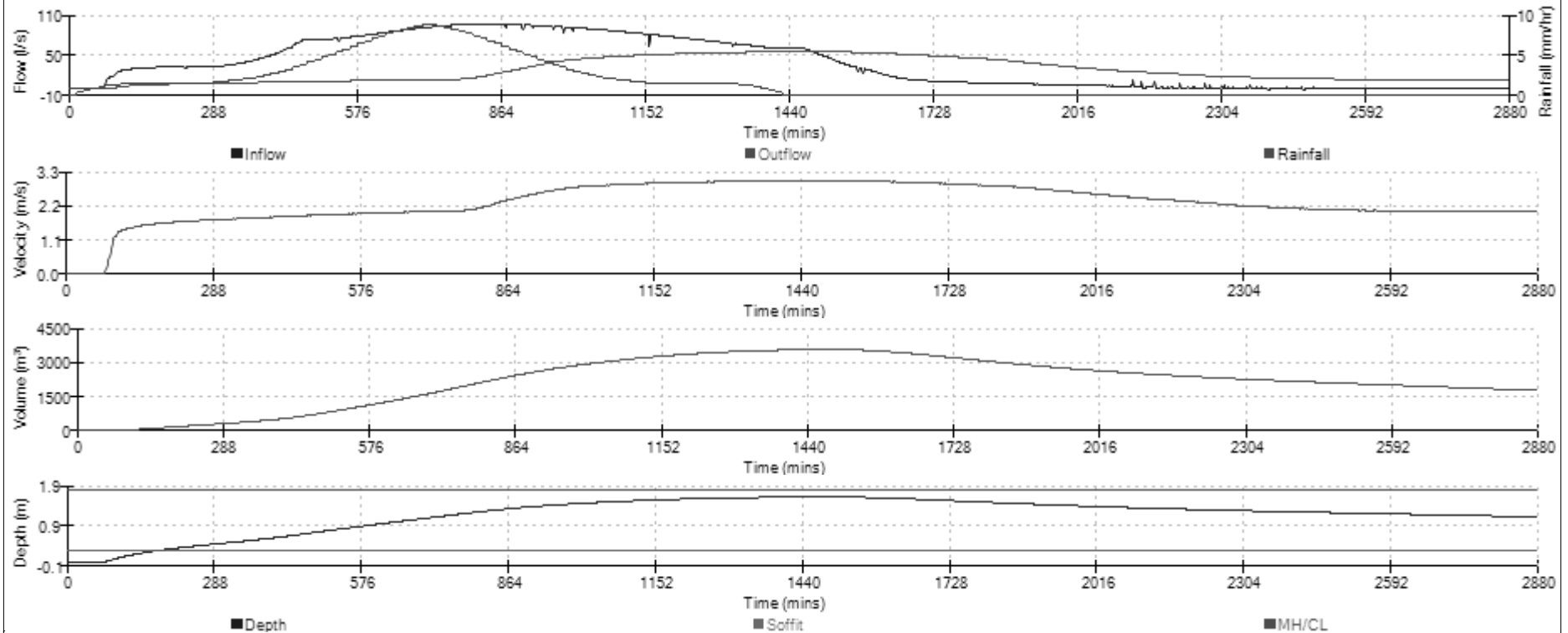
File HAVERHILL. ALL NETWORKS FOR TENDER.MDX

Checked by DJ

Innovyze

Network 2018.1.1

Graphs for Pipe 8.016 US/MH S2.53 FC (SW 02)
1440 minute 100 year Winter
Status: FLOOD RISK (1 of 4)



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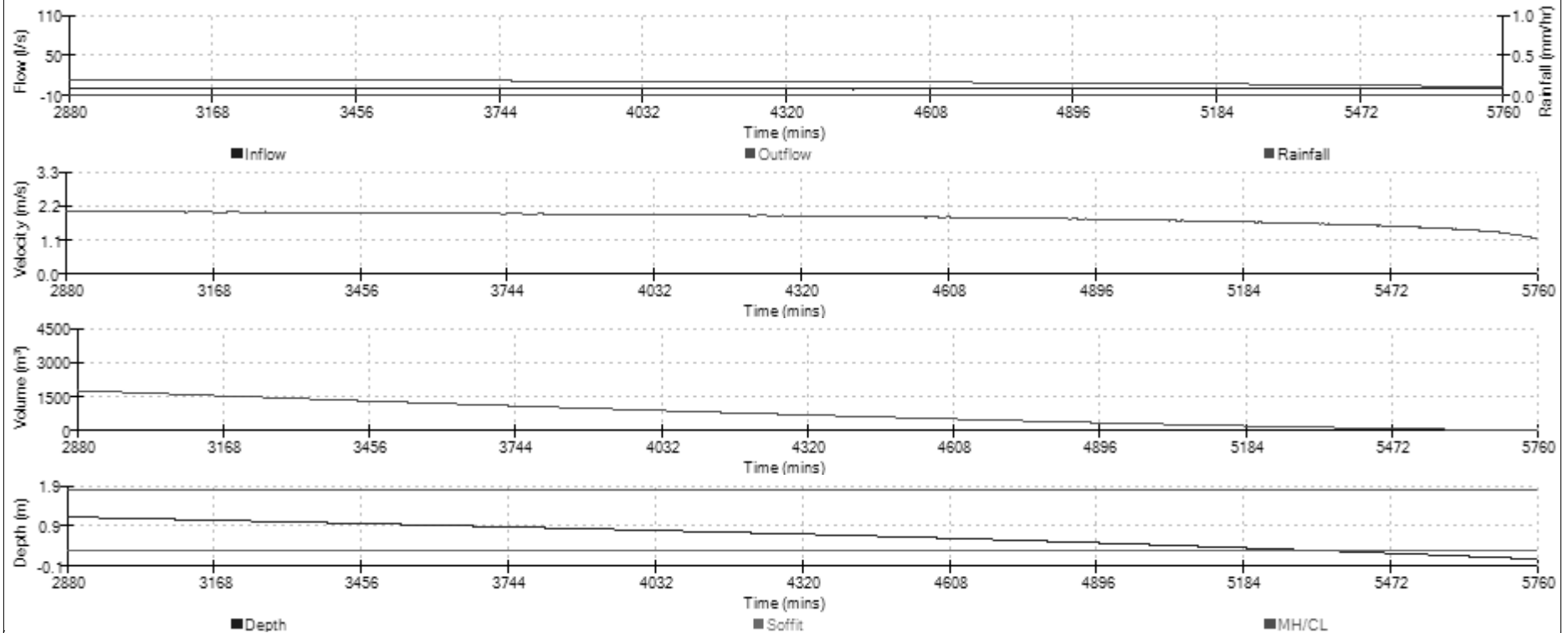
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Graphs for Pipe 8.016 US/MH S2.53 FC (SW 02)
1440 minute 100 year Winter
Status: FLOOD RISK (2 of 4)



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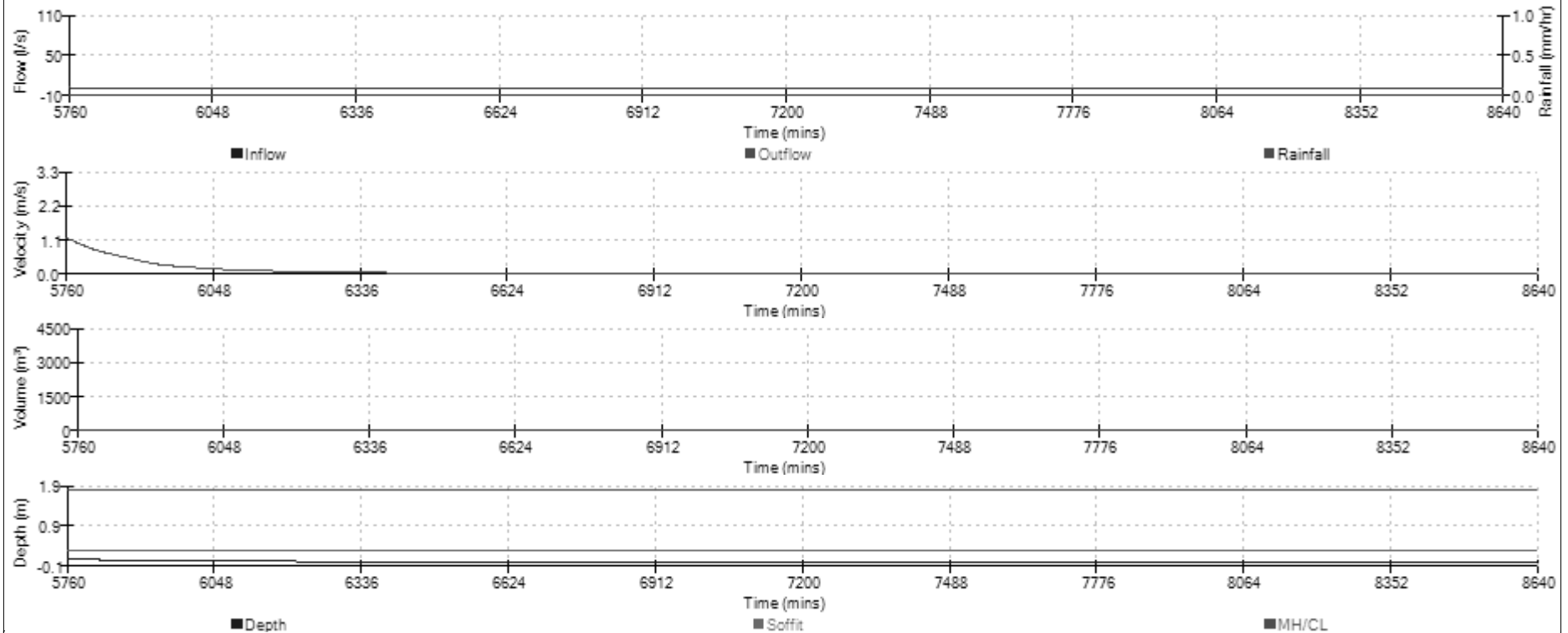
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Graphs for Pipe 8.016 US/MH S2.53 FC (SW 02)
1440 minute 100 year Winter
Status: FLOOD RISK (3 of 4)



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 Great Willsey Park
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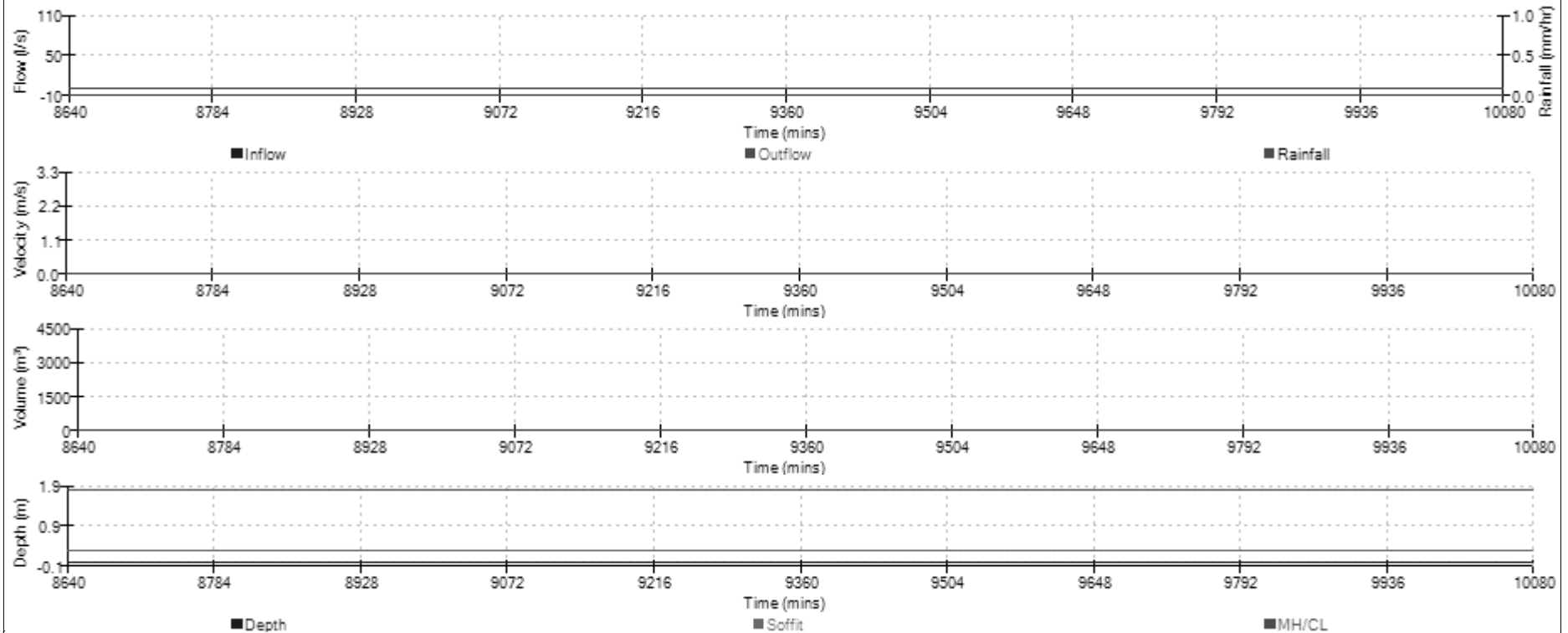
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Graphs for Pipe 8.016 US/MH S2.53 FC (SW 02)
1440 minute 100 year Winter
Status: FLOOD RISK (4 of 4)



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Flows and Levels for Pipe 8.016 US/MH S2.53 FC (SW 02)
1440 minute 100 year Winter
Average Rainfall Intensity 3.462 mm/hr (1 of 4)

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)
2	85.590	85.017	-0.300	0.0	0.0	46	85.590	85.017	-0.300	0.0	0.0
4	85.590	85.017	-0.300	0.0	0.0	48	85.590	85.017	-0.300	0.0	0.0
6	85.590	85.017	-0.300	0.0	0.0	50	85.590	85.017	-0.300	0.0	0.0
8	85.590	85.017	-0.300	0.0	0.0	52	85.590	85.017	-0.300	0.0	0.0
10	85.590	85.017	-0.300	0.0	0.0	54	85.590	85.017	-0.300	0.0	0.0
12	85.590	85.017	-0.300	0.0	0.0	56	85.590	85.017	-0.300	0.0	0.0
14	85.590	85.017	-0.300	0.0	0.0	58	85.590	85.017	-0.300	0.0	0.0
16	85.590	85.017	-0.300	0.0	0.0	60	85.590	85.017	-0.300	0.0	0.0
18	85.590	85.017	-0.300	0.0	0.0	62	85.590	85.017	-0.300	0.0	0.0
20	85.590	85.017	-0.300	0.0	0.0	64	85.590	85.017	-0.300	0.0	0.0
22	85.590	85.017	-0.300	0.0	0.0	66	85.590	85.017	-0.300	0.0	0.0
24	85.590	85.017	-0.300	0.0	0.0	68	85.590	85.020	-0.300	0.0	0.0
26	85.590	85.017	-0.300	0.0	0.0	70	85.591	85.020	-0.299	0.0	0.0
28	85.590	85.017	-0.300	0.0	0.0	72	85.594	85.022	-0.296	0.0	0.0
30	85.590	85.017	-0.300	0.0	0.0	74	85.599	85.024	-0.291	0.0	0.0
32	85.590	85.017	-0.300	0.0	0.0	76	85.606	85.030	-0.284	0.0	0.1
34	85.590	85.017	-0.300	0.0	0.0	78	85.614	85.031	-0.276	0.0	0.2
36	85.590	85.017	-0.300	0.0	0.0	80	85.621	85.033	-0.269	0.0	0.3
38	85.590	85.017	-0.300	0.0	0.0	82	85.629	85.038	-0.261	0.0	0.5
40	85.590	85.017	-0.300	0.0	0.0	84	85.637	85.044	-0.253	0.0	0.7
42	85.590	85.017	-0.300	0.0	0.0	86	85.643	85.050	-0.247	0.0	1.0
44	85.590	85.017	-0.300	0.0	0.0	88	85.650	85.055	-0.240	0.0	1.2

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Flows and Levels for Pipe 8.016 US/MH S2.53 FC (SW 02)
1440 minute 100 year Winter
Average Rainfall Intensity 3.462 mm/hr (1 of 4)

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)
90	85.657	85.057	-0.233	0.0	1.5	134	85.790	85.084	-0.100	0.0	5.3
92	85.665	85.059	-0.225	0.0	1.7	136	85.794	85.085	-0.096	0.0	5.4
94	85.672	85.061	-0.218	0.0	2.0	138	85.799	85.085	-0.091	0.0	5.5
96	85.679	85.064	-0.211	0.0	2.4	140	85.804	85.086	-0.086	0.0	5.5
98	85.686	85.066	-0.204	0.0	2.7	142	85.808	85.086	-0.082	0.0	5.6
100	85.693	85.068	-0.197	0.0	3.0	144	85.813	85.086	-0.077	0.0	5.7
102	85.700	85.070	-0.190	0.0	3.3	146	85.817	85.086	-0.073	0.0	5.7
104	85.707	85.072	-0.183	0.0	3.6	148	85.821	85.087	-0.069	0.0	5.8
106	85.714	85.073	-0.176	0.0	3.8	150	85.825	85.087	-0.065	0.0	5.9
108	85.720	85.074	-0.170	0.0	3.9	152	85.829	85.087	-0.061	0.0	5.9
110	85.726	85.075	-0.164	0.0	4.1	154	85.834	85.088	-0.056	0.0	6.0
112	85.732	85.076	-0.158	0.0	4.2	156	85.838	85.088	-0.052	0.0	6.1
114	85.737	85.077	-0.153	0.0	4.3	158	85.841	85.088	-0.049	0.0	6.1
116	85.743	85.078	-0.147	0.0	4.4	160	85.845	85.088	-0.045	0.0	6.2
118	85.749	85.079	-0.141	0.0	4.6	162	85.849	85.089	-0.041	0.0	6.2
120	85.754	85.080	-0.136	0.0	4.7	164	85.853	85.089	-0.037	0.0	6.3
122	85.759	85.080	-0.131	0.0	4.8	166	85.857	85.089	-0.033	0.0	6.3
124	85.765	85.081	-0.125	0.0	4.9	168	85.861	85.089	-0.029	0.0	6.4
126	85.770	85.082	-0.120	0.0	5.0	170	85.864	85.090	-0.026	0.0	6.4
128	85.775	85.082	-0.115	0.0	5.0	172	85.868	85.090	-0.022	0.0	6.5
130	85.780	85.083	-0.110	0.0	5.1	174	85.872	85.090	-0.018	0.0	6.5
132	85.785	85.084	-0.105	0.0	5.2	176	85.875	85.090	-0.015	0.0	6.6

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178	85.879	85.091	-0.011	0.0	6.6	222	85.951	85.095	0.061	0.0	7.6
180	85.883	85.091	-0.007	0.0	6.7	224	85.954	85.095	0.064	0.0	7.6
182	85.886	85.091	-0.004	0.0	6.7	226	85.956	85.095	0.066	0.0	7.6
184	85.890	85.091	0.000	0.0	6.8	228	85.959	85.095	0.069	0.0	7.6
186	85.893	85.091	0.003	0.0	6.8	230	85.962	85.095	0.072	0.0	7.7
188	85.897	85.092	0.007	0.0	6.9	232	85.965	85.095	0.075	0.0	7.7
190	85.900	85.092	0.010	0.0	6.9	234	85.967	85.095	0.077	0.0	7.7
192	85.903	85.092	0.013	0.0	7.0	236	85.970	85.096	0.080	0.0	7.8
194	85.907	85.092	0.017	0.0	7.0	238	85.973	85.096	0.083	0.0	7.8
196	85.910	85.092	0.020	0.0	7.1	240	85.976	85.096	0.086	0.0	7.8
198	85.913	85.093	0.023	0.0	7.1	242	85.979	85.096	0.089	0.0	7.9
200	85.917	85.093	0.027	0.0	7.1	244	85.981	85.096	0.091	0.0	7.9
202	85.920	85.093	0.030	0.0	7.2	246	85.984	85.096	0.094	0.0	7.9
204	85.923	85.093	0.033	0.0	7.2	248	85.987	85.096	0.097	0.0	8.0
206	85.926	85.093	0.036	0.0	7.3	250	85.990	85.097	0.100	0.0	8.0
208	85.929	85.093	0.039	0.0	7.3	252	85.992	85.097	0.102	0.0	8.0
210	85.933	85.094	0.043	0.0	7.3	254	85.995	85.097	0.105	0.0	8.1
212	85.936	85.094	0.046	0.0	7.4	256	85.998	85.097	0.108	0.0	8.1
214	85.939	85.094	0.049	0.0	7.4	258	86.000	85.097	0.110	0.0	8.1
216	85.942	85.094	0.052	0.0	7.4	260	86.003	85.097	0.113	0.0	8.1
218	85.945	85.094	0.055	0.0	7.5	262	86.006	85.097	0.116	0.0	8.2
220	85.948	85.094	0.058	0.0	7.5	264	86.008	85.098	0.118	0.0	8.2

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Average Rainfall Intensity 3.462 mm/hr (1 of 4)

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266	86.011	85.098	0.121	0.0	8.2	310	86.066	85.100	0.176	0.0	8.8
268	86.013	85.098	0.123	0.0	8.3	312	86.069	85.100	0.179	0.0	8.8
270	86.016	85.098	0.126	0.0	8.3	314	86.071	85.100	0.181	0.0	8.9
272	86.019	85.098	0.129	0.0	8.3	316	86.074	85.101	0.184	0.0	8.9
274	86.021	85.098	0.131	0.0	8.3	318	86.076	85.101	0.186	0.0	8.9
276	86.024	85.098	0.134	0.0	8.4	320	86.079	85.101	0.189	0.0	8.9
278	86.026	85.098	0.136	0.0	8.4	322	86.081	85.101	0.191	0.0	9.0
280	86.029	85.098	0.139	0.0	8.4	324	86.084	85.101	0.194	0.0	9.0
282	86.031	85.099	0.141	0.0	8.5	326	86.086	85.101	0.196	0.0	9.0
284	86.034	85.099	0.144	0.0	8.5	328	86.089	85.101	0.199	0.0	9.0
286	86.036	85.099	0.146	0.0	8.5	330	86.091	85.101	0.201	0.0	9.1
288	86.039	85.099	0.149	0.0	8.5	332	86.094	85.101	0.204	0.0	9.1
290	86.041	85.099	0.151	0.0	8.6	334	86.096	85.102	0.206	0.0	9.1
292	86.044	85.099	0.154	0.0	8.6	336	86.099	85.102	0.209	0.0	9.1
294	86.046	85.099	0.156	0.0	8.6	338	86.102	85.102	0.212	0.0	9.2
296	86.049	85.099	0.159	0.0	8.6	340	86.104	85.102	0.214	0.0	9.2
298	86.051	85.100	0.161	0.0	8.7	342	86.107	85.102	0.217	0.0	9.2
300	86.054	85.100	0.164	0.0	8.7	344	86.109	85.102	0.219	0.0	9.2
302	86.056	85.100	0.166	0.0	8.7	346	86.112	85.102	0.222	0.0	9.3
304	86.059	85.100	0.169	0.0	8.7	348	86.115	85.102	0.225	0.0	9.3
306	86.061	85.100	0.171	0.0	8.8	350	86.117	85.103	0.227	0.0	9.3
308	86.064	85.100	0.174	0.0	8.8	352	86.120	85.103	0.230	0.0	9.3

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354	86.122	85.103	0.232	0.0	9.4	398	86.184	85.105	0.294	0.0	9.9
356	86.125	85.103	0.235	0.0	9.4	400	86.187	85.105	0.297	0.0	10.0
358	86.128	85.103	0.238	0.0	9.4	402	86.190	85.106	0.300	0.0	10.0
360	86.130	85.103	0.240	0.0	9.4	404	86.192	85.106	0.302	0.0	10.0
362	86.133	85.103	0.243	0.0	9.5	406	86.195	85.106	0.305	0.0	10.0
364	86.136	85.103	0.246	0.0	9.5	408	86.198	85.106	0.308	0.0	10.1
366	86.138	85.103	0.248	0.0	9.5	410	86.201	85.106	0.311	0.0	10.1
368	86.141	85.104	0.251	0.0	9.5	412	86.205	85.106	0.315	0.0	10.1
370	86.144	85.104	0.254	0.0	9.6	414	86.208	85.106	0.318	0.0	10.1
372	86.147	85.104	0.257	0.0	9.6	416	86.212	85.106	0.322	0.0	10.2
374	86.149	85.104	0.259	0.0	9.6	418	86.215	85.107	0.325	0.0	10.2
376	86.152	85.104	0.262	0.0	9.6	420	86.218	85.107	0.328	0.0	10.2
378	86.155	85.104	0.265	0.0	9.7	422	86.221	85.107	0.331	0.0	10.3
380	86.158	85.104	0.268	0.0	9.7	424	86.224	85.107	0.334	0.0	10.3
382	86.161	85.104	0.271	0.0	9.7	426	86.227	85.107	0.337	0.0	10.3
384	86.163	85.104	0.273	0.0	9.7	428	86.231	85.107	0.341	0.0	10.3
386	86.166	85.105	0.276	0.0	9.8	430	86.235	85.107	0.345	0.0	10.4
388	86.169	85.105	0.279	0.0	9.8	432	86.238	85.107	0.348	0.0	10.4
390	86.172	85.105	0.282	0.0	9.8	434	86.241	85.108	0.351	0.0	10.4
392	86.175	85.105	0.285	0.0	9.9	436	86.245	85.108	0.355	0.0	10.5
394	86.178	85.105	0.288	0.0	9.9	438	86.248	85.108	0.358	0.0	10.5
396	86.181	85.105	0.291	0.0	9.9	440	86.251	85.108	0.361	0.0	10.5

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442	86.255	85.108	0.365	0.0	10.5	486	86.333	85.111	0.443	0.0	11.2
444	86.258	85.108	0.368	0.0	10.6	488	86.337	85.111	0.447	0.0	11.2
446	86.262	85.108	0.372	0.0	10.6	490	86.340	85.111	0.450	0.0	11.2
448	86.265	85.108	0.375	0.0	10.6	492	86.344	85.111	0.454	0.0	11.3
450	86.269	85.109	0.379	0.0	10.7	494	86.348	85.112	0.458	0.0	11.3
452	86.272	85.109	0.382	0.0	10.7	496	86.351	85.112	0.461	0.0	11.3
454	86.275	85.109	0.385	0.0	10.7	498	86.354	85.112	0.464	0.0	11.4
456	86.279	85.109	0.389	0.0	10.7	500	86.357	85.112	0.467	0.0	11.4
458	86.283	85.109	0.393	0.0	10.8	502	86.361	85.112	0.471	0.0	11.4
460	86.286	85.109	0.396	0.0	10.8	504	86.365	85.112	0.475	0.0	11.4
462	86.290	85.109	0.400	0.0	10.8	506	86.368	85.112	0.478	0.0	11.5
464	86.294	85.110	0.404	0.0	10.9	508	86.371	85.112	0.481	0.0	11.5
466	86.297	85.110	0.407	0.0	10.9	510	86.374	85.112	0.484	0.0	11.5
468	86.301	85.110	0.411	0.0	10.9	512	86.378	85.113	0.488	0.0	11.5
470	86.304	85.110	0.414	0.0	11.0	514	86.381	85.113	0.491	0.0	11.6
472	86.308	85.110	0.418	0.0	11.0	516	86.385	85.113	0.495	0.0	11.6
474	86.312	85.110	0.422	0.0	11.0	518	86.389	85.113	0.499	0.0	11.6
476	86.315	85.110	0.425	0.0	11.0	520	86.392	85.113	0.502	0.0	11.6
478	86.319	85.110	0.429	0.0	11.1	522	86.395	85.113	0.505	0.0	11.7
480	86.323	85.111	0.433	0.0	11.1	524	86.398	85.113	0.508	0.0	11.7
482	86.326	85.111	0.436	0.0	11.1	526	86.402	85.113	0.512	0.0	11.7
484	86.330	85.111	0.440	0.0	11.2	528	86.405	85.114	0.515	0.0	11.7

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Flows and Levels for Pipe 8.016 US/MH S2.53 FC (SW 02)
1440 minute 100 year Winter
Average Rainfall Intensity 3.462 mm/hr (1 of 4)

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)
530	86.408	85.114	0.518	0.0	11.8	574	86.480	85.116	0.590	0.0	12.3
532	86.411	85.114	0.521	0.0	11.8	576	86.483	85.116	0.593	0.0	12.3
534	86.414	85.114	0.524	0.0	11.8	578	86.486	85.116	0.596	0.0	12.3
536	86.418	85.114	0.528	0.0	11.8	580	86.489	85.116	0.599	0.0	12.4
538	86.421	85.114	0.531	0.0	11.9	582	86.492	85.116	0.602	0.0	12.4
540	86.425	85.114	0.535	0.0	11.9	584	86.496	85.116	0.606	0.0	12.4
542	86.428	85.114	0.538	0.0	11.9	586	86.499	85.116	0.609	0.0	12.4
544	86.431	85.114	0.541	0.0	11.9	588	86.502	85.116	0.612	0.0	12.5
546	86.434	85.114	0.544	0.0	12.0	590	86.505	85.116	0.615	0.0	12.5
548	86.437	85.115	0.547	0.0	12.0	592	86.508	85.116	0.618	0.0	12.5
550	86.441	85.115	0.551	0.0	12.0	594	86.512	85.117	0.622	0.0	12.5
552	86.444	85.115	0.554	0.0	12.0	596	86.515	85.117	0.625	0.0	12.6
554	86.447	85.115	0.557	0.0	12.1	598	86.518	85.117	0.628	0.0	12.6
556	86.451	85.115	0.561	0.0	12.1	600	86.521	85.117	0.631	0.0	12.6
558	86.454	85.115	0.564	0.0	12.1	602	86.524	85.117	0.634	0.0	12.6
560	86.457	85.115	0.567	0.0	12.1	604	86.527	85.117	0.637	0.0	12.6
562	86.460	85.115	0.570	0.0	12.2	606	86.531	85.117	0.641	0.0	12.7
564	86.463	85.115	0.573	0.0	12.2	608	86.534	85.117	0.644	0.0	12.7
566	86.467	85.115	0.577	0.0	12.2	610	86.537	85.117	0.647	0.0	12.7
568	86.470	85.116	0.580	0.0	12.2	612	86.540	85.117	0.650	0.0	12.7
570	86.473	85.116	0.583	0.0	12.3	614	86.543	85.117	0.653	0.0	12.8
572	86.476	85.116	0.586	0.0	12.3	616	86.546	85.117	0.656	0.0	12.8

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Flows and Levels for Pipe 8.016 US/MH S2.53 FC (SW 02)
1440 minute 100 year Winter
Average Rainfall Intensity 3.462 mm/hr (1 of 4)

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)
618	86.550	85.117	0.660	0.0	12.8	662	86.619	85.119	0.729	0.0	13.3
620	86.553	85.118	0.663	0.0	12.8	664	86.622	85.119	0.732	0.0	13.3
622	86.556	85.118	0.666	0.0	12.8	666	86.625	85.119	0.735	0.0	13.3
624	86.559	85.118	0.669	0.0	12.9	668	86.628	85.119	0.738	0.0	13.3
626	86.562	85.118	0.672	0.0	12.9	670	86.631	85.119	0.741	0.0	13.4
628	86.565	85.118	0.675	0.0	12.9	672	86.634	85.119	0.744	0.0	13.4
630	86.568	85.118	0.678	0.0	12.9	674	86.637	85.120	0.747	0.0	13.4
632	86.572	85.118	0.682	0.0	12.9	676	86.640	85.120	0.750	0.0	13.4
634	86.575	85.118	0.685	0.0	13.0	678	86.644	85.120	0.754	0.0	13.4
636	86.578	85.118	0.688	0.0	13.0	680	86.647	85.120	0.757	0.0	13.5
638	86.581	85.118	0.691	0.0	13.0	682	86.650	85.120	0.760	0.0	13.5
640	86.584	85.118	0.694	0.0	13.0	684	86.653	85.120	0.763	0.0	13.5
642	86.587	85.118	0.697	0.0	13.1	686	86.656	85.120	0.766	0.0	13.5
644	86.590	85.118	0.700	0.0	13.1	688	86.659	85.120	0.769	0.0	13.5
646	86.593	85.119	0.703	0.0	13.1	690	86.662	85.120	0.772	0.0	13.6
648	86.597	85.119	0.707	0.0	13.1	692	86.665	85.120	0.775	0.0	13.6
650	86.600	85.119	0.710	0.0	13.1	694	86.669	85.120	0.779	0.0	13.6
652	86.603	85.119	0.713	0.0	13.2	696	86.672	85.120	0.782	0.0	13.6
654	86.606	85.119	0.716	0.0	13.2	698	86.675	85.120	0.785	0.0	13.6
656	86.609	85.119	0.719	0.0	13.2	700	86.678	85.120	0.788	0.0	13.7
658	86.612	85.119	0.722	0.0	13.2	702	86.681	85.121	0.791	0.0	13.7
660	86.615	85.119	0.725	0.0	13.2	704	86.684	85.121	0.794	0.0	13.7

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1440 minute 100 year Winter
Average Rainfall Intensity 3.462 mm/hr (1 of 4)

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)
706	86.687	85.121	0.797	0.0	13.7	750	86.755	85.122	0.865	0.0	14.2
708	86.690	85.121	0.800	0.0	13.7	752	86.759	85.122	0.869	0.0	14.2
710	86.694	85.121	0.804	0.0	13.8	754	86.762	85.122	0.872	0.0	14.2
712	86.697	85.121	0.807	0.0	13.8	756	86.764	85.122	0.874	0.0	14.2
714	86.700	85.121	0.810	0.0	13.8	758	86.768	85.122	0.878	0.0	14.2
716	86.703	85.121	0.813	0.0	13.8	760	86.771	85.123	0.881	0.0	14.3
718	86.706	85.121	0.816	0.0	13.8	762	86.774	85.123	0.884	0.0	14.3
720	86.709	85.121	0.819	0.0	13.9	764	86.776	85.123	0.886	0.0	14.3
722	86.712	85.121	0.822	0.0	13.9	766	86.779	85.123	0.889	0.0	14.3
724	86.715	85.121	0.825	0.0	13.9	768	86.783	85.123	0.893	0.0	14.3
726	86.718	85.121	0.828	0.0	13.9	770	86.786	85.123	0.896	0.0	14.4
728	86.722	85.121	0.832	0.0	13.9	772	86.789	85.123	0.899	0.0	14.4
730	86.725	85.122	0.835	0.0	14.0	774	86.792	85.123	0.902	0.0	14.4
732	86.728	85.122	0.838	0.0	14.0	776	86.795	85.123	0.905	0.0	14.4
734	86.731	85.122	0.841	0.0	14.0	778	86.798	85.123	0.908	0.0	14.5
736	86.733	85.122	0.843	0.0	14.0	780	86.801	85.123	0.911	0.0	14.5
738	86.736	85.122	0.846	0.0	14.0	782	86.804	85.124	0.914	0.0	14.6
740	86.740	85.122	0.850	0.0	14.1	784	86.807	85.124	0.917	0.0	14.7
742	86.743	85.122	0.853	0.0	14.1	786	86.810	85.124	0.920	0.0	14.8
744	86.746	85.122	0.856	0.0	14.1	788	86.813	85.125	0.923	0.0	14.9
746	86.749	85.122	0.859	0.0	14.1	790	86.816	85.125	0.926	0.0	14.9
748	86.752	85.122	0.862	0.0	14.1	792	86.819	85.125	0.929	0.0	15.0

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Average Rainfall Intensity 3.462 mm/hr (1 of 4)

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)
794	86.822	85.126	0.932	0.0	15.2	838	86.884	85.144	0.994	0.0	20.4
796	86.825	85.126	0.935	0.0	15.3	840	86.887	85.145	0.997	0.0	20.7
798	86.828	85.127	0.938	0.0	15.5	842	86.889	85.146	0.999	0.0	21.1
800	86.830	85.127	0.940	0.0	15.6	844	86.891	85.147	1.001	0.0	21.5
802	86.834	85.128	0.944	0.0	15.8	846	86.894	85.149	1.004	0.0	21.8
804	86.837	85.129	0.947	0.0	16.0	848	86.897	85.150	1.007	0.0	22.2
806	86.840	85.129	0.950	0.0	16.2	850	86.900	85.151	1.010	0.0	22.5
808	86.842	85.130	0.952	0.0	16.3	852	86.902	85.151	1.012	0.0	22.8
810	86.845	85.131	0.955	0.0	16.5	854	86.904	85.152	1.014	0.0	23.0
812	86.848	85.131	0.958	0.0	16.7	856	86.907	85.153	1.017	0.0	23.3
814	86.851	85.132	0.961	0.0	17.0	858	86.909	85.154	1.019	0.0	23.6
816	86.854	85.133	0.964	0.0	17.2	860	86.912	85.155	1.022	0.0	23.9
818	86.857	85.134	0.967	0.0	17.5	862	86.914	85.156	1.024	0.0	24.1
820	86.859	85.135	0.969	0.0	17.7	864	86.916	85.156	1.026	0.0	24.4
822	86.862	85.135	0.972	0.0	18.0	866	86.918	85.157	1.028	0.0	24.6
824	86.865	85.137	0.975	0.0	18.2	868	86.920	85.157	1.030	0.0	24.8
826	86.868	85.137	0.978	0.0	18.4	870	86.924	85.159	1.034	0.0	25.2
828	86.870	85.138	0.980	0.0	18.7	872	86.926	85.159	1.036	0.0	25.4
830	86.873	85.139	0.983	0.0	18.9	874	86.929	85.160	1.039	0.0	25.7
832	86.875	85.140	0.985	0.0	19.2	876	86.931	85.161	1.041	0.0	25.9
834	86.878	85.141	0.988	0.0	19.6	878	86.933	85.162	1.043	0.0	26.2
836	86.881	85.143	0.991	0.0	20.0	880	86.935	85.162	1.045	0.0	26.5

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1440 minute 100 year Winter
Average Rainfall Intensity 3.462 mm/hr (1 of 4)

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)
882	86.937	85.163	1.047	0.0	26.7	926	86.984	85.184	1.094	0.0	33.7
884	86.939	85.164	1.049	0.0	27.1	928	86.986	85.185	1.096	0.0	34.0
886	86.942	85.166	1.052	0.0	27.5	930	86.988	85.186	1.098	0.0	34.3
888	86.945	85.167	1.055	0.0	27.8	932	86.990	85.187	1.100	0.0	34.6
890	86.947	85.168	1.057	0.0	28.2	934	86.991	85.187	1.101	0.0	34.9
892	86.949	85.169	1.059	0.0	28.5	936	86.993	85.188	1.103	0.0	35.1
894	86.951	85.170	1.061	0.0	28.8	938	86.995	85.189	1.105	0.0	35.4
896	86.953	85.170	1.063	0.0	29.1	940	86.997	85.190	1.107	0.0	35.7
898	86.955	85.171	1.065	0.0	29.3	942	86.999	85.191	1.109	0.0	36.0
900	86.957	85.172	1.067	0.0	29.7	944	87.001	85.191	1.111	0.0	36.3
902	86.959	85.173	1.069	0.0	30.0	946	87.002	85.192	1.112	0.0	36.6
904	86.962	85.174	1.072	0.0	30.4	948	87.004	85.192	1.114	0.0	36.8
906	86.964	85.175	1.074	0.0	30.7	950	87.006	85.194	1.116	0.0	37.1
908	86.966	85.176	1.076	0.0	31.0	952	87.008	85.195	1.118	0.0	37.4
910	86.968	85.177	1.078	0.0	31.3	954	87.010	85.195	1.120	0.0	37.7
912	86.970	85.178	1.080	0.0	31.6	956	87.012	85.196	1.122	0.0	38.0
914	86.972	85.179	1.082	0.0	31.9	958	87.013	85.197	1.123	0.0	38.2
916	86.974	85.180	1.084	0.0	32.2	960	87.015	85.198	1.125	0.0	38.5
918	86.975	85.180	1.085	0.0	32.4	962	87.016	85.198	1.126	0.0	38.7
920	86.977	85.181	1.087	0.0	32.7	964	87.018	85.199	1.128	0.0	39.0
922	86.979	85.182	1.089	0.0	33.0	966	87.020	85.200	1.130	0.0	39.3
924	86.982	85.183	1.092	0.0	33.4	968	87.022	85.201	1.132	0.0	39.5

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Flows and Levels for Pipe 8.016 US/MH S2.53 FC (SW 02)
1440 minute 100 year Winter
Average Rainfall Intensity 3.462 mm/hr (1 of 4)

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)
970	87.024	85.201	1.134	0.0	39.8	1014	87.056	85.214	1.166	0.0	44.3
972	87.025	85.202	1.135	0.0	40.0	1016	87.057	85.215	1.167	0.0	44.4
974	87.027	85.203	1.137	0.0	40.3	1018	87.059	85.215	1.169	0.0	44.5
976	87.028	85.204	1.138	0.0	40.5	1020	87.060	85.216	1.170	0.0	44.7
978	87.030	85.204	1.140	0.0	40.8	1022	87.062	85.216	1.172	0.0	44.8
980	87.031	85.204	1.141	0.0	41.0	1024	87.063	85.216	1.173	0.0	44.9
982	87.032	85.205	1.142	0.0	41.2	1026	87.065	85.217	1.175	0.0	45.0
984	87.034	85.206	1.144	0.0	41.4	1028	87.066	85.217	1.176	0.0	45.1
986	87.036	85.207	1.146	0.0	41.7	1030	87.067	85.217	1.177	0.0	45.2
988	87.038	85.208	1.148	0.0	42.0	1032	87.069	85.218	1.179	0.0	45.3
990	87.039	85.208	1.149	0.0	42.2	1034	87.070	85.218	1.180	0.0	45.5
992	87.041	85.209	1.151	0.0	42.4	1036	87.072	85.218	1.182	0.0	45.6
994	87.042	85.210	1.152	0.0	42.7	1038	87.073	85.219	1.183	0.0	45.7
996	87.044	85.210	1.154	0.0	42.9	1040	87.074	85.219	1.184	0.0	45.8
998	87.045	85.211	1.155	0.0	43.1	1042	87.075	85.219	1.185	0.0	45.9
1000	87.046	85.211	1.156	0.0	43.3	1044	87.076	85.219	1.186	0.0	46.0
1002	87.047	85.212	1.157	0.0	43.5	1046	87.078	85.220	1.188	0.0	46.1
1004	87.049	85.213	1.159	0.0	43.7	1048	87.079	85.220	1.189	0.0	46.2
1006	87.051	85.213	1.161	0.0	43.8	1050	87.081	85.221	1.191	0.0	46.3
1008	87.052	85.213	1.162	0.0	43.9	1052	87.082	85.221	1.192	0.0	46.4
1010	87.054	85.214	1.164	0.0	44.0	1054	87.083	85.221	1.193	0.0	46.5
1012	87.055	85.214	1.165	0.0	44.2	1056	87.084	85.221	1.194	0.0	46.6

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1440 minute 100 year Winter
Average Rainfall Intensity 3.462 mm/hr (1 of 4)

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)
1058	87.086	85.222	1.196	0.0	46.7	1102	87.111	85.228	1.221	0.0	48.7
1060	87.087	85.222	1.197	0.0	46.8	1104	87.112	85.228	1.222	0.0	48.8
1062	87.088	85.222	1.198	0.0	46.9	1106	87.114	85.228	1.224	0.0	48.9
1064	87.089	85.223	1.199	0.0	47.0	1108	87.115	85.229	1.225	0.0	49.0
1066	87.091	85.223	1.201	0.0	47.1	1110	87.116	85.229	1.226	0.0	49.1
1068	87.092	85.223	1.202	0.0	47.2	1112	87.116	85.229	1.226	0.0	49.1
1070	87.093	85.224	1.203	0.0	47.3	1114	87.118	85.229	1.228	0.0	49.2
1072	87.094	85.224	1.204	0.0	47.4	1116	87.119	85.230	1.229	0.0	49.3
1074	87.095	85.224	1.205	0.0	47.5	1118	87.120	85.230	1.230	0.0	49.4
1076	87.097	85.224	1.207	0.0	47.6	1120	87.121	85.230	1.231	0.0	49.5
1078	87.098	85.225	1.208	0.0	47.7	1122	87.122	85.230	1.232	0.0	49.5
1080	87.099	85.225	1.209	0.0	47.8	1124	87.123	85.230	1.233	0.0	49.6
1082	87.100	85.225	1.210	0.0	47.9	1126	87.124	85.231	1.234	0.0	49.7
1084	87.101	85.226	1.211	0.0	48.0	1128	87.125	85.231	1.235	0.0	49.8
1086	87.102	85.226	1.212	0.0	48.0	1130	87.126	85.231	1.236	0.0	49.8
1088	87.103	85.226	1.213	0.0	48.1	1132	87.127	85.231	1.237	0.0	49.9
1090	87.104	85.226	1.214	0.0	48.2	1134	87.128	85.232	1.238	0.0	50.0
1092	87.106	85.227	1.216	0.0	48.3	1136	87.129	85.232	1.239	0.0	50.1
1094	87.107	85.227	1.217	0.0	48.4	1138	87.130	85.232	1.240	0.0	50.1
1096	87.108	85.227	1.218	0.0	48.5	1140	87.131	85.232	1.241	0.0	50.2
1098	87.109	85.227	1.219	0.0	48.6	1142	87.132	85.232	1.242	0.0	50.3
1100	87.110	85.228	1.220	0.0	48.7	1144	87.133	85.233	1.243	0.0	50.3

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Innovyze	Network 2018.1.1	


Flows and Levels for Pipe 8.016 US/MH S2.53 FC (SW 02)
1440 minute 100 year Winter
Average Rainfall Intensity 3.462 mm/hr (1 of 4)

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)
1146	87.134	85.233	1.244	0.0	50.4	1190	87.152	85.237	1.262	0.0	51.7
1148	87.135	85.233	1.245	0.0	50.5	1192	87.153	85.237	1.263	0.0	51.8
1150	87.136	85.233	1.246	0.0	50.5	1194	87.154	85.237	1.264	0.0	51.8
1152	87.136	85.233	1.246	0.0	50.6	1196	87.155	85.237	1.265	0.0	51.9
1154	87.137	85.233	1.247	0.0	50.7	1198	87.155	85.237	1.265	0.0	52.0
1156	87.138	85.234	1.248	0.0	50.7	1200	87.156	85.238	1.266	0.0	52.0
1158	87.139	85.234	1.249	0.0	50.8	1202	87.157	85.238	1.267	0.0	52.1
1160	87.140	85.234	1.250	0.0	50.9	1204	87.157	85.238	1.267	0.0	52.1
1162	87.140	85.234	1.250	0.0	50.9	1206	87.158	85.238	1.268	0.0	52.2
1164	87.141	85.234	1.251	0.0	50.9	1208	87.159	85.238	1.269	0.0	52.2
1166	87.142	85.235	1.252	0.0	51.0	1210	87.160	85.238	1.270	0.0	52.3
1168	87.143	85.235	1.253	0.0	51.1	1212	87.161	85.238	1.271	0.0	52.3
1170	87.144	85.235	1.254	0.0	51.1	1214	87.161	85.239	1.271	0.0	52.4
1172	87.145	85.235	1.255	0.0	51.2	1216	87.162	85.239	1.272	0.0	52.4
1174	87.146	85.235	1.256	0.0	51.3	1218	87.163	85.239	1.273	0.0	52.5
1176	87.146	85.235	1.256	0.0	51.3	1220	87.164	85.239	1.274	0.0	52.5
1178	87.147	85.236	1.257	0.0	51.4	1222	87.164	85.239	1.274	0.0	52.6
1180	87.148	85.236	1.258	0.0	51.4	1224	87.165	85.239	1.275	0.0	52.6
1182	87.149	85.236	1.259	0.0	51.5	1226	87.166	85.239	1.276	0.0	52.7
1184	87.150	85.236	1.260	0.0	51.6	1228	87.166	85.240	1.276	0.0	52.7
1186	87.151	85.236	1.261	0.0	51.6	1230	87.167	85.240	1.277	0.0	52.8
1188	87.151	85.236	1.261	0.0	51.7	1232	87.168	85.240	1.278	0.0	52.8

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Innovyze	Network 2018.1.1	


Flows and Levels for Pipe 8.016 US/MH S2.53 FC (SW 02)
1440 minute 100 year Winter
Average Rainfall Intensity 3.462 mm/hr (1 of 4)

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)
1234	87.168	85.240	1.278	0.0	52.9	1278	87.181	85.243	1.291	0.0	53.7
1236	87.169	85.240	1.279	0.0	52.9	1280	87.182	85.243	1.292	0.0	53.8
1238	87.170	85.240	1.280	0.0	52.9	1282	87.183	85.243	1.293	0.0	53.8
1240	87.170	85.240	1.280	0.0	53.0	1284	87.183	85.243	1.293	0.0	53.9
1242	87.171	85.241	1.281	0.0	53.0	1286	87.183	85.243	1.293	0.0	53.9
1244	87.171	85.241	1.281	0.0	53.1	1288	87.184	85.243	1.294	0.0	53.9
1246	87.172	85.241	1.282	0.0	53.1	1290	87.185	85.243	1.295	0.0	54.0
1248	87.173	85.241	1.283	0.0	53.2	1292	87.185	85.243	1.295	0.0	54.0
1250	87.173	85.241	1.283	0.0	53.2	1294	87.185	85.243	1.295	0.0	54.0
1252	87.174	85.241	1.284	0.0	53.2	1296	87.186	85.243	1.296	0.0	54.1
1254	87.175	85.241	1.285	0.0	53.3	1298	87.186	85.244	1.296	0.0	54.1
1256	87.175	85.241	1.285	0.0	53.3	1300	87.187	85.244	1.297	0.0	54.1
1258	87.176	85.242	1.286	0.0	53.4	1302	87.187	85.244	1.297	0.0	54.1
1260	87.176	85.242	1.286	0.0	53.4	1304	87.188	85.244	1.298	0.0	54.2
1262	87.177	85.242	1.287	0.0	53.4	1306	87.188	85.244	1.298	0.0	54.2
1264	87.178	85.242	1.288	0.0	53.5	1308	87.189	85.244	1.299	0.0	54.2
1266	87.178	85.242	1.288	0.0	53.5	1310	87.189	85.244	1.299	0.0	54.3
1268	87.179	85.242	1.289	0.0	53.6	1312	87.190	85.244	1.300	0.0	54.3
1270	87.179	85.242	1.289	0.0	53.6	1314	87.190	85.244	1.300	0.0	54.3
1272	87.180	85.242	1.290	0.0	53.6	1316	87.190	85.244	1.300	0.0	54.4
1274	87.180	85.242	1.290	0.0	53.7	1318	87.191	85.244	1.301	0.0	54.4
1276	87.181	85.243	1.291	0.0	53.7	1320	87.191	85.245	1.301	0.0	54.4

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Flows and Levels for Pipe 8.016 US/MH S2.53 FC (SW 02)
1440 minute 100 year Winter
Average Rainfall Intensity 3.462 mm/hr (1 of 4)

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)
1322	87.192	85.245	1.302	0.0	54.4	1366	87.199	85.246	1.309	0.0	54.9
1324	87.192	85.245	1.302	0.0	54.5	1368	87.199	85.246	1.309	0.0	54.9
1326	87.192	85.245	1.302	0.0	54.5	1370	87.200	85.246	1.310	0.0	55.0
1328	87.193	85.245	1.303	0.0	54.5	1372	87.200	85.246	1.310	0.0	55.0
1330	87.193	85.245	1.303	0.0	54.5	1374	87.200	85.246	1.310	0.0	55.0
1332	87.194	85.245	1.304	0.0	54.6	1376	87.201	85.246	1.311	0.0	55.0
1334	87.194	85.245	1.304	0.0	54.6	1378	87.201	85.246	1.311	0.0	55.0
1336	87.194	85.245	1.304	0.0	54.6	1380	87.201	85.246	1.311	0.0	55.1
1338	87.195	85.245	1.305	0.0	54.6	1382	87.201	85.246	1.311	0.0	55.1
1340	87.195	85.245	1.305	0.0	54.7	1384	87.202	85.247	1.312	0.0	55.1
1342	87.195	85.245	1.305	0.0	54.7	1386	87.202	85.247	1.312	0.0	55.1
1344	87.196	85.245	1.306	0.0	54.7	1388	87.202	85.247	1.312	0.0	55.1
1346	87.196	85.245	1.306	0.0	54.7	1390	87.202	85.247	1.312	0.0	55.1
1348	87.196	85.246	1.306	0.0	54.7	1392	87.202	85.247	1.312	0.0	55.1
1350	87.197	85.246	1.307	0.0	54.8	1394	87.203	85.247	1.313	0.0	55.2
1352	87.197	85.246	1.307	0.0	54.8	1396	87.203	85.247	1.313	0.0	55.2
1354	87.197	85.246	1.307	0.0	54.8	1398	87.203	85.247	1.313	0.0	55.2
1356	87.198	85.246	1.308	0.0	54.8	1400	87.203	85.247	1.313	0.0	55.2
1358	87.198	85.246	1.308	0.0	54.9	1402	87.203	85.247	1.313	0.0	55.2
1360	87.198	85.246	1.308	0.0	54.9	1404	87.204	85.247	1.314	0.0	55.2
1362	87.199	85.246	1.309	0.0	54.9	1406	87.204	85.247	1.314	0.0	55.2
1364	87.199	85.246	1.309	0.0	54.9	1408	87.204	85.247	1.314	0.0	55.2

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Flows and Levels for Pipe 8.016 US/MH S2.53 FC (SW 02)
1440 minute 100 year Winter
Average Rainfall Intensity 3.462 mm/hr (1 of 4)

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)
1410	87.204	85.247	1.314	0.0	55.3	1454	87.208	85.248	1.318	0.0	55.5
1412	87.204	85.247	1.314	0.0	55.3	1456	87.208	85.248	1.318	0.0	55.5
1414	87.204	85.247	1.314	0.0	55.3	1458	87.208	85.248	1.318	0.0	55.5
1416	87.205	85.247	1.315	0.0	55.3	1460	87.209	85.248	1.319	0.0	55.5
1418	87.205	85.247	1.315	0.0	55.3	1462	87.209	85.248	1.319	0.0	55.6
1420	87.205	85.247	1.315	0.0	55.3	1464	87.209	85.248	1.319	0.0	55.6
1422	87.205	85.247	1.315	0.0	55.3	1466	87.209	85.248	1.319	0.0	55.6
1424	87.205	85.247	1.315	0.0	55.3	1468	87.209	85.248	1.319	0.0	55.6
1426	87.205	85.247	1.315	0.0	55.3	1470	87.209	85.248	1.319	0.0	55.6
1428	87.206	85.247	1.316	0.0	55.4	1472	87.209	85.248	1.319	0.0	55.6
1430	87.206	85.247	1.316	0.0	55.4	1474	87.210	85.248	1.320	0.0	55.6
1432	87.206	85.247	1.316	0.0	55.4	1476	87.210	85.248	1.320	0.0	55.6
1434	87.206	85.247	1.316	0.0	55.4	1478	87.210	85.248	1.320	0.0	55.6
1436	87.206	85.247	1.316	0.0	55.4	1480	87.210	85.248	1.320	0.0	55.6
1438	87.207	85.248	1.317	0.0	55.4	1482	87.210	85.248	1.320	0.0	55.6
1440	87.207	85.248	1.317	0.0	55.4	1484	87.210	85.248	1.320	0.0	55.6
1442	87.207	85.248	1.317	0.0	55.4	1486	87.210	85.248	1.320	0.0	55.6
1444	87.207	85.248	1.317	0.0	55.4	1488	87.210	85.248	1.320	0.0	55.6
1446	87.207	85.248	1.317	0.0	55.5	1490	87.210	85.248	1.320	0.0	55.6
1448	87.207	85.248	1.317	0.0	55.5	1492	87.210	85.248	1.320	0.0	55.6
1450	87.208	85.248	1.318	0.0	55.5	1494	87.210	85.248	1.320	0.0	55.6
1452	87.208	85.248	1.318	0.0	55.5	1496	87.210	85.248	1.320	0.0	55.6

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Innovyze	Network 2018.1.1	


Flows and Levels for Pipe 8.016 US/MH S2.53 FC (SW 02)
1440 minute 100 year Winter
Average Rainfall Intensity 3.462 mm/hr (1 of 4)

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)
1498	87.209	85.248	1.319	0.0	55.6	1542	87.203	85.247	1.313	0.0	55.2
1500	87.209	85.248	1.319	0.0	55.6	1544	87.203	85.247	1.313	0.0	55.2
1502	87.209	85.248	1.319	0.0	55.6	1546	87.202	85.247	1.312	0.0	55.2
1504	87.209	85.248	1.319	0.0	55.6	1548	87.202	85.247	1.312	0.0	55.1
1506	87.209	85.248	1.319	0.0	55.6	1550	87.201	85.246	1.311	0.0	55.1
1508	87.209	85.248	1.319	0.0	55.6	1552	87.201	85.246	1.311	0.0	55.1
1510	87.209	85.248	1.319	0.0	55.6	1554	87.200	85.246	1.310	0.0	55.0
1512	87.208	85.248	1.318	0.0	55.5	1556	87.200	85.246	1.310	0.0	55.0
1514	87.208	85.248	1.318	0.0	55.5	1558	87.199	85.246	1.309	0.0	54.9
1516	87.208	85.248	1.318	0.0	55.5	1560	87.198	85.246	1.308	0.0	54.9
1518	87.208	85.248	1.318	0.0	55.5	1562	87.198	85.246	1.308	0.0	54.9
1520	87.207	85.248	1.317	0.0	55.5	1564	87.197	85.246	1.307	0.0	54.8
1522	87.207	85.248	1.317	0.0	55.5	1566	87.197	85.246	1.307	0.0	54.8
1524	87.207	85.248	1.317	0.0	55.4	1568	87.196	85.245	1.306	0.0	54.8
1526	87.206	85.247	1.316	0.0	55.4	1570	87.195	85.245	1.305	0.0	54.7
1528	87.206	85.247	1.316	0.0	55.4	1572	87.195	85.245	1.305	0.0	54.7
1530	87.206	85.247	1.316	0.0	55.4	1574	87.194	85.245	1.304	0.0	54.6
1532	87.205	85.247	1.315	0.0	55.4	1576	87.193	85.245	1.303	0.0	54.6
1534	87.205	85.247	1.315	0.0	55.3	1578	87.192	85.245	1.302	0.0	54.5
1536	87.205	85.247	1.315	0.0	55.3	1580	87.192	85.245	1.302	0.0	54.5
1538	87.204	85.247	1.314	0.0	55.3	1582	87.191	85.245	1.301	0.0	54.4
1540	87.204	85.247	1.314	0.0	55.3	1584	87.190	85.244	1.300	0.0	54.4

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Flows and Levels for Pipe 8.016 US/MH S2.53 FC (SW 02)
1440 minute 100 year Winter
Average Rainfall Intensity 3.462 mm/hr (1 of 4)

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)
1586	87.190	85.244	1.300	0.0	54.4	1630	87.172	85.241	1.282	0.0	53.1
1588	87.189	85.244	1.299	0.0	54.3	1632	87.171	85.241	1.281	0.0	53.1
1590	87.188	85.244	1.298	0.0	54.2	1634	87.170	85.240	1.280	0.0	53.0
1592	87.187	85.244	1.297	0.0	54.2	1636	87.169	85.240	1.279	0.0	52.9
1594	87.187	85.244	1.297	0.0	54.1	1638	87.168	85.240	1.278	0.0	52.9
1596	87.186	85.244	1.296	0.0	54.1	1640	87.167	85.240	1.277	0.0	52.8
1598	87.185	85.243	1.295	0.0	54.0	1642	87.166	85.240	1.276	0.0	52.7
1600	87.184	85.243	1.294	0.0	54.0	1644	87.165	85.239	1.275	0.0	52.7
1602	87.184	85.243	1.294	0.0	53.9	1646	87.164	85.239	1.274	0.0	52.6
1604	87.183	85.243	1.293	0.0	53.9	1648	87.163	85.239	1.273	0.0	52.5
1606	87.182	85.243	1.292	0.0	53.8	1650	87.162	85.239	1.272	0.0	52.5
1608	87.181	85.243	1.291	0.0	53.8	1652	87.161	85.238	1.271	0.0	52.4
1610	87.180	85.242	1.290	0.0	53.7	1654	87.160	85.238	1.270	0.0	52.3
1612	87.180	85.242	1.290	0.0	53.7	1656	87.159	85.238	1.269	0.0	52.3
1614	87.179	85.242	1.289	0.0	53.6	1658	87.157	85.238	1.267	0.0	52.2
1616	87.178	85.242	1.288	0.0	53.6	1660	87.156	85.238	1.266	0.0	52.1
1618	87.177	85.242	1.287	0.0	53.5	1662	87.155	85.237	1.265	0.0	52.0
1620	87.176	85.242	1.286	0.0	53.4	1664	87.154	85.237	1.264	0.0	52.0
1622	87.175	85.241	1.285	0.0	53.4	1666	87.153	85.237	1.263	0.0	51.9
1624	87.174	85.241	1.284	0.0	53.3	1668	87.152	85.237	1.262	0.0	51.8
1626	87.173	85.241	1.283	0.0	53.3	1670	87.151	85.237	1.261	0.0	51.7
1628	87.172	85.241	1.282	0.0	53.2	1672	87.150	85.236	1.260	0.0	51.7

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Flows and Levels for Pipe 8.016 US/MH S2.53 FC (SW 02)
1440 minute 100 year Winter
Average Rainfall Intensity 3.462 mm/hr (1 of 4)

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)
1674	87.149	85.236	1.259	0.0	51.6	1718	87.125	85.231	1.235	0.0	49.8
1676	87.148	85.236	1.258	0.0	51.5	1720	87.123	85.231	1.233	0.0	49.7
1678	87.147	85.236	1.257	0.0	51.4	1722	87.122	85.230	1.232	0.0	49.7
1680	87.146	85.235	1.256	0.0	51.3	1724	87.121	85.230	1.231	0.0	49.6
1682	87.145	85.235	1.255	0.0	51.3	1726	87.120	85.230	1.230	0.0	49.5
1684	87.143	85.235	1.253	0.0	51.2	1728	87.119	85.230	1.229	0.0	49.4
1686	87.142	85.235	1.252	0.0	51.1	1730	87.118	85.229	1.228	0.0	49.3
1688	87.141	85.234	1.251	0.0	51.0	1732	87.117	85.229	1.227	0.0	49.2
1690	87.140	85.234	1.250	0.0	51.0	1734	87.116	85.229	1.226	0.0	49.2
1692	87.139	85.234	1.249	0.0	50.9	1736	87.115	85.229	1.225	0.0	49.1
1694	87.138	85.234	1.248	0.0	50.8	1738	87.114	85.228	1.224	0.0	49.0
1696	87.137	85.234	1.247	0.0	50.7	1740	87.112	85.228	1.222	0.0	48.9
1698	87.136	85.233	1.246	0.0	50.6	1742	87.111	85.228	1.221	0.0	48.8
1700	87.135	85.233	1.245	0.0	50.6	1744	87.110	85.228	1.220	0.0	48.7
1702	87.133	85.233	1.243	0.0	50.5	1746	87.109	85.227	1.219	0.0	48.7
1704	87.132	85.233	1.242	0.0	50.4	1748	87.108	85.227	1.218	0.0	48.6
1706	87.131	85.232	1.241	0.0	50.3	1750	87.107	85.227	1.217	0.0	48.5
1708	87.130	85.232	1.240	0.0	50.2	1752	87.106	85.227	1.216	0.0	48.4
1710	87.129	85.232	1.239	0.0	50.2	1754	87.105	85.226	1.215	0.0	48.3
1712	87.128	85.232	1.238	0.0	50.1	1756	87.103	85.226	1.213	0.0	48.2
1714	87.127	85.231	1.237	0.0	50.0	1758	87.102	85.226	1.212	0.0	48.1
1716	87.126	85.231	1.236	0.0	49.9	1760	87.101	85.226	1.211	0.0	48.1

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Average Rainfall Intensity 3.462 mm/hr (1 of 4)

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)
1762	87.100	85.225	1.210	0.0	48.0	1806	87.076	85.220	1.186	0.0	46.1
1764	87.099	85.225	1.209	0.0	47.9	1808	87.075	85.219	1.185	0.0	46.0
1766	87.098	85.225	1.208	0.0	47.8	1810	87.074	85.219	1.184	0.0	45.9
1768	87.097	85.225	1.207	0.0	47.7	1812	87.073	85.219	1.183	0.0	45.8
1770	87.096	85.224	1.206	0.0	47.6	1814	87.072	85.218	1.182	0.0	45.7
1772	87.095	85.224	1.205	0.0	47.5	1816	87.070	85.218	1.180	0.0	45.6
1774	87.093	85.224	1.203	0.0	47.5	1818	87.069	85.218	1.179	0.0	45.5
1776	87.092	85.224	1.202	0.0	47.4	1820	87.068	85.218	1.178	0.0	45.4
1778	87.091	85.223	1.201	0.0	47.3	1822	87.067	85.217	1.177	0.0	45.3
1780	87.090	85.223	1.200	0.0	47.2	1824	87.066	85.217	1.176	0.0	45.2
1782	87.089	85.223	1.199	0.0	47.1	1826	87.065	85.217	1.175	0.0	45.2
1784	87.088	85.222	1.198	0.0	47.0	1828	87.064	85.217	1.174	0.0	45.1
1786	87.087	85.222	1.197	0.0	46.9	1830	87.063	85.216	1.173	0.0	45.0
1788	87.086	85.222	1.196	0.0	46.8	1832	87.062	85.216	1.172	0.0	44.9
1790	87.085	85.222	1.195	0.0	46.8	1834	87.061	85.216	1.171	0.0	44.8
1792	87.084	85.221	1.194	0.0	46.7	1836	87.060	85.215	1.170	0.0	44.7
1794	87.083	85.221	1.193	0.0	46.6	1838	87.059	85.215	1.169	0.0	44.6
1796	87.081	85.221	1.191	0.0	46.5	1840	87.057	85.215	1.167	0.0	44.5
1798	87.080	85.221	1.190	0.0	46.4	1842	87.056	85.215	1.166	0.0	44.4
1800	87.079	85.220	1.189	0.0	46.3	1844	87.055	85.214	1.165	0.0	44.3
1802	87.078	85.220	1.188	0.0	46.2	1846	87.054	85.214	1.164	0.0	44.2
1804	87.077	85.220	1.187	0.0	46.1	1848	87.053	85.214	1.163	0.0	44.1

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Average Rainfall Intensity 3.462 mm/hr (1 of 4)

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)
1850	87.052	85.214	1.162	0.0	44.0	1894	87.029	85.204	1.139	0.0	40.9
1852	87.051	85.213	1.161	0.0	43.9	1896	87.028	85.204	1.138	0.0	40.7
1854	87.050	85.213	1.160	0.0	43.9	1898	87.027	85.203	1.137	0.0	40.6
1856	87.049	85.213	1.159	0.0	43.8	1900	87.026	85.203	1.136	0.0	40.4
1858	87.048	85.212	1.158	0.0	43.7	1902	87.025	85.202	1.135	0.0	40.3
1860	87.047	85.212	1.157	0.0	43.6	1904	87.024	85.202	1.134	0.0	40.1
1862	87.046	85.212	1.156	0.0	43.4	1906	87.023	85.201	1.133	0.0	40.0
1864	87.045	85.211	1.155	0.0	43.3	1908	87.022	85.201	1.132	0.0	39.8
1866	87.044	85.211	1.154	0.0	43.1	1910	87.021	85.201	1.131	0.0	39.7
1868	87.043	85.210	1.153	0.0	42.9	1912	87.020	85.200	1.130	0.0	39.5
1870	87.041	85.210	1.151	0.0	42.8	1914	87.019	85.200	1.129	0.0	39.4
1872	87.040	85.209	1.150	0.0	42.6	1916	87.018	85.199	1.128	0.0	39.2
1874	87.039	85.209	1.149	0.0	42.5	1918	87.017	85.199	1.127	0.0	39.1
1876	87.038	85.208	1.148	0.0	42.3	1920	87.016	85.198	1.126	0.0	38.9
1878	87.037	85.208	1.147	0.0	42.1	1922	87.015	85.198	1.125	0.0	38.8
1880	87.036	85.207	1.146	0.0	42.0	1924	87.014	85.198	1.124	0.0	38.6
1882	87.035	85.207	1.145	0.0	41.8	1926	87.013	85.197	1.123	0.0	38.5
1884	87.034	85.206	1.144	0.0	41.7	1928	87.012	85.197	1.122	0.0	38.3
1886	87.033	85.206	1.143	0.0	41.5	1930	87.011	85.196	1.121	0.0	38.2
1888	87.032	85.205	1.142	0.0	41.4	1932	87.010	85.196	1.120	0.0	38.0
1890	87.031	85.205	1.141	0.0	41.2	1934	87.010	85.195	1.120	0.0	37.9
1892	87.030	85.204	1.140	0.0	41.0	1936	87.008	85.195	1.118	0.0	37.7

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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)
1938	87.008	85.195	1.118	0.0	37.6	1982	86.987	85.185	1.097	0.0	34.4
1940	87.007	85.194	1.117	0.0	37.4	1984	86.986	85.185	1.096	0.0	34.3
1942	87.006	85.194	1.116	0.0	37.3	1986	86.985	85.185	1.095	0.0	34.1
1944	87.005	85.193	1.115	0.0	37.1	1988	86.984	85.184	1.094	0.0	34.0
1946	87.004	85.193	1.114	0.0	37.0	1990	86.983	85.184	1.093	0.0	33.8
1948	87.003	85.192	1.113	0.0	36.8	1992	86.982	85.183	1.092	0.0	33.7
1950	87.002	85.192	1.112	0.0	36.7	1994	86.981	85.183	1.091	0.0	33.6
1952	87.001	85.192	1.111	0.0	36.5	1996	86.981	85.183	1.091	0.0	33.4
1954	87.000	85.191	1.110	0.0	36.4	1998	86.980	85.182	1.090	0.0	33.3
1956	86.999	85.191	1.109	0.0	36.2	2000	86.979	85.182	1.089	0.0	33.2
1958	86.998	85.190	1.108	0.0	36.1	2002	86.978	85.182	1.088	0.0	33.0
1960	86.997	85.190	1.107	0.0	35.9	2004	86.977	85.181	1.087	0.0	32.9
1962	86.996	85.189	1.106	0.0	35.8	2006	86.976	85.181	1.086	0.0	32.8
1964	86.995	85.189	1.105	0.0	35.7	2008	86.975	85.180	1.085	0.0	32.6
1966	86.994	85.189	1.104	0.0	35.5	2010	86.974	85.180	1.084	0.0	32.5
1968	86.993	85.188	1.103	0.0	35.4	2012	86.974	85.180	1.084	0.0	32.4
1970	86.992	85.188	1.102	0.0	35.2	2014	86.973	85.179	1.083	0.0	32.2
1972	86.991	85.187	1.101	0.0	35.1	2016	86.972	85.179	1.082	0.0	32.1
1974	86.990	85.187	1.100	0.0	35.0	2018	86.971	85.179	1.081	0.0	32.0
1976	86.990	85.187	1.100	0.0	34.8	2020	86.970	85.178	1.080	0.0	31.8
1978	86.989	85.186	1.099	0.0	34.7	2022	86.969	85.178	1.079	0.0	31.7
1980	86.988	85.186	1.098	0.0	34.5	2024	86.968	85.177	1.078	0.0	31.6

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Average Rainfall Intensity 3.462 mm/hr (1 of 4)

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)
2026	86.967	85.177	1.077	0.0	31.4	2070	86.949	85.169	1.059	0.0	28.8
2028	86.967	85.177	1.077	0.0	31.3	2072	86.949	85.169	1.059	0.0	28.7
2030	86.966	85.176	1.076	0.0	31.2	2074	86.948	85.168	1.058	0.0	28.5
2032	86.965	85.176	1.075	0.0	31.1	2076	86.947	85.168	1.057	0.0	28.4
2034	86.964	85.176	1.074	0.0	30.9	2078	86.946	85.168	1.056	0.0	28.3
2036	86.963	85.175	1.073	0.0	30.8	2080	86.945	85.167	1.055	0.0	28.2
2038	86.962	85.175	1.072	0.0	30.7	2082	86.945	85.167	1.055	0.0	28.1
2040	86.962	85.174	1.072	0.0	30.6	2084	86.944	85.167	1.054	0.0	28.0
2042	86.961	85.174	1.071	0.0	30.4	2086	86.943	85.166	1.053	0.0	27.9
2044	86.960	85.174	1.070	0.0	30.3	2088	86.942	85.166	1.052	0.0	27.7
2046	86.959	85.173	1.069	0.0	30.2	2090	86.942	85.166	1.052	0.0	27.6
2048	86.958	85.173	1.068	0.0	30.1	2092	86.941	85.165	1.051	0.0	27.5
2050	86.957	85.173	1.067	0.0	30.0	2094	86.940	85.165	1.050	0.0	27.4
2052	86.957	85.172	1.067	0.0	29.8	2096	86.939	85.165	1.049	0.0	27.3
2054	86.956	85.172	1.066	0.0	29.7	2098	86.939	85.164	1.049	0.0	27.2
2056	86.955	85.172	1.065	0.0	29.6	2100	86.938	85.164	1.048	0.0	27.1
2058	86.954	85.171	1.064	0.0	29.5	2102	86.937	85.164	1.047	0.0	27.0
2060	86.953	85.171	1.063	0.0	29.4	2104	86.936	85.163	1.046	0.0	26.8
2062	86.953	85.170	1.063	0.0	29.2	2106	86.936	85.163	1.046	0.0	26.7
2064	86.952	85.170	1.062	0.0	29.1	2108	86.935	85.163	1.045	0.0	26.6
2066	86.951	85.170	1.061	0.0	29.0	2110	86.934	85.162	1.044	0.0	26.5
2068	86.950	85.169	1.060	0.0	28.9	2112	86.933	85.162	1.043	0.0	26.4

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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)
2114	86.933	85.162	1.043	0.0	26.3	2158	86.917	85.156	1.027	0.0	24.6
2116	86.932	85.161	1.042	0.0	26.2	2160	86.916	85.156	1.026	0.0	24.5
2118	86.931	85.161	1.041	0.0	26.1	2162	86.915	85.156	1.025	0.0	24.4
2120	86.930	85.161	1.040	0.0	26.1	2164	86.914	85.156	1.024	0.0	24.3
2122	86.930	85.161	1.040	0.0	26.0	2166	86.914	85.155	1.024	0.0	24.2
2124	86.929	85.160	1.039	0.0	25.9	2168	86.913	85.155	1.023	0.0	24.2
2126	86.928	85.160	1.038	0.0	25.8	2170	86.913	85.155	1.023	0.0	24.1
2128	86.928	85.160	1.038	0.0	25.8	2172	86.912	85.155	1.022	0.0	24.0
2130	86.927	85.160	1.037	0.0	25.7	2174	86.911	85.155	1.021	0.0	24.0
2132	86.926	85.160	1.036	0.0	25.6	2176	86.910	85.154	1.020	0.0	23.9
2134	86.926	85.159	1.036	0.0	25.5	2178	86.909	85.154	1.019	0.0	23.8
2136	86.925	85.159	1.035	0.0	25.4	2180	86.909	85.154	1.019	0.0	23.7
2138	86.924	85.159	1.034	0.0	25.4	2182	86.908	85.154	1.018	0.0	23.6
2140	86.923	85.159	1.033	0.0	25.3	2184	86.907	85.153	1.017	0.0	23.5
2142	86.923	85.158	1.033	0.0	25.2	2186	86.907	85.153	1.017	0.0	23.5
2144	86.922	85.158	1.032	0.0	25.1	2188	86.906	85.153	1.016	0.0	23.4
2146	86.921	85.158	1.031	0.0	25.1	2190	86.905	85.153	1.015	0.0	23.3
2148	86.920	85.158	1.030	0.0	25.0	2192	86.904	85.152	1.014	0.0	23.2
2150	86.920	85.157	1.030	0.0	24.9	2194	86.904	85.152	1.014	0.0	23.1
2152	86.919	85.157	1.029	0.0	24.8	2196	86.903	85.152	1.013	0.0	23.1
2154	86.918	85.157	1.028	0.0	24.7	2198	86.902	85.152	1.012	0.0	23.0
2156	86.918	85.157	1.028	0.0	24.7	2200	86.901	85.151	1.011	0.0	22.9

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Innovyze	Network 2018.1.1	


Flows and Levels for Pipe 8.016 US/MH S2.53 FC (SW 02)
1440 minute 100 year Winter
Average Rainfall Intensity 3.462 mm/hr (1 of 4)

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)
2202	86.901	85.151	1.011	0.0	22.8	2246	86.886	85.145	0.996	0.0	20.9
2204	86.900	85.151	1.010	0.0	22.7	2248	86.885	85.145	0.995	0.0	20.8
2206	86.899	85.151	1.009	0.0	22.7	2250	86.884	85.145	0.994	0.0	20.7
2208	86.899	85.150	1.009	0.0	22.6	2252	86.884	85.144	0.994	0.0	20.6
2210	86.898	85.150	1.008	0.0	22.5	2254	86.883	85.144	0.993	0.0	20.5
2212	86.897	85.150	1.007	0.0	22.4	2256	86.883	85.144	0.993	0.0	20.4
2214	86.896	85.150	1.006	0.0	22.4	2258	86.882	85.143	0.992	0.0	20.3
2216	86.896	85.150	1.006	0.0	22.3	2260	86.881	85.143	0.991	0.0	20.2
2218	86.895	85.149	1.005	0.0	22.2	2262	86.881	85.143	0.991	0.0	20.1
2220	86.895	85.149	1.005	0.0	22.1	2264	86.880	85.142	0.990	0.0	20.0
2222	86.894	85.149	1.004	0.0	22.0	2266	86.879	85.142	0.989	0.0	20.0
2224	86.893	85.148	1.003	0.0	21.9	2268	86.879	85.142	0.989	0.0	19.9
2226	86.893	85.148	1.003	0.0	21.8	2270	86.878	85.142	0.988	0.0	19.8
2228	86.892	85.148	1.002	0.0	21.7	2272	86.878	85.141	0.988	0.0	19.7
2230	86.891	85.148	1.001	0.0	21.6	2274	86.877	85.141	0.987	0.0	19.6
2232	86.890	85.147	1.000	0.0	21.5	2276	86.876	85.141	0.986	0.0	19.5
2234	86.890	85.147	1.000	0.0	21.4	2278	86.876	85.140	0.986	0.0	19.5
2236	86.889	85.147	0.999	0.0	21.4	2280	86.875	85.140	0.985	0.0	19.4
2238	86.888	85.146	0.998	0.0	21.3	2282	86.875	85.140	0.985	0.0	19.3
2240	86.888	85.146	0.998	0.0	21.2	2284	86.874	85.140	0.984	0.0	19.2
2242	86.887	85.146	0.997	0.0	21.1	2286	86.873	85.139	0.983	0.0	19.1
2244	86.886	85.146	0.996	0.0	21.0	2288	86.873	85.139	0.983	0.0	19.0

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Innovyze	Network 2018.1.1	


Flows and Levels for Pipe 8.016 US/MH S2.53 FC (SW 02)
1440 minute 100 year Winter
Average Rainfall Intensity 3.462 mm/hr (1 of 4)

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)
2290	86.872	85.139	0.982	0.0	19.0	2334	86.859	85.135	0.969	0.0	17.9
2292	86.872	85.139	0.982	0.0	18.9	2336	86.859	85.135	0.969	0.0	17.8
2294	86.871	85.138	0.981	0.0	18.9	2338	86.858	85.135	0.968	0.0	17.8
2296	86.870	85.138	0.980	0.0	18.8	2340	86.857	85.134	0.967	0.0	17.7
2298	86.870	85.138	0.980	0.0	18.8	2342	86.857	85.134	0.967	0.0	17.7
2300	86.869	85.138	0.979	0.0	18.7	2344	86.856	85.134	0.966	0.0	17.6
2302	86.869	85.138	0.979	0.0	18.7	2346	86.856	85.134	0.966	0.0	17.6
2304	86.868	85.138	0.978	0.0	18.6	2348	86.855	85.134	0.965	0.0	17.5
2306	86.867	85.137	0.977	0.0	18.6	2350	86.854	85.134	0.964	0.0	17.5
2308	86.867	85.137	0.977	0.0	18.5	2352	86.854	85.133	0.964	0.0	17.4
2310	86.866	85.137	0.976	0.0	18.5	2354	86.853	85.133	0.963	0.0	17.4
2312	86.866	85.137	0.976	0.0	18.4	2356	86.853	85.133	0.963	0.0	17.3
2314	86.865	85.137	0.975	0.0	18.4	2358	86.852	85.133	0.962	0.0	17.3
2316	86.865	85.137	0.975	0.0	18.3	2360	86.852	85.133	0.962	0.0	17.2
2318	86.864	85.136	0.974	0.0	18.3	2362	86.851	85.133	0.961	0.0	17.2
2320	86.863	85.136	0.973	0.0	18.2	2364	86.851	85.132	0.961	0.0	17.1
2322	86.863	85.136	0.973	0.0	18.2	2366	86.850	85.132	0.960	0.0	17.1
2324	86.862	85.136	0.972	0.0	18.1	2368	86.850	85.132	0.960	0.0	17.0
2326	86.862	85.136	0.972	0.0	18.1	2370	86.849	85.132	0.959	0.0	17.0
2328	86.861	85.135	0.971	0.0	18.0	2372	86.849	85.132	0.959	0.0	16.9
2330	86.860	85.135	0.970	0.0	18.0	2374	86.848	85.132	0.958	0.0	16.9
2332	86.860	85.135	0.970	0.0	17.9	2376	86.847	85.131	0.957	0.0	16.8

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Innovyze	Network 2018.1.1	


Flows and Levels for Pipe 8.016 US/MH S2.53 FC (SW 02)
1440 minute 100 year Winter
Average Rainfall Intensity 3.462 mm/hr (1 of 4)

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)
2378	86.847	85.131	0.957	0.0	16.8	2422	86.835	85.128	0.945	0.0	16.0
2380	86.846	85.131	0.956	0.0	16.8	2424	86.834	85.128	0.944	0.0	15.9
2382	86.846	85.131	0.956	0.0	16.7	2426	86.834	85.128	0.944	0.0	15.9
2384	86.845	85.131	0.955	0.0	16.7	2428	86.833	85.128	0.943	0.0	15.9
2386	86.845	85.131	0.955	0.0	16.6	2430	86.832	85.128	0.942	0.0	15.8
2388	86.844	85.131	0.954	0.0	16.6	2432	86.832	85.128	0.942	0.0	15.8
2390	86.844	85.130	0.954	0.0	16.5	2434	86.831	85.128	0.941	0.0	15.8
2392	86.843	85.130	0.953	0.0	16.5	2436	86.831	85.128	0.941	0.0	15.7
2394	86.842	85.130	0.952	0.0	16.5	2438	86.830	85.127	0.940	0.0	15.7
2396	86.842	85.130	0.952	0.0	16.4	2440	86.830	85.127	0.940	0.0	15.7
2398	86.842	85.130	0.952	0.0	16.4	2442	86.829	85.127	0.939	0.0	15.6
2400	86.841	85.130	0.951	0.0	16.4	2444	86.829	85.127	0.939	0.0	15.6
2402	86.840	85.130	0.950	0.0	16.3	2446	86.828	85.127	0.938	0.0	15.6
2404	86.840	85.130	0.950	0.0	16.3	2448	86.828	85.127	0.938	0.0	15.5
2406	86.839	85.129	0.949	0.0	16.3	2450	86.827	85.127	0.937	0.0	15.5
2408	86.839	85.129	0.949	0.0	16.2	2452	86.826	85.127	0.936	0.0	15.5
2410	86.838	85.129	0.948	0.0	16.2	2454	86.826	85.127	0.936	0.0	15.5
2412	86.837	85.129	0.947	0.0	16.1	2456	86.825	85.127	0.935	0.0	15.4
2414	86.837	85.129	0.947	0.0	16.1	2458	86.825	85.126	0.935	0.0	15.4
2416	86.836	85.129	0.946	0.0	16.1	2460	86.824	85.126	0.934	0.0	15.4
2418	86.836	85.129	0.946	0.0	16.0	2462	86.824	85.126	0.934	0.0	15.3
2420	86.835	85.129	0.945	0.0	16.0	2464	86.823	85.126	0.933	0.0	15.3

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Innovyze	Network 2018.1.1	


Flows and Levels for Pipe 8.016 US/MH S2.53 FC (SW 02)
1440 minute 100 year Winter
Average Rainfall Intensity 3.462 mm/hr (1 of 4)

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)
2466	86.823	85.126	0.933	0.0	15.3	2510	86.811	85.125	0.921	0.0	14.8
2468	86.822	85.126	0.932	0.0	15.3	2512	86.810	85.124	0.920	0.0	14.8
2470	86.822	85.126	0.932	0.0	15.3	2514	86.810	85.124	0.920	0.0	14.8
2472	86.821	85.126	0.931	0.0	15.2	2516	86.809	85.124	0.919	0.0	14.8
2474	86.821	85.126	0.931	0.0	15.2	2518	86.809	85.124	0.919	0.0	14.8
2476	86.820	85.126	0.930	0.0	15.2	2520	86.808	85.124	0.918	0.0	14.8
2478	86.819	85.126	0.929	0.0	15.1	2522	86.808	85.124	0.918	0.0	14.7
2480	86.819	85.126	0.929	0.0	15.1	2524	86.807	85.124	0.917	0.0	14.7
2482	86.818	85.125	0.928	0.0	15.1	2526	86.807	85.124	0.917	0.0	14.7
2484	86.818	85.125	0.928	0.0	15.1	2528	86.806	85.124	0.916	0.0	14.7
2486	86.817	85.125	0.927	0.0	15.0	2530	86.805	85.124	0.915	0.0	14.7
2488	86.817	85.125	0.927	0.0	15.0	2532	86.805	85.124	0.915	0.0	14.7
2490	86.816	85.125	0.926	0.0	15.0	2534	86.804	85.124	0.914	0.0	14.6
2492	86.816	85.125	0.926	0.0	15.0	2536	86.804	85.124	0.914	0.0	14.6
2494	86.815	85.125	0.925	0.0	15.0	2538	86.803	85.124	0.913	0.0	14.6
2496	86.815	85.125	0.925	0.0	15.0	2540	86.803	85.124	0.913	0.0	14.6
2498	86.814	85.125	0.924	0.0	14.9	2542	86.803	85.124	0.913	0.0	14.6
2500	86.814	85.125	0.924	0.0	14.9	2544	86.802	85.124	0.912	0.0	14.6
2502	86.813	85.125	0.923	0.0	14.9	2546	86.801	85.124	0.911	0.0	14.6
2504	86.812	85.125	0.922	0.0	14.9	2548	86.801	85.123	0.911	0.0	14.5
2506	86.812	85.125	0.922	0.0	14.9	2550	86.800	85.123	0.910	0.0	14.5
2508	86.811	85.125	0.921	0.0	14.9	2552	86.800	85.123	0.910	0.0	14.5

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Flows and Levels for Pipe 8.016 US/MH S2.53 FC (SW 02)
1440 minute 100 year Winter
Average Rainfall Intensity 3.462 mm/hr (1 of 4)

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)
2554	86.799	85.123	0.909	0.0	14.5	2598	86.788	85.123	0.898	0.0	14.4
2556	86.799	85.123	0.909	0.0	14.5	2600	86.787	85.123	0.897	0.0	14.4
2558	86.798	85.123	0.908	0.0	14.5	2602	86.787	85.123	0.897	0.0	14.4
2560	86.798	85.123	0.908	0.0	14.5	2604	86.786	85.123	0.896	0.0	14.4
2562	86.797	85.123	0.907	0.0	14.5	2606	86.786	85.123	0.896	0.0	14.4
2564	86.797	85.123	0.907	0.0	14.5	2608	86.785	85.123	0.895	0.0	14.4
2566	86.796	85.123	0.906	0.0	14.5	2610	86.784	85.123	0.894	0.0	14.4
2568	86.796	85.123	0.906	0.0	14.4	2612	86.784	85.123	0.894	0.0	14.4
2570	86.795	85.123	0.905	0.0	14.4	2614	86.784	85.123	0.894	0.0	14.3
2572	86.795	85.123	0.905	0.0	14.4	2616	86.783	85.123	0.893	0.0	14.3
2574	86.794	85.123	0.904	0.0	14.4	2618	86.782	85.123	0.892	0.0	14.3
2576	86.793	85.123	0.903	0.0	14.4	2620	86.782	85.123	0.892	0.0	14.3
2578	86.793	85.123	0.903	0.0	14.4	2622	86.781	85.123	0.891	0.0	14.3
2580	86.793	85.123	0.903	0.0	14.4	2624	86.781	85.123	0.891	0.0	14.3
2582	86.792	85.123	0.902	0.0	14.4	2626	86.780	85.123	0.890	0.0	14.3
2584	86.792	85.123	0.902	0.0	14.4	2628	86.780	85.123	0.890	0.0	14.3
2586	86.791	85.123	0.901	0.0	14.4	2630	86.779	85.123	0.889	0.0	14.3
2588	86.790	85.123	0.900	0.0	14.4	2632	86.779	85.123	0.889	0.0	14.3
2590	86.790	85.123	0.900	0.0	14.4	2634	86.778	85.123	0.888	0.0	14.3
2592	86.789	85.123	0.899	0.0	14.4	2636	86.778	85.123	0.888	0.0	14.3
2594	86.789	85.123	0.899	0.0	14.4	2638	86.777	85.123	0.887	0.0	14.3
2596	86.788	85.123	0.898	0.0	14.4	2640	86.777	85.123	0.887	0.0	14.3

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Flows and Levels for Pipe 8.016 US/MH S2.53 FC (SW 02)
1440 minute 100 year Winter
Average Rainfall Intensity 3.462 mm/hr (1 of 4)

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)
2642	86.776	85.123	0.886	0.0	14.3	2686	86.765	85.122	0.875	0.0	14.2
2644	86.776	85.123	0.886	0.0	14.3	2688	86.764	85.122	0.874	0.0	14.2
2646	86.775	85.123	0.885	0.0	14.3	2690	86.764	85.122	0.874	0.0	14.2
2648	86.775	85.123	0.885	0.0	14.3	2692	86.763	85.122	0.873	0.0	14.2
2650	86.774	85.123	0.884	0.0	14.3	2694	86.763	85.122	0.873	0.0	14.2
2652	86.774	85.123	0.884	0.0	14.3	2696	86.762	85.122	0.872	0.0	14.2
2654	86.773	85.123	0.883	0.0	14.3	2698	86.762	85.122	0.872	0.0	14.2
2656	86.773	85.123	0.883	0.0	14.3	2700	86.761	85.122	0.871	0.0	14.2
2658	86.772	85.123	0.882	0.0	14.3	2702	86.761	85.122	0.871	0.0	14.2
2660	86.772	85.123	0.882	0.0	14.3	2704	86.760	85.122	0.870	0.0	14.2
2662	86.771	85.123	0.881	0.0	14.3	2706	86.759	85.122	0.869	0.0	14.2
2664	86.771	85.123	0.881	0.0	14.3	2708	86.759	85.122	0.869	0.0	14.2
2666	86.770	85.123	0.880	0.0	14.3	2710	86.758	85.122	0.868	0.0	14.2
2668	86.769	85.123	0.879	0.0	14.3	2712	86.758	85.122	0.868	0.0	14.2
2670	86.769	85.123	0.879	0.0	14.3	2714	86.757	85.122	0.867	0.0	14.2
2672	86.768	85.123	0.878	0.0	14.3	2716	86.757	85.122	0.867	0.0	14.2
2674	86.768	85.123	0.878	0.0	14.3	2718	86.756	85.122	0.866	0.0	14.2
2676	86.767	85.122	0.877	0.0	14.2	2720	86.756	85.122	0.866	0.0	14.2
2678	86.767	85.122	0.877	0.0	14.2	2722	86.755	85.122	0.865	0.0	14.2
2680	86.766	85.122	0.876	0.0	14.2	2724	86.755	85.122	0.865	0.0	14.2
2682	86.766	85.122	0.876	0.0	14.2	2726	86.754	85.122	0.864	0.0	14.2
2684	86.765	85.122	0.875	0.0	14.2	2728	86.754	85.122	0.864	0.0	14.2

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Blays House Wick Road Englefield Green Egham Surrey TW20 0HJ	Haverhill Great Willsey Park Area 2: 1 in 100 1440 min	
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Innovyze	Network 2018.1.1	


Flows and Levels for Pipe 8.016 US/MH S2.53 FC (SW 02)
1440 minute 100 year Winter
Average Rainfall Intensity 3.462 mm/hr (1 of 4)

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)
2730	86.753	85.122	0.863	0.0	14.2	2774	86.741	85.122	0.851	0.0	14.1
2732	86.753	85.122	0.863	0.0	14.2	2776	86.741	85.122	0.851	0.0	14.1
2734	86.752	85.122	0.862	0.0	14.2	2778	86.740	85.122	0.850	0.0	14.1
2736	86.752	85.122	0.862	0.0	14.1	2780	86.740	85.122	0.850	0.0	14.1
2738	86.751	85.122	0.861	0.0	14.1	2782	86.739	85.122	0.849	0.0	14.1
2740	86.750	85.122	0.860	0.0	14.1	2784	86.739	85.122	0.849	0.0	14.1
2742	86.750	85.122	0.860	0.0	14.1	2786	86.738	85.122	0.848	0.0	14.1
2744	86.749	85.122	0.859	0.0	14.1	2788	86.738	85.122	0.848	0.0	14.1
2746	86.749	85.122	0.859	0.0	14.1	2790	86.737	85.122	0.847	0.0	14.1
2748	86.748	85.122	0.858	0.0	14.1	2792	86.736	85.122	0.846	0.0	14.1
2750	86.748	85.122	0.858	0.0	14.1	2794	86.736	85.122	0.846	0.0	14.0
2752	86.747	85.122	0.857	0.0	14.1	2796	86.735	85.122	0.845	0.0	14.0
2754	86.747	85.122	0.857	0.0	14.1	2798	86.735	85.122	0.845	0.0	14.0
2756	86.746	85.122	0.856	0.0	14.1	2800	86.734	85.122	0.844	0.0	14.0
2758	86.746	85.122	0.856	0.0	14.1	2802	86.734	85.122	0.844	0.0	14.0
2760	86.745	85.122	0.855	0.0	14.1	2804	86.733	85.122	0.843	0.0	14.0
2762	86.745	85.122	0.855	0.0	14.1	2806	86.733	85.122	0.843	0.0	14.0
2764	86.744	85.122	0.854	0.0	14.1	2808	86.732	85.122	0.842	0.0	14.0
2766	86.744	85.122	0.854	0.0	14.1	2810	86.732	85.122	0.842	0.0	14.0
2768	86.743	85.122	0.853	0.0	14.1	2812	86.731	85.122	0.841	0.0	14.0
2770	86.742	85.122	0.852	0.0	14.1	2814	86.730	85.122	0.840	0.0	14.0
2772	86.742	85.122	0.852	0.0	14.1	2816	86.730	85.122	0.840	0.0	14.0

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Innovyze	Network 2018.1.1	


Flows and Levels for Pipe 8.016 US/MH S2.53 FC (SW 02)
1440 minute 100 year Winter
Average Rainfall Intensity 3.462 mm/hr (1 of 4)

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)
2818	86.729	85.122	0.839	0.0	14.0	2850	86.721	85.121	0.831	0.0	14.0
2820	86.729	85.122	0.839	0.0	14.0	2852	86.720	85.121	0.830	0.0	13.9
2822	86.728	85.122	0.838	0.0	14.0	2854	86.720	85.121	0.830	0.0	13.9
2824	86.728	85.122	0.838	0.0	14.0	2856	86.719	85.121	0.829	0.0	13.9
2826	86.727	85.122	0.837	0.0	14.0	2858	86.718	85.121	0.828	0.0	13.9
2828	86.727	85.122	0.837	0.0	14.0	2860	86.718	85.121	0.828	0.0	13.9
2830	86.726	85.122	0.836	0.0	14.0	2862	86.717	85.121	0.827	0.0	13.9
2832	86.726	85.122	0.836	0.0	14.0	2864	86.717	85.121	0.827	0.0	13.9
2834	86.725	85.122	0.835	0.0	14.0	2866	86.716	85.121	0.826	0.0	13.9
2836	86.724	85.122	0.834	0.0	14.0	2868	86.716	85.121	0.826	0.0	13.9
2838	86.724	85.122	0.834	0.0	14.0	2870	86.715	85.121	0.825	0.0	13.9
2840	86.723	85.122	0.833	0.0	14.0	2872	86.715	85.121	0.825	0.0	13.9
2842	86.723	85.122	0.833	0.0	14.0	2874	86.714	85.121	0.824	0.0	13.9
2844	86.722	85.121	0.832	0.0	14.0	2876	86.713	85.121	0.823	0.0	13.9
2846	86.722	85.121	0.832	0.0	14.0	2878	86.713	85.121	0.823	0.0	13.9
2848	86.721	85.121	0.831	0.0	14.0	2880	86.712	85.121	0.822	0.0	13.9

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Innovyze	Network 2018.1.1	


Flows and Levels for Pipe 8.016 US/MH S2.53 FC (SW 02)
1440 minute 100 year Winter
Average Rainfall Intensity 3.462 mm/hr (2 of 4)

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)
2882	86.712	85.121	0.822	0.0	13.9	2926	86.700	85.121	0.810	0.0	13.8
2884	86.711	85.121	0.821	0.0	13.9	2928	86.699	85.121	0.809	0.0	13.8
2886	86.711	85.121	0.821	0.0	13.9	2930	86.699	85.121	0.809	0.0	13.8
2888	86.710	85.121	0.820	0.0	13.9	2932	86.698	85.121	0.808	0.0	13.8
2890	86.710	85.121	0.820	0.0	13.9	2934	86.697	85.121	0.807	0.0	13.8
2892	86.709	85.121	0.819	0.0	13.9	2936	86.697	85.121	0.807	0.0	13.8
2894	86.709	85.121	0.819	0.0	13.9	2938	86.696	85.121	0.806	0.0	13.8
2896	86.708	85.121	0.818	0.0	13.9	2940	86.696	85.121	0.806	0.0	13.8
2898	86.707	85.121	0.817	0.0	13.9	2942	86.695	85.121	0.805	0.0	13.8
2900	86.707	85.121	0.817	0.0	13.9	2944	86.695	85.121	0.805	0.0	13.8
2902	86.706	85.121	0.816	0.0	13.9	2946	86.694	85.121	0.804	0.0	13.8
2904	86.706	85.121	0.816	0.0	13.9	2948	86.694	85.121	0.804	0.0	13.8
2906	86.705	85.121	0.815	0.0	13.9	2950	86.693	85.121	0.803	0.0	13.8
2908	86.705	85.121	0.815	0.0	13.8	2952	86.693	85.121	0.803	0.0	13.8
2910	86.704	85.121	0.814	0.0	13.8	2954	86.692	85.121	0.802	0.0	13.8
2912	86.704	85.121	0.814	0.0	13.8	2956	86.691	85.121	0.801	0.0	13.8
2914	86.703	85.121	0.813	0.0	13.8	2958	86.691	85.121	0.801	0.0	13.8
2916	86.702	85.121	0.812	0.0	13.8	2960	86.690	85.121	0.800	0.0	13.8
2918	86.702	85.121	0.812	0.0	13.8	2962	86.690	85.121	0.800	0.0	13.8
2920	86.701	85.121	0.811	0.0	13.8	2964	86.689	85.121	0.799	0.0	13.7
2922	86.701	85.121	0.811	0.0	13.8	2966	86.689	85.121	0.799	0.0	13.7
2924	86.700	85.121	0.810	0.0	13.8	2968	86.688	85.121	0.798	0.0	13.7

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Flows and Levels for Pipe 8.016 US/MH S2.53 FC (SW 02)
1440 minute 100 year Winter
Average Rainfall Intensity 3.462 mm/hr (2 of 4)

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)
2970	86.688	85.121	0.798	0.0	13.7	3014	86.675	85.120	0.785	0.0	13.7
2972	86.687	85.121	0.797	0.0	13.7	3016	86.675	85.120	0.785	0.0	13.7
2974	86.686	85.121	0.796	0.0	13.7	3018	86.674	85.120	0.784	0.0	13.7
2976	86.686	85.121	0.796	0.0	13.7	3020	86.674	85.120	0.784	0.0	13.6
2978	86.685	85.121	0.795	0.0	13.7	3022	86.673	85.120	0.783	0.0	13.6
2980	86.685	85.121	0.795	0.0	13.7	3024	86.673	85.120	0.783	0.0	13.6
2982	86.684	85.121	0.794	0.0	13.7	3026	86.672	85.120	0.782	0.0	13.6
2984	86.684	85.121	0.794	0.0	13.7	3028	86.671	85.120	0.781	0.0	13.6
2986	86.683	85.121	0.793	0.0	13.7	3030	86.671	85.120	0.781	0.0	13.6
2988	86.683	85.121	0.793	0.0	13.7	3032	86.670	85.120	0.780	0.0	13.6
2990	86.682	85.121	0.792	0.0	13.7	3034	86.670	85.120	0.780	0.0	13.6
2992	86.681	85.121	0.791	0.0	13.7	3036	86.669	85.120	0.779	0.0	13.6
2994	86.681	85.121	0.791	0.0	13.7	3038	86.669	85.120	0.779	0.0	13.6
2996	86.680	85.121	0.790	0.0	13.7	3040	86.668	85.120	0.778	0.0	13.6
2998	86.680	85.121	0.790	0.0	13.7	3042	86.668	85.120	0.778	0.0	13.6
3000	86.679	85.121	0.789	0.0	13.7	3044	86.667	85.120	0.777	0.0	13.6
3002	86.679	85.121	0.789	0.0	13.7	3046	86.666	85.120	0.776	0.0	13.6
3004	86.678	85.121	0.788	0.0	13.7	3048	86.666	85.120	0.776	0.0	13.6
3006	86.678	85.120	0.788	0.0	13.7	3050	86.665	85.120	0.775	0.0	13.6
3008	86.677	85.120	0.787	0.0	13.7	3052	86.665	85.120	0.775	0.0	13.6
3010	86.676	85.120	0.786	0.0	13.7	3054	86.664	85.120	0.774	0.0	13.6
3012	86.676	85.120	0.786	0.0	13.7	3056	86.664	85.120	0.774	0.0	13.6

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Flows and Levels for Pipe 8.016 US/MH S2.53 FC (SW 02)
1440 minute 100 year Winter
Average Rainfall Intensity 3.462 mm/hr (2 of 4)

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)
3058	86.663	85.120	0.773	0.0	13.6	3102	86.651	85.120	0.761	0.0	13.5
3060	86.663	85.120	0.773	0.0	13.6	3104	86.650	85.120	0.760	0.0	13.5
3062	86.662	85.120	0.772	0.0	13.6	3106	86.650	85.120	0.760	0.0	13.5
3064	86.661	85.120	0.771	0.0	13.6	3108	86.649	85.120	0.759	0.0	13.5
3066	86.661	85.120	0.771	0.0	13.6	3110	86.649	85.120	0.759	0.0	13.5
3068	86.660	85.120	0.770	0.0	13.6	3112	86.648	85.120	0.758	0.0	13.5
3070	86.660	85.120	0.770	0.0	13.6	3114	86.648	85.120	0.758	0.0	13.5
3072	86.659	85.120	0.769	0.0	13.6	3116	86.647	85.120	0.757	0.0	13.5
3074	86.659	85.120	0.769	0.0	13.6	3118	86.646	85.120	0.756	0.0	13.5
3076	86.658	85.120	0.768	0.0	13.5	3120	86.646	85.120	0.756	0.0	13.5
3078	86.658	85.120	0.768	0.0	13.5	3122	86.645	85.120	0.755	0.0	13.5
3080	86.657	85.120	0.767	0.0	13.5	3124	86.645	85.120	0.755	0.0	13.5
3082	86.656	85.120	0.766	0.0	13.5	3126	86.644	85.120	0.754	0.0	13.5
3084	86.656	85.120	0.766	0.0	13.5	3128	86.644	85.120	0.754	0.0	13.5
3086	86.655	85.120	0.765	0.0	13.5	3130	86.643	85.120	0.753	0.0	13.4
3088	86.655	85.120	0.765	0.0	13.5	3132	86.642	85.120	0.752	0.0	13.4
3090	86.654	85.120	0.764	0.0	13.5	3134	86.642	85.120	0.752	0.0	13.4
3092	86.654	85.120	0.764	0.0	13.5	3136	86.641	85.120	0.751	0.0	13.4
3094	86.653	85.120	0.763	0.0	13.5	3138	86.641	85.120	0.751	0.0	13.4
3096	86.653	85.120	0.763	0.0	13.5	3140	86.640	85.120	0.750	0.0	13.4
3098	86.652	85.120	0.762	0.0	13.5	3142	86.640	85.120	0.750	0.0	13.4
3100	86.651	85.120	0.761	0.0	13.5	3144	86.639	85.120	0.749	0.0	13.4

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Flows and Levels for Pipe 8.016 US/MH S2.53 FC (SW 02)
1440 minute 100 year Winter
Average Rainfall Intensity 3.462 mm/hr (2 of 4)

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)
3146	86.639	85.120	0.749	0.0	13.4	3190	86.626	85.119	0.736	0.0	13.3
3148	86.638	85.120	0.748	0.0	13.4	3192	86.626	85.119	0.736	0.0	13.3
3150	86.637	85.120	0.747	0.0	13.4	3194	86.625	85.119	0.735	0.0	13.3
3152	86.637	85.120	0.747	0.0	13.4	3196	86.625	85.119	0.735	0.0	13.3
3154	86.636	85.120	0.746	0.0	13.4	3198	86.624	85.119	0.734	0.0	13.3
3156	86.636	85.120	0.746	0.0	13.4	3200	86.623	85.119	0.733	0.0	13.3
3158	86.635	85.120	0.745	0.0	13.4	3202	86.623	85.119	0.733	0.0	13.3
3160	86.635	85.120	0.745	0.0	13.4	3204	86.622	85.119	0.732	0.0	13.3
3162	86.634	85.120	0.744	0.0	13.4	3206	86.622	85.119	0.732	0.0	13.3
3164	86.634	85.119	0.744	0.0	13.4	3208	86.621	85.119	0.731	0.0	13.3
3166	86.633	85.119	0.743	0.0	13.4	3210	86.621	85.119	0.731	0.0	13.3
3168	86.632	85.119	0.742	0.0	13.4	3212	86.620	85.119	0.730	0.0	13.3
3170	86.632	85.119	0.742	0.0	13.4	3214	86.619	85.119	0.729	0.0	13.3
3172	86.631	85.119	0.741	0.0	13.4	3216	86.619	85.119	0.729	0.0	13.3
3174	86.631	85.119	0.741	0.0	13.4	3218	86.618	85.119	0.728	0.0	13.3
3176	86.630	85.119	0.740	0.0	13.4	3220	86.618	85.119	0.728	0.0	13.3
3178	86.630	85.119	0.740	0.0	13.4	3222	86.617	85.119	0.727	0.0	13.3
3180	86.629	85.119	0.739	0.0	13.4	3224	86.617	85.119	0.727	0.0	13.3
3182	86.628	85.119	0.738	0.0	13.3	3226	86.616	85.119	0.726	0.0	13.3
3184	86.628	85.119	0.738	0.0	13.3	3228	86.616	85.119	0.726	0.0	13.3
3186	86.627	85.119	0.737	0.0	13.3	3230	86.615	85.119	0.725	0.0	13.3
3188	86.627	85.119	0.737	0.0	13.3	3232	86.614	85.119	0.724	0.0	13.3

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Flows and Levels for Pipe 8.016 US/MH S2.53 FC (SW 02)
1440 minute 100 year Winter
Average Rainfall Intensity 3.462 mm/hr (2 of 4)

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)
3234	86.614	85.119	0.724	0.0	13.3	3278	86.601	85.119	0.711	0.0	13.2
3236	86.613	85.119	0.723	0.0	13.2	3280	86.601	85.119	0.711	0.0	13.2
3238	86.613	85.119	0.723	0.0	13.2	3282	86.600	85.119	0.710	0.0	13.2
3240	86.612	85.119	0.722	0.0	13.2	3284	86.600	85.119	0.710	0.0	13.2
3242	86.612	85.119	0.722	0.0	13.2	3286	86.599	85.119	0.709	0.0	13.2
3244	86.611	85.119	0.721	0.0	13.2	3288	86.599	85.119	0.709	0.0	13.1
3246	86.610	85.119	0.720	0.0	13.2	3290	86.598	85.119	0.708	0.0	13.1
3248	86.610	85.119	0.720	0.0	13.2	3292	86.597	85.119	0.707	0.0	13.1
3250	86.609	85.119	0.719	0.0	13.2	3294	86.597	85.119	0.707	0.0	13.1
3252	86.609	85.119	0.719	0.0	13.2	3296	86.596	85.119	0.706	0.0	13.1
3254	86.608	85.119	0.718	0.0	13.2	3298	86.596	85.119	0.706	0.0	13.1
3256	86.608	85.119	0.718	0.0	13.2	3300	86.595	85.119	0.705	0.0	13.1
3258	86.607	85.119	0.717	0.0	13.2	3302	86.595	85.119	0.705	0.0	13.1
3260	86.607	85.119	0.717	0.0	13.2	3304	86.594	85.119	0.704	0.0	13.1
3262	86.606	85.119	0.716	0.0	13.2	3306	86.593	85.119	0.703	0.0	13.1
3264	86.605	85.119	0.715	0.0	13.2	3308	86.593	85.119	0.703	0.0	13.1
3266	86.605	85.119	0.715	0.0	13.2	3310	86.592	85.119	0.702	0.0	13.1
3268	86.604	85.119	0.714	0.0	13.2	3312	86.592	85.119	0.702	0.0	13.1
3270	86.604	85.119	0.714	0.0	13.2	3314	86.591	85.119	0.701	0.0	13.1
3272	86.603	85.119	0.713	0.0	13.2	3316	86.591	85.118	0.701	0.0	13.1
3274	86.603	85.119	0.713	0.0	13.2	3318	86.590	85.118	0.700	0.0	13.1
3276	86.602	85.119	0.712	0.0	13.2	3320	86.590	85.118	0.700	0.0	13.1

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Innovyze	Network 2018.1.1	


Flows and Levels for Pipe 8.016 US/MH S2.53 FC (SW 02)
1440 minute 100 year Winter
Average Rainfall Intensity 3.462 mm/hr (2 of 4)

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)
3322	86.589	85.118	0.699	0.0	13.1	3366	86.576	85.118	0.686	0.0	13.0
3324	86.588	85.118	0.698	0.0	13.1	3368	86.576	85.118	0.686	0.0	13.0
3326	86.588	85.118	0.698	0.0	13.1	3370	86.575	85.118	0.685	0.0	13.0
3328	86.587	85.118	0.697	0.0	13.1	3372	86.575	85.118	0.685	0.0	13.0
3330	86.587	85.118	0.697	0.0	13.1	3374	86.574	85.118	0.684	0.0	13.0
3332	86.586	85.118	0.696	0.0	13.1	3376	86.574	85.118	0.684	0.0	13.0
3334	86.586	85.118	0.696	0.0	13.1	3378	86.573	85.118	0.683	0.0	13.0
3336	86.585	85.118	0.695	0.0	13.1	3380	86.572	85.118	0.682	0.0	13.0
3338	86.584	85.118	0.694	0.0	13.1	3382	86.572	85.118	0.682	0.0	13.0
3340	86.584	85.118	0.694	0.0	13.0	3384	86.571	85.118	0.681	0.0	13.0
3342	86.583	85.118	0.693	0.0	13.0	3386	86.571	85.118	0.681	0.0	13.0
3344	86.583	85.118	0.693	0.0	13.0	3388	86.570	85.118	0.680	0.0	13.0
3346	86.582	85.118	0.692	0.0	13.0	3390	86.570	85.118	0.680	0.0	13.0
3348	86.582	85.118	0.692	0.0	13.0	3392	86.569	85.118	0.679	0.0	12.9
3350	86.581	85.118	0.691	0.0	13.0	3394	86.568	85.118	0.678	0.0	12.9
3352	86.580	85.118	0.690	0.0	13.0	3396	86.568	85.118	0.678	0.0	12.9
3354	86.580	85.118	0.690	0.0	13.0	3398	86.567	85.118	0.677	0.0	12.9
3356	86.579	85.118	0.689	0.0	13.0	3400	86.567	85.118	0.677	0.0	12.9
3358	86.579	85.118	0.689	0.0	13.0	3402	86.566	85.118	0.676	0.0	12.9
3360	86.578	85.118	0.688	0.0	13.0	3404	86.566	85.118	0.676	0.0	12.9
3362	86.578	85.118	0.688	0.0	13.0	3406	86.565	85.118	0.675	0.0	12.9
3364	86.577	85.118	0.687	0.0	13.0	3408	86.564	85.118	0.674	0.0	12.9

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Innovyze	Network 2018.1.1	


Flows and Levels for Pipe 8.016 US/MH S2.53 FC (SW 02)
1440 minute 100 year Winter
Average Rainfall Intensity 3.462 mm/hr (2 of 4)

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)
3410	86.564	85.118	0.674	0.0	12.9	3454	86.551	85.118	0.661	0.0	12.8
3412	86.563	85.118	0.673	0.0	12.9	3456	86.551	85.118	0.661	0.0	12.8
3414	86.563	85.118	0.673	0.0	12.9	3458	86.550	85.118	0.660	0.0	12.8
3416	86.562	85.118	0.672	0.0	12.9	3460	86.549	85.118	0.659	0.0	12.8
3418	86.562	85.118	0.672	0.0	12.9	3462	86.549	85.117	0.659	0.0	12.8
3420	86.561	85.118	0.671	0.0	12.9	3464	86.548	85.117	0.658	0.0	12.8
3422	86.560	85.118	0.670	0.0	12.9	3466	86.548	85.117	0.658	0.0	12.8
3424	86.560	85.118	0.670	0.0	12.9	3468	86.547	85.117	0.657	0.0	12.8
3426	86.559	85.118	0.669	0.0	12.9	3470	86.547	85.117	0.657	0.0	12.8
3428	86.559	85.118	0.669	0.0	12.9	3472	86.546	85.117	0.656	0.0	12.8
3430	86.558	85.118	0.668	0.0	12.9	3474	86.545	85.117	0.655	0.0	12.8
3432	86.558	85.118	0.668	0.0	12.9	3476	86.545	85.117	0.655	0.0	12.8
3434	86.557	85.118	0.667	0.0	12.9	3478	86.544	85.117	0.654	0.0	12.8
3436	86.556	85.118	0.666	0.0	12.9	3480	86.544	85.117	0.654	0.0	12.8
3438	86.556	85.118	0.666	0.0	12.9	3482	86.543	85.117	0.653	0.0	12.8
3440	86.555	85.118	0.665	0.0	12.9	3484	86.543	85.117	0.653	0.0	12.8
3442	86.555	85.118	0.665	0.0	12.8	3486	86.542	85.117	0.652	0.0	12.8
3444	86.554	85.118	0.664	0.0	12.8	3488	86.541	85.117	0.651	0.0	12.8
3446	86.554	85.118	0.664	0.0	12.8	3490	86.541	85.117	0.651	0.0	12.8
3448	86.553	85.118	0.663	0.0	12.8	3492	86.540	85.117	0.650	0.0	12.7
3450	86.552	85.118	0.662	0.0	12.8	3494	86.540	85.117	0.650	0.0	12.7
3452	86.552	85.118	0.662	0.0	12.8	3496	86.539	85.117	0.649	0.0	12.7

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Flows and Levels for Pipe 8.016 US/MH S2.53 FC (SW 02)
1440 minute 100 year Winter
Average Rainfall Intensity 3.462 mm/hr (2 of 4)

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)
3498	86.538	85.117	0.648	0.0	12.7	3542	86.526	85.117	0.636	0.0	12.6
3500	86.538	85.117	0.648	0.0	12.7	3544	86.525	85.117	0.635	0.0	12.6
3502	86.537	85.117	0.647	0.0	12.7	3546	86.525	85.117	0.635	0.0	12.6
3504	86.537	85.117	0.647	0.0	12.7	3548	86.524	85.117	0.634	0.0	12.6
3506	86.536	85.117	0.646	0.0	12.7	3550	86.523	85.117	0.633	0.0	12.6
3508	86.536	85.117	0.646	0.0	12.7	3552	86.523	85.117	0.633	0.0	12.6
3510	86.535	85.117	0.645	0.0	12.7	3554	86.522	85.117	0.632	0.0	12.6
3512	86.534	85.117	0.644	0.0	12.7	3556	86.522	85.117	0.632	0.0	12.6
3514	86.534	85.117	0.644	0.0	12.7	3558	86.521	85.117	0.631	0.0	12.6
3516	86.533	85.117	0.643	0.0	12.7	3560	86.520	85.117	0.630	0.0	12.6
3518	86.533	85.117	0.643	0.0	12.7	3562	86.520	85.117	0.630	0.0	12.6
3520	86.532	85.117	0.642	0.0	12.7	3564	86.519	85.117	0.629	0.0	12.6
3522	86.532	85.117	0.642	0.0	12.7	3566	86.519	85.117	0.629	0.0	12.6
3524	86.531	85.117	0.641	0.0	12.7	3568	86.518	85.117	0.628	0.0	12.6
3526	86.530	85.117	0.640	0.0	12.7	3570	86.517	85.117	0.627	0.0	12.6
3528	86.530	85.117	0.640	0.0	12.7	3572	86.517	85.117	0.627	0.0	12.6
3530	86.529	85.117	0.639	0.0	12.7	3574	86.516	85.117	0.626	0.0	12.6
3532	86.529	85.117	0.639	0.0	12.7	3576	86.516	85.117	0.626	0.0	12.6
3534	86.528	85.117	0.638	0.0	12.7	3578	86.515	85.117	0.625	0.0	12.6
3536	86.527	85.117	0.637	0.0	12.7	3580	86.515	85.117	0.625	0.0	12.6
3538	86.527	85.117	0.637	0.0	12.7	3582	86.514	85.117	0.624	0.0	12.6
3540	86.526	85.117	0.636	0.0	12.6	3584	86.513	85.117	0.623	0.0	12.6

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Flows and Levels for Pipe 8.016 US/MH S2.53 FC (SW 02)
1440 minute 100 year Winter
Average Rainfall Intensity 3.462 mm/hr (2 of 4)

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)
3586	86.513	85.117	0.623	0.0	12.6	3630	86.500	85.116	0.610	0.0	12.5
3588	86.512	85.117	0.622	0.0	12.5	3632	86.499	85.116	0.609	0.0	12.5
3590	86.512	85.117	0.622	0.0	12.5	3634	86.499	85.116	0.609	0.0	12.5
3592	86.511	85.117	0.621	0.0	12.5	3636	86.498	85.116	0.608	0.0	12.4
3594	86.510	85.117	0.620	0.0	12.5	3638	86.497	85.116	0.607	0.0	12.4
3596	86.510	85.117	0.620	0.0	12.5	3640	86.497	85.116	0.607	0.0	12.4
3598	86.509	85.117	0.619	0.0	12.5	3642	86.496	85.116	0.606	0.0	12.4
3600	86.509	85.117	0.619	0.0	12.5	3644	86.496	85.116	0.606	0.0	12.4
3602	86.508	85.116	0.618	0.0	12.5	3646	86.495	85.116	0.605	0.0	12.4
3604	86.508	85.116	0.618	0.0	12.5	3648	86.495	85.116	0.605	0.0	12.4
3606	86.507	85.116	0.617	0.0	12.5	3650	86.494	85.116	0.604	0.0	12.4
3608	86.506	85.116	0.616	0.0	12.5	3652	86.493	85.116	0.603	0.0	12.4
3610	86.506	85.116	0.616	0.0	12.5	3654	86.493	85.116	0.603	0.0	12.4
3612	86.505	85.116	0.615	0.0	12.5	3656	86.492	85.116	0.602	0.0	12.4
3614	86.505	85.116	0.615	0.0	12.5	3658	86.492	85.116	0.602	0.0	12.4
3616	86.504	85.116	0.614	0.0	12.5	3660	86.491	85.116	0.601	0.0	12.4
3618	86.503	85.116	0.613	0.0	12.5	3662	86.490	85.116	0.600	0.0	12.4
3620	86.503	85.116	0.613	0.0	12.5	3664	86.490	85.116	0.600	0.0	12.4
3622	86.502	85.116	0.612	0.0	12.5	3666	86.489	85.116	0.599	0.0	12.4
3624	86.502	85.116	0.612	0.0	12.5	3668	86.489	85.116	0.599	0.0	12.4
3626	86.501	85.116	0.611	0.0	12.5	3670	86.488	85.116	0.598	0.0	12.4
3628	86.500	85.116	0.610	0.0	12.5	3672	86.487	85.116	0.597	0.0	12.4

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Flows and Levels for Pipe 8.016 US/MH S2.53 FC (SW 02)
1440 minute 100 year Winter
Average Rainfall Intensity 3.462 mm/hr (2 of 4)

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)
3674	86.487	85.116	0.597	0.0	12.4	3718	86.474	85.116	0.584	0.0	12.3
3676	86.486	85.116	0.596	0.0	12.4	3720	86.473	85.116	0.583	0.0	12.3
3678	86.486	85.116	0.596	0.0	12.4	3722	86.473	85.116	0.583	0.0	12.3
3680	86.485	85.116	0.595	0.0	12.4	3724	86.472	85.116	0.582	0.0	12.3
3682	86.484	85.116	0.594	0.0	12.3	3726	86.471	85.116	0.581	0.0	12.3
3684	86.484	85.116	0.594	0.0	12.3	3728	86.471	85.116	0.581	0.0	12.3
3686	86.483	85.116	0.593	0.0	12.3	3730	86.470	85.116	0.580	0.0	12.2
3688	86.483	85.116	0.593	0.0	12.3	3732	86.470	85.116	0.580	0.0	12.2
3690	86.482	85.116	0.592	0.0	12.3	3734	86.469	85.116	0.579	0.0	12.2
3692	86.481	85.116	0.591	0.0	12.3	3736	86.468	85.116	0.578	0.0	12.2
3694	86.481	85.116	0.591	0.0	12.3	3738	86.468	85.115	0.578	0.0	12.2
3696	86.480	85.116	0.590	0.0	12.3	3740	86.467	85.115	0.577	0.0	12.2
3698	86.480	85.116	0.590	0.0	12.3	3742	86.467	85.115	0.577	0.0	12.2
3700	86.479	85.116	0.589	0.0	12.3	3744	86.466	85.115	0.576	0.0	12.2
3702	86.478	85.116	0.588	0.0	12.3	3746	86.465	85.115	0.575	0.0	12.2
3704	86.478	85.116	0.588	0.0	12.3	3748	86.465	85.115	0.575	0.0	12.2
3706	86.477	85.116	0.587	0.0	12.3	3750	86.464	85.115	0.574	0.0	12.2
3708	86.477	85.116	0.587	0.0	12.3	3752	86.464	85.115	0.574	0.0	12.2
3710	86.476	85.116	0.586	0.0	12.3	3754	86.463	85.115	0.573	0.0	12.2
3712	86.476	85.116	0.586	0.0	12.3	3756	86.462	85.115	0.572	0.0	12.2
3714	86.475	85.116	0.585	0.0	12.3	3758	86.462	85.115	0.572	0.0	12.2
3716	86.474	85.116	0.584	0.0	12.3	3760	86.461	85.115	0.571	0.0	12.2

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Flows and Levels for Pipe 8.016 US/MH S2.53 FC (SW 02)
1440 minute 100 year Winter
Average Rainfall Intensity 3.462 mm/hr (2 of 4)

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)
3762	86.461	85.115	0.571	0.0	12.2	3806	86.447	85.115	0.557	0.0	12.1
3764	86.460	85.115	0.570	0.0	12.2	3808	86.447	85.115	0.557	0.0	12.1
3766	86.459	85.115	0.569	0.0	12.2	3810	86.446	85.115	0.556	0.0	12.1
3768	86.459	85.115	0.569	0.0	12.2	3812	86.445	85.115	0.555	0.0	12.1
3770	86.458	85.115	0.568	0.0	12.2	3814	86.445	85.115	0.555	0.0	12.1
3772	86.458	85.115	0.568	0.0	12.2	3816	86.444	85.115	0.554	0.0	12.1
3774	86.457	85.115	0.567	0.0	12.1	3818	86.444	85.115	0.554	0.0	12.1
3776	86.456	85.115	0.566	0.0	12.1	3820	86.443	85.115	0.553	0.0	12.0
3778	86.456	85.115	0.566	0.0	12.1	3822	86.442	85.115	0.552	0.0	12.0
3780	86.455	85.115	0.565	0.0	12.1	3824	86.442	85.115	0.552	0.0	12.0
3782	86.455	85.115	0.565	0.0	12.1	3826	86.441	85.115	0.551	0.0	12.0
3784	86.454	85.115	0.564	0.0	12.1	3828	86.441	85.115	0.551	0.0	12.0
3786	86.453	85.115	0.563	0.0	12.1	3830	86.440	85.115	0.550	0.0	12.0
3788	86.453	85.115	0.563	0.0	12.1	3832	86.439	85.115	0.549	0.0	12.0
3790	86.452	85.115	0.562	0.0	12.1	3834	86.439	85.115	0.549	0.0	12.0
3792	86.452	85.115	0.562	0.0	12.1	3836	86.438	85.115	0.548	0.0	12.0
3794	86.451	85.115	0.561	0.0	12.1	3838	86.438	85.115	0.548	0.0	12.0
3796	86.450	85.115	0.560	0.0	12.1	3840	86.437	85.115	0.547	0.0	12.0
3798	86.450	85.115	0.560	0.0	12.1	3842	86.436	85.115	0.546	0.0	12.0
3800	86.449	85.115	0.559	0.0	12.1	3844	86.436	85.115	0.546	0.0	12.0
3802	86.449	85.115	0.559	0.0	12.1	3846	86.435	85.115	0.545	0.0	12.0
3804	86.448	85.115	0.558	0.0	12.1	3848	86.435	85.115	0.545	0.0	12.0

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Flows and Levels for Pipe 8.016 US/MH S2.53 FC (SW 02)
1440 minute 100 year Winter
Average Rainfall Intensity 3.462 mm/hr (2 of 4)

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)
3850	86.434	85.115	0.544	0.0	12.0	3894	86.421	85.114	0.531	0.0	11.9
3852	86.433	85.114	0.543	0.0	12.0	3896	86.420	85.114	0.530	0.0	11.9
3854	86.433	85.114	0.543	0.0	12.0	3898	86.419	85.114	0.529	0.0	11.9
3856	86.432	85.114	0.542	0.0	12.0	3900	86.419	85.114	0.529	0.0	11.9
3858	86.432	85.114	0.542	0.0	12.0	3902	86.418	85.114	0.528	0.0	11.9
3860	86.431	85.114	0.541	0.0	12.0	3904	86.418	85.114	0.528	0.0	11.9
3862	86.430	85.114	0.540	0.0	12.0	3906	86.417	85.114	0.527	0.0	11.9
3864	86.430	85.114	0.540	0.0	11.9	3908	86.416	85.114	0.526	0.0	11.8
3866	86.429	85.114	0.539	0.0	11.9	3910	86.416	85.114	0.526	0.0	11.8
3868	86.429	85.114	0.539	0.0	11.9	3912	86.415	85.114	0.525	0.0	11.8
3870	86.428	85.114	0.538	0.0	11.9	3914	86.414	85.114	0.524	0.0	11.8
3872	86.427	85.114	0.537	0.0	11.9	3916	86.414	85.114	0.524	0.0	11.8
3874	86.427	85.114	0.537	0.0	11.9	3918	86.413	85.114	0.523	0.0	11.8
3876	86.426	85.114	0.536	0.0	11.9	3920	86.413	85.114	0.523	0.0	11.8
3878	86.425	85.114	0.535	0.0	11.9	3922	86.412	85.114	0.522	0.0	11.8
3880	86.425	85.114	0.535	0.0	11.9	3924	86.411	85.114	0.521	0.0	11.8
3882	86.424	85.114	0.534	0.0	11.9	3926	86.411	85.114	0.521	0.0	11.8
3884	86.424	85.114	0.534	0.0	11.9	3928	86.410	85.114	0.520	0.0	11.8
3886	86.423	85.114	0.533	0.0	11.9	3930	86.410	85.114	0.520	0.0	11.8
3888	86.422	85.114	0.532	0.0	11.9	3932	86.409	85.114	0.519	0.0	11.8
3890	86.422	85.114	0.532	0.0	11.9	3934	86.408	85.114	0.518	0.0	11.8
3892	86.421	85.114	0.531	0.0	11.9	3936	86.408	85.114	0.518	0.0	11.8

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1440 minute 100 year Winter
Average Rainfall Intensity 3.462 mm/hr (2 of 4)

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)
3938	86.407	85.114	0.517	0.0	11.8	3982	86.394	85.113	0.504	0.0	11.7
3940	86.406	85.114	0.516	0.0	11.8	3984	86.393	85.113	0.503	0.0	11.7
3942	86.406	85.114	0.516	0.0	11.8	3986	86.392	85.113	0.502	0.0	11.7
3944	86.405	85.114	0.515	0.0	11.8	3988	86.392	85.113	0.502	0.0	11.7
3946	86.405	85.114	0.515	0.0	11.8	3990	86.391	85.113	0.501	0.0	11.7
3948	86.404	85.113	0.514	0.0	11.8	3992	86.390	85.113	0.500	0.0	11.7
3950	86.403	85.113	0.513	0.0	11.7	3994	86.390	85.113	0.500	0.0	11.6
3952	86.403	85.113	0.513	0.0	11.7	3996	86.389	85.113	0.499	0.0	11.6
3954	86.402	85.113	0.512	0.0	11.7	3998	86.389	85.113	0.499	0.0	11.6
3956	86.402	85.113	0.512	0.0	11.7	4000	86.388	85.113	0.498	0.0	11.6
3958	86.401	85.113	0.511	0.0	11.7	4002	86.387	85.113	0.497	0.0	11.6
3960	86.400	85.113	0.510	0.0	11.7	4004	86.387	85.113	0.497	0.0	11.6
3962	86.400	85.113	0.510	0.0	11.7	4006	86.386	85.113	0.496	0.0	11.6
3964	86.399	85.113	0.509	0.0	11.7	4008	86.385	85.113	0.495	0.0	11.6
3966	86.398	85.113	0.508	0.0	11.7	4010	86.385	85.113	0.495	0.0	11.6
3968	86.398	85.113	0.508	0.0	11.7	4012	86.384	85.113	0.494	0.0	11.6
3970	86.397	85.113	0.507	0.0	11.7	4014	86.384	85.113	0.494	0.0	11.6
3972	86.397	85.113	0.507	0.0	11.7	4016	86.383	85.113	0.493	0.0	11.6
3974	86.396	85.113	0.506	0.0	11.7	4018	86.382	85.113	0.492	0.0	11.6
3976	86.395	85.113	0.505	0.0	11.7	4020	86.382	85.113	0.492	0.0	11.6
3978	86.395	85.113	0.505	0.0	11.7	4022	86.381	85.113	0.491	0.0	11.6
3980	86.394	85.113	0.504	0.0	11.7	4024	86.381	85.113	0.491	0.0	11.6

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1440 minute 100 year Winter
Average Rainfall Intensity 3.462 mm/hr (2 of 4)

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)
4026	86.380	85.113	0.490	0.0	11.6	4070	86.366	85.112	0.476	0.0	11.5
4028	86.379	85.113	0.489	0.0	11.6	4072	86.366	85.112	0.476	0.0	11.5
4030	86.379	85.113	0.489	0.0	11.6	4074	86.365	85.112	0.475	0.0	11.5
4032	86.378	85.113	0.488	0.0	11.6	4076	86.364	85.112	0.474	0.0	11.4
4034	86.377	85.113	0.487	0.0	11.6	4078	86.364	85.112	0.474	0.0	11.4
4036	86.377	85.113	0.487	0.0	11.5	4080	86.363	85.112	0.473	0.0	11.4
4038	86.376	85.113	0.486	0.0	11.5	4082	86.362	85.112	0.472	0.0	11.4
4040	86.376	85.113	0.486	0.0	11.5	4084	86.362	85.112	0.472	0.0	11.4
4042	86.375	85.112	0.485	0.0	11.5	4086	86.361	85.112	0.471	0.0	11.4
4044	86.374	85.112	0.484	0.0	11.5	4088	86.361	85.112	0.471	0.0	11.4
4046	86.374	85.112	0.484	0.0	11.5	4090	86.360	85.112	0.470	0.0	11.4
4048	86.373	85.112	0.483	0.0	11.5	4092	86.359	85.112	0.469	0.0	11.4
4050	86.372	85.112	0.482	0.0	11.5	4094	86.359	85.112	0.469	0.0	11.4
4052	86.372	85.112	0.482	0.0	11.5	4096	86.358	85.112	0.468	0.0	11.4
4054	86.371	85.112	0.481	0.0	11.5	4098	86.357	85.112	0.467	0.0	11.4
4056	86.371	85.112	0.481	0.0	11.5	4100	86.357	85.112	0.467	0.0	11.4
4058	86.370	85.112	0.480	0.0	11.5	4102	86.356	85.112	0.466	0.0	11.4
4060	86.369	85.112	0.479	0.0	11.5	4104	86.356	85.112	0.466	0.0	11.4
4062	86.369	85.112	0.479	0.0	11.5	4106	86.355	85.112	0.465	0.0	11.4
4064	86.368	85.112	0.478	0.0	11.5	4108	86.354	85.112	0.464	0.0	11.4
4066	86.367	85.112	0.477	0.0	11.5	4110	86.354	85.112	0.464	0.0	11.4
4068	86.367	85.112	0.477	0.0	11.5	4112	86.353	85.112	0.463	0.0	11.4

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Average Rainfall Intensity 3.462 mm/hr (2 of 4)

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)
4114	86.352	85.112	0.462	0.0	11.4	4158	86.339	85.111	0.449	0.0	11.2
4116	86.352	85.112	0.462	0.0	11.4	4160	86.338	85.111	0.448	0.0	11.2
4118	86.351	85.112	0.461	0.0	11.3	4162	86.337	85.111	0.447	0.0	11.2
4120	86.351	85.112	0.461	0.0	11.3	4164	86.337	85.111	0.447	0.0	11.2
4122	86.350	85.112	0.460	0.0	11.3	4166	86.336	85.111	0.446	0.0	11.2
4124	86.349	85.112	0.459	0.0	11.3	4168	86.335	85.111	0.445	0.0	11.2
4126	86.349	85.112	0.459	0.0	11.3	4170	86.335	85.111	0.445	0.0	11.2
4128	86.348	85.112	0.458	0.0	11.3	4172	86.334	85.111	0.444	0.0	11.2
4130	86.347	85.112	0.457	0.0	11.3	4174	86.334	85.111	0.444	0.0	11.2
4132	86.347	85.112	0.457	0.0	11.3	4176	86.333	85.111	0.443	0.0	11.2
4134	86.346	85.111	0.456	0.0	11.3	4178	86.332	85.111	0.442	0.0	11.2
4136	86.346	85.111	0.456	0.0	11.3	4180	86.332	85.111	0.442	0.0	11.2
4138	86.345	85.111	0.455	0.0	11.3	4182	86.331	85.111	0.441	0.0	11.2
4140	86.344	85.111	0.454	0.0	11.3	4184	86.330	85.111	0.440	0.0	11.2
4142	86.344	85.111	0.454	0.0	11.3	4186	86.330	85.111	0.440	0.0	11.2
4144	86.343	85.111	0.453	0.0	11.3	4188	86.329	85.111	0.439	0.0	11.2
4146	86.342	85.111	0.452	0.0	11.3	4190	86.328	85.111	0.438	0.0	11.2
4148	86.342	85.111	0.452	0.0	11.3	4192	86.328	85.111	0.438	0.0	11.2
4150	86.341	85.111	0.451	0.0	11.3	4194	86.327	85.111	0.437	0.0	11.2
4152	86.340	85.111	0.450	0.0	11.3	4196	86.326	85.111	0.436	0.0	11.2
4154	86.340	85.111	0.450	0.0	11.3	4198	86.326	85.111	0.436	0.0	11.1
4156	86.339	85.111	0.449	0.0	11.3	4200	86.325	85.111	0.435	0.0	11.1

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Average Rainfall Intensity 3.462 mm/hr (2 of 4)

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)
4202	86.325	85.111	0.435	0.0	11.1	4246	86.310	85.110	0.420	0.0	11.0
4204	86.324	85.111	0.434	0.0	11.1	4248	86.310	85.110	0.420	0.0	11.0
4206	86.323	85.111	0.433	0.0	11.1	4250	86.309	85.110	0.419	0.0	11.0
4208	86.323	85.111	0.433	0.0	11.1	4252	86.308	85.110	0.418	0.0	11.0
4210	86.322	85.111	0.432	0.0	11.1	4254	86.308	85.110	0.418	0.0	11.0
4212	86.321	85.111	0.431	0.0	11.1	4256	86.307	85.110	0.417	0.0	11.0
4214	86.321	85.111	0.431	0.0	11.1	4258	86.306	85.110	0.416	0.0	11.0
4216	86.320	85.111	0.430	0.0	11.1	4260	86.306	85.110	0.416	0.0	11.0
4218	86.319	85.111	0.429	0.0	11.1	4262	86.305	85.110	0.415	0.0	11.0
4220	86.319	85.110	0.429	0.0	11.1	4264	86.304	85.110	0.414	0.0	11.0
4222	86.318	85.110	0.428	0.0	11.1	4266	86.304	85.110	0.414	0.0	11.0
4224	86.317	85.110	0.427	0.0	11.1	4268	86.303	85.110	0.413	0.0	11.0
4226	86.317	85.110	0.427	0.0	11.1	4270	86.303	85.110	0.413	0.0	11.0
4228	86.316	85.110	0.426	0.0	11.1	4272	86.302	85.110	0.412	0.0	11.0
4230	86.316	85.110	0.426	0.0	11.1	4274	86.301	85.110	0.411	0.0	10.9
4232	86.315	85.110	0.425	0.0	11.1	4276	86.301	85.110	0.411	0.0	10.9
4234	86.314	85.110	0.424	0.0	11.1	4278	86.300	85.110	0.410	0.0	10.9
4236	86.314	85.110	0.424	0.0	11.0	4280	86.299	85.110	0.409	0.0	10.9
4238	86.313	85.110	0.423	0.0	11.0	4282	86.299	85.110	0.409	0.0	10.9
4240	86.312	85.110	0.422	0.0	11.0	4284	86.298	85.110	0.408	0.0	10.9
4242	86.312	85.110	0.422	0.0	11.0	4286	86.297	85.110	0.407	0.0	10.9
4244	86.311	85.110	0.421	0.0	11.0	4288	86.297	85.110	0.407	0.0	10.9

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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)
4290	86.296	85.110	0.406	0.0	10.9	4334	86.281	85.109	0.391	0.0	10.8
4292	86.295	85.110	0.405	0.0	10.9	4336	86.281	85.109	0.391	0.0	10.8
4294	86.295	85.110	0.405	0.0	10.9	4338	86.280	85.109	0.390	0.0	10.8
4296	86.294	85.110	0.404	0.0	10.9	4340	86.279	85.109	0.389	0.0	10.8
4298	86.293	85.110	0.403	0.0	10.9	4342	86.279	85.109	0.389	0.0	10.8
4300	86.293	85.110	0.403	0.0	10.9	4344	86.278	85.109	0.388	0.0	10.8
4302	86.292	85.110	0.402	0.0	10.9	4346	86.277	85.109	0.387	0.0	10.7
4304	86.291	85.109	0.401	0.0	10.9	4348	86.277	85.109	0.387	0.0	10.7
4306	86.291	85.109	0.401	0.0	10.9	4350	86.276	85.109	0.386	0.0	10.7
4308	86.290	85.109	0.400	0.0	10.9	4352	86.275	85.109	0.385	0.0	10.7
4310	86.289	85.109	0.399	0.0	10.8	4354	86.275	85.109	0.385	0.0	10.7
4312	86.289	85.109	0.399	0.0	10.8	4356	86.274	85.109	0.384	0.0	10.7
4314	86.288	85.109	0.398	0.0	10.8	4358	86.273	85.109	0.383	0.0	10.7
4316	86.287	85.109	0.397	0.0	10.8	4360	86.273	85.109	0.383	0.0	10.7
4318	86.287	85.109	0.397	0.0	10.8	4362	86.272	85.109	0.382	0.0	10.7
4320	86.286	85.109	0.396	0.0	10.8	4364	86.271	85.109	0.381	0.0	10.7
4322	86.285	85.109	0.395	0.0	10.8	4366	86.271	85.109	0.381	0.0	10.7
4324	86.285	85.109	0.395	0.0	10.8	4368	86.270	85.109	0.380	0.0	10.7
4326	86.284	85.109	0.394	0.0	10.8	4370	86.269	85.109	0.379	0.0	10.7
4328	86.283	85.109	0.393	0.0	10.8	4372	86.268	85.109	0.378	0.0	10.7
4330	86.283	85.109	0.393	0.0	10.8	4374	86.268	85.109	0.378	0.0	10.7
4332	86.282	85.109	0.392	0.0	10.8	4376	86.267	85.109	0.377	0.0	10.7

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Innovyze	Network 2018.1.1	


Flows and Levels for Pipe 8.016 US/MH S2.53 FC (SW 02)
1440 minute 100 year Winter
Average Rainfall Intensity 3.462 mm/hr (2 of 4)

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)
4378	86.266	85.109	0.376	0.0	10.7	4422	86.251	85.108	0.361	0.0	10.5
4380	86.266	85.109	0.376	0.0	10.7	4424	86.251	85.108	0.361	0.0	10.5
4382	86.265	85.109	0.375	0.0	10.6	4426	86.250	85.108	0.360	0.0	10.5
4384	86.264	85.108	0.374	0.0	10.6	4428	86.249	85.108	0.359	0.0	10.5
4386	86.264	85.108	0.374	0.0	10.6	4430	86.249	85.108	0.359	0.0	10.5
4388	86.263	85.108	0.373	0.0	10.6	4432	86.248	85.108	0.358	0.0	10.5
4390	86.262	85.108	0.372	0.0	10.6	4434	86.247	85.108	0.357	0.0	10.5
4392	86.262	85.108	0.372	0.0	10.6	4436	86.246	85.108	0.356	0.0	10.5
4394	86.261	85.108	0.371	0.0	10.6	4438	86.246	85.108	0.356	0.0	10.5
4396	86.260	85.108	0.370	0.0	10.6	4440	86.245	85.108	0.355	0.0	10.5
4398	86.260	85.108	0.370	0.0	10.6	4442	86.244	85.108	0.354	0.0	10.5
4400	86.259	85.108	0.369	0.0	10.6	4444	86.244	85.108	0.354	0.0	10.5
4402	86.258	85.108	0.368	0.0	10.6	4446	86.243	85.108	0.353	0.0	10.5
4404	86.258	85.108	0.368	0.0	10.6	4448	86.242	85.108	0.352	0.0	10.5
4406	86.257	85.108	0.367	0.0	10.6	4450	86.241	85.108	0.351	0.0	10.4
4408	86.256	85.108	0.366	0.0	10.6	4452	86.241	85.108	0.351	0.0	10.4
4410	86.255	85.108	0.365	0.0	10.6	4454	86.240	85.108	0.350	0.0	10.4
4412	86.255	85.108	0.365	0.0	10.6	4456	86.239	85.108	0.349	0.0	10.4
4414	86.254	85.108	0.364	0.0	10.6	4458	86.238	85.107	0.348	0.0	10.4
4416	86.253	85.108	0.363	0.0	10.5	4460	86.238	85.107	0.348	0.0	10.4
4418	86.253	85.108	0.363	0.0	10.5	4462	86.237	85.107	0.347	0.0	10.4
4420	86.252	85.108	0.362	0.0	10.5	4464	86.237	85.107	0.347	0.0	10.4

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Innovyze	Network 2018.1.1	


Flows and Levels for Pipe 8.016 US/MH S2.53 FC (SW 02)
1440 minute 100 year Winter
Average Rainfall Intensity 3.462 mm/hr (2 of 4)

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)
4466	86.236	85.107	0.346	0.0	10.4	4510	86.220	85.107	0.330	0.0	10.3
4468	86.235	85.107	0.345	0.0	10.4	4512	86.220	85.107	0.330	0.0	10.3
4470	86.235	85.107	0.345	0.0	10.4	4514	86.219	85.107	0.329	0.0	10.3
4472	86.234	85.107	0.344	0.0	10.4	4516	86.218	85.107	0.328	0.0	10.2
4474	86.233	85.107	0.343	0.0	10.4	4518	86.217	85.107	0.327	0.0	10.2
4476	86.232	85.107	0.342	0.0	10.4	4520	86.217	85.107	0.327	0.0	10.2
4478	86.232	85.107	0.342	0.0	10.4	4522	86.216	85.107	0.326	0.0	10.2
4480	86.231	85.107	0.341	0.0	10.4	4524	86.215	85.107	0.325	0.0	10.2
4482	86.230	85.107	0.340	0.0	10.4	4526	86.215	85.107	0.325	0.0	10.2
4484	86.230	85.107	0.340	0.0	10.3	4528	86.214	85.107	0.324	0.0	10.2
4486	86.229	85.107	0.339	0.0	10.3	4530	86.213	85.107	0.323	0.0	10.2
4488	86.228	85.107	0.338	0.0	10.3	4532	86.212	85.106	0.322	0.0	10.2
4490	86.227	85.107	0.337	0.0	10.3	4534	86.212	85.106	0.322	0.0	10.2
4492	86.227	85.107	0.337	0.0	10.3	4536	86.211	85.106	0.321	0.0	10.2
4494	86.226	85.107	0.336	0.0	10.3	4538	86.210	85.106	0.320	0.0	10.2
4496	86.225	85.107	0.335	0.0	10.3	4540	86.210	85.106	0.320	0.0	10.2
4498	86.225	85.107	0.335	0.0	10.3	4542	86.209	85.106	0.319	0.0	10.2
4500	86.224	85.107	0.334	0.0	10.3	4544	86.208	85.106	0.318	0.0	10.2
4502	86.223	85.107	0.333	0.0	10.3	4546	86.207	85.106	0.317	0.0	10.2
4504	86.222	85.107	0.332	0.0	10.3	4548	86.207	85.106	0.317	0.0	10.1
4506	86.222	85.107	0.332	0.0	10.3	4550	86.206	85.106	0.316	0.0	10.1
4508	86.221	85.107	0.331	0.0	10.3	4552	86.205	85.106	0.315	0.0	10.1

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Flows and Levels for Pipe 8.016 US/MH S2.53 FC (SW 02)
1440 minute 100 year Winter
Average Rainfall Intensity 3.462 mm/hr (2 of 4)

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)
4554	86.204	85.106	0.314	0.0	10.1	4598	86.188	85.106	0.298	0.0	10.0
4556	86.204	85.106	0.314	0.0	10.1	4600	86.188	85.105	0.298	0.0	10.0
4558	86.203	85.106	0.313	0.0	10.1	4602	86.187	85.105	0.297	0.0	10.0
4560	86.202	85.106	0.312	0.0	10.1	4604	86.186	85.105	0.296	0.0	10.0
4562	86.202	85.106	0.312	0.0	10.1	4606	86.185	85.105	0.295	0.0	10.0
4564	86.201	85.106	0.311	0.0	10.1	4608	86.185	85.105	0.295	0.0	10.0
4566	86.200	85.106	0.310	0.0	10.1	4610	86.184	85.105	0.294	0.0	9.9
4568	86.199	85.106	0.309	0.0	10.1	4612	86.183	85.105	0.293	0.0	9.9
4570	86.199	85.106	0.309	0.0	10.1	4614	86.182	85.105	0.292	0.0	9.9
4572	86.198	85.106	0.308	0.0	10.1	4616	86.182	85.105	0.292	0.0	9.9
4574	86.197	85.106	0.307	0.0	10.1	4618	86.181	85.105	0.291	0.0	9.9
4576	86.196	85.106	0.306	0.0	10.1	4620	86.180	85.105	0.290	0.0	9.9
4578	86.196	85.106	0.306	0.0	10.0	4622	86.179	85.105	0.289	0.0	9.9
4580	86.195	85.106	0.305	0.0	10.0	4624	86.179	85.105	0.289	0.0	9.9
4582	86.194	85.106	0.304	0.0	10.0	4626	86.178	85.105	0.288	0.0	9.9
4584	86.193	85.106	0.303	0.0	10.0	4628	86.177	85.105	0.287	0.0	9.9
4586	86.193	85.106	0.303	0.0	10.0	4630	86.176	85.105	0.286	0.0	9.9
4588	86.192	85.106	0.302	0.0	10.0	4632	86.176	85.105	0.286	0.0	9.9
4590	86.191	85.106	0.301	0.0	10.0	4634	86.175	85.105	0.285	0.0	9.9
4592	86.190	85.106	0.300	0.0	10.0	4636	86.174	85.105	0.284	0.0	9.9
4594	86.190	85.106	0.300	0.0	10.0	4638	86.173	85.105	0.283	0.0	9.8
4596	86.189	85.106	0.299	0.0	10.0	4640	86.173	85.105	0.283	0.0	9.8

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Flows and Levels for Pipe 8.016 US/MH S2.53 FC (SW 02)
1440 minute 100 year Winter
Average Rainfall Intensity 3.462 mm/hr (2 of 4)

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)
4642	86.172	85.105	0.282	0.0	9.8	4686	86.155	85.104	0.265	0.0	9.7
4644	86.171	85.105	0.281	0.0	9.8	4688	86.154	85.104	0.264	0.0	9.7
4646	86.170	85.105	0.280	0.0	9.8	4690	86.154	85.104	0.264	0.0	9.7
4648	86.170	85.105	0.280	0.0	9.8	4692	86.153	85.104	0.263	0.0	9.7
4650	86.169	85.105	0.279	0.0	9.8	4694	86.152	85.104	0.262	0.0	9.7
4652	86.168	85.105	0.278	0.0	9.8	4696	86.151	85.104	0.261	0.0	9.6
4654	86.167	85.105	0.277	0.0	9.8	4698	86.150	85.104	0.260	0.0	9.6
4656	86.167	85.105	0.277	0.0	9.8	4700	86.150	85.104	0.260	0.0	9.6
4658	86.166	85.105	0.276	0.0	9.8	4702	86.149	85.104	0.259	0.0	9.6
4660	86.165	85.105	0.275	0.0	9.8	4704	86.148	85.104	0.258	0.0	9.6
4662	86.164	85.105	0.274	0.0	9.8	4706	86.147	85.104	0.257	0.0	9.6
4664	86.163	85.105	0.273	0.0	9.8	4708	86.147	85.104	0.257	0.0	9.6
4666	86.163	85.104	0.273	0.0	9.8	4710	86.146	85.104	0.256	0.0	9.6
4668	86.162	85.104	0.272	0.0	9.7	4712	86.145	85.104	0.255	0.0	9.6
4670	86.161	85.104	0.271	0.0	9.7	4714	86.144	85.104	0.254	0.0	9.6
4672	86.160	85.104	0.270	0.0	9.7	4716	86.143	85.104	0.253	0.0	9.6
4674	86.160	85.104	0.270	0.0	9.7	4718	86.143	85.104	0.253	0.0	9.6
4676	86.159	85.104	0.269	0.0	9.7	4720	86.142	85.104	0.252	0.0	9.6
4678	86.158	85.104	0.268	0.0	9.7	4722	86.141	85.104	0.251	0.0	9.6
4680	86.157	85.104	0.267	0.0	9.7	4724	86.140	85.104	0.250	0.0	9.5
4682	86.157	85.104	0.267	0.0	9.7	4726	86.140	85.104	0.250	0.0	9.5
4684	86.156	85.104	0.266	0.0	9.7	4728	86.139	85.103	0.249	0.0	9.5

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Flows and Levels for Pipe 8.016 US/MH S2.53 FC (SW 02)
1440 minute 100 year Winter
Average Rainfall Intensity 3.462 mm/hr (2 of 4)

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)
4730	86.138	85.103	0.248	0.0	9.5	4774	86.121	85.103	0.231	0.0	9.4
4732	86.137	85.103	0.247	0.0	9.5	4776	86.120	85.103	0.230	0.0	9.4
4734	86.136	85.103	0.246	0.0	9.5	4778	86.119	85.103	0.229	0.0	9.3
4736	86.136	85.103	0.246	0.0	9.5	4780	86.118	85.103	0.228	0.0	9.3
4738	86.135	85.103	0.245	0.0	9.5	4782	86.117	85.103	0.227	0.0	9.3
4740	86.134	85.103	0.244	0.0	9.5	4784	86.117	85.103	0.227	0.0	9.3
4742	86.133	85.103	0.243	0.0	9.5	4786	86.116	85.102	0.226	0.0	9.3
4744	86.132	85.103	0.242	0.0	9.5	4788	86.115	85.102	0.225	0.0	9.3
4746	86.132	85.103	0.242	0.0	9.5	4790	86.114	85.102	0.224	0.0	9.3
4748	86.131	85.103	0.241	0.0	9.5	4792	86.113	85.102	0.223	0.0	9.3
4750	86.130	85.103	0.240	0.0	9.4	4794	86.113	85.102	0.223	0.0	9.3
4752	86.129	85.103	0.239	0.0	9.4	4796	86.112	85.102	0.222	0.0	9.3
4754	86.129	85.103	0.239	0.0	9.4	4798	86.111	85.102	0.221	0.0	9.3
4756	86.128	85.103	0.238	0.0	9.4	4800	86.110	85.102	0.220	0.0	9.3
4758	86.127	85.103	0.237	0.0	9.4	4802	86.109	85.102	0.219	0.0	9.3
4760	86.126	85.103	0.236	0.0	9.4	4804	86.109	85.102	0.219	0.0	9.2
4762	86.125	85.103	0.235	0.0	9.4	4806	86.108	85.102	0.218	0.0	9.2
4764	86.125	85.103	0.235	0.0	9.4	4808	86.107	85.102	0.217	0.0	9.2
4766	86.124	85.103	0.234	0.0	9.4	4810	86.106	85.102	0.216	0.0	9.2
4768	86.123	85.103	0.233	0.0	9.4	4812	86.105	85.102	0.215	0.0	9.2
4770	86.122	85.103	0.232	0.0	9.4	4814	86.104	85.102	0.214	0.0	9.2
4772	86.121	85.103	0.231	0.0	9.4	4816	86.104	85.102	0.214	0.0	9.2

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Flows and Levels for Pipe 8.016 US/MH S2.53 FC (SW 02)
1440 minute 100 year Winter
Average Rainfall Intensity 3.462 mm/hr (2 of 4)

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)
4818	86.103	85.102	0.213	0.0	9.2	4862	86.085	85.101	0.195	0.0	9.0
4820	86.102	85.102	0.212	0.0	9.2	4864	86.084	85.101	0.194	0.0	9.0
4822	86.101	85.102	0.211	0.0	9.2	4866	86.083	85.101	0.193	0.0	9.0
4824	86.100	85.102	0.210	0.0	9.2	4868	86.082	85.101	0.192	0.0	9.0
4826	86.100	85.102	0.210	0.0	9.2	4870	86.081	85.101	0.191	0.0	9.0
4828	86.099	85.102	0.209	0.0	9.1	4872	86.081	85.101	0.191	0.0	9.0
4830	86.098	85.102	0.208	0.0	9.1	4874	86.080	85.101	0.190	0.0	9.0
4832	86.097	85.102	0.207	0.0	9.1	4876	86.079	85.101	0.189	0.0	9.0
4834	86.096	85.102	0.206	0.0	9.1	4878	86.078	85.101	0.188	0.0	8.9
4836	86.095	85.102	0.205	0.0	9.1	4880	86.077	85.101	0.187	0.0	8.9
4838	86.095	85.102	0.205	0.0	9.1	4882	86.076	85.101	0.186	0.0	8.9
4840	86.094	85.102	0.204	0.0	9.1	4884	86.076	85.101	0.186	0.0	8.9
4842	86.093	85.102	0.203	0.0	9.1	4886	86.075	85.101	0.185	0.0	8.9
4844	86.092	85.101	0.202	0.0	9.1	4888	86.074	85.101	0.184	0.0	8.9
4846	86.091	85.101	0.201	0.0	9.1	4890	86.073	85.101	0.183	0.0	8.9
4848	86.091	85.101	0.201	0.0	9.1	4892	86.072	85.101	0.182	0.0	8.9
4850	86.090	85.101	0.200	0.0	9.1	4894	86.071	85.101	0.181	0.0	8.9
4852	86.089	85.101	0.199	0.0	9.1	4896	86.071	85.100	0.181	0.0	8.9
4854	86.088	85.101	0.198	0.0	9.0	4898	86.070	85.100	0.180	0.0	8.9
4856	86.087	85.101	0.197	0.0	9.0	4900	86.069	85.100	0.179	0.0	8.9
4858	86.086	85.101	0.196	0.0	9.0	4902	86.068	85.100	0.178	0.0	8.8
4860	86.086	85.101	0.196	0.0	9.0	4904	86.067	85.100	0.177	0.0	8.8

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1440 minute 100 year Winter
Average Rainfall Intensity 3.462 mm/hr (2 of 4)

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)
4906	86.066	85.100	0.176	0.0	8.8	4950	86.048	85.099	0.158	0.0	8.6
4908	86.066	85.100	0.176	0.0	8.8	4952	86.047	85.099	0.157	0.0	8.6
4910	86.065	85.100	0.175	0.0	8.8	4954	86.046	85.099	0.156	0.0	8.6
4912	86.064	85.100	0.174	0.0	8.8	4956	86.045	85.099	0.155	0.0	8.6
4914	86.063	85.100	0.173	0.0	8.8	4958	86.044	85.099	0.154	0.0	8.6
4916	86.062	85.100	0.172	0.0	8.8	4960	86.043	85.099	0.153	0.0	8.6
4918	86.061	85.100	0.171	0.0	8.8	4962	86.043	85.099	0.153	0.0	8.6
4920	86.060	85.100	0.170	0.0	8.8	4964	86.042	85.099	0.152	0.0	8.6
4922	86.060	85.100	0.170	0.0	8.8	4966	86.041	85.099	0.151	0.0	8.6
4924	86.059	85.100	0.169	0.0	8.8	4968	86.040	85.099	0.150	0.0	8.6
4926	86.058	85.100	0.168	0.0	8.7	4970	86.039	85.099	0.149	0.0	8.5
4928	86.057	85.100	0.167	0.0	8.7	4972	86.038	85.099	0.148	0.0	8.5
4930	86.056	85.100	0.166	0.0	8.7	4974	86.037	85.099	0.147	0.0	8.5
4932	86.055	85.100	0.165	0.0	8.7	4976	86.037	85.099	0.147	0.0	8.5
4934	86.055	85.100	0.165	0.0	8.7	4978	86.036	85.099	0.146	0.0	8.5
4936	86.054	85.100	0.164	0.0	8.7	4980	86.035	85.099	0.145	0.0	8.5
4938	86.053	85.100	0.163	0.0	8.7	4982	86.034	85.099	0.144	0.0	8.5
4940	86.052	85.100	0.162	0.0	8.7	4984	86.033	85.099	0.143	0.0	8.5
4942	86.051	85.100	0.161	0.0	8.7	4986	86.032	85.099	0.142	0.0	8.5
4944	86.050	85.100	0.160	0.0	8.7	4988	86.031	85.099	0.141	0.0	8.5
4946	86.049	85.100	0.159	0.0	8.7	4990	86.031	85.099	0.141	0.0	8.5
4948	86.049	85.099	0.159	0.0	8.6	4992	86.030	85.099	0.140	0.0	8.4

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Innovyze	Network 2018.1.1	


Flows and Levels for Pipe 8.016 US/MH S2.53 FC (SW 02)
1440 minute 100 year Winter
Average Rainfall Intensity 3.462 mm/hr (2 of 4)

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)
4994	86.029	85.099	0.139	0.0	8.4	5038	86.010	85.098	0.120	0.0	8.2
4996	86.028	85.099	0.138	0.0	8.4	5040	86.009	85.098	0.119	0.0	8.2
4998	86.027	85.098	0.137	0.0	8.4	5042	86.008	85.098	0.118	0.0	8.2
5000	86.026	85.098	0.136	0.0	8.4	5044	86.007	85.098	0.117	0.0	8.2
5002	86.025	85.098	0.135	0.0	8.4	5046	86.006	85.097	0.116	0.0	8.2
5004	86.025	85.098	0.135	0.0	8.4	5048	86.005	85.097	0.115	0.0	8.2
5006	86.024	85.098	0.134	0.0	8.4	5050	86.005	85.097	0.115	0.0	8.2
5008	86.023	85.098	0.133	0.0	8.4	5052	86.004	85.097	0.114	0.0	8.2
5010	86.022	85.098	0.132	0.0	8.4	5054	86.003	85.097	0.113	0.0	8.2
5012	86.021	85.098	0.131	0.0	8.4	5056	86.002	85.097	0.112	0.0	8.2
5014	86.020	85.098	0.130	0.0	8.3	5058	86.001	85.097	0.111	0.0	8.1
5016	86.019	85.098	0.129	0.0	8.3	5060	86.000	85.097	0.110	0.0	8.1
5018	86.019	85.098	0.129	0.0	8.3	5062	85.999	85.097	0.109	0.0	8.1
5020	86.018	85.098	0.128	0.0	8.3	5064	85.998	85.097	0.108	0.0	8.1
5022	86.017	85.098	0.127	0.0	8.3	5066	85.998	85.097	0.108	0.0	8.1
5024	86.016	85.098	0.126	0.0	8.3	5068	85.997	85.097	0.107	0.0	8.1
5026	86.015	85.098	0.125	0.0	8.3	5070	85.996	85.097	0.106	0.0	8.1
5028	86.014	85.098	0.124	0.0	8.3	5072	85.995	85.097	0.105	0.0	8.1
5030	86.013	85.098	0.123	0.0	8.3	5074	85.994	85.097	0.104	0.0	8.1
5032	86.012	85.098	0.122	0.0	8.3	5076	85.993	85.097	0.103	0.0	8.1
5034	86.012	85.098	0.122	0.0	8.3	5078	85.992	85.097	0.102	0.0	8.0
5036	86.011	85.098	0.121	0.0	8.2	5080	85.991	85.097	0.101	0.0	8.0

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Flows and Levels for Pipe 8.016 US/MH S2.53 FC (SW 02)
1440 minute 100 year Winter
Average Rainfall Intensity 3.462 mm/hr (2 of 4)

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)
5082	85.991	85.097	0.101	0.0	8.0	5126	85.971	85.096	0.081	0.0	7.8
5084	85.990	85.097	0.100	0.0	8.0	5128	85.970	85.096	0.080	0.0	7.8
5086	85.989	85.097	0.099	0.0	8.0	5130	85.969	85.096	0.079	0.0	7.8
5088	85.988	85.097	0.098	0.0	8.0	5132	85.968	85.096	0.078	0.0	7.8
5090	85.987	85.097	0.097	0.0	8.0	5134	85.967	85.096	0.077	0.0	7.8
5092	85.986	85.096	0.096	0.0	8.0	5136	85.967	85.095	0.077	0.0	7.8
5094	85.985	85.096	0.095	0.0	8.0	5138	85.966	85.095	0.076	0.0	7.7
5096	85.984	85.096	0.094	0.0	8.0	5140	85.965	85.095	0.075	0.0	7.7
5098	85.983	85.096	0.093	0.0	7.9	5142	85.964	85.095	0.074	0.0	7.7
5100	85.983	85.096	0.093	0.0	7.9	5144	85.963	85.095	0.073	0.0	7.7
5102	85.982	85.096	0.092	0.0	7.9	5146	85.962	85.095	0.072	0.0	7.7
5104	85.981	85.096	0.091	0.0	7.9	5148	85.961	85.095	0.071	0.0	7.7
5106	85.980	85.096	0.090	0.0	7.9	5150	85.960	85.095	0.070	0.0	7.7
5108	85.979	85.096	0.089	0.0	7.9	5152	85.959	85.095	0.069	0.0	7.7
5110	85.978	85.096	0.088	0.0	7.9	5154	85.959	85.095	0.069	0.0	7.7
5112	85.977	85.096	0.087	0.0	7.9	5156	85.958	85.095	0.068	0.0	7.6
5114	85.976	85.096	0.086	0.0	7.9	5158	85.957	85.095	0.067	0.0	7.6
5116	85.975	85.096	0.085	0.0	7.9	5160	85.956	85.095	0.066	0.0	7.6
5118	85.975	85.096	0.085	0.0	7.8	5162	85.955	85.095	0.065	0.0	7.6
5120	85.974	85.096	0.084	0.0	7.8	5164	85.954	85.095	0.064	0.0	7.6
5122	85.973	85.096	0.083	0.0	7.8	5166	85.953	85.095	0.063	0.0	7.6
5124	85.972	85.096	0.082	0.0	7.8	5168	85.952	85.095	0.062	0.0	7.6

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Flows and Levels for Pipe 8.016 US/MH S2.53 FC (SW 02)
1440 minute 100 year Winter
Average Rainfall Intensity 3.462 mm/hr (2 of 4)

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)
5170	85.951	85.095	0.061	0.0	7.6	5214	85.931	85.094	0.041	0.0	7.3
5172	85.950	85.095	0.060	0.0	7.6	5216	85.930	85.094	0.040	0.0	7.3
5174	85.950	85.095	0.060	0.0	7.6	5218	85.930	85.093	0.040	0.0	7.3
5176	85.949	85.095	0.059	0.0	7.5	5220	85.929	85.093	0.039	0.0	7.3
5178	85.948	85.094	0.058	0.0	7.5	5222	85.928	85.093	0.038	0.0	7.3
5180	85.947	85.094	0.057	0.0	7.5	5224	85.927	85.093	0.037	0.0	7.3
5182	85.946	85.094	0.056	0.0	7.5	5226	85.926	85.093	0.036	0.0	7.3
5184	85.945	85.094	0.055	0.0	7.5	5228	85.925	85.093	0.035	0.0	7.3
5186	85.944	85.094	0.054	0.0	7.5	5230	85.924	85.093	0.034	0.0	7.2
5188	85.943	85.094	0.053	0.0	7.5	5232	85.923	85.093	0.033	0.0	7.2
5190	85.942	85.094	0.052	0.0	7.5	5234	85.922	85.093	0.032	0.0	7.2
5192	85.941	85.094	0.051	0.0	7.5	5236	85.921	85.093	0.031	0.0	7.2
5194	85.940	85.094	0.050	0.0	7.4	5238	85.920	85.093	0.030	0.0	7.2
5196	85.940	85.094	0.050	0.0	7.4	5240	85.920	85.093	0.030	0.0	7.2
5198	85.939	85.094	0.049	0.0	7.4	5242	85.919	85.093	0.029	0.0	7.2
5200	85.938	85.094	0.048	0.0	7.4	5244	85.918	85.093	0.028	0.0	7.2
5202	85.937	85.094	0.047	0.0	7.4	5246	85.917	85.093	0.027	0.0	7.2
5204	85.936	85.094	0.046	0.0	7.4	5248	85.916	85.093	0.026	0.0	7.1
5206	85.935	85.094	0.045	0.0	7.4	5250	85.915	85.093	0.025	0.0	7.1
5208	85.934	85.094	0.044	0.0	7.4	5252	85.914	85.093	0.024	0.0	7.1
5210	85.933	85.094	0.043	0.0	7.4	5254	85.913	85.093	0.023	0.0	7.1
5212	85.932	85.094	0.042	0.0	7.3	5256	85.912	85.093	0.022	0.0	7.1

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Flows and Levels for Pipe 8.016 US/MH S2.53 FC (SW 02)
1440 minute 100 year Winter
Average Rainfall Intensity 3.462 mm/hr (2 of 4)

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)
5258	85.911	85.092	0.021	0.0	7.1	5302	85.891	85.091	0.001	0.0	6.8
5260	85.910	85.092	0.020	0.0	7.1	5304	85.890	85.091	0.000	0.0	6.8
5262	85.910	85.092	0.020	0.0	7.1	5306	85.889	85.091	-0.001	0.0	6.8
5264	85.909	85.092	0.019	0.0	7.1	5308	85.888	85.091	-0.002	0.0	6.8
5266	85.908	85.092	0.018	0.0	7.0	5310	85.887	85.091	-0.003	0.0	6.8
5268	85.907	85.092	0.017	0.0	7.0	5312	85.886	85.091	-0.004	0.0	6.8
5270	85.906	85.092	0.016	0.0	7.0	5314	85.886	85.091	-0.004	0.0	6.8
5272	85.905	85.092	0.015	0.0	7.0	5316	85.885	85.091	-0.005	0.0	6.7
5274	85.904	85.092	0.014	0.0	7.0	5318	85.884	85.091	-0.006	0.0	6.7
5276	85.903	85.092	0.013	0.0	7.0	5320	85.883	85.091	-0.007	0.0	6.7
5278	85.902	85.092	0.012	0.0	7.0	5322	85.882	85.091	-0.008	0.0	6.7
5280	85.901	85.092	0.011	0.0	7.0	5324	85.881	85.091	-0.009	0.0	6.7
5282	85.900	85.092	0.010	0.0	6.9	5326	85.880	85.091	-0.010	0.0	6.7
5284	85.899	85.092	0.009	0.0	6.9	5328	85.879	85.091	-0.011	0.0	6.7
5286	85.898	85.092	0.008	0.0	6.9	5330	85.878	85.091	-0.012	0.0	6.7
5288	85.898	85.092	0.008	0.0	6.9	5332	85.877	85.090	-0.013	0.0	6.6
5290	85.897	85.092	0.007	0.0	6.9	5334	85.876	85.090	-0.014	0.0	6.6
5292	85.896	85.092	0.006	0.0	6.9	5336	85.875	85.090	-0.015	0.0	6.6
5294	85.895	85.092	0.005	0.0	6.9	5338	85.874	85.090	-0.016	0.0	6.6
5296	85.894	85.091	0.004	0.0	6.9	5340	85.874	85.090	-0.016	0.0	6.6
5298	85.893	85.091	0.003	0.0	6.9	5342	85.873	85.090	-0.017	0.0	6.6
5300	85.892	85.091	0.002	0.0	6.8	5344	85.872	85.090	-0.018	0.0	6.6

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Flows and Levels for Pipe 8.016 US/MH S2.53 FC (SW 02)
1440 minute 100 year Winter
Average Rainfall Intensity 3.462 mm/hr (2 of 4)

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)
5346	85.871	85.090	-0.019	0.0	6.6	5390	85.850	85.089	-0.040	0.0	6.3
5348	85.870	85.090	-0.020	0.0	6.5	5392	85.849	85.089	-0.041	0.0	6.3
5350	85.869	85.090	-0.021	0.0	6.5	5394	85.848	85.089	-0.042	0.0	6.2
5352	85.868	85.090	-0.022	0.0	6.5	5396	85.848	85.089	-0.042	0.0	6.2
5354	85.867	85.090	-0.023	0.0	6.5	5398	85.847	85.089	-0.043	0.0	6.2
5356	85.866	85.090	-0.024	0.0	6.5	5400	85.846	85.089	-0.044	0.0	6.2
5358	85.865	85.090	-0.025	0.0	6.5	5402	85.845	85.088	-0.045	0.0	6.2
5360	85.864	85.090	-0.026	0.0	6.5	5404	85.844	85.088	-0.046	0.0	6.2
5362	85.863	85.090	-0.027	0.0	6.5	5406	85.843	85.088	-0.047	0.0	6.2
5364	85.862	85.090	-0.028	0.0	6.4	5408	85.842	85.088	-0.048	0.0	6.2
5366	85.861	85.090	-0.029	0.0	6.4	5410	85.841	85.088	-0.049	0.0	6.1
5368	85.861	85.089	-0.029	0.0	6.4	5412	85.840	85.088	-0.050	0.0	6.1
5370	85.860	85.089	-0.030	0.0	6.4	5414	85.839	85.088	-0.051	0.0	6.1
5372	85.859	85.089	-0.031	0.0	6.4	5416	85.838	85.088	-0.052	0.0	6.1
5374	85.858	85.089	-0.032	0.0	6.4	5418	85.837	85.088	-0.053	0.0	6.1
5376	85.857	85.089	-0.033	0.0	6.4	5420	85.836	85.088	-0.054	0.0	6.1
5378	85.856	85.089	-0.034	0.0	6.4	5422	85.835	85.088	-0.055	0.0	6.1
5380	85.855	85.089	-0.035	0.0	6.3	5424	85.834	85.088	-0.056	0.0	6.0
5382	85.854	85.089	-0.036	0.0	6.3	5426	85.834	85.088	-0.056	0.0	6.0
5384	85.853	85.089	-0.037	0.0	6.3	5428	85.833	85.088	-0.057	0.0	6.0
5386	85.852	85.089	-0.038	0.0	6.3	5430	85.832	85.088	-0.058	0.0	6.0
5388	85.851	85.089	-0.039	0.0	6.3	5432	85.831	85.088	-0.059	0.0	6.0

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Flows and Levels for Pipe 8.016 US/MH S2.53 FC (SW 02)
1440 minute 100 year Winter
Average Rainfall Intensity 3.462 mm/hr (2 of 4)

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)
5434	85.830	85.087	-0.060	0.0	6.0	5478	85.809	85.086	-0.081	0.0	5.7
5436	85.829	85.087	-0.061	0.0	6.0	5480	85.808	85.086	-0.082	0.0	5.6
5438	85.828	85.087	-0.062	0.0	5.9	5482	85.807	85.086	-0.083	0.0	5.6
5440	85.827	85.087	-0.063	0.0	5.9	5484	85.806	85.086	-0.084	0.0	5.6
5442	85.826	85.087	-0.064	0.0	5.9	5486	85.805	85.086	-0.085	0.0	5.6
5444	85.825	85.087	-0.065	0.0	5.9	5488	85.804	85.086	-0.086	0.0	5.6
5446	85.824	85.087	-0.066	0.0	5.9	5490	85.803	85.086	-0.087	0.0	5.6
5448	85.823	85.087	-0.067	0.0	5.9	5492	85.802	85.086	-0.088	0.0	5.5
5450	85.822	85.087	-0.068	0.0	5.9	5494	85.801	85.085	-0.089	0.0	5.5
5452	85.821	85.087	-0.069	0.0	5.8	5496	85.800	85.085	-0.090	0.0	5.5
5454	85.820	85.087	-0.070	0.0	5.8	5498	85.799	85.085	-0.091	0.0	5.5
5456	85.819	85.087	-0.071	0.0	5.8	5500	85.798	85.085	-0.092	0.0	5.5
5458	85.818	85.087	-0.072	0.0	5.8	5502	85.797	85.085	-0.093	0.0	5.5
5460	85.817	85.087	-0.073	0.0	5.8	5504	85.796	85.085	-0.094	0.0	5.4
5462	85.816	85.087	-0.074	0.0	5.8	5506	85.795	85.085	-0.095	0.0	5.4
5464	85.816	85.086	-0.074	0.0	5.8	5508	85.794	85.085	-0.096	0.0	5.4
5466	85.815	85.086	-0.075	0.0	5.7	5510	85.793	85.085	-0.097	0.0	5.4
5468	85.814	85.086	-0.076	0.0	5.7	5512	85.792	85.085	-0.098	0.0	5.4
5470	85.813	85.086	-0.077	0.0	5.7	5514	85.791	85.085	-0.099	0.0	5.4
5472	85.812	85.086	-0.078	0.0	5.7	5516	85.790	85.084	-0.100	0.0	5.3
5474	85.811	85.086	-0.079	0.0	5.7	5518	85.789	85.084	-0.101	0.0	5.3
5476	85.810	85.086	-0.080	0.0	5.7	5520	85.788	85.084	-0.102	0.0	5.3

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Innovyze	Network 2018.1.1	


Flows and Levels for Pipe 8.016 US/MH S2.53 FC (SW 02)
1440 minute 100 year Winter
Average Rainfall Intensity 3.462 mm/hr (2 of 4)

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)
5522	85.787	85.084	-0.103	0.0	5.3	5566	85.765	85.081	-0.125	0.0	4.9
5524	85.786	85.084	-0.104	0.0	5.3	5568	85.764	85.081	-0.126	0.0	4.9
5526	85.785	85.084	-0.105	0.0	5.3	5570	85.763	85.081	-0.127	0.0	4.9
5528	85.784	85.084	-0.106	0.0	5.2	5572	85.762	85.081	-0.128	0.0	4.9
5530	85.783	85.084	-0.107	0.0	5.2	5574	85.761	85.081	-0.129	0.0	4.8
5532	85.782	85.083	-0.108	0.0	5.2	5576	85.760	85.081	-0.130	0.0	4.8
5534	85.781	85.083	-0.109	0.0	5.2	5578	85.759	85.080	-0.131	0.0	4.8
5536	85.780	85.083	-0.110	0.0	5.2	5580	85.757	85.080	-0.133	0.0	4.8
5538	85.779	85.083	-0.111	0.0	5.2	5582	85.756	85.080	-0.134	0.0	4.8
5540	85.778	85.083	-0.112	0.0	5.1	5584	85.755	85.080	-0.135	0.0	4.7
5542	85.777	85.083	-0.113	0.0	5.1	5586	85.754	85.080	-0.136	0.0	4.7
5544	85.776	85.083	-0.114	0.0	5.1	5588	85.753	85.080	-0.137	0.0	4.7
5546	85.775	85.083	-0.115	0.0	5.1	5590	85.752	85.080	-0.138	0.0	4.7
5548	85.774	85.082	-0.116	0.0	5.1	5592	85.751	85.079	-0.139	0.0	4.7
5550	85.773	85.082	-0.117	0.0	5.1	5594	85.750	85.079	-0.140	0.0	4.6
5552	85.772	85.082	-0.118	0.0	5.0	5596	85.749	85.079	-0.141	0.0	4.6
5554	85.771	85.082	-0.119	0.0	5.0	5598	85.748	85.079	-0.142	0.0	4.6
5556	85.770	85.082	-0.120	0.0	5.0	5600	85.747	85.079	-0.143	0.0	4.6
5558	85.769	85.082	-0.121	0.0	5.0	5602	85.746	85.079	-0.144	0.0	4.6
5560	85.768	85.082	-0.122	0.0	5.0	5604	85.745	85.079	-0.145	0.0	4.5
5562	85.767	85.081	-0.123	0.0	4.9	5606	85.744	85.078	-0.146	0.0	4.5
5564	85.766	85.081	-0.124	0.0	4.9	5608	85.743	85.078	-0.147	0.0	4.5

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Innovyze	Network 2018.1.1	


Flows and Levels for Pipe 8.016 US/MH S2.53 FC (SW 02)
1440 minute 100 year Winter
Average Rainfall Intensity 3.462 mm/hr (2 of 4)

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)
5610	85.742	85.078	-0.148	0.0	4.5	5654	85.719	85.075	-0.171	0.0	4.0
5612	85.741	85.078	-0.149	0.0	4.5	5656	85.718	85.074	-0.172	0.0	4.0
5614	85.740	85.078	-0.150	0.0	4.4	5658	85.717	85.074	-0.173	0.0	3.9
5616	85.739	85.078	-0.151	0.0	4.4	5660	85.716	85.074	-0.174	0.0	3.9
5618	85.738	85.077	-0.152	0.0	4.4	5662	85.715	85.074	-0.175	0.0	3.9
5620	85.737	85.077	-0.153	0.0	4.4	5664	85.714	85.074	-0.176	0.0	3.9
5622	85.736	85.077	-0.154	0.0	4.4	5666	85.713	85.074	-0.177	0.0	3.9
5624	85.735	85.077	-0.155	0.0	4.3	5668	85.712	85.073	-0.178	0.0	3.8
5626	85.734	85.077	-0.156	0.0	4.3	5670	85.711	85.073	-0.179	0.0	3.8
5628	85.733	85.077	-0.157	0.0	4.3	5672	85.710	85.073	-0.180	0.0	3.8
5630	85.732	85.077	-0.158	0.0	4.3	5674	85.709	85.073	-0.181	0.0	3.8
5632	85.730	85.076	-0.160	0.0	4.2	5676	85.708	85.073	-0.182	0.0	3.7
5634	85.729	85.076	-0.161	0.0	4.2	5678	85.707	85.072	-0.183	0.0	3.7
5636	85.728	85.076	-0.162	0.0	4.2	5680	85.706	85.072	-0.184	0.0	3.7
5638	85.727	85.076	-0.163	0.0	4.2	5682	85.705	85.072	-0.185	0.0	3.7
5640	85.726	85.076	-0.164	0.0	4.2	5684	85.703	85.072	-0.187	0.0	3.6
5642	85.725	85.076	-0.165	0.0	4.1	5686	85.702	85.071	-0.188	0.0	3.6
5644	85.724	85.075	-0.166	0.0	4.1	5688	85.701	85.071	-0.189	0.0	3.5
5646	85.723	85.075	-0.167	0.0	4.1	5690	85.700	85.071	-0.190	0.0	3.5
5648	85.722	85.075	-0.168	0.0	4.1	5692	85.699	85.070	-0.191	0.0	3.4
5650	85.721	85.075	-0.169	0.0	4.0	5694	85.699	85.070	-0.191	0.0	3.4
5652	85.720	85.075	-0.170	0.0	4.0	5696	85.698	85.070	-0.192	0.0	3.4

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Innovyze	Network 2018.1.1	


Flows and Levels for Pipe 8.016 US/MH S2.53 FC (SW 02)
1440 minute 100 year Winter
Average Rainfall Intensity 3.462 mm/hr (2 of 4)

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)
5698	85.697	85.070	-0.193	0.0	3.3	5730	85.682	85.065	-0.208	0.0	2.7
5700	85.695	85.069	-0.195	0.0	3.3	5732	85.681	85.065	-0.209	0.0	2.6
5702	85.694	85.069	-0.196	0.0	3.2	5734	85.680	85.065	-0.210	0.0	2.6
5704	85.694	85.069	-0.196	0.0	3.2	5736	85.680	85.064	-0.210	0.0	2.6
5706	85.693	85.069	-0.197	0.0	3.2	5738	85.679	85.064	-0.211	0.0	2.5
5708	85.692	85.068	-0.198	0.0	3.1	5740	85.678	85.064	-0.212	0.0	2.5
5710	85.691	85.068	-0.199	0.0	3.1	5742	85.677	85.063	-0.213	0.0	2.5
5712	85.690	85.068	-0.200	0.0	3.0	5744	85.676	85.063	-0.214	0.0	2.4
5714	85.689	85.067	-0.201	0.0	3.0	5746	85.675	85.063	-0.215	0.0	2.4
5716	85.688	85.067	-0.202	0.0	3.0	5748	85.675	85.063	-0.215	0.0	2.4
5718	85.687	85.067	-0.203	0.0	2.9	5750	85.674	85.062	-0.216	0.0	2.3
5720	85.686	85.066	-0.204	0.0	2.9	5752	85.673	85.062	-0.217	0.0	2.3
5722	85.686	85.066	-0.204	0.0	2.8	5754	85.672	85.062	-0.218	0.0	2.3
5724	85.685	85.066	-0.205	0.0	2.8	5756	85.672	85.062	-0.218	0.0	2.2
5726	85.684	85.066	-0.206	0.0	2.8	5758	85.671	85.062	-0.219	0.0	2.2
5728	85.683	85.065	-0.207	0.0	2.7	5760	85.670	85.061	-0.220	0.0	2.2

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Innovyze	Network 2018.1.1	


Flows and Levels for Pipe 8.016 US/MH S2.53 FC (SW 02)
1440 minute 100 year Winter
Average Rainfall Intensity 3.462 mm/hr (3 of 4)

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)
5762	85.669	85.061	-0.221	0.0	2.1	5806	85.655	85.057	-0.235	0.0	1.5
5764	85.669	85.061	-0.221	0.0	2.1	5808	85.655	85.057	-0.235	0.0	1.5
5766	85.668	85.061	-0.222	0.0	2.1	5810	85.654	85.056	-0.236	0.0	1.5
5768	85.667	85.060	-0.223	0.0	2.0	5812	85.653	85.056	-0.237	0.0	1.5
5770	85.667	85.060	-0.223	0.0	2.0	5814	85.653	85.056	-0.237	0.0	1.4
5772	85.666	85.060	-0.224	0.0	2.0	5816	85.652	85.056	-0.238	0.0	1.4
5774	85.665	85.060	-0.225	0.0	1.9	5818	85.652	85.056	-0.238	0.0	1.4
5776	85.664	85.060	-0.226	0.0	1.9	5820	85.651	85.056	-0.239	0.0	1.4
5778	85.664	85.059	-0.226	0.0	1.9	5822	85.651	85.056	-0.239	0.0	1.4
5780	85.663	85.059	-0.227	0.0	1.9	5824	85.650	85.055	-0.240	0.0	1.4
5782	85.662	85.059	-0.228	0.0	1.8	5826	85.650	85.055	-0.240	0.0	1.3
5784	85.662	85.059	-0.228	0.0	1.8	5828	85.649	85.055	-0.241	0.0	1.3
5786	85.661	85.059	-0.229	0.0	1.8	5830	85.649	85.055	-0.241	0.0	1.3
5788	85.661	85.058	-0.229	0.0	1.8	5832	85.648	85.055	-0.242	0.0	1.3
5790	85.660	85.058	-0.230	0.0	1.7	5834	85.648	85.055	-0.242	0.0	1.3
5792	85.659	85.058	-0.231	0.0	1.7	5836	85.647	85.054	-0.243	0.0	1.3
5794	85.659	85.058	-0.231	0.0	1.7	5838	85.647	85.054	-0.243	0.0	1.2
5796	85.658	85.058	-0.232	0.0	1.7	5840	85.646	85.054	-0.244	0.0	1.2
5798	85.657	85.057	-0.233	0.0	1.6	5842	85.646	85.053	-0.244	0.0	1.2
5800	85.657	85.057	-0.233	0.0	1.6	5844	85.645	85.053	-0.245	0.0	1.2
5802	85.656	85.057	-0.234	0.0	1.6	5846	85.645	85.053	-0.245	0.0	1.2
5804	85.656	85.057	-0.234	0.0	1.6	5848	85.644	85.052	-0.246	0.0	1.2

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Flows and Levels for Pipe 8.016 US/MH S2.53 FC (SW 02)
1440 minute 100 year Winter
Average Rainfall Intensity 3.462 mm/hr (3 of 4)

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)
5850	85.644	85.052	-0.246	0.0	1.2	5894	85.635	85.045	-0.255	0.0	0.9
5852	85.643	85.052	-0.247	0.0	1.1	5896	85.634	85.045	-0.256	0.0	0.8
5854	85.643	85.051	-0.247	0.0	1.1	5898	85.634	85.044	-0.256	0.0	0.8
5856	85.642	85.051	-0.248	0.0	1.1	5900	85.634	85.044	-0.256	0.0	0.8
5858	85.642	85.051	-0.248	0.0	1.1	5902	85.633	85.044	-0.257	0.0	0.8
5860	85.642	85.050	-0.248	0.0	1.1	5904	85.633	85.043	-0.257	0.0	0.8
5862	85.641	85.050	-0.249	0.0	1.1	5906	85.633	85.043	-0.257	0.0	0.8
5864	85.641	85.050	-0.249	0.0	1.1	5908	85.632	85.043	-0.258	0.0	0.8
5866	85.640	85.049	-0.250	0.0	1.1	5910	85.632	85.042	-0.258	0.0	0.7
5868	85.640	85.049	-0.250	0.0	1.0	5912	85.632	85.042	-0.258	0.0	0.7
5870	85.639	85.049	-0.251	0.0	1.0	5914	85.631	85.042	-0.259	0.0	0.7
5872	85.639	85.048	-0.251	0.0	1.0	5916	85.631	85.041	-0.259	0.0	0.7
5874	85.639	85.048	-0.251	0.0	1.0	5918	85.631	85.041	-0.259	0.0	0.7
5876	85.638	85.048	-0.252	0.0	1.0	5920	85.630	85.041	-0.260	0.0	0.7
5878	85.638	85.048	-0.252	0.0	1.0	5922	85.630	85.041	-0.260	0.0	0.7
5880	85.637	85.047	-0.253	0.0	1.0	5924	85.630	85.040	-0.260	0.0	0.7
5882	85.637	85.047	-0.253	0.0	0.9	5926	85.629	85.040	-0.261	0.0	0.6
5884	85.636	85.047	-0.254	0.0	0.9	5928	85.629	85.040	-0.261	0.0	0.6
5886	85.636	85.046	-0.254	0.0	0.9	5930	85.629	85.040	-0.261	0.0	0.6
5888	85.636	85.046	-0.254	0.0	0.9	5932	85.629	85.039	-0.261	0.0	0.6
5890	85.635	85.046	-0.255	0.0	0.9	5934	85.628	85.039	-0.262	0.0	0.6
5892	85.635	85.045	-0.255	0.0	0.9	5936	85.628	85.039	-0.262	0.0	0.6

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Flows and Levels for Pipe 8.016 US/MH S2.53 FC (SW 02)
1440 minute 100 year Winter
Average Rainfall Intensity 3.462 mm/hr (3 of 4)

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)
5938	85.628	85.039	-0.262	0.0	0.6	5982	85.623	85.035	-0.267	0.0	0.4
5940	85.628	85.038	-0.262	0.0	0.6	5984	85.623	85.035	-0.267	0.0	0.4
5942	85.627	85.038	-0.263	0.0	0.6	5986	85.622	85.035	-0.268	0.0	0.4
5944	85.627	85.038	-0.263	0.0	0.6	5988	85.622	85.035	-0.268	0.0	0.4
5946	85.627	85.038	-0.263	0.0	0.5	5990	85.622	85.035	-0.268	0.0	0.4
5948	85.627	85.037	-0.263	0.0	0.5	5992	85.622	85.035	-0.268	0.0	0.4
5950	85.626	85.037	-0.264	0.0	0.5	5994	85.622	85.035	-0.268	0.0	0.4
5952	85.626	85.037	-0.264	0.0	0.5	5996	85.621	85.035	-0.269	0.0	0.4
5954	85.626	85.037	-0.264	0.0	0.5	5998	85.621	85.034	-0.269	0.0	0.4
5956	85.626	85.037	-0.264	0.0	0.5	6000	85.621	85.034	-0.269	0.0	0.4
5958	85.625	85.037	-0.265	0.0	0.5	6002	85.621	85.034	-0.269	0.0	0.4
5960	85.625	85.037	-0.265	0.0	0.5	6004	85.621	85.034	-0.269	0.0	0.4
5962	85.625	85.037	-0.265	0.0	0.5	6006	85.620	85.034	-0.270	0.0	0.4
5964	85.625	85.036	-0.265	0.0	0.5	6008	85.620	85.034	-0.270	0.0	0.4
5966	85.624	85.036	-0.266	0.0	0.5	6010	85.620	85.034	-0.270	0.0	0.4
5968	85.624	85.036	-0.266	0.0	0.5	6012	85.620	85.034	-0.270	0.0	0.4
5970	85.624	85.036	-0.266	0.0	0.5	6014	85.620	85.034	-0.270	0.0	0.4
5972	85.624	85.036	-0.266	0.0	0.5	6016	85.620	85.034	-0.270	0.0	0.4
5974	85.624	85.036	-0.266	0.0	0.5	6018	85.619	85.033	-0.271	0.0	0.4
5976	85.623	85.036	-0.267	0.0	0.5	6020	85.619	85.033	-0.271	0.0	0.4
5978	85.623	85.036	-0.267	0.0	0.5	6022	85.619	85.033	-0.271	0.0	0.4
5980	85.623	85.035	-0.267	0.0	0.5	6024	85.619	85.033	-0.271	0.0	0.4

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Innovyze	Network 2018.1.1	


Flows and Levels for Pipe 8.016 US/MH S2.53 FC (SW 02)
1440 minute 100 year Winter
Average Rainfall Intensity 3.462 mm/hr (3 of 4)

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)
6026	85.619	85.033	-0.271	0.0	0.4	6070	85.615	85.032	-0.275	0.0	0.3
6028	85.619	85.033	-0.271	0.0	0.3	6072	85.615	85.032	-0.275	0.0	0.3
6030	85.618	85.033	-0.272	0.0	0.3	6074	85.615	85.032	-0.275	0.0	0.3
6032	85.618	85.033	-0.272	0.0	0.3	6076	85.615	85.032	-0.275	0.0	0.3
6034	85.618	85.033	-0.272	0.0	0.3	6078	85.615	85.032	-0.275	0.0	0.3
6036	85.618	85.033	-0.272	0.0	0.3	6080	85.615	85.032	-0.275	0.0	0.3
6038	85.618	85.033	-0.272	0.0	0.3	6082	85.615	85.031	-0.275	0.0	0.3
6040	85.618	85.033	-0.272	0.0	0.3	6084	85.615	85.031	-0.275	0.0	0.3
6042	85.617	85.032	-0.273	0.0	0.3	6086	85.614	85.031	-0.276	0.0	0.2
6044	85.617	85.032	-0.273	0.0	0.3	6088	85.614	85.031	-0.276	0.0	0.2
6046	85.617	85.032	-0.273	0.0	0.3	6090	85.614	85.031	-0.276	0.0	0.2
6048	85.617	85.032	-0.273	0.0	0.3	6092	85.614	85.031	-0.276	0.0	0.2
6050	85.617	85.032	-0.273	0.0	0.3	6094	85.614	85.031	-0.276	0.0	0.2
6052	85.617	85.032	-0.273	0.0	0.3	6096	85.614	85.031	-0.276	0.0	0.2
6054	85.617	85.032	-0.273	0.0	0.3	6098	85.614	85.031	-0.276	0.0	0.2
6056	85.616	85.032	-0.274	0.0	0.3	6100	85.614	85.031	-0.276	0.0	0.2
6058	85.616	85.032	-0.274	0.0	0.3	6102	85.613	85.031	-0.277	0.0	0.2
6060	85.616	85.032	-0.274	0.0	0.3	6104	85.613	85.031	-0.277	0.0	0.2
6062	85.616	85.032	-0.274	0.0	0.3	6106	85.613	85.031	-0.277	0.0	0.2
6064	85.616	85.032	-0.274	0.0	0.3	6108	85.613	85.031	-0.277	0.0	0.2
6066	85.616	85.032	-0.274	0.0	0.3	6110	85.613	85.031	-0.277	0.0	0.2
6068	85.616	85.032	-0.274	0.0	0.3	6112	85.613	85.031	-0.277	0.0	0.2

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Innovyze	Network 2018.1.1	


Flows and Levels for Pipe 8.016 US/MH S2.53 FC (SW 02)
1440 minute 100 year Winter
Average Rainfall Intensity 3.462 mm/hr (3 of 4)

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)
6114	85.613	85.031	-0.277	0.0	0.2	6158	85.611	85.031	-0.279	0.0	0.2
6116	85.613	85.031	-0.277	0.0	0.2	6160	85.611	85.031	-0.279	0.0	0.2
6118	85.613	85.031	-0.277	0.0	0.2	6162	85.610	85.031	-0.280	0.0	0.2
6120	85.612	85.031	-0.278	0.0	0.2	6164	85.610	85.031	-0.280	0.0	0.2
6122	85.612	85.031	-0.278	0.0	0.2	6166	85.610	85.031	-0.280	0.0	0.2
6124	85.612	85.031	-0.278	0.0	0.2	6168	85.610	85.031	-0.280	0.0	0.2
6126	85.612	85.031	-0.278	0.0	0.2	6170	85.610	85.031	-0.280	0.0	0.2
6128	85.612	85.031	-0.278	0.0	0.2	6172	85.610	85.031	-0.280	0.0	0.2
6130	85.612	85.031	-0.278	0.0	0.2	6174	85.610	85.031	-0.280	0.0	0.2
6132	85.612	85.031	-0.278	0.0	0.2	6176	85.610	85.031	-0.280	0.0	0.2
6134	85.612	85.031	-0.278	0.0	0.2	6178	85.610	85.031	-0.280	0.0	0.2
6136	85.612	85.031	-0.278	0.0	0.2	6180	85.610	85.031	-0.280	0.0	0.2
6138	85.612	85.031	-0.278	0.0	0.2	6182	85.610	85.031	-0.280	0.0	0.2
6140	85.611	85.031	-0.279	0.0	0.2	6184	85.609	85.031	-0.281	0.0	0.2
6142	85.611	85.031	-0.279	0.0	0.2	6186	85.609	85.031	-0.281	0.0	0.2
6144	85.611	85.031	-0.279	0.0	0.2	6188	85.609	85.031	-0.281	0.0	0.2
6146	85.611	85.031	-0.279	0.0	0.2	6190	85.609	85.031	-0.281	0.0	0.2
6148	85.611	85.031	-0.279	0.0	0.2	6192	85.609	85.031	-0.281	0.0	0.2
6150	85.611	85.031	-0.279	0.0	0.2	6194	85.609	85.031	-0.281	0.0	0.2
6152	85.611	85.031	-0.279	0.0	0.2	6196	85.609	85.031	-0.281	0.0	0.2
6154	85.611	85.031	-0.279	0.0	0.2	6198	85.609	85.031	-0.281	0.0	0.2
6156	85.611	85.031	-0.279	0.0	0.2	6200	85.609	85.031	-0.281	0.0	0.2

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Innovyze	Network 2018.1.1	


Flows and Levels for Pipe 8.016 US/MH S2.53 FC (SW 02)
1440 minute 100 year Winter
Average Rainfall Intensity 3.462 mm/hr (3 of 4)

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)
6202	85.609	85.031	-0.281	0.0	0.2	6246	85.607	85.031	-0.283	0.0	0.1
6204	85.609	85.031	-0.281	0.0	0.2	6248	85.607	85.030	-0.283	0.0	0.1
6206	85.609	85.031	-0.281	0.0	0.2	6250	85.607	85.030	-0.283	0.0	0.1
6208	85.609	85.031	-0.281	0.0	0.1	6252	85.607	85.030	-0.283	0.0	0.1
6210	85.608	85.031	-0.282	0.0	0.1	6254	85.607	85.030	-0.283	0.0	0.1
6212	85.608	85.031	-0.282	0.0	0.1	6256	85.607	85.030	-0.283	0.0	0.1
6214	85.608	85.031	-0.282	0.0	0.1	6258	85.607	85.030	-0.283	0.0	0.1
6216	85.608	85.031	-0.282	0.0	0.1	6260	85.607	85.030	-0.283	0.0	0.1
6218	85.608	85.031	-0.282	0.0	0.1	6262	85.607	85.030	-0.283	0.0	0.1
6220	85.608	85.031	-0.282	0.0	0.1	6264	85.607	85.030	-0.283	0.0	0.1
6222	85.608	85.031	-0.282	0.0	0.1	6266	85.607	85.030	-0.283	0.0	0.1
6224	85.608	85.031	-0.282	0.0	0.1	6268	85.606	85.030	-0.284	0.0	0.1
6226	85.608	85.031	-0.282	0.0	0.1	6270	85.606	85.030	-0.284	0.0	0.1
6228	85.608	85.031	-0.282	0.0	0.1	6272	85.606	85.030	-0.284	0.0	0.1
6230	85.608	85.031	-0.282	0.0	0.1	6274	85.606	85.030	-0.284	0.0	0.1
6232	85.608	85.031	-0.282	0.0	0.1	6276	85.606	85.030	-0.284	0.0	0.1
6234	85.608	85.031	-0.282	0.0	0.1	6278	85.606	85.030	-0.284	0.0	0.1
6236	85.608	85.031	-0.282	0.0	0.1	6280	85.606	85.030	-0.284	0.0	0.1
6238	85.607	85.031	-0.283	0.0	0.1	6282	85.606	85.030	-0.284	0.0	0.1
6240	85.607	85.031	-0.283	0.0	0.1	6284	85.606	85.030	-0.284	0.0	0.1
6242	85.607	85.031	-0.283	0.0	0.1	6286	85.606	85.030	-0.284	0.0	0.1
6244	85.607	85.031	-0.283	0.0	0.1	6288	85.606	85.030	-0.284	0.0	0.1

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Innovyze	Network 2018.1.1	


Flows and Levels for Pipe 8.016 US/MH S2.53 FC (SW 02)
1440 minute 100 year Winter
Average Rainfall Intensity 3.462 mm/hr (3 of 4)

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)
6290	85.606	85.030	-0.284	0.0	0.1	6334	85.605	85.030	-0.285	0.0	0.1
6292	85.606	85.030	-0.284	0.0	0.1	6336	85.605	85.030	-0.285	0.0	0.1
6294	85.606	85.030	-0.284	0.0	0.1	6338	85.605	85.030	-0.285	0.0	0.1
6296	85.606	85.030	-0.284	0.0	0.1	6340	85.605	85.030	-0.285	0.0	0.1
6298	85.606	85.030	-0.284	0.0	0.1	6342	85.604	85.030	-0.286	0.0	0.1
6300	85.606	85.030	-0.284	0.0	0.1	6344	85.604	85.030	-0.286	0.0	0.1
6302	85.606	85.030	-0.284	0.0	0.1	6346	85.604	85.030	-0.286	0.0	0.1
6304	85.605	85.030	-0.285	0.0	0.1	6348	85.604	85.030	-0.286	0.0	0.1
6306	85.605	85.030	-0.285	0.0	0.1	6350	85.604	85.030	-0.286	0.0	0.1
6308	85.605	85.030	-0.285	0.0	0.1	6352	85.604	85.030	-0.286	0.0	0.1
6310	85.605	85.030	-0.285	0.0	0.1	6354	85.604	85.030	-0.286	0.0	0.1
6312	85.605	85.030	-0.285	0.0	0.1	6356	85.604	85.030	-0.286	0.0	0.1
6314	85.605	85.030	-0.285	0.0	0.1	6358	85.604	85.030	-0.286	0.0	0.1
6316	85.605	85.030	-0.285	0.0	0.1	6360	85.604	85.030	-0.286	0.0	0.1
6318	85.605	85.030	-0.285	0.0	0.1	6362	85.604	85.030	-0.286	0.0	0.1
6320	85.605	85.030	-0.285	0.0	0.1	6364	85.604	85.030	-0.286	0.0	0.1
6322	85.605	85.030	-0.285	0.0	0.1	6366	85.604	85.030	-0.286	0.0	0.1
6324	85.605	85.030	-0.285	0.0	0.1	6368	85.604	85.030	-0.286	0.0	0.1
6326	85.605	85.030	-0.285	0.0	0.1	6370	85.604	85.030	-0.286	0.0	0.1
6328	85.605	85.030	-0.285	0.0	0.1	6372	85.604	85.030	-0.286	0.0	0.1
6330	85.605	85.030	-0.285	0.0	0.1	6374	85.604	85.030	-0.286	0.0	0.1
6332	85.605	85.030	-0.285	0.0	0.1	6376	85.604	85.030	-0.286	0.0	0.1

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Innovyze	Network 2018.1.1	


Flows and Levels for Pipe 8.016 US/MH S2.53 FC (SW 02)
1440 minute 100 year Winter
Average Rainfall Intensity 3.462 mm/hr (3 of 4)

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)
6378	85.604	85.030	-0.286	0.0	0.1	6422	85.603	85.030	-0.287	0.0	0.1
6380	85.604	85.030	-0.286	0.0	0.1	6424	85.603	85.030	-0.287	0.0	0.1
6382	85.604	85.030	-0.286	0.0	0.1	6426	85.603	85.030	-0.287	0.0	0.1
6384	85.604	85.030	-0.286	0.0	0.1	6428	85.603	85.030	-0.287	0.0	0.1
6386	85.604	85.030	-0.286	0.0	0.1	6430	85.603	85.030	-0.287	0.0	0.1
6388	85.604	85.030	-0.286	0.0	0.1	6432	85.603	85.030	-0.287	0.0	0.1
6390	85.604	85.030	-0.286	0.0	0.1	6434	85.603	85.030	-0.287	0.0	0.1
6392	85.604	85.030	-0.286	0.0	0.1	6436	85.603	85.030	-0.287	0.0	0.1
6394	85.603	85.030	-0.287	0.0	0.1	6438	85.603	85.030	-0.287	0.0	0.1
6396	85.603	85.030	-0.287	0.0	0.1	6440	85.603	85.030	-0.287	0.0	0.1
6398	85.603	85.030	-0.287	0.0	0.1	6442	85.603	85.030	-0.287	0.0	0.1
6400	85.603	85.030	-0.287	0.0	0.1	6444	85.603	85.030	-0.287	0.0	0.1
6402	85.603	85.030	-0.287	0.0	0.1	6446	85.602	85.030	-0.288	0.0	0.1
6404	85.603	85.030	-0.287	0.0	0.1	6448	85.602	85.030	-0.288	0.0	0.1
6406	85.603	85.030	-0.287	0.0	0.1	6450	85.602	85.030	-0.288	0.0	0.1
6408	85.603	85.030	-0.287	0.0	0.1	6452	85.602	85.030	-0.288	0.0	0.1
6410	85.603	85.030	-0.287	0.0	0.1	6454	85.602	85.030	-0.288	0.0	0.1
6412	85.603	85.030	-0.287	0.0	0.1	6456	85.602	85.030	-0.288	0.0	0.1
6414	85.603	85.030	-0.287	0.0	0.1	6458	85.602	85.030	-0.288	0.0	0.1
6416	85.603	85.030	-0.287	0.0	0.1	6460	85.602	85.030	-0.288	0.0	0.1
6418	85.603	85.030	-0.287	0.0	0.1	6462	85.602	85.030	-0.288	0.0	0.1
6420	85.603	85.030	-0.287	0.0	0.1	6464	85.602	85.030	-0.288	0.0	0.1

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Innovyze	Network 2018.1.1	


Flows and Levels for Pipe 8.016 US/MH S2.53 FC (SW 02)
1440 minute 100 year Winter
Average Rainfall Intensity 3.462 mm/hr (3 of 4)

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)
6466	85.602	85.030	-0.288	0.0	0.1	6510	85.602	85.030	-0.288	0.0	0.1
6468	85.602	85.030	-0.288	0.0	0.1	6512	85.602	85.030	-0.288	0.0	0.1
6470	85.602	85.030	-0.288	0.0	0.1	6514	85.602	85.030	-0.288	0.0	0.1
6472	85.602	85.030	-0.288	0.0	0.1	6516	85.602	85.030	-0.288	0.0	0.1
6474	85.602	85.030	-0.288	0.0	0.1	6518	85.602	85.030	-0.288	0.0	0.1
6476	85.602	85.030	-0.288	0.0	0.1	6520	85.602	85.030	-0.288	0.0	0.1
6478	85.602	85.030	-0.288	0.0	0.1	6522	85.602	85.030	-0.288	0.0	0.1
6480	85.602	85.030	-0.288	0.0	0.1	6524	85.602	85.030	-0.288	0.0	0.1
6482	85.602	85.030	-0.288	0.0	0.1	6526	85.602	85.030	-0.288	0.0	0.1
6484	85.602	85.030	-0.288	0.0	0.1	6528	85.602	85.030	-0.288	0.0	0.1
6486	85.602	85.030	-0.288	0.0	0.1	6530	85.602	85.030	-0.288	0.0	0.1
6488	85.602	85.030	-0.288	0.0	0.1	6532	85.602	85.030	-0.288	0.0	0.1
6490	85.602	85.030	-0.288	0.0	0.1	6534	85.602	85.030	-0.288	0.0	0.1
6492	85.602	85.030	-0.288	0.0	0.1	6536	85.602	85.030	-0.288	0.0	0.1
6494	85.602	85.030	-0.288	0.0	0.1	6538	85.602	85.030	-0.288	0.0	0.1
6496	85.602	85.030	-0.288	0.0	0.1	6540	85.602	85.030	-0.288	0.0	0.1
6498	85.602	85.030	-0.288	0.0	0.1	6542	85.602	85.030	-0.288	0.0	0.1
6500	85.602	85.030	-0.288	0.0	0.1	6544	85.601	85.030	-0.289	0.0	0.1
6502	85.602	85.030	-0.288	0.0	0.1	6546	85.601	85.030	-0.289	0.0	0.1
6504	85.602	85.030	-0.288	0.0	0.1	6548	85.601	85.030	-0.289	0.0	0.1
6506	85.602	85.030	-0.288	0.0	0.1	6550	85.601	85.030	-0.289	0.0	0.1
6508	85.602	85.030	-0.288	0.0	0.1	6552	85.601	85.030	-0.289	0.0	0.1

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Innovyze	Network 2018.1.1	


Flows and Levels for Pipe 8.016 US/MH S2.53 FC (SW 02)
1440 minute 100 year Winter
Average Rainfall Intensity 3.462 mm/hr (3 of 4)

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)
6554	85.601	85.030	-0.289	0.0	0.1	6598	85.601	85.030	-0.289	0.0	0.1
6556	85.601	85.030	-0.289	0.0	0.1	6600	85.601	85.030	-0.289	0.0	0.1
6558	85.601	85.030	-0.289	0.0	0.1	6602	85.601	85.030	-0.289	0.0	0.1
6560	85.601	85.030	-0.289	0.0	0.1	6604	85.601	85.030	-0.289	0.0	0.1
6562	85.601	85.030	-0.289	0.0	0.1	6606	85.601	85.030	-0.289	0.0	0.1
6564	85.601	85.030	-0.289	0.0	0.1	6608	85.601	85.030	-0.289	0.0	0.1
6566	85.601	85.030	-0.289	0.0	0.1	6610	85.601	85.030	-0.289	0.0	0.1
6568	85.601	85.030	-0.289	0.0	0.1	6612	85.600	85.030	-0.290	0.0	0.1
6570	85.601	85.030	-0.289	0.0	0.1	6614	85.600	85.030	-0.290	0.0	0.1
6572	85.601	85.030	-0.289	0.0	0.1	6616	85.600	85.030	-0.290	0.0	0.1
6574	85.601	85.030	-0.289	0.0	0.1	6618	85.600	85.030	-0.290	0.0	0.1
6576	85.601	85.030	-0.289	0.0	0.1	6620	85.600	85.030	-0.290	0.0	0.1
6578	85.601	85.030	-0.289	0.0	0.1	6622	85.600	85.030	-0.290	0.0	0.1
6580	85.601	85.030	-0.289	0.0	0.1	6624	85.600	85.030	-0.290	0.0	0.1
6582	85.601	85.030	-0.289	0.0	0.1	6626	85.600	85.030	-0.290	0.0	0.0
6584	85.601	85.030	-0.289	0.0	0.1	6628	85.600	85.030	-0.290	0.0	0.0
6586	85.601	85.030	-0.289	0.0	0.1	6630	85.600	85.030	-0.290	0.0	0.0
6588	85.601	85.030	-0.289	0.0	0.1	6632	85.600	85.030	-0.290	0.0	0.0
6590	85.601	85.030	-0.289	0.0	0.1	6634	85.600	85.030	-0.290	0.0	0.0
6592	85.601	85.030	-0.289	0.0	0.1	6636	85.600	85.030	-0.290	0.0	0.0
6594	85.601	85.030	-0.289	0.0	0.1	6638	85.600	85.030	-0.290	0.0	0.0
6596	85.601	85.030	-0.289	0.0	0.1	6640	85.600	85.030	-0.290	0.0	0.0

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Blays House Wick Road Englefield Green Egham Surrey TW20 OHJ	Haverhill Great Willsey Park Area 2: 1 in 100 1440 min	
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Innovyze	Network 2018.1.1	


Flows and Levels for Pipe 8.016 US/MH S2.53 FC (SW 02)
1440 minute 100 year Winter
Average Rainfall Intensity 3.462 mm/hr (3 of 4)

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)
6642	85.600	85.030	-0.290	0.0	0.0	6686	85.600	85.030	-0.290	0.0	0.0
6644	85.600	85.030	-0.290	0.0	0.0	6688	85.599	85.030	-0.291	0.0	0.0
6646	85.600	85.030	-0.290	0.0	0.0	6690	85.599	85.030	-0.291	0.0	0.0
6648	85.600	85.030	-0.290	0.0	0.0	6692	85.599	85.030	-0.291	0.0	0.0
6650	85.600	85.030	-0.290	0.0	0.0	6694	85.599	85.030	-0.291	0.0	0.0
6652	85.600	85.030	-0.290	0.0	0.0	6696	85.599	85.030	-0.291	0.0	0.0
6654	85.600	85.030	-0.290	0.0	0.0	6698	85.599	85.030	-0.291	0.0	0.0
6656	85.600	85.030	-0.290	0.0	0.0	6700	85.599	85.030	-0.291	0.0	0.0
6658	85.600	85.030	-0.290	0.0	0.0	6702	85.599	85.030	-0.291	0.0	0.0
6660	85.600	85.030	-0.290	0.0	0.0	6704	85.599	85.030	-0.291	0.0	0.0
6662	85.600	85.030	-0.290	0.0	0.0	6706	85.599	85.030	-0.291	0.0	0.0
6664	85.600	85.030	-0.290	0.0	0.0	6708	85.599	85.030	-0.291	0.0	0.0
6666	85.600	85.030	-0.290	0.0	0.0	6710	85.599	85.030	-0.291	0.0	0.0
6668	85.600	85.030	-0.290	0.0	0.0	6712	85.599	85.030	-0.291	0.0	0.0
6670	85.600	85.030	-0.290	0.0	0.0	6714	85.599	85.030	-0.291	0.0	0.0
6672	85.600	85.030	-0.290	0.0	0.0	6716	85.599	85.030	-0.291	0.0	0.0
6674	85.600	85.030	-0.290	0.0	0.0	6718	85.599	85.030	-0.291	0.0	0.0
6676	85.600	85.030	-0.290	0.0	0.0	6720	85.599	85.030	-0.291	0.0	0.0
6678	85.600	85.030	-0.290	0.0	0.0	6722	85.599	85.030	-0.291	0.0	0.0
6680	85.600	85.030	-0.290	0.0	0.0	6724	85.599	85.030	-0.291	0.0	0.0
6682	85.600	85.030	-0.290	0.0	0.0	6726	85.599	85.030	-0.291	0.0	0.0
6684	85.600	85.030	-0.290	0.0	0.0	6728	85.599	85.030	-0.291	0.0	0.0

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Blays House Wick Road Englefield Green Egham Surrey TW20 OHJ	Haverhill Great Willsey Park Area 2: 1 in 100 1440 min	
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Innovyze	Network 2018.1.1	


Flows and Levels for Pipe 8.016 US/MH S2.53 FC (SW 02)
1440 minute 100 year Winter
Average Rainfall Intensity 3.462 mm/hr (3 of 4)

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)
6730	85.599	85.030	-0.291	0.0	0.0	6774	85.599	85.030	-0.291	0.0	0.0
6732	85.599	85.030	-0.291	0.0	0.0	6776	85.599	85.030	-0.291	0.0	0.0
6734	85.599	85.030	-0.291	0.0	0.0	6778	85.598	85.030	-0.292	0.0	0.0
6736	85.599	85.030	-0.291	0.0	0.0	6780	85.598	85.030	-0.292	0.0	0.0
6738	85.599	85.030	-0.291	0.0	0.0	6782	85.598	85.030	-0.292	0.0	0.0
6740	85.599	85.030	-0.291	0.0	0.0	6784	85.598	85.030	-0.292	0.0	0.0
6742	85.599	85.030	-0.291	0.0	0.0	6786	85.598	85.030	-0.292	0.0	0.0
6744	85.599	85.030	-0.291	0.0	0.0	6788	85.598	85.030	-0.292	0.0	0.0
6746	85.599	85.030	-0.291	0.0	0.0	6790	85.598	85.030	-0.292	0.0	0.0
6748	85.599	85.030	-0.291	0.0	0.0	6792	85.598	85.030	-0.292	0.0	0.0
6750	85.599	85.030	-0.291	0.0	0.0	6794	85.598	85.030	-0.292	0.0	0.0
6752	85.599	85.030	-0.291	0.0	0.0	6796	85.598	85.030	-0.292	0.0	0.0
6754	85.599	85.030	-0.291	0.0	0.0	6798	85.598	85.030	-0.292	0.0	0.0
6756	85.599	85.030	-0.291	0.0	0.0	6800	85.598	85.030	-0.292	0.0	0.0
6758	85.599	85.030	-0.291	0.0	0.0	6802	85.598	85.030	-0.292	0.0	0.0
6760	85.599	85.030	-0.291	0.0	0.0	6804	85.598	85.030	-0.292	0.0	0.0
6762	85.599	85.030	-0.291	0.0	0.0	6806	85.598	85.030	-0.292	0.0	0.0
6764	85.599	85.030	-0.291	0.0	0.0	6808	85.598	85.030	-0.292	0.0	0.0
6766	85.599	85.030	-0.291	0.0	0.0	6810	85.598	85.030	-0.292	0.0	0.0
6768	85.599	85.030	-0.291	0.0	0.0	6812	85.598	85.030	-0.292	0.0	0.0
6770	85.599	85.030	-0.291	0.0	0.0	6814	85.598	85.030	-0.292	0.0	0.0
6772	85.599	85.030	-0.291	0.0	0.0	6816	85.598	85.030	-0.292	0.0	0.0

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Innovyze	Network 2018.1.1	


Flows and Levels for Pipe 8.016 US/MH S2.53 FC (SW 02)
1440 minute 100 year Winter
Average Rainfall Intensity 3.462 mm/hr (3 of 4)

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)
6818	85.598	85.030	-0.292	0.0	0.0	6862	85.598	85.030	-0.292	0.0	0.0
6820	85.598	85.030	-0.292	0.0	0.0	6864	85.598	85.030	-0.292	0.0	0.0
6822	85.598	85.030	-0.292	0.0	0.0	6866	85.598	85.030	-0.292	0.0	0.0
6824	85.598	85.030	-0.292	0.0	0.0	6868	85.598	85.030	-0.292	0.0	0.0
6826	85.598	85.030	-0.292	0.0	0.0	6870	85.598	85.030	-0.292	0.0	0.0
6828	85.598	85.030	-0.292	0.0	0.0	6872	85.598	85.030	-0.292	0.0	0.0
6830	85.598	85.030	-0.292	0.0	0.0	6874	85.598	85.030	-0.292	0.0	0.0
6832	85.598	85.030	-0.292	0.0	0.0	6876	85.598	85.030	-0.292	0.0	0.0
6834	85.598	85.030	-0.292	0.0	0.0	6878	85.598	85.030	-0.292	0.0	0.0
6836	85.598	85.030	-0.292	0.0	0.0	6880	85.598	85.030	-0.292	0.0	0.0
6838	85.598	85.030	-0.292	0.0	0.0	6882	85.598	85.030	-0.292	0.0	0.0
6840	85.598	85.030	-0.292	0.0	0.0	6884	85.598	85.030	-0.292	0.0	0.0
6842	85.598	85.030	-0.292	0.0	0.0	6886	85.597	85.030	-0.293	0.0	0.0
6844	85.598	85.030	-0.292	0.0	0.0	6888	85.597	85.030	-0.293	0.0	0.0
6846	85.598	85.030	-0.292	0.0	0.0	6890	85.597	85.030	-0.293	0.0	0.0
6848	85.598	85.030	-0.292	0.0	0.0	6892	85.597	85.030	-0.293	0.0	0.0
6850	85.598	85.030	-0.292	0.0	0.0	6894	85.597	85.030	-0.293	0.0	0.0
6852	85.598	85.030	-0.292	0.0	0.0	6896	85.597	85.030	-0.293	0.0	0.0
6854	85.598	85.030	-0.292	0.0	0.0	6898	85.597	85.030	-0.293	0.0	0.0
6856	85.598	85.030	-0.292	0.0	0.0	6900	85.597	85.030	-0.293	0.0	0.0
6858	85.598	85.030	-0.292	0.0	0.0	6902	85.597	85.030	-0.293	0.0	0.0
6860	85.598	85.030	-0.292	0.0	0.0	6904	85.597	85.030	-0.293	0.0	0.0

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Innovyze	Network 2018.1.1	


Flows and Levels for Pipe 8.016 US/MH S2.53 FC (SW 02)
1440 minute 100 year Winter
Average Rainfall Intensity 3.462 mm/hr (3 of 4)

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)
6906	85.597	85.030	-0.293	0.0	0.0	6950	85.597	85.030	-0.293	0.0	0.0
6908	85.597	85.030	-0.293	0.0	0.0	6952	85.597	85.030	-0.293	0.0	0.0
6910	85.597	85.030	-0.293	0.0	0.0	6954	85.597	85.030	-0.293	0.0	0.0
6912	85.597	85.030	-0.293	0.0	0.0	6956	85.597	85.030	-0.293	0.0	0.0
6914	85.597	85.030	-0.293	0.0	0.0	6958	85.597	85.030	-0.293	0.0	0.0
6916	85.597	85.030	-0.293	0.0	0.0	6960	85.597	85.030	-0.293	0.0	0.0
6918	85.597	85.030	-0.293	0.0	0.0	6962	85.597	85.030	-0.293	0.0	0.0
6920	85.597	85.030	-0.293	0.0	0.0	6964	85.597	85.030	-0.293	0.0	0.0
6922	85.597	85.030	-0.293	0.0	0.0	6966	85.597	85.030	-0.293	0.0	0.0
6924	85.597	85.030	-0.293	0.0	0.0	6968	85.597	85.030	-0.293	0.0	0.0
6926	85.597	85.030	-0.293	0.0	0.0	6970	85.597	85.030	-0.293	0.0	0.0
6928	85.597	85.030	-0.293	0.0	0.0	6972	85.597	85.030	-0.293	0.0	0.0
6930	85.597	85.030	-0.293	0.0	0.0	6974	85.597	85.030	-0.293	0.0	0.0
6932	85.597	85.030	-0.293	0.0	0.0	6976	85.597	85.030	-0.293	0.0	0.0
6934	85.597	85.030	-0.293	0.0	0.0	6978	85.597	85.030	-0.293	0.0	0.0
6936	85.597	85.030	-0.293	0.0	0.0	6980	85.597	85.030	-0.293	0.0	0.0
6938	85.597	85.030	-0.293	0.0	0.0	6982	85.597	85.030	-0.293	0.0	0.0
6940	85.597	85.030	-0.293	0.0	0.0	6984	85.597	85.030	-0.293	0.0	0.0
6942	85.597	85.030	-0.293	0.0	0.0	6986	85.597	85.030	-0.293	0.0	0.0
6944	85.597	85.030	-0.293	0.0	0.0	6988	85.597	85.030	-0.293	0.0	0.0
6946	85.597	85.030	-0.293	0.0	0.0	6990	85.597	85.030	-0.293	0.0	0.0
6948	85.597	85.030	-0.293	0.0	0.0	6992	85.597	85.030	-0.293	0.0	0.0

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Innovyze	Network 2018.1.1	


Flows and Levels for Pipe 8.016 US/MH S2.53 FC (SW 02)
1440 minute 100 year Winter
Average Rainfall Intensity 3.462 mm/hr (3 of 4)

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)
6994	85.597	85.030	-0.293	0.0	0.0	7038	85.596	85.030	-0.294	0.0	0.0
6996	85.597	85.030	-0.293	0.0	0.0	7040	85.596	85.030	-0.294	0.0	0.0
6998	85.597	85.030	-0.293	0.0	0.0	7042	85.596	85.030	-0.294	0.0	0.0
7000	85.597	85.030	-0.293	0.0	0.0	7044	85.596	85.030	-0.294	0.0	0.0
7002	85.597	85.030	-0.293	0.0	0.0	7046	85.596	85.030	-0.294	0.0	0.0
7004	85.597	85.030	-0.293	0.0	0.0	7048	85.596	85.030	-0.294	0.0	0.0
7006	85.597	85.030	-0.293	0.0	0.0	7050	85.596	85.030	-0.294	0.0	0.0
7008	85.597	85.030	-0.293	0.0	0.0	7052	85.596	85.030	-0.294	0.0	0.0
7010	85.597	85.030	-0.293	0.0	0.0	7054	85.596	85.030	-0.294	0.0	0.0
7012	85.597	85.030	-0.293	0.0	0.0	7056	85.596	85.030	-0.294	0.0	0.0
7014	85.597	85.030	-0.293	0.0	0.0	7058	85.596	85.030	-0.294	0.0	0.0
7016	85.597	85.030	-0.293	0.0	0.0	7060	85.596	85.030	-0.294	0.0	0.0
7018	85.597	85.030	-0.293	0.0	0.0	7062	85.596	85.030	-0.294	0.0	0.0
7020	85.597	85.030	-0.293	0.0	0.0	7064	85.596	85.030	-0.294	0.0	0.0
7022	85.597	85.030	-0.293	0.0	0.0	7066	85.596	85.030	-0.294	0.0	0.0
7024	85.597	85.030	-0.293	0.0	0.0	7068	85.596	85.030	-0.294	0.0	0.0
7026	85.596	85.030	-0.294	0.0	0.0	7070	85.596	85.030	-0.294	0.0	0.0
7028	85.596	85.030	-0.294	0.0	0.0	7072	85.596	85.030	-0.294	0.0	0.0
7030	85.596	85.030	-0.294	0.0	0.0	7074	85.596	85.030	-0.294	0.0	0.0
7032	85.596	85.030	-0.294	0.0	0.0	7076	85.596	85.030	-0.294	0.0	0.0
7034	85.596	85.030	-0.294	0.0	0.0	7078	85.596	85.030	-0.294	0.0	0.0
7036	85.596	85.030	-0.294	0.0	0.0	7080	85.596	85.030	-0.294	0.0	0.0

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Innovyze	Network 2018.1.1	


Flows and Levels for Pipe 8.016 US/MH S2.53 FC (SW 02)
1440 minute 100 year Winter
Average Rainfall Intensity 3.462 mm/hr (3 of 4)

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)
7082	85.596	85.030	-0.294	0.0	0.0	7126	85.596	85.030	-0.294	0.0	0.0
7084	85.596	85.030	-0.294	0.0	0.0	7128	85.596	85.030	-0.294	0.0	0.0
7086	85.596	85.030	-0.294	0.0	0.0	7130	85.596	85.030	-0.294	0.0	0.0
7088	85.596	85.030	-0.294	0.0	0.0	7132	85.596	85.030	-0.294	0.0	0.0
7090	85.596	85.030	-0.294	0.0	0.0	7134	85.596	85.030	-0.294	0.0	0.0
7092	85.596	85.030	-0.294	0.0	0.0	7136	85.596	85.030	-0.294	0.0	0.0
7094	85.596	85.030	-0.294	0.0	0.0	7138	85.596	85.030	-0.294	0.0	0.0
7096	85.596	85.030	-0.294	0.0	0.0	7140	85.596	85.030	-0.294	0.0	0.0
7098	85.596	85.030	-0.294	0.0	0.0	7142	85.596	85.030	-0.294	0.0	0.0
7100	85.596	85.030	-0.294	0.0	0.0	7144	85.596	85.030	-0.294	0.0	0.0
7102	85.596	85.030	-0.294	0.0	0.0	7146	85.596	85.030	-0.294	0.0	0.0
7104	85.596	85.030	-0.294	0.0	0.0	7148	85.596	85.030	-0.294	0.0	0.0
7106	85.596	85.030	-0.294	0.0	0.0	7150	85.596	85.030	-0.294	0.0	0.0
7108	85.596	85.030	-0.294	0.0	0.0	7152	85.596	85.030	-0.294	0.0	0.0
7110	85.596	85.030	-0.294	0.0	0.0	7154	85.596	85.030	-0.294	0.0	0.0
7112	85.596	85.030	-0.294	0.0	0.0	7156	85.596	85.030	-0.294	0.0	0.0
7114	85.596	85.030	-0.294	0.0	0.0	7158	85.596	85.030	-0.294	0.0	0.0
7116	85.596	85.030	-0.294	0.0	0.0	7160	85.596	85.030	-0.294	0.0	0.0
7118	85.596	85.030	-0.294	0.0	0.0	7162	85.596	85.030	-0.294	0.0	0.0
7120	85.596	85.030	-0.294	0.0	0.0	7164	85.596	85.030	-0.294	0.0	0.0
7122	85.596	85.030	-0.294	0.0	0.0	7166	85.596	85.030	-0.294	0.0	0.0
7124	85.596	85.030	-0.294	0.0	0.0	7168	85.596	85.030	-0.294	0.0	0.0

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Innovyze	Network 2018.1.1	


Flows and Levels for Pipe 8.016 US/MH S2.53 FC (SW 02)
1440 minute 100 year Winter
Average Rainfall Intensity 3.462 mm/hr (3 of 4)

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)
7170	85.596	85.030	-0.294	0.0	0.0	7214	85.596	85.030	-0.294	0.0	0.0
7172	85.596	85.030	-0.294	0.0	0.0	7216	85.596	85.030	-0.294	0.0	0.0
7174	85.596	85.030	-0.294	0.0	0.0	7218	85.595	85.030	-0.295	0.0	0.0
7176	85.596	85.030	-0.294	0.0	0.0	7220	85.595	85.030	-0.295	0.0	0.0
7178	85.596	85.030	-0.294	0.0	0.0	7222	85.595	85.030	-0.295	0.0	0.0
7180	85.596	85.030	-0.294	0.0	0.0	7224	85.595	85.030	-0.295	0.0	0.0
7182	85.596	85.030	-0.294	0.0	0.0	7226	85.595	85.030	-0.295	0.0	0.0
7184	85.596	85.030	-0.294	0.0	0.0	7228	85.595	85.030	-0.295	0.0	0.0
7186	85.596	85.030	-0.294	0.0	0.0	7230	85.595	85.030	-0.295	0.0	0.0
7188	85.596	85.030	-0.294	0.0	0.0	7232	85.595	85.030	-0.295	0.0	0.0
7190	85.596	85.030	-0.294	0.0	0.0	7234	85.595	85.030	-0.295	0.0	0.0
7192	85.596	85.030	-0.294	0.0	0.0	7236	85.595	85.030	-0.295	0.0	0.0
7194	85.596	85.030	-0.294	0.0	0.0	7238	85.595	85.030	-0.295	0.0	0.0
7196	85.596	85.030	-0.294	0.0	0.0	7240	85.595	85.030	-0.295	0.0	0.0
7198	85.596	85.030	-0.294	0.0	0.0	7242	85.595	85.030	-0.295	0.0	0.0
7200	85.596	85.030	-0.294	0.0	0.0	7244	85.595	85.030	-0.295	0.0	0.0
7202	85.596	85.030	-0.294	0.0	0.0	7246	85.595	85.030	-0.295	0.0	0.0
7204	85.596	85.030	-0.294	0.0	0.0	7248	85.595	85.030	-0.295	0.0	0.0
7206	85.596	85.030	-0.294	0.0	0.0	7250	85.595	85.030	-0.295	0.0	0.0
7208	85.596	85.030	-0.294	0.0	0.0	7252	85.595	85.030	-0.295	0.0	0.0
7210	85.596	85.030	-0.294	0.0	0.0	7254	85.595	85.030	-0.295	0.0	0.0
7212	85.596	85.030	-0.294	0.0	0.0	7256	85.595	85.030	-0.295	0.0	0.0

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Innovyze	Network 2018.1.1	


Flows and Levels for Pipe 8.016 US/MH S2.53 FC (SW 02)
1440 minute 100 year Winter
Average Rainfall Intensity 3.462 mm/hr (3 of 4)

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)
7258	85.595	85.030	-0.295	0.0	0.0	7302	85.595	85.030	-0.295	0.0	0.0
7260	85.595	85.030	-0.295	0.0	0.0	7304	85.595	85.030	-0.295	0.0	0.0
7262	85.595	85.030	-0.295	0.0	0.0	7306	85.595	85.030	-0.295	0.0	0.0
7264	85.595	85.030	-0.295	0.0	0.0	7308	85.595	85.030	-0.295	0.0	0.0
7266	85.595	85.030	-0.295	0.0	0.0	7310	85.595	85.030	-0.295	0.0	0.0
7268	85.595	85.030	-0.295	0.0	0.0	7312	85.595	85.030	-0.295	0.0	0.0
7270	85.595	85.030	-0.295	0.0	0.0	7314	85.595	85.030	-0.295	0.0	0.0
7272	85.595	85.030	-0.295	0.0	0.0	7316	85.595	85.030	-0.295	0.0	0.0
7274	85.595	85.030	-0.295	0.0	0.0	7318	85.595	85.030	-0.295	0.0	0.0
7276	85.595	85.030	-0.295	0.0	0.0	7320	85.595	85.030	-0.295	0.0	0.0
7278	85.595	85.030	-0.295	0.0	0.0	7322	85.595	85.030	-0.295	0.0	0.0
7280	85.595	85.030	-0.295	0.0	0.0	7324	85.595	85.030	-0.295	0.0	0.0
7282	85.595	85.030	-0.295	0.0	0.0	7326	85.595	85.030	-0.295	0.0	0.0
7284	85.595	85.030	-0.295	0.0	0.0	7328	85.595	85.030	-0.295	0.0	0.0
7286	85.595	85.030	-0.295	0.0	0.0	7330	85.595	85.030	-0.295	0.0	0.0
7288	85.595	85.030	-0.295	0.0	0.0	7332	85.595	85.030	-0.295	0.0	0.0
7290	85.595	85.030	-0.295	0.0	0.0	7334	85.595	85.030	-0.295	0.0	0.0
7292	85.595	85.030	-0.295	0.0	0.0	7336	85.595	85.030	-0.295	0.0	0.0
7294	85.595	85.030	-0.295	0.0	0.0	7338	85.595	85.030	-0.295	0.0	0.0
7296	85.595	85.030	-0.295	0.0	0.0	7340	85.595	85.030	-0.295	0.0	0.0
7298	85.595	85.030	-0.295	0.0	0.0	7342	85.595	85.030	-0.295	0.0	0.0
7300	85.595	85.030	-0.295	0.0	0.0	7344	85.595	85.030	-0.295	0.0	0.0

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Innovyze	Network 2018.1.1	


Flows and Levels for Pipe 8.016 US/MH S2.53 FC (SW 02)
1440 minute 100 year Winter
Average Rainfall Intensity 3.462 mm/hr (3 of 4)

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)
7346	85.595	85.030	-0.295	0.0	0.0	7390	85.595	85.030	-0.295	0.0	0.0
7348	85.595	85.030	-0.295	0.0	0.0	7392	85.595	85.030	-0.295	0.0	0.0
7350	85.595	85.030	-0.295	0.0	0.0	7394	85.595	85.030	-0.295	0.0	0.0
7352	85.595	85.030	-0.295	0.0	0.0	7396	85.595	85.030	-0.295	0.0	0.0
7354	85.595	85.030	-0.295	0.0	0.0	7398	85.595	85.030	-0.295	0.0	0.0
7356	85.595	85.030	-0.295	0.0	0.0	7400	85.595	85.030	-0.295	0.0	0.0
7358	85.595	85.030	-0.295	0.0	0.0	7402	85.595	85.030	-0.295	0.0	0.0
7360	85.595	85.030	-0.295	0.0	0.0	7404	85.595	85.030	-0.295	0.0	0.0
7362	85.595	85.030	-0.295	0.0	0.0	7406	85.595	85.030	-0.295	0.0	0.0
7364	85.595	85.030	-0.295	0.0	0.0	7408	85.595	85.030	-0.295	0.0	0.0
7366	85.595	85.030	-0.295	0.0	0.0	7410	85.595	85.030	-0.295	0.0	0.0
7368	85.595	85.030	-0.295	0.0	0.0	7412	85.595	85.030	-0.295	0.0	0.0
7370	85.595	85.030	-0.295	0.0	0.0	7414	85.595	85.030	-0.295	0.0	0.0
7372	85.595	85.030	-0.295	0.0	0.0	7416	85.595	85.030	-0.295	0.0	0.0
7374	85.595	85.030	-0.295	0.0	0.0	7418	85.595	85.030	-0.295	0.0	0.0
7376	85.595	85.030	-0.295	0.0	0.0	7420	85.595	85.030	-0.295	0.0	0.0
7378	85.595	85.030	-0.295	0.0	0.0	7422	85.595	85.030	-0.295	0.0	0.0
7380	85.595	85.030	-0.295	0.0	0.0	7424	85.595	85.030	-0.295	0.0	0.0
7382	85.595	85.030	-0.295	0.0	0.0	7426	85.595	85.030	-0.295	0.0	0.0
7384	85.595	85.030	-0.295	0.0	0.0	7428	85.595	85.030	-0.295	0.0	0.0
7386	85.595	85.030	-0.295	0.0	0.0	7430	85.595	85.030	-0.295	0.0	0.0
7388	85.595	85.030	-0.295	0.0	0.0	7432	85.595	85.030	-0.295	0.0	0.0

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Innovyze	Network 2018.1.1	


Flows and Levels for Pipe 8.016 US/MH S2.53 FC (SW 02)
1440 minute 100 year Winter
Average Rainfall Intensity 3.462 mm/hr (3 of 4)

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)
7434	85.595	85.030	-0.295	0.0	0.0	7478	85.595	85.030	-0.295	0.0	0.0
7436	85.595	85.030	-0.295	0.0	0.0	7480	85.595	85.030	-0.295	0.0	0.0
7438	85.595	85.030	-0.295	0.0	0.0	7482	85.595	85.030	-0.295	0.0	0.0
7440	85.595	85.030	-0.295	0.0	0.0	7484	85.595	85.030	-0.295	0.0	0.0
7442	85.595	85.030	-0.295	0.0	0.0	7486	85.595	85.030	-0.295	0.0	0.0
7444	85.595	85.030	-0.295	0.0	0.0	7488	85.595	85.030	-0.295	0.0	0.0
7446	85.595	85.030	-0.295	0.0	0.0	7490	85.595	85.030	-0.295	0.0	0.0
7448	85.595	85.030	-0.295	0.0	0.0	7492	85.595	85.030	-0.295	0.0	0.0
7450	85.595	85.030	-0.295	0.0	0.0	7494	85.595	85.030	-0.295	0.0	0.0
7452	85.595	85.030	-0.295	0.0	0.0	7496	85.595	85.030	-0.295	0.0	0.0
7454	85.595	85.030	-0.295	0.0	0.0	7498	85.595	85.030	-0.295	0.0	0.0
7456	85.595	85.030	-0.295	0.0	0.0	7500	85.595	85.030	-0.295	0.0	0.0
7458	85.595	85.030	-0.295	0.0	0.0	7502	85.595	85.030	-0.295	0.0	0.0
7460	85.595	85.030	-0.295	0.0	0.0	7504	85.595	85.030	-0.295	0.0	0.0
7462	85.595	85.030	-0.295	0.0	0.0	7506	85.595	85.030	-0.295	0.0	0.0
7464	85.595	85.030	-0.295	0.0	0.0	7508	85.595	85.030	-0.295	0.0	0.0
7466	85.595	85.030	-0.295	0.0	0.0	7510	85.595	85.030	-0.295	0.0	0.0
7468	85.595	85.030	-0.295	0.0	0.0	7512	85.595	85.030	-0.295	0.0	0.0
7470	85.595	85.030	-0.295	0.0	0.0	7514	85.595	85.030	-0.295	0.0	0.0
7472	85.595	85.030	-0.295	0.0	0.0	7516	85.595	85.030	-0.295	0.0	0.0
7474	85.595	85.030	-0.295	0.0	0.0	7518	85.595	85.030	-0.295	0.0	0.0
7476	85.595	85.030	-0.295	0.0	0.0	7520	85.595	85.030	-0.295	0.0	0.0

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Innovyze	Network 2018.1.1	


Flows and Levels for Pipe 8.016 US/MH S2.53 FC (SW 02)
1440 minute 100 year Winter
Average Rainfall Intensity 3.462 mm/hr (3 of 4)

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)
7522	85.595	85.030	-0.295	0.0	0.0	7566	85.594	85.030	-0.296	0.0	0.0
7524	85.595	85.030	-0.295	0.0	0.0	7568	85.594	85.030	-0.296	0.0	0.0
7526	85.595	85.030	-0.295	0.0	0.0	7570	85.594	85.030	-0.296	0.0	0.0
7528	85.595	85.030	-0.295	0.0	0.0	7572	85.594	85.030	-0.296	0.0	0.0
7530	85.594	85.030	-0.296	0.0	0.0	7574	85.594	85.030	-0.296	0.0	0.0
7532	85.594	85.030	-0.296	0.0	0.0	7576	85.594	85.030	-0.296	0.0	0.0
7534	85.594	85.030	-0.296	0.0	0.0	7578	85.594	85.030	-0.296	0.0	0.0
7536	85.594	85.030	-0.296	0.0	0.0	7580	85.594	85.030	-0.296	0.0	0.0
7538	85.594	85.030	-0.296	0.0	0.0	7582	85.594	85.030	-0.296	0.0	0.0
7540	85.594	85.030	-0.296	0.0	0.0	7584	85.594	85.030	-0.296	0.0	0.0
7542	85.594	85.030	-0.296	0.0	0.0	7586	85.594	85.030	-0.296	0.0	0.0
7544	85.594	85.030	-0.296	0.0	0.0	7588	85.594	85.030	-0.296	0.0	0.0
7546	85.594	85.030	-0.296	0.0	0.0	7590	85.594	85.030	-0.296	0.0	0.0
7548	85.594	85.030	-0.296	0.0	0.0	7592	85.594	85.030	-0.296	0.0	0.0
7550	85.594	85.030	-0.296	0.0	0.0	7594	85.594	85.030	-0.296	0.0	0.0
7552	85.594	85.030	-0.296	0.0	0.0	7596	85.594	85.030	-0.296	0.0	0.0
7554	85.594	85.030	-0.296	0.0	0.0	7598	85.594	85.030	-0.296	0.0	0.0
7556	85.594	85.030	-0.296	0.0	0.0	7600	85.594	85.030	-0.296	0.0	0.0
7558	85.594	85.030	-0.296	0.0	0.0	7602	85.594	85.030	-0.296	0.0	0.0
7560	85.594	85.030	-0.296	0.0	0.0	7604	85.594	85.030	-0.296	0.0	0.0
7562	85.594	85.030	-0.296	0.0	0.0	7606	85.594	85.030	-0.296	0.0	0.0
7564	85.594	85.030	-0.296	0.0	0.0	7608	85.594	85.030	-0.296	0.0	0.0

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Innovyze	Network 2018.1.1	


Flows and Levels for Pipe 8.016 US/MH S2.53 FC (SW 02)
1440 minute 100 year Winter
Average Rainfall Intensity 3.462 mm/hr (3 of 4)

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)
7610	85.594	85.030	-0.296	0.0	0.0	7654	85.594	85.030	-0.296	0.0	0.0
7612	85.594	85.030	-0.296	0.0	0.0	7656	85.594	85.030	-0.296	0.0	0.0
7614	85.594	85.030	-0.296	0.0	0.0	7658	85.594	85.030	-0.296	0.0	0.0
7616	85.594	85.030	-0.296	0.0	0.0	7660	85.594	85.030	-0.296	0.0	0.0
7618	85.594	85.030	-0.296	0.0	0.0	7662	85.594	85.030	-0.296	0.0	0.0
7620	85.594	85.030	-0.296	0.0	0.0	7664	85.594	85.030	-0.296	0.0	0.0
7622	85.594	85.030	-0.296	0.0	0.0	7666	85.594	85.030	-0.296	0.0	0.0
7624	85.594	85.030	-0.296	0.0	0.0	7668	85.594	85.030	-0.296	0.0	0.0
7626	85.594	85.030	-0.296	0.0	0.0	7670	85.594	85.030	-0.296	0.0	0.0
7628	85.594	85.030	-0.296	0.0	0.0	7672	85.594	85.030	-0.296	0.0	0.0
7630	85.594	85.030	-0.296	0.0	0.0	7674	85.594	85.030	-0.296	0.0	0.0
7632	85.594	85.030	-0.296	0.0	0.0	7676	85.594	85.030	-0.296	0.0	0.0
7634	85.594	85.030	-0.296	0.0	0.0	7678	85.594	85.030	-0.296	0.0	0.0
7636	85.594	85.030	-0.296	0.0	0.0	7680	85.594	85.030	-0.296	0.0	0.0
7638	85.594	85.030	-0.296	0.0	0.0	7682	85.594	85.030	-0.296	0.0	0.0
7640	85.594	85.030	-0.296	0.0	0.0	7684	85.594	85.030	-0.296	0.0	0.0
7642	85.594	85.030	-0.296	0.0	0.0	7686	85.594	85.030	-0.296	0.0	0.0
7644	85.594	85.030	-0.296	0.0	0.0	7688	85.594	85.030	-0.296	0.0	0.0
7646	85.594	85.030	-0.296	0.0	0.0	7690	85.594	85.030	-0.296	0.0	0.0
7648	85.594	85.030	-0.296	0.0	0.0	7692	85.594	85.030	-0.296	0.0	0.0
7650	85.594	85.030	-0.296	0.0	0.0	7694	85.594	85.030	-0.296	0.0	0.0
7652	85.594	85.030	-0.296	0.0	0.0	7696	85.594	85.030	-0.296	0.0	0.0

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Innovyze	Network 2018.1.1	


Flows and Levels for Pipe 8.016 US/MH S2.53 FC (SW 02)
1440 minute 100 year Winter
Average Rainfall Intensity 3.462 mm/hr (3 of 4)

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)
7698	85.594	85.030	-0.296	0.0	0.0	7742	85.594	85.030	-0.296	0.0	0.0
7700	85.594	85.030	-0.296	0.0	0.0	7744	85.594	85.030	-0.296	0.0	0.0
7702	85.594	85.030	-0.296	0.0	0.0	7746	85.594	85.030	-0.296	0.0	0.0
7704	85.594	85.030	-0.296	0.0	0.0	7748	85.594	85.030	-0.296	0.0	0.0
7706	85.594	85.030	-0.296	0.0	0.0	7750	85.594	85.030	-0.296	0.0	0.0
7708	85.594	85.030	-0.296	0.0	0.0	7752	85.594	85.030	-0.296	0.0	0.0
7710	85.594	85.030	-0.296	0.0	0.0	7754	85.594	85.030	-0.296	0.0	0.0
7712	85.594	85.030	-0.296	0.0	0.0	7756	85.594	85.030	-0.296	0.0	0.0
7714	85.594	85.030	-0.296	0.0	0.0	7758	85.594	85.030	-0.296	0.0	0.0
7716	85.594	85.030	-0.296	0.0	0.0	7760	85.594	85.030	-0.296	0.0	0.0
7718	85.594	85.030	-0.296	0.0	0.0	7762	85.594	85.030	-0.296	0.0	0.0
7720	85.594	85.030	-0.296	0.0	0.0	7764	85.594	85.030	-0.296	0.0	0.0
7722	85.594	85.030	-0.296	0.0	0.0	7766	85.594	85.030	-0.296	0.0	0.0
7724	85.594	85.030	-0.296	0.0	0.0	7768	85.594	85.030	-0.296	0.0	0.0
7726	85.594	85.030	-0.296	0.0	0.0	7770	85.594	85.030	-0.296	0.0	0.0
7728	85.594	85.030	-0.296	0.0	0.0	7772	85.594	85.030	-0.296	0.0	0.0
7730	85.594	85.030	-0.296	0.0	0.0	7774	85.594	85.030	-0.296	0.0	0.0
7732	85.594	85.030	-0.296	0.0	0.0	7776	85.594	85.030	-0.296	0.0	0.0
7734	85.594	85.030	-0.296	0.0	0.0	7778	85.594	85.030	-0.296	0.0	0.0
7736	85.594	85.030	-0.296	0.0	0.0	7780	85.594	85.030	-0.296	0.0	0.0
7738	85.594	85.030	-0.296	0.0	0.0	7782	85.594	85.030	-0.296	0.0	0.0
7740	85.594	85.030	-0.296	0.0	0.0	7784	85.594	85.030	-0.296	0.0	0.0

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Innovyze	Network 2018.1.1	


Flows and Levels for Pipe 8.016 US/MH S2.53 FC (SW 02)
1440 minute 100 year Winter
Average Rainfall Intensity 3.462 mm/hr (3 of 4)

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)
7786	85.594	85.030	-0.296	0.0	0.0	7830	85.594	85.030	-0.296	0.0	0.0
7788	85.594	85.030	-0.296	0.0	0.0	7832	85.594	85.030	-0.296	0.0	0.0
7790	85.594	85.030	-0.296	0.0	0.0	7834	85.594	85.030	-0.296	0.0	0.0
7792	85.594	85.030	-0.296	0.0	0.0	7836	85.594	85.030	-0.296	0.0	0.0
7794	85.594	85.030	-0.296	0.0	0.0	7838	85.594	85.030	-0.296	0.0	0.0
7796	85.594	85.030	-0.296	0.0	0.0	7840	85.594	85.030	-0.296	0.0	0.0
7798	85.594	85.030	-0.296	0.0	0.0	7842	85.594	85.030	-0.296	0.0	0.0
7800	85.594	85.030	-0.296	0.0	0.0	7844	85.594	85.030	-0.296	0.0	0.0
7802	85.594	85.030	-0.296	0.0	0.0	7846	85.594	85.030	-0.296	0.0	0.0
7804	85.594	85.030	-0.296	0.0	0.0	7848	85.594	85.030	-0.296	0.0	0.0
7806	85.594	85.030	-0.296	0.0	0.0	7850	85.594	85.030	-0.296	0.0	0.0
7808	85.594	85.030	-0.296	0.0	0.0	7852	85.594	85.030	-0.296	0.0	0.0
7810	85.594	85.030	-0.296	0.0	0.0	7854	85.594	85.030	-0.296	0.0	0.0
7812	85.594	85.030	-0.296	0.0	0.0	7856	85.594	85.030	-0.296	0.0	0.0
7814	85.594	85.030	-0.296	0.0	0.0	7858	85.594	85.030	-0.296	0.0	0.0
7816	85.594	85.030	-0.296	0.0	0.0	7860	85.594	85.030	-0.296	0.0	0.0
7818	85.594	85.030	-0.296	0.0	0.0	7862	85.594	85.030	-0.296	0.0	0.0
7820	85.594	85.030	-0.296	0.0	0.0	7864	85.594	85.030	-0.296	0.0	0.0
7822	85.594	85.030	-0.296	0.0	0.0	7866	85.594	85.030	-0.296	0.0	0.0
7824	85.594	85.030	-0.296	0.0	0.0	7868	85.594	85.030	-0.296	0.0	0.0
7826	85.594	85.030	-0.296	0.0	0.0	7870	85.594	85.030	-0.296	0.0	0.0
7828	85.594	85.030	-0.296	0.0	0.0	7872	85.594	85.030	-0.296	0.0	0.0

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Innovyze	Network 2018.1.1	


Flows and Levels for Pipe 8.016 US/MH S2.53 FC (SW 02)
1440 minute 100 year Winter
Average Rainfall Intensity 3.462 mm/hr (3 of 4)

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)
7874	85.594	85.030	-0.296	0.0	0.0	7918	85.594	85.030	-0.296	0.0	0.0
7876	85.594	85.030	-0.296	0.0	0.0	7920	85.594	85.030	-0.296	0.0	0.0
7878	85.594	85.030	-0.296	0.0	0.0	7922	85.594	85.030	-0.296	0.0	0.0
7880	85.594	85.030	-0.296	0.0	0.0	7924	85.594	85.030	-0.296	0.0	0.0
7882	85.594	85.030	-0.296	0.0	0.0	7926	85.594	85.030	-0.296	0.0	0.0
7884	85.594	85.030	-0.296	0.0	0.0	7928	85.594	85.030	-0.296	0.0	0.0
7886	85.594	85.030	-0.296	0.0	0.0	7930	85.594	85.030	-0.296	0.0	0.0
7888	85.594	85.030	-0.296	0.0	0.0	7932	85.594	85.030	-0.296	0.0	0.0
7890	85.594	85.030	-0.296	0.0	0.0	7934	85.594	85.030	-0.296	0.0	0.0
7892	85.594	85.030	-0.296	0.0	0.0	7936	85.594	85.030	-0.296	0.0	0.0
7894	85.594	85.030	-0.296	0.0	0.0	7938	85.594	85.030	-0.296	0.0	0.0
7896	85.594	85.030	-0.296	0.0	0.0	7940	85.594	85.030	-0.296	0.0	0.0
7898	85.594	85.030	-0.296	0.0	0.0	7942	85.594	85.030	-0.296	0.0	0.0
7900	85.594	85.030	-0.296	0.0	0.0	7944	85.594	85.030	-0.296	0.0	0.0
7902	85.594	85.030	-0.296	0.0	0.0	7946	85.594	85.030	-0.296	0.0	0.0
7904	85.594	85.030	-0.296	0.0	0.0	7948	85.594	85.030	-0.296	0.0	0.0
7906	85.594	85.030	-0.296	0.0	0.0	7950	85.594	85.030	-0.296	0.0	0.0
7908	85.594	85.030	-0.296	0.0	0.0	7952	85.594	85.030	-0.296	0.0	0.0
7910	85.594	85.030	-0.296	0.0	0.0	7954	85.594	85.030	-0.296	0.0	0.0
7912	85.594	85.030	-0.296	0.0	0.0	7956	85.594	85.030	-0.296	0.0	0.0
7914	85.594	85.030	-0.296	0.0	0.0	7958	85.594	85.030	-0.296	0.0	0.0
7916	85.594	85.030	-0.296	0.0	0.0	7960	85.594	85.030	-0.296	0.0	0.0

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Innovyze	Network 2018.1.1	


Flows and Levels for Pipe 8.016 US/MH S2.53 FC (SW 02)
1440 minute 100 year Winter
Average Rainfall Intensity 3.462 mm/hr (3 of 4)

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)
7962	85.594	85.030	-0.296	0.0	0.0	8006	85.593	85.030	-0.297	0.0	0.0
7964	85.594	85.030	-0.296	0.0	0.0	8008	85.593	85.030	-0.297	0.0	0.0
7966	85.594	85.030	-0.296	0.0	0.0	8010	85.593	85.030	-0.297	0.0	0.0
7968	85.594	85.030	-0.296	0.0	0.0	8012	85.593	85.030	-0.297	0.0	0.0
7970	85.594	85.030	-0.296	0.0	0.0	8014	85.593	85.030	-0.297	0.0	0.0
7972	85.594	85.030	-0.296	0.0	0.0	8016	85.593	85.030	-0.297	0.0	0.0
7974	85.594	85.030	-0.296	0.0	0.0	8018	85.593	85.030	-0.297	0.0	0.0
7976	85.594	85.030	-0.296	0.0	0.0	8020	85.593	85.030	-0.297	0.0	0.0
7978	85.594	85.030	-0.296	0.0	0.0	8022	85.593	85.030	-0.297	0.0	0.0
7980	85.594	85.030	-0.296	0.0	0.0	8024	85.593	85.030	-0.297	0.0	0.0
7982	85.594	85.030	-0.296	0.0	0.0	8026	85.593	85.030	-0.297	0.0	0.0
7984	85.594	85.030	-0.296	0.0	0.0	8028	85.593	85.030	-0.297	0.0	0.0
7986	85.594	85.030	-0.296	0.0	0.0	8030	85.593	85.030	-0.297	0.0	0.0
7988	85.594	85.030	-0.296	0.0	0.0	8032	85.593	85.030	-0.297	0.0	0.0
7990	85.594	85.030	-0.296	0.0	0.0	8034	85.593	85.030	-0.297	0.0	0.0
7992	85.594	85.030	-0.296	0.0	0.0	8036	85.593	85.030	-0.297	0.0	0.0
7994	85.594	85.030	-0.296	0.0	0.0	8038	85.593	85.030	-0.297	0.0	0.0
7996	85.593	85.030	-0.297	0.0	0.0	8040	85.593	85.030	-0.297	0.0	0.0
7998	85.593	85.030	-0.297	0.0	0.0	8042	85.593	85.030	-0.297	0.0	0.0
8000	85.593	85.030	-0.297	0.0	0.0	8044	85.593	85.030	-0.297	0.0	0.0
8002	85.593	85.030	-0.297	0.0	0.0	8046	85.593	85.030	-0.297	0.0	0.0
8004	85.593	85.030	-0.297	0.0	0.0	8048	85.593	85.030	-0.297	0.0	0.0

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Innovyze	Network 2018.1.1	


Flows and Levels for Pipe 8.016 US/MH S2.53 FC (SW 02)
1440 minute 100 year Winter
Average Rainfall Intensity 3.462 mm/hr (3 of 4)

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)
8050	85.593	85.030	-0.297	0.0	0.0	8094	85.593	85.030	-0.297	0.0	0.0
8052	85.593	85.030	-0.297	0.0	0.0	8096	85.593	85.030	-0.297	0.0	0.0
8054	85.593	85.030	-0.297	0.0	0.0	8098	85.593	85.030	-0.297	0.0	0.0
8056	85.593	85.030	-0.297	0.0	0.0	8100	85.593	85.030	-0.297	0.0	0.0
8058	85.593	85.030	-0.297	0.0	0.0	8102	85.593	85.030	-0.297	0.0	0.0
8060	85.593	85.030	-0.297	0.0	0.0	8104	85.593	85.030	-0.297	0.0	0.0
8062	85.593	85.030	-0.297	0.0	0.0	8106	85.593	85.030	-0.297	0.0	0.0
8064	85.593	85.030	-0.297	0.0	0.0	8108	85.593	85.030	-0.297	0.0	0.0
8066	85.593	85.030	-0.297	0.0	0.0	8110	85.593	85.030	-0.297	0.0	0.0
8068	85.593	85.030	-0.297	0.0	0.0	8112	85.593	85.030	-0.297	0.0	0.0
8070	85.593	85.030	-0.297	0.0	0.0	8114	85.593	85.030	-0.297	0.0	0.0
8072	85.593	85.030	-0.297	0.0	0.0	8116	85.593	85.030	-0.297	0.0	0.0
8074	85.593	85.030	-0.297	0.0	0.0	8118	85.593	85.030	-0.297	0.0	0.0
8076	85.593	85.030	-0.297	0.0	0.0	8120	85.593	85.030	-0.297	0.0	0.0
8078	85.593	85.030	-0.297	0.0	0.0	8122	85.593	85.030	-0.297	0.0	0.0
8080	85.593	85.030	-0.297	0.0	0.0	8124	85.593	85.030	-0.297	0.0	0.0
8082	85.593	85.030	-0.297	0.0	0.0	8126	85.593	85.030	-0.297	0.0	0.0
8084	85.593	85.030	-0.297	0.0	0.0	8128	85.593	85.030	-0.297	0.0	0.0
8086	85.593	85.030	-0.297	0.0	0.0	8130	85.593	85.030	-0.297	0.0	0.0
8088	85.593	85.030	-0.297	0.0	0.0	8132	85.593	85.030	-0.297	0.0	0.0
8090	85.593	85.030	-0.297	0.0	0.0	8134	85.593	85.030	-0.297	0.0	0.0
8092	85.593	85.030	-0.297	0.0	0.0	8136	85.593	85.030	-0.297	0.0	0.0

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Blays House Wick Road Englefield Green Egham Surrey TW20 OHJ	Haverhill Great Willsey Park Area 2: 1 in 100 1440 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 8.016 US/MH S2.53 FC (SW 02)
1440 minute 100 year Winter
Average Rainfall Intensity 3.462 mm/hr (3 of 4)

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)
8138	85.593	85.030	-0.297	0.0	0.0	8182	85.593	85.030	-0.297	0.0	0.0
8140	85.593	85.030	-0.297	0.0	0.0	8184	85.593	85.030	-0.297	0.0	0.0
8142	85.593	85.030	-0.297	0.0	0.0	8186	85.593	85.030	-0.297	0.0	0.0
8144	85.593	85.030	-0.297	0.0	0.0	8188	85.593	85.030	-0.297	0.0	0.0
8146	85.593	85.030	-0.297	0.0	0.0	8190	85.593	85.030	-0.297	0.0	0.0
8148	85.593	85.030	-0.297	0.0	0.0	8192	85.593	85.030	-0.297	0.0	0.0
8150	85.593	85.030	-0.297	0.0	0.0	8194	85.593	85.030	-0.297	0.0	0.0
8152	85.593	85.030	-0.297	0.0	0.0	8196	85.593	85.030	-0.297	0.0	0.0
8154	85.593	85.030	-0.297	0.0	0.0	8198	85.593	85.030	-0.297	0.0	0.0
8156	85.593	85.030	-0.297	0.0	0.0	8200	85.593	85.030	-0.297	0.0	0.0
8158	85.593	85.030	-0.297	0.0	0.0	8202	85.593	85.030	-0.297	0.0	0.0
8160	85.593	85.030	-0.297	0.0	0.0	8204	85.593	85.030	-0.297	0.0	0.0
8162	85.593	85.030	-0.297	0.0	0.0	8206	85.593	85.030	-0.297	0.0	0.0
8164	85.593	85.030	-0.297	0.0	0.0	8208	85.593	85.030	-0.297	0.0	0.0
8166	85.593	85.030	-0.297	0.0	0.0	8210	85.593	85.030	-0.297	0.0	0.0
8168	85.593	85.030	-0.297	0.0	0.0	8212	85.593	85.030	-0.297	0.0	0.0
8170	85.593	85.030	-0.297	0.0	0.0	8214	85.593	85.030	-0.297	0.0	0.0
8172	85.593	85.030	-0.297	0.0	0.0	8216	85.593	85.030	-0.297	0.0	0.0
8174	85.593	85.030	-0.297	0.0	0.0	8218	85.593	85.030	-0.297	0.0	0.0
8176	85.593	85.030	-0.297	0.0	0.0	8220	85.593	85.030	-0.297	0.0	0.0
8178	85.593	85.030	-0.297	0.0	0.0	8222	85.593	85.030	-0.297	0.0	0.0
8180	85.593	85.030	-0.297	0.0	0.0	8224	85.593	85.030	-0.297	0.0	0.0

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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 8.016 US/MH S2.53 FC (SW 02)
1440 minute 100 year Winter
Average Rainfall Intensity 3.462 mm/hr (3 of 4)

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)
8226	85.593	85.030	-0.297	0.0	0.0	8270	85.593	85.030	-0.297	0.0	0.0
8228	85.593	85.030	-0.297	0.0	0.0	8272	85.593	85.030	-0.297	0.0	0.0
8230	85.593	85.030	-0.297	0.0	0.0	8274	85.593	85.030	-0.297	0.0	0.0
8232	85.593	85.030	-0.297	0.0	0.0	8276	85.593	85.030	-0.297	0.0	0.0
8234	85.593	85.030	-0.297	0.0	0.0	8278	85.593	85.030	-0.297	0.0	0.0
8236	85.593	85.030	-0.297	0.0	0.0	8280	85.593	85.030	-0.297	0.0	0.0
8238	85.593	85.030	-0.297	0.0	0.0	8282	85.593	85.030	-0.297	0.0	0.0
8240	85.593	85.030	-0.297	0.0	0.0	8284	85.593	85.030	-0.297	0.0	0.0
8242	85.593	85.030	-0.297	0.0	0.0	8286	85.593	85.030	-0.297	0.0	0.0
8244	85.593	85.030	-0.297	0.0	0.0	8288	85.593	85.030	-0.297	0.0	0.0
8246	85.593	85.030	-0.297	0.0	0.0	8290	85.593	85.030	-0.297	0.0	0.0
8248	85.593	85.030	-0.297	0.0	0.0	8292	85.593	85.030	-0.297	0.0	0.0
8250	85.593	85.030	-0.297	0.0	0.0	8294	85.593	85.030	-0.297	0.0	0.0
8252	85.593	85.030	-0.297	0.0	0.0	8296	85.593	85.030	-0.297	0.0	0.0
8254	85.593	85.030	-0.297	0.0	0.0	8298	85.593	85.030	-0.297	0.0	0.0
8256	85.593	85.030	-0.297	0.0	0.0	8300	85.593	85.030	-0.297	0.0	0.0
8258	85.593	85.030	-0.297	0.0	0.0	8302	85.593	85.030	-0.297	0.0	0.0
8260	85.593	85.030	-0.297	0.0	0.0	8304	85.593	85.030	-0.297	0.0	0.0
8262	85.593	85.030	-0.297	0.0	0.0	8306	85.593	85.030	-0.297	0.0	0.0
8264	85.593	85.030	-0.297	0.0	0.0	8308	85.593	85.030	-0.297	0.0	0.0
8266	85.593	85.030	-0.297	0.0	0.0	8310	85.593	85.030	-0.297	0.0	0.0
8268	85.593	85.030	-0.297	0.0	0.0	8312	85.593	85.030	-0.297	0.0	0.0

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Innovyze	Network 2018.1.1	


Flows and Levels for Pipe 8.016 US/MH S2.53 FC (SW 02)
1440 minute 100 year Winter
Average Rainfall Intensity 3.462 mm/hr (3 of 4)

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)
8314	85.593	85.030	-0.297	0.0	0.0	8358	85.593	85.030	-0.297	0.0	0.0
8316	85.593	85.030	-0.297	0.0	0.0	8360	85.593	85.030	-0.297	0.0	0.0
8318	85.593	85.030	-0.297	0.0	0.0	8362	85.593	85.030	-0.297	0.0	0.0
8320	85.593	85.030	-0.297	0.0	0.0	8364	85.593	85.030	-0.297	0.0	0.0
8322	85.593	85.030	-0.297	0.0	0.0	8366	85.593	85.030	-0.297	0.0	0.0
8324	85.593	85.030	-0.297	0.0	0.0	8368	85.593	85.030	-0.297	0.0	0.0
8326	85.593	85.030	-0.297	0.0	0.0	8370	85.593	85.030	-0.297	0.0	0.0
8328	85.593	85.030	-0.297	0.0	0.0	8372	85.593	85.030	-0.297	0.0	0.0
8330	85.593	85.030	-0.297	0.0	0.0	8374	85.593	85.030	-0.297	0.0	0.0
8332	85.593	85.030	-0.297	0.0	0.0	8376	85.593	85.030	-0.297	0.0	0.0
8334	85.593	85.030	-0.297	0.0	0.0	8378	85.593	85.030	-0.297	0.0	0.0
8336	85.593	85.030	-0.297	0.0	0.0	8380	85.593	85.030	-0.297	0.0	0.0
8338	85.593	85.030	-0.297	0.0	0.0	8382	85.593	85.030	-0.297	0.0	0.0
8340	85.593	85.030	-0.297	0.0	0.0	8384	85.593	85.030	-0.297	0.0	0.0
8342	85.593	85.030	-0.297	0.0	0.0	8386	85.593	85.030	-0.297	0.0	0.0
8344	85.593	85.030	-0.297	0.0	0.0	8388	85.593	85.030	-0.297	0.0	0.0
8346	85.593	85.030	-0.297	0.0	0.0	8390	85.593	85.030	-0.297	0.0	0.0
8348	85.593	85.030	-0.297	0.0	0.0	8392	85.593	85.030	-0.297	0.0	0.0
8350	85.593	85.030	-0.297	0.0	0.0	8394	85.593	85.030	-0.297	0.0	0.0
8352	85.593	85.030	-0.297	0.0	0.0	8396	85.593	85.030	-0.297	0.0	0.0
8354	85.593	85.030	-0.297	0.0	0.0	8398	85.593	85.030	-0.297	0.0	0.0
8356	85.593	85.030	-0.297	0.0	0.0	8400	85.593	85.030	-0.297	0.0	0.0

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Innovyze	Network 2018.1.1	


Flows and Levels for Pipe 8.016 US/MH S2.53 FC (SW 02)
1440 minute 100 year Winter
Average Rainfall Intensity 3.462 mm/hr (3 of 4)

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)
8402	85.593	85.030	-0.297	0.0	0.0	8446	85.593	85.030	-0.297	0.0	0.0
8404	85.593	85.030	-0.297	0.0	0.0	8448	85.593	85.030	-0.297	0.0	0.0
8406	85.593	85.030	-0.297	0.0	0.0	8450	85.593	85.030	-0.297	0.0	0.0
8408	85.593	85.030	-0.297	0.0	0.0	8452	85.593	85.030	-0.297	0.0	0.0
8410	85.593	85.030	-0.297	0.0	0.0	8454	85.593	85.030	-0.297	0.0	0.0
8412	85.593	85.030	-0.297	0.0	0.0	8456	85.593	85.030	-0.297	0.0	0.0
8414	85.593	85.030	-0.297	0.0	0.0	8458	85.593	85.030	-0.297	0.0	0.0
8416	85.593	85.030	-0.297	0.0	0.0	8460	85.593	85.030	-0.297	0.0	0.0
8418	85.593	85.030	-0.297	0.0	0.0	8462	85.593	85.030	-0.297	0.0	0.0
8420	85.593	85.030	-0.297	0.0	0.0	8464	85.593	85.030	-0.297	0.0	0.0
8422	85.593	85.030	-0.297	0.0	0.0	8466	85.593	85.030	-0.297	0.0	0.0
8424	85.593	85.030	-0.297	0.0	0.0	8468	85.593	85.030	-0.297	0.0	0.0
8426	85.593	85.030	-0.297	0.0	0.0	8470	85.593	85.030	-0.297	0.0	0.0
8428	85.593	85.030	-0.297	0.0	0.0	8472	85.593	85.030	-0.297	0.0	0.0
8430	85.593	85.030	-0.297	0.0	0.0	8474	85.593	85.030	-0.297	0.0	0.0
8432	85.593	85.030	-0.297	0.0	0.0	8476	85.593	85.030	-0.297	0.0	0.0
8434	85.593	85.030	-0.297	0.0	0.0	8478	85.593	85.030	-0.297	0.0	0.0
8436	85.593	85.030	-0.297	0.0	0.0	8480	85.593	85.030	-0.297	0.0	0.0
8438	85.593	85.030	-0.297	0.0	0.0	8482	85.593	85.030	-0.297	0.0	0.0
8440	85.593	85.030	-0.297	0.0	0.0	8484	85.593	85.030	-0.297	0.0	0.0
8442	85.593	85.030	-0.297	0.0	0.0	8486	85.593	85.030	-0.297	0.0	0.0
8444	85.593	85.030	-0.297	0.0	0.0	8488	85.593	85.030	-0.297	0.0	0.0

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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 8.016 US/MH S2.53 FC (SW 02)
1440 minute 100 year Winter
Average Rainfall Intensity 3.462 mm/hr (3 of 4)

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)
8490	85.593	85.030	-0.297	0.0	0.0	8534	85.593	85.030	-0.297	0.0	0.0
8492	85.593	85.030	-0.297	0.0	0.0	8536	85.593	85.030	-0.297	0.0	0.0
8494	85.593	85.030	-0.297	0.0	0.0	8538	85.593	85.030	-0.297	0.0	0.0
8496	85.593	85.030	-0.297	0.0	0.0	8540	85.593	85.030	-0.297	0.0	0.0
8498	85.593	85.030	-0.297	0.0	0.0	8542	85.593	85.030	-0.297	0.0	0.0
8500	85.593	85.030	-0.297	0.0	0.0	8544	85.593	85.030	-0.297	0.0	0.0
8502	85.593	85.030	-0.297	0.0	0.0	8546	85.593	85.030	-0.297	0.0	0.0
8504	85.593	85.030	-0.297	0.0	0.0	8548	85.593	85.030	-0.297	0.0	0.0
8506	85.593	85.030	-0.297	0.0	0.0	8550	85.593	85.030	-0.297	0.0	0.0
8508	85.593	85.030	-0.297	0.0	0.0	8552	85.593	85.030	-0.297	0.0	0.0
8510	85.593	85.030	-0.297	0.0	0.0	8554	85.593	85.030	-0.297	0.0	0.0
8512	85.593	85.030	-0.297	0.0	0.0	8556	85.593	85.030	-0.297	0.0	0.0
8514	85.593	85.030	-0.297	0.0	0.0	8558	85.593	85.030	-0.297	0.0	0.0
8516	85.593	85.030	-0.297	0.0	0.0	8560	85.593	85.030	-0.297	0.0	0.0
8518	85.593	85.030	-0.297	0.0	0.0	8562	85.593	85.030	-0.297	0.0	0.0
8520	85.593	85.030	-0.297	0.0	0.0	8564	85.593	85.030	-0.297	0.0	0.0
8522	85.593	85.030	-0.297	0.0	0.0	8566	85.593	85.030	-0.297	0.0	0.0
8524	85.593	85.030	-0.297	0.0	0.0	8568	85.593	85.030	-0.297	0.0	0.0
8526	85.593	85.030	-0.297	0.0	0.0	8570	85.593	85.030	-0.297	0.0	0.0
8528	85.593	85.030	-0.297	0.0	0.0	8572	85.593	85.030	-0.297	0.0	0.0
8530	85.593	85.030	-0.297	0.0	0.0	8574	85.593	85.030	-0.297	0.0	0.0
8532	85.593	85.030	-0.297	0.0	0.0	8576	85.593	85.030	-0.297	0.0	0.0

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Innovyze	Network 2018.1.1	


Flows and Levels for Pipe 8.016 US/MH S2.53 FC (SW 02)
1440 minute 100 year Winter
Average Rainfall Intensity 3.462 mm/hr (3 of 4)

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)
8578	85.593	85.030	-0.297	0.0	0.0	8610	85.593	85.030	-0.297	0.0	0.0
8580	85.593	85.030	-0.297	0.0	0.0	8612	85.593	85.030	-0.297	0.0	0.0
8582	85.593	85.030	-0.297	0.0	0.0	8614	85.593	85.030	-0.297	0.0	0.0
8584	85.593	85.030	-0.297	0.0	0.0	8616	85.593	85.030	-0.297	0.0	0.0
8586	85.593	85.030	-0.297	0.0	0.0	8618	85.593	85.030	-0.297	0.0	0.0
8588	85.593	85.030	-0.297	0.0	0.0	8620	85.593	85.030	-0.297	0.0	0.0
8590	85.593	85.030	-0.297	0.0	0.0	8622	85.593	85.030	-0.297	0.0	0.0
8592	85.593	85.030	-0.297	0.0	0.0	8624	85.593	85.030	-0.297	0.0	0.0
8594	85.593	85.030	-0.297	0.0	0.0	8626	85.593	85.030	-0.297	0.0	0.0
8596	85.593	85.030	-0.297	0.0	0.0	8628	85.593	85.030	-0.297	0.0	0.0
8598	85.593	85.030	-0.297	0.0	0.0	8630	85.593	85.030	-0.297	0.0	0.0
8600	85.593	85.030	-0.297	0.0	0.0	8632	85.593	85.030	-0.297	0.0	0.0
8602	85.593	85.030	-0.297	0.0	0.0	8634	85.593	85.030	-0.297	0.0	0.0
8604	85.593	85.030	-0.297	0.0	0.0	8636	85.593	85.030	-0.297	0.0	0.0
8606	85.593	85.030	-0.297	0.0	0.0	8638	85.593	85.030	-0.297	0.0	0.0
8608	85.593	85.030	-0.297	0.0	0.0	8640	85.593	85.030	-0.297	0.0	0.0

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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 8.016 US/MH S2.53 FC (SW 02)
1440 minute 100 year Winter
Average Rainfall Intensity 3.462 mm/hr (4 of 4)

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)
8642	85.593	85.030	-0.297	0.0	0.0	8686	85.593	85.030	-0.297	0.0	0.0
8644	85.593	85.030	-0.297	0.0	0.0	8688	85.593	85.030	-0.297	0.0	0.0
8646	85.593	85.030	-0.297	0.0	0.0	8690	85.593	85.030	-0.297	0.0	0.0
8648	85.593	85.030	-0.297	0.0	0.0	8692	85.593	85.030	-0.297	0.0	0.0
8650	85.593	85.030	-0.297	0.0	0.0	8694	85.593	85.030	-0.297	0.0	0.0
8652	85.593	85.030	-0.297	0.0	0.0	8696	85.593	85.030	-0.297	0.0	0.0
8654	85.593	85.030	-0.297	0.0	0.0	8698	85.593	85.030	-0.297	0.0	0.0
8656	85.593	85.030	-0.297	0.0	0.0	8700	85.593	85.030	-0.297	0.0	0.0
8658	85.593	85.030	-0.297	0.0	0.0	8702	85.593	85.030	-0.297	0.0	0.0
8660	85.593	85.030	-0.297	0.0	0.0	8704	85.593	85.030	-0.297	0.0	0.0
8662	85.593	85.030	-0.297	0.0	0.0	8706	85.593	85.030	-0.297	0.0	0.0
8664	85.593	85.030	-0.297	0.0	0.0	8708	85.593	85.030	-0.297	0.0	0.0
8666	85.593	85.030	-0.297	0.0	0.0	8710	85.593	85.030	-0.297	0.0	0.0
8668	85.593	85.030	-0.297	0.0	0.0	8712	85.593	85.030	-0.297	0.0	0.0
8670	85.593	85.030	-0.297	0.0	0.0	8714	85.593	85.030	-0.297	0.0	0.0
8672	85.593	85.030	-0.297	0.0	0.0	8716	85.593	85.030	-0.297	0.0	0.0
8674	85.593	85.030	-0.297	0.0	0.0	8718	85.593	85.030	-0.297	0.0	0.0
8676	85.593	85.030	-0.297	0.0	0.0	8720	85.593	85.030	-0.297	0.0	0.0
8678	85.593	85.030	-0.297	0.0	0.0	8722	85.593	85.030	-0.297	0.0	0.0
8680	85.593	85.030	-0.297	0.0	0.0	8724	85.593	85.030	-0.297	0.0	0.0
8682	85.593	85.030	-0.297	0.0	0.0	8726	85.593	85.030	-0.297	0.0	0.0
8684	85.593	85.030	-0.297	0.0	0.0	8728	85.593	85.030	-0.297	0.0	0.0

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Innovyze	Network 2018.1.1	


Flows and Levels for Pipe 8.016 US/MH S2.53 FC (SW 02)
1440 minute 100 year Winter
Average Rainfall Intensity 3.462 mm/hr (4 of 4)

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)
8730	85.593	85.030	-0.297	0.0	0.0	8774	85.593	85.030	-0.297	0.0	0.0
8732	85.593	85.030	-0.297	0.0	0.0	8776	85.593	85.030	-0.297	0.0	0.0
8734	85.593	85.030	-0.297	0.0	0.0	8778	85.593	85.030	-0.297	0.0	0.0
8736	85.593	85.030	-0.297	0.0	0.0	8780	85.593	85.030	-0.297	0.0	0.0
8738	85.593	85.030	-0.297	0.0	0.0	8782	85.593	85.030	-0.297	0.0	0.0
8740	85.593	85.030	-0.297	0.0	0.0	8784	85.593	85.030	-0.297	0.0	0.0
8742	85.593	85.030	-0.297	0.0	0.0	8786	85.593	85.030	-0.297	0.0	0.0
8744	85.593	85.030	-0.297	0.0	0.0	8788	85.593	85.030	-0.297	0.0	0.0
8746	85.593	85.030	-0.297	0.0	0.0	8790	85.593	85.030	-0.297	0.0	0.0
8748	85.593	85.030	-0.297	0.0	0.0	8792	85.593	85.030	-0.297	0.0	0.0
8750	85.593	85.030	-0.297	0.0	0.0	8794	85.593	85.030	-0.297	0.0	0.0
8752	85.593	85.030	-0.297	0.0	0.0	8796	85.593	85.030	-0.297	0.0	0.0
8754	85.593	85.030	-0.297	0.0	0.0	8798	85.592	85.030	-0.298	0.0	0.0
8756	85.593	85.030	-0.297	0.0	0.0	8800	85.592	85.030	-0.298	0.0	0.0
8758	85.593	85.030	-0.297	0.0	0.0	8802	85.592	85.030	-0.298	0.0	0.0
8760	85.593	85.030	-0.297	0.0	0.0	8804	85.592	85.030	-0.298	0.0	0.0
8762	85.593	85.030	-0.297	0.0	0.0	8806	85.592	85.030	-0.298	0.0	0.0
8764	85.593	85.030	-0.297	0.0	0.0	8808	85.592	85.030	-0.298	0.0	0.0
8766	85.593	85.030	-0.297	0.0	0.0	8810	85.592	85.030	-0.298	0.0	0.0
8768	85.593	85.030	-0.297	0.0	0.0	8812	85.592	85.030	-0.298	0.0	0.0
8770	85.593	85.030	-0.297	0.0	0.0	8814	85.592	85.030	-0.298	0.0	0.0
8772	85.593	85.030	-0.297	0.0	0.0	8816	85.592	85.030	-0.298	0.0	0.0

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Innovyze	Network 2018.1.1	


Flows and Levels for Pipe 8.016 US/MH S2.53 FC (SW 02)
1440 minute 100 year Winter
Average Rainfall Intensity 3.462 mm/hr (4 of 4)

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)
8818	85.592	85.030	-0.298	0.0	0.0	8862	85.592	85.030	-0.298	0.0	0.0
8820	85.592	85.030	-0.298	0.0	0.0	8864	85.592	85.030	-0.298	0.0	0.0
8822	85.592	85.030	-0.298	0.0	0.0	8866	85.592	85.030	-0.298	0.0	0.0
8824	85.592	85.030	-0.298	0.0	0.0	8868	85.592	85.030	-0.298	0.0	0.0
8826	85.592	85.030	-0.298	0.0	0.0	8870	85.592	85.030	-0.298	0.0	0.0
8828	85.592	85.030	-0.298	0.0	0.0	8872	85.592	85.030	-0.298	0.0	0.0
8830	85.592	85.030	-0.298	0.0	0.0	8874	85.592	85.030	-0.298	0.0	0.0
8832	85.592	85.030	-0.298	0.0	0.0	8876	85.592	85.030	-0.298	0.0	0.0
8834	85.592	85.030	-0.298	0.0	0.0	8878	85.592	85.030	-0.298	0.0	0.0
8836	85.592	85.030	-0.298	0.0	0.0	8880	85.592	85.030	-0.298	0.0	0.0
8838	85.592	85.030	-0.298	0.0	0.0	8882	85.592	85.030	-0.298	0.0	0.0
8840	85.592	85.030	-0.298	0.0	0.0	8884	85.592	85.030	-0.298	0.0	0.0
8842	85.592	85.030	-0.298	0.0	0.0	8886	85.592	85.030	-0.298	0.0	0.0
8844	85.592	85.030	-0.298	0.0	0.0	8888	85.592	85.030	-0.298	0.0	0.0
8846	85.592	85.030	-0.298	0.0	0.0	8890	85.592	85.030	-0.298	0.0	0.0
8848	85.592	85.030	-0.298	0.0	0.0	8892	85.592	85.030	-0.298	0.0	0.0
8850	85.592	85.030	-0.298	0.0	0.0	8894	85.592	85.030	-0.298	0.0	0.0
8852	85.592	85.030	-0.298	0.0	0.0	8896	85.592	85.030	-0.298	0.0	0.0
8854	85.592	85.030	-0.298	0.0	0.0	8898	85.592	85.030	-0.298	0.0	0.0
8856	85.592	85.030	-0.298	0.0	0.0	8900	85.592	85.030	-0.298	0.0	0.0
8858	85.592	85.030	-0.298	0.0	0.0	8902	85.592	85.030	-0.298	0.0	0.0
8860	85.592	85.030	-0.298	0.0	0.0	8904	85.592	85.030	-0.298	0.0	0.0

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Innovyze	Network 2018.1.1	


Flows and Levels for Pipe 8.016 US/MH S2.53 FC (SW 02)
1440 minute 100 year Winter
Average Rainfall Intensity 3.462 mm/hr (4 of 4)

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)
8906	85.592	85.030	-0.298	0.0	0.0	8950	85.592	85.030	-0.298	0.0	0.0
8908	85.592	85.030	-0.298	0.0	0.0	8952	85.592	85.030	-0.298	0.0	0.0
8910	85.592	85.030	-0.298	0.0	0.0	8954	85.592	85.030	-0.298	0.0	0.0
8912	85.592	85.030	-0.298	0.0	0.0	8956	85.592	85.030	-0.298	0.0	0.0
8914	85.592	85.030	-0.298	0.0	0.0	8958	85.592	85.030	-0.298	0.0	0.0
8916	85.592	85.030	-0.298	0.0	0.0	8960	85.592	85.030	-0.298	0.0	0.0
8918	85.592	85.030	-0.298	0.0	0.0	8962	85.592	85.030	-0.298	0.0	0.0
8920	85.592	85.030	-0.298	0.0	0.0	8964	85.592	85.030	-0.298	0.0	0.0
8922	85.592	85.030	-0.298	0.0	0.0	8966	85.592	85.030	-0.298	0.0	0.0
8924	85.592	85.030	-0.298	0.0	0.0	8968	85.592	85.030	-0.298	0.0	0.0
8926	85.592	85.030	-0.298	0.0	0.0	8970	85.592	85.030	-0.298	0.0	0.0
8928	85.592	85.030	-0.298	0.0	0.0	8972	85.592	85.030	-0.298	0.0	0.0
8930	85.592	85.030	-0.298	0.0	0.0	8974	85.592	85.030	-0.298	0.0	0.0
8932	85.592	85.030	-0.298	0.0	0.0	8976	85.592	85.030	-0.298	0.0	0.0
8934	85.592	85.030	-0.298	0.0	0.0	8978	85.592	85.030	-0.298	0.0	0.0
8936	85.592	85.030	-0.298	0.0	0.0	8980	85.592	85.030	-0.298	0.0	0.0
8938	85.592	85.030	-0.298	0.0	0.0	8982	85.592	85.030	-0.298	0.0	0.0
8940	85.592	85.030	-0.298	0.0	0.0	8984	85.592	85.030	-0.298	0.0	0.0
8942	85.592	85.030	-0.298	0.0	0.0	8986	85.592	85.030	-0.298	0.0	0.0
8944	85.592	85.030	-0.298	0.0	0.0	8988	85.592	85.030	-0.298	0.0	0.0
8946	85.592	85.030	-0.298	0.0	0.0	8990	85.592	85.030	-0.298	0.0	0.0
8948	85.592	85.030	-0.298	0.0	0.0	8992	85.592	85.030	-0.298	0.0	0.0

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Innovyze	Network 2018.1.1	


Flows and Levels for Pipe 8.016 US/MH S2.53 FC (SW 02)
1440 minute 100 year Winter
Average Rainfall Intensity 3.462 mm/hr (4 of 4)

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)
8994	85.592	85.030	-0.298	0.0	0.0	9038	85.592	85.030	-0.298	0.0	0.0
8996	85.592	85.030	-0.298	0.0	0.0	9040	85.592	85.030	-0.298	0.0	0.0
8998	85.592	85.030	-0.298	0.0	0.0	9042	85.592	85.030	-0.298	0.0	0.0
9000	85.592	85.030	-0.298	0.0	0.0	9044	85.592	85.030	-0.298	0.0	0.0
9002	85.592	85.030	-0.298	0.0	0.0	9046	85.592	85.030	-0.298	0.0	0.0
9004	85.592	85.030	-0.298	0.0	0.0	9048	85.592	85.030	-0.298	0.0	0.0
9006	85.592	85.030	-0.298	0.0	0.0	9050	85.592	85.030	-0.298	0.0	0.0
9008	85.592	85.030	-0.298	0.0	0.0	9052	85.592	85.030	-0.298	0.0	0.0
9010	85.592	85.030	-0.298	0.0	0.0	9054	85.592	85.030	-0.298	0.0	0.0
9012	85.592	85.030	-0.298	0.0	0.0	9056	85.592	85.030	-0.298	0.0	0.0
9014	85.592	85.030	-0.298	0.0	0.0	9058	85.592	85.030	-0.298	0.0	0.0
9016	85.592	85.030	-0.298	0.0	0.0	9060	85.592	85.030	-0.298	0.0	0.0
9018	85.592	85.030	-0.298	0.0	0.0	9062	85.592	85.030	-0.298	0.0	0.0
9020	85.592	85.030	-0.298	0.0	0.0	9064	85.592	85.030	-0.298	0.0	0.0
9022	85.592	85.030	-0.298	0.0	0.0	9066	85.592	85.030	-0.298	0.0	0.0
9024	85.592	85.030	-0.298	0.0	0.0	9068	85.592	85.030	-0.298	0.0	0.0
9026	85.592	85.030	-0.298	0.0	0.0	9070	85.592	85.030	-0.298	0.0	0.0
9028	85.592	85.030	-0.298	0.0	0.0	9072	85.592	85.030	-0.298	0.0	0.0
9030	85.592	85.030	-0.298	0.0	0.0	9074	85.592	85.030	-0.298	0.0	0.0
9032	85.592	85.030	-0.298	0.0	0.0	9076	85.592	85.030	-0.298	0.0	0.0
9034	85.592	85.030	-0.298	0.0	0.0	9078	85.592	85.030	-0.298	0.0	0.0
9036	85.592	85.030	-0.298	0.0	0.0	9080	85.592	85.030	-0.298	0.0	0.0

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Innovyze	Network 2018.1.1	


Flows and Levels for Pipe 8.016 US/MH S2.53 FC (SW 02)
1440 minute 100 year Winter
Average Rainfall Intensity 3.462 mm/hr (4 of 4)

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)
9082	85.592	85.030	-0.298	0.0	0.0	9126	85.592	85.030	-0.298	0.0	0.0
9084	85.592	85.030	-0.298	0.0	0.0	9128	85.592	85.030	-0.298	0.0	0.0
9086	85.592	85.030	-0.298	0.0	0.0	9130	85.592	85.030	-0.298	0.0	0.0
9088	85.592	85.030	-0.298	0.0	0.0	9132	85.592	85.030	-0.298	0.0	0.0
9090	85.592	85.030	-0.298	0.0	0.0	9134	85.592	85.030	-0.298	0.0	0.0
9092	85.592	85.030	-0.298	0.0	0.0	9136	85.592	85.030	-0.298	0.0	0.0
9094	85.592	85.030	-0.298	0.0	0.0	9138	85.592	85.030	-0.298	0.0	0.0
9096	85.592	85.030	-0.298	0.0	0.0	9140	85.592	85.030	-0.298	0.0	0.0
9098	85.592	85.030	-0.298	0.0	0.0	9142	85.592	85.030	-0.298	0.0	0.0
9100	85.592	85.030	-0.298	0.0	0.0	9144	85.592	85.030	-0.298	0.0	0.0
9102	85.592	85.030	-0.298	0.0	0.0	9146	85.592	85.030	-0.298	0.0	0.0
9104	85.592	85.030	-0.298	0.0	0.0	9148	85.592	85.030	-0.298	0.0	0.0
9106	85.592	85.030	-0.298	0.0	0.0	9150	85.592	85.030	-0.298	0.0	0.0
9108	85.592	85.030	-0.298	0.0	0.0	9152	85.592	85.030	-0.298	0.0	0.0
9110	85.592	85.030	-0.298	0.0	0.0	9154	85.592	85.030	-0.298	0.0	0.0
9112	85.592	85.030	-0.298	0.0	0.0	9156	85.592	85.030	-0.298	0.0	0.0
9114	85.592	85.030	-0.298	0.0	0.0	9158	85.592	85.030	-0.298	0.0	0.0
9116	85.592	85.030	-0.298	0.0	0.0	9160	85.592	85.030	-0.298	0.0	0.0
9118	85.592	85.030	-0.298	0.0	0.0	9162	85.592	85.030	-0.298	0.0	0.0
9120	85.592	85.030	-0.298	0.0	0.0	9164	85.592	85.030	-0.298	0.0	0.0
9122	85.592	85.030	-0.298	0.0	0.0	9166	85.592	85.030	-0.298	0.0	0.0
9124	85.592	85.030	-0.298	0.0	0.0	9168	85.592	85.030	-0.298	0.0	0.0

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Innovyze	Network 2018.1.1	


Flows and Levels for Pipe 8.016 US/MH S2.53 FC (SW 02)
1440 minute 100 year Winter
Average Rainfall Intensity 3.462 mm/hr (4 of 4)

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)
9170	85.592	85.030	-0.298	0.0	0.0	9214	85.592	85.030	-0.298	0.0	0.0
9172	85.592	85.030	-0.298	0.0	0.0	9216	85.592	85.030	-0.298	0.0	0.0
9174	85.592	85.030	-0.298	0.0	0.0	9218	85.592	85.030	-0.298	0.0	0.0
9176	85.592	85.030	-0.298	0.0	0.0	9220	85.592	85.030	-0.298	0.0	0.0
9178	85.592	85.030	-0.298	0.0	0.0	9222	85.592	85.030	-0.298	0.0	0.0
9180	85.592	85.030	-0.298	0.0	0.0	9224	85.592	85.030	-0.298	0.0	0.0
9182	85.592	85.030	-0.298	0.0	0.0	9226	85.592	85.030	-0.298	0.0	0.0
9184	85.592	85.030	-0.298	0.0	0.0	9228	85.592	85.030	-0.298	0.0	0.0
9186	85.592	85.030	-0.298	0.0	0.0	9230	85.592	85.030	-0.298	0.0	0.0
9188	85.592	85.030	-0.298	0.0	0.0	9232	85.592	85.030	-0.298	0.0	0.0
9190	85.592	85.030	-0.298	0.0	0.0	9234	85.592	85.030	-0.298	0.0	0.0
9192	85.592	85.030	-0.298	0.0	0.0	9236	85.592	85.030	-0.298	0.0	0.0
9194	85.592	85.030	-0.298	0.0	0.0	9238	85.592	85.030	-0.298	0.0	0.0
9196	85.592	85.030	-0.298	0.0	0.0	9240	85.592	85.030	-0.298	0.0	0.0
9198	85.592	85.030	-0.298	0.0	0.0	9242	85.592	85.030	-0.298	0.0	0.0
9200	85.592	85.030	-0.298	0.0	0.0	9244	85.592	85.030	-0.298	0.0	0.0
9202	85.592	85.030	-0.298	0.0	0.0	9246	85.592	85.030	-0.298	0.0	0.0
9204	85.592	85.030	-0.298	0.0	0.0	9248	85.592	85.030	-0.298	0.0	0.0
9206	85.592	85.030	-0.298	0.0	0.0	9250	85.592	85.030	-0.298	0.0	0.0
9208	85.592	85.030	-0.298	0.0	0.0	9252	85.592	85.030	-0.298	0.0	0.0
9210	85.592	85.030	-0.298	0.0	0.0	9254	85.592	85.030	-0.298	0.0	0.0
9212	85.592	85.030	-0.298	0.0	0.0	9256	85.592	85.030	-0.298	0.0	0.0

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Innovyze	Network 2018.1.1	


Flows and Levels for Pipe 8.016 US/MH S2.53 FC (SW 02)
1440 minute 100 year Winter
Average Rainfall Intensity 3.462 mm/hr (4 of 4)

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)
9258	85.592	85.030	-0.298	0.0	0.0	9302	85.592	85.030	-0.298	0.0	0.0
9260	85.592	85.030	-0.298	0.0	0.0	9304	85.592	85.030	-0.298	0.0	0.0
9262	85.592	85.030	-0.298	0.0	0.0	9306	85.592	85.030	-0.298	0.0	0.0
9264	85.592	85.030	-0.298	0.0	0.0	9308	85.592	85.030	-0.298	0.0	0.0
9266	85.592	85.030	-0.298	0.0	0.0	9310	85.592	85.030	-0.298	0.0	0.0
9268	85.592	85.030	-0.298	0.0	0.0	9312	85.592	85.030	-0.298	0.0	0.0
9270	85.592	85.030	-0.298	0.0	0.0	9314	85.592	85.030	-0.298	0.0	0.0
9272	85.592	85.030	-0.298	0.0	0.0	9316	85.592	85.030	-0.298	0.0	0.0
9274	85.592	85.030	-0.298	0.0	0.0	9318	85.592	85.030	-0.298	0.0	0.0
9276	85.592	85.030	-0.298	0.0	0.0	9320	85.592	85.030	-0.298	0.0	0.0
9278	85.592	85.030	-0.298	0.0	0.0	9322	85.592	85.030	-0.298	0.0	0.0
9280	85.592	85.030	-0.298	0.0	0.0	9324	85.592	85.030	-0.298	0.0	0.0
9282	85.592	85.030	-0.298	0.0	0.0	9326	85.592	85.030	-0.298	0.0	0.0
9284	85.592	85.030	-0.298	0.0	0.0	9328	85.592	85.030	-0.298	0.0	0.0
9286	85.592	85.030	-0.298	0.0	0.0	9330	85.592	85.030	-0.298	0.0	0.0
9288	85.592	85.030	-0.298	0.0	0.0	9332	85.592	85.030	-0.298	0.0	0.0
9290	85.592	85.030	-0.298	0.0	0.0	9334	85.592	85.030	-0.298	0.0	0.0
9292	85.592	85.030	-0.298	0.0	0.0	9336	85.592	85.030	-0.298	0.0	0.0
9294	85.592	85.030	-0.298	0.0	0.0	9338	85.592	85.030	-0.298	0.0	0.0
9296	85.592	85.030	-0.298	0.0	0.0	9340	85.592	85.030	-0.298	0.0	0.0
9298	85.592	85.030	-0.298	0.0	0.0	9342	85.592	85.030	-0.298	0.0	0.0
9300	85.592	85.030	-0.298	0.0	0.0	9344	85.592	85.030	-0.298	0.0	0.0

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Innovyze	Network 2018.1.1	


Flows and Levels for Pipe 8.016 US/MH S2.53 FC (SW 02)
1440 minute 100 year Winter
Average Rainfall Intensity 3.462 mm/hr (4 of 4)

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)
9346	85.592	85.030	-0.298	0.0	0.0	9390	85.592	85.030	-0.298	0.0	0.0
9348	85.592	85.030	-0.298	0.0	0.0	9392	85.592	85.030	-0.298	0.0	0.0
9350	85.592	85.030	-0.298	0.0	0.0	9394	85.592	85.030	-0.298	0.0	0.0
9352	85.592	85.030	-0.298	0.0	0.0	9396	85.592	85.030	-0.298	0.0	0.0
9354	85.592	85.030	-0.298	0.0	0.0	9398	85.592	85.030	-0.298	0.0	0.0
9356	85.592	85.030	-0.298	0.0	0.0	9400	85.592	85.030	-0.298	0.0	0.0
9358	85.592	85.030	-0.298	0.0	0.0	9402	85.592	85.030	-0.298	0.0	0.0
9360	85.592	85.030	-0.298	0.0	0.0	9404	85.592	85.030	-0.298	0.0	0.0
9362	85.592	85.030	-0.298	0.0	0.0	9406	85.592	85.030	-0.298	0.0	0.0
9364	85.592	85.030	-0.298	0.0	0.0	9408	85.592	85.030	-0.298	0.0	0.0
9366	85.592	85.030	-0.298	0.0	0.0	9410	85.592	85.030	-0.298	0.0	0.0
9368	85.592	85.030	-0.298	0.0	0.0	9412	85.592	85.030	-0.298	0.0	0.0
9370	85.592	85.030	-0.298	0.0	0.0	9414	85.592	85.030	-0.298	0.0	0.0
9372	85.592	85.030	-0.298	0.0	0.0	9416	85.592	85.030	-0.298	0.0	0.0
9374	85.592	85.030	-0.298	0.0	0.0	9418	85.592	85.030	-0.298	0.0	0.0
9376	85.592	85.030	-0.298	0.0	0.0	9420	85.592	85.030	-0.298	0.0	0.0
9378	85.592	85.030	-0.298	0.0	0.0	9422	85.592	85.030	-0.298	0.0	0.0
9380	85.592	85.030	-0.298	0.0	0.0	9424	85.592	85.030	-0.298	0.0	0.0
9382	85.592	85.030	-0.298	0.0	0.0	9426	85.592	85.030	-0.298	0.0	0.0
9384	85.592	85.030	-0.298	0.0	0.0	9428	85.592	85.030	-0.298	0.0	0.0
9386	85.592	85.030	-0.298	0.0	0.0	9430	85.592	85.030	-0.298	0.0	0.0
9388	85.592	85.030	-0.298	0.0	0.0	9432	85.592	85.030	-0.298	0.0	0.0

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Innovyze	Network 2018.1.1	


Flows and Levels for Pipe 8.016 US/MH S2.53 FC (SW 02)
1440 minute 100 year Winter
Average Rainfall Intensity 3.462 mm/hr (4 of 4)

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)
9434	85.592	85.030	-0.298	0.0	0.0	9478	85.592	85.030	-0.298	0.0	0.0
9436	85.592	85.030	-0.298	0.0	0.0	9480	85.592	85.030	-0.298	0.0	0.0
9438	85.592	85.030	-0.298	0.0	0.0	9482	85.592	85.030	-0.298	0.0	0.0
9440	85.592	85.030	-0.298	0.0	0.0	9484	85.592	85.030	-0.298	0.0	0.0
9442	85.592	85.030	-0.298	0.0	0.0	9486	85.592	85.030	-0.298	0.0	0.0
9444	85.592	85.030	-0.298	0.0	0.0	9488	85.592	85.030	-0.298	0.0	0.0
9446	85.592	85.030	-0.298	0.0	0.0	9490	85.592	85.030	-0.298	0.0	0.0
9448	85.592	85.030	-0.298	0.0	0.0	9492	85.592	85.030	-0.298	0.0	0.0
9450	85.592	85.030	-0.298	0.0	0.0	9494	85.592	85.030	-0.298	0.0	0.0
9452	85.592	85.030	-0.298	0.0	0.0	9496	85.592	85.030	-0.298	0.0	0.0
9454	85.592	85.030	-0.298	0.0	0.0	9498	85.592	85.030	-0.298	0.0	0.0
9456	85.592	85.030	-0.298	0.0	0.0	9500	85.592	85.030	-0.298	0.0	0.0
9458	85.592	85.030	-0.298	0.0	0.0	9502	85.592	85.030	-0.298	0.0	0.0
9460	85.592	85.030	-0.298	0.0	0.0	9504	85.592	85.030	-0.298	0.0	0.0
9462	85.592	85.030	-0.298	0.0	0.0	9506	85.592	85.030	-0.298	0.0	0.0
9464	85.592	85.030	-0.298	0.0	0.0	9508	85.592	85.030	-0.298	0.0	0.0
9466	85.592	85.030	-0.298	0.0	0.0	9510	85.592	85.030	-0.298	0.0	0.0
9468	85.592	85.030	-0.298	0.0	0.0	9512	85.592	85.030	-0.298	0.0	0.0
9470	85.592	85.030	-0.298	0.0	0.0	9514	85.592	85.030	-0.298	0.0	0.0
9472	85.592	85.030	-0.298	0.0	0.0	9516	85.592	85.030	-0.298	0.0	0.0
9474	85.592	85.030	-0.298	0.0	0.0	9518	85.592	85.030	-0.298	0.0	0.0
9476	85.592	85.030	-0.298	0.0	0.0	9520	85.592	85.030	-0.298	0.0	0.0

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Innovyze	Network 2018.1.1	


Flows and Levels for Pipe 8.016 US/MH S2.53 FC (SW 02)
1440 minute 100 year Winter
Average Rainfall Intensity 3.462 mm/hr (4 of 4)

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)
9522	85.592	85.030	-0.298	0.0	0.0	9566	85.592	85.030	-0.298	0.0	0.0
9524	85.592	85.030	-0.298	0.0	0.0	9568	85.592	85.030	-0.298	0.0	0.0
9526	85.592	85.030	-0.298	0.0	0.0	9570	85.592	85.030	-0.298	0.0	0.0
9528	85.592	85.030	-0.298	0.0	0.0	9572	85.592	85.030	-0.298	0.0	0.0
9530	85.592	85.030	-0.298	0.0	0.0	9574	85.592	85.030	-0.298	0.0	0.0
9532	85.592	85.030	-0.298	0.0	0.0	9576	85.592	85.030	-0.298	0.0	0.0
9534	85.592	85.030	-0.298	0.0	0.0	9578	85.592	85.030	-0.298	0.0	0.0
9536	85.592	85.030	-0.298	0.0	0.0	9580	85.592	85.030	-0.298	0.0	0.0
9538	85.592	85.030	-0.298	0.0	0.0	9582	85.592	85.030	-0.298	0.0	0.0
9540	85.592	85.030	-0.298	0.0	0.0	9584	85.592	85.030	-0.298	0.0	0.0
9542	85.592	85.030	-0.298	0.0	0.0	9586	85.592	85.030	-0.298	0.0	0.0
9544	85.592	85.030	-0.298	0.0	0.0	9588	85.592	85.030	-0.298	0.0	0.0
9546	85.592	85.030	-0.298	0.0	0.0	9590	85.592	85.030	-0.298	0.0	0.0
9548	85.592	85.030	-0.298	0.0	0.0	9592	85.592	85.030	-0.298	0.0	0.0
9550	85.592	85.030	-0.298	0.0	0.0	9594	85.592	85.030	-0.298	0.0	0.0
9552	85.592	85.030	-0.298	0.0	0.0	9596	85.592	85.030	-0.298	0.0	0.0
9554	85.592	85.030	-0.298	0.0	0.0	9598	85.592	85.030	-0.298	0.0	0.0
9556	85.592	85.030	-0.298	0.0	0.0	9600	85.592	85.030	-0.298	0.0	0.0
9558	85.592	85.030	-0.298	0.0	0.0	9602	85.592	85.030	-0.298	0.0	0.0
9560	85.592	85.030	-0.298	0.0	0.0	9604	85.592	85.030	-0.298	0.0	0.0
9562	85.592	85.030	-0.298	0.0	0.0	9606	85.592	85.030	-0.298	0.0	0.0
9564	85.592	85.030	-0.298	0.0	0.0	9608	85.592	85.030	-0.298	0.0	0.0

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Innovyze	Network 2018.1.1	


Flows and Levels for Pipe 8.016 US/MH S2.53 FC (SW 02)
1440 minute 100 year Winter
Average Rainfall Intensity 3.462 mm/hr (4 of 4)

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)
9610	85.592	85.030	-0.298	0.0	0.0	9654	85.592	85.030	-0.298	0.0	0.0
9612	85.592	85.030	-0.298	0.0	0.0	9656	85.592	85.030	-0.298	0.0	0.0
9614	85.592	85.030	-0.298	0.0	0.0	9658	85.592	85.030	-0.298	0.0	0.0
9616	85.592	85.030	-0.298	0.0	0.0	9660	85.592	85.030	-0.298	0.0	0.0
9618	85.592	85.030	-0.298	0.0	0.0	9662	85.592	85.030	-0.298	0.0	0.0
9620	85.592	85.030	-0.298	0.0	0.0	9664	85.592	85.030	-0.298	0.0	0.0
9622	85.592	85.030	-0.298	0.0	0.0	9666	85.592	85.030	-0.298	0.0	0.0
9624	85.592	85.030	-0.298	0.0	0.0	9668	85.592	85.030	-0.298	0.0	0.0
9626	85.592	85.030	-0.298	0.0	0.0	9670	85.592	85.030	-0.298	0.0	0.0
9628	85.592	85.030	-0.298	0.0	0.0	9672	85.592	85.030	-0.298	0.0	0.0
9630	85.592	85.030	-0.298	0.0	0.0	9674	85.592	85.030	-0.298	0.0	0.0
9632	85.592	85.030	-0.298	0.0	0.0	9676	85.592	85.030	-0.298	0.0	0.0
9634	85.592	85.030	-0.298	0.0	0.0	9678	85.592	85.030	-0.298	0.0	0.0
9636	85.592	85.030	-0.298	0.0	0.0	9680	85.592	85.030	-0.298	0.0	0.0
9638	85.592	85.030	-0.298	0.0	0.0	9682	85.592	85.030	-0.298	0.0	0.0
9640	85.592	85.030	-0.298	0.0	0.0	9684	85.592	85.030	-0.298	0.0	0.0
9642	85.592	85.030	-0.298	0.0	0.0	9686	85.592	85.030	-0.298	0.0	0.0
9644	85.592	85.030	-0.298	0.0	0.0	9688	85.592	85.030	-0.298	0.0	0.0
9646	85.592	85.030	-0.298	0.0	0.0	9690	85.592	85.030	-0.298	0.0	0.0
9648	85.592	85.030	-0.298	0.0	0.0	9692	85.592	85.030	-0.298	0.0	0.0
9650	85.592	85.030	-0.298	0.0	0.0	9694	85.592	85.030	-0.298	0.0	0.0
9652	85.592	85.030	-0.298	0.0	0.0	9696	85.592	85.030	-0.298	0.0	0.0

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Innovyze	Network 2018.1.1	


Flows and Levels for Pipe 8.016 US/MH S2.53 FC (SW 02)
1440 minute 100 year Winter
Average Rainfall Intensity 3.462 mm/hr (4 of 4)

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)
9698	85.592	85.030	-0.298	0.0	0.0	9742	85.592	85.030	-0.298	0.0	0.0
9700	85.592	85.030	-0.298	0.0	0.0	9744	85.592	85.030	-0.298	0.0	0.0
9702	85.592	85.030	-0.298	0.0	0.0	9746	85.592	85.030	-0.298	0.0	0.0
9704	85.592	85.030	-0.298	0.0	0.0	9748	85.592	85.030	-0.298	0.0	0.0
9706	85.592	85.030	-0.298	0.0	0.0	9750	85.592	85.030	-0.298	0.0	0.0
9708	85.592	85.030	-0.298	0.0	0.0	9752	85.592	85.030	-0.298	0.0	0.0
9710	85.592	85.030	-0.298	0.0	0.0	9754	85.592	85.030	-0.298	0.0	0.0
9712	85.592	85.030	-0.298	0.0	0.0	9756	85.592	85.030	-0.298	0.0	0.0
9714	85.592	85.030	-0.298	0.0	0.0	9758	85.592	85.030	-0.298	0.0	0.0
9716	85.592	85.030	-0.298	0.0	0.0	9760	85.592	85.030	-0.298	0.0	0.0
9718	85.592	85.030	-0.298	0.0	0.0	9762	85.592	85.030	-0.298	0.0	0.0
9720	85.592	85.030	-0.298	0.0	0.0	9764	85.592	85.030	-0.298	0.0	0.0
9722	85.592	85.030	-0.298	0.0	0.0	9766	85.592	85.030	-0.298	0.0	0.0
9724	85.592	85.030	-0.298	0.0	0.0	9768	85.592	85.030	-0.298	0.0	0.0
9726	85.592	85.030	-0.298	0.0	0.0	9770	85.592	85.030	-0.298	0.0	0.0
9728	85.592	85.030	-0.298	0.0	0.0	9772	85.592	85.030	-0.298	0.0	0.0
9730	85.592	85.030	-0.298	0.0	0.0	9774	85.592	85.030	-0.298	0.0	0.0
9732	85.592	85.030	-0.298	0.0	0.0	9776	85.592	85.030	-0.298	0.0	0.0
9734	85.592	85.030	-0.298	0.0	0.0	9778	85.592	85.030	-0.298	0.0	0.0
9736	85.592	85.030	-0.298	0.0	0.0	9780	85.592	85.030	-0.298	0.0	0.0
9738	85.592	85.030	-0.298	0.0	0.0	9782	85.592	85.030	-0.298	0.0	0.0
9740	85.592	85.030	-0.298	0.0	0.0	9784	85.592	85.030	-0.298	0.0	0.0

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Innovyze	Network 2018.1.1	


Flows and Levels for Pipe 8.016 US/MH S2.53 FC (SW 02)
1440 minute 100 year Winter
Average Rainfall Intensity 3.462 mm/hr (4 of 4)

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)
9786	85.592	85.030	-0.298	0.0	0.0	9830	85.592	85.030	-0.298	0.0	0.0
9788	85.592	85.030	-0.298	0.0	0.0	9832	85.592	85.030	-0.298	0.0	0.0
9790	85.592	85.030	-0.298	0.0	0.0	9834	85.592	85.030	-0.298	0.0	0.0
9792	85.592	85.030	-0.298	0.0	0.0	9836	85.592	85.030	-0.298	0.0	0.0
9794	85.592	85.030	-0.298	0.0	0.0	9838	85.592	85.030	-0.298	0.0	0.0
9796	85.592	85.030	-0.298	0.0	0.0	9840	85.592	85.030	-0.298	0.0	0.0
9798	85.592	85.030	-0.298	0.0	0.0	9842	85.592	85.030	-0.298	0.0	0.0
9800	85.592	85.030	-0.298	0.0	0.0	9844	85.592	85.030	-0.298	0.0	0.0
9802	85.592	85.030	-0.298	0.0	0.0	9846	85.592	85.030	-0.298	0.0	0.0
9804	85.592	85.030	-0.298	0.0	0.0	9848	85.592	85.030	-0.298	0.0	0.0
9806	85.592	85.030	-0.298	0.0	0.0	9850	85.592	85.030	-0.298	0.0	0.0
9808	85.592	85.030	-0.298	0.0	0.0	9852	85.592	85.030	-0.298	0.0	0.0
9810	85.592	85.030	-0.298	0.0	0.0	9854	85.592	85.030	-0.298	0.0	0.0
9812	85.592	85.030	-0.298	0.0	0.0	9856	85.592	85.030	-0.298	0.0	0.0
9814	85.592	85.030	-0.298	0.0	0.0	9858	85.592	85.030	-0.298	0.0	0.0
9816	85.592	85.030	-0.298	0.0	0.0	9860	85.592	85.030	-0.298	0.0	0.0
9818	85.592	85.030	-0.298	0.0	0.0	9862	85.592	85.030	-0.298	0.0	0.0
9820	85.592	85.030	-0.298	0.0	0.0	9864	85.592	85.030	-0.298	0.0	0.0
9822	85.592	85.030	-0.298	0.0	0.0	9866	85.592	85.030	-0.298	0.0	0.0
9824	85.592	85.030	-0.298	0.0	0.0	9868	85.592	85.030	-0.298	0.0	0.0
9826	85.592	85.030	-0.298	0.0	0.0	9870	85.592	85.030	-0.298	0.0	0.0
9828	85.592	85.030	-0.298	0.0	0.0	9872	85.592	85.030	-0.298	0.0	0.0

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Innovyze	Network 2018.1.1	


Flows and Levels for Pipe 8.016 US/MH S2.53 FC (SW 02)
1440 minute 100 year Winter
Average Rainfall Intensity 3.462 mm/hr (4 of 4)

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)
9874	85.592	85.030	-0.298	0.0	0.0	9918	85.592	85.030	-0.298	0.0	0.0
9876	85.592	85.030	-0.298	0.0	0.0	9920	85.592	85.030	-0.298	0.0	0.0
9878	85.592	85.030	-0.298	0.0	0.0	9922	85.592	85.030	-0.298	0.0	0.0
9880	85.592	85.030	-0.298	0.0	0.0	9924	85.592	85.030	-0.298	0.0	0.0
9882	85.592	85.030	-0.298	0.0	0.0	9926	85.592	85.030	-0.298	0.0	0.0
9884	85.592	85.030	-0.298	0.0	0.0	9928	85.592	85.030	-0.298	0.0	0.0
9886	85.592	85.030	-0.298	0.0	0.0	9930	85.592	85.030	-0.298	0.0	0.0
9888	85.592	85.030	-0.298	0.0	0.0	9932	85.592	85.030	-0.298	0.0	0.0
9890	85.592	85.030	-0.298	0.0	0.0	9934	85.592	85.030	-0.298	0.0	0.0
9892	85.592	85.030	-0.298	0.0	0.0	9936	85.592	85.030	-0.298	0.0	0.0
9894	85.592	85.030	-0.298	0.0	0.0	9938	85.592	85.030	-0.298	0.0	0.0
9896	85.592	85.030	-0.298	0.0	0.0	9940	85.592	85.030	-0.298	0.0	0.0
9898	85.592	85.030	-0.298	0.0	0.0	9942	85.592	85.030	-0.298	0.0	0.0
9900	85.592	85.030	-0.298	0.0	0.0	9944	85.592	85.030	-0.298	0.0	0.0
9902	85.592	85.030	-0.298	0.0	0.0	9946	85.592	85.030	-0.298	0.0	0.0
9904	85.592	85.030	-0.298	0.0	0.0	9948	85.592	85.030	-0.298	0.0	0.0
9906	85.592	85.030	-0.298	0.0	0.0	9950	85.592	85.030	-0.298	0.0	0.0
9908	85.592	85.030	-0.298	0.0	0.0	9952	85.592	85.030	-0.298	0.0	0.0
9910	85.592	85.030	-0.298	0.0	0.0	9954	85.592	85.030	-0.298	0.0	0.0
9912	85.592	85.030	-0.298	0.0	0.0	9956	85.592	85.030	-0.298	0.0	0.0
9914	85.592	85.030	-0.298	0.0	0.0	9958	85.592	85.030	-0.298	0.0	0.0
9916	85.592	85.030	-0.298	0.0	0.0	9960	85.592	85.030	-0.298	0.0	0.0

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Innovyze	Network 2018.1.1	

Flows and Levels for Pipe 8.016 US/MH S2.53 FC (SW 02)
1440 minute 100 year Winter
Average Rainfall Intensity 3.462 mm/hr (4 of 4)

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)
9962	85.592	85.030	-0.298	0.0	0.0	10006	85.592	85.030	-0.298	0.0	0.0
9964	85.592	85.030	-0.298	0.0	0.0	10008	85.592	85.030	-0.298	0.0	0.0
9966	85.592	85.030	-0.298	0.0	0.0	10010	85.592	85.030	-0.298	0.0	0.0
9968	85.592	85.030	-0.298	0.0	0.0	10012	85.592	85.030	-0.298	0.0	0.0
9970	85.592	85.030	-0.298	0.0	0.0	10014	85.592	85.030	-0.298	0.0	0.0
9972	85.592	85.030	-0.298	0.0	0.0	10016	85.592	85.030	-0.298	0.0	0.0
9974	85.592	85.030	-0.298	0.0	0.0	10018	85.592	85.030	-0.298	0.0	0.0
9976	85.592	85.030	-0.298	0.0	0.0	10020	85.592	85.030	-0.298	0.0	0.0
9978	85.592	85.030	-0.298	0.0	0.0	10022	85.592	85.030	-0.298	0.0	0.0
9980	85.592	85.030	-0.298	0.0	0.0	10024	85.592	85.030	-0.298	0.0	0.0
9982	85.592	85.030	-0.298	0.0	0.0	10026	85.592	85.030	-0.298	0.0	0.0
9984	85.592	85.030	-0.298	0.0	0.0	10028	85.592	85.030	-0.298	0.0	0.0
9986	85.592	85.030	-0.298	0.0	0.0	10030	85.592	85.030	-0.298	0.0	0.0
9988	85.592	85.030	-0.298	0.0	0.0	10032	85.592	85.030	-0.298	0.0	0.0
9990	85.592	85.030	-0.298	0.0	0.0	10034	85.592	85.030	-0.298	0.0	0.0
9992	85.592	85.030	-0.298	0.0	0.0	10036	85.592	85.030	-0.298	0.0	0.0
9994	85.592	85.030	-0.298	0.0	0.0	10038	85.592	85.030	-0.298	0.0	0.0
9996	85.592	85.030	-0.298	0.0	0.0	10040	85.592	85.030	-0.298	0.0	0.0
9998	85.592	85.030	-0.298	0.0	0.0	10042	85.592	85.030	-0.298	0.0	0.0
10000	85.592	85.030	-0.298	0.0	0.0	10044	85.592	85.030	-0.298	0.0	0.0
10002	85.592	85.030	-0.298	0.0	0.0	10046	85.592	85.030	-0.298	0.0	0.0
10004	85.592	85.030	-0.298	0.0	0.0	10048	85.592	85.030	-0.298	0.0	0.0

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Innovyze	Network 2018.1.1	

Flows and Levels for Pipe 8.016 US/MH S2.53 FC (SW 02)
1440 minute 100 year Winter
Average Rainfall Intensity 3.462 mm/hr (4 of 4)

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)
10050	85.592	85.030	-0.298	0.0	0.0	10066	85.592	85.030	-0.298	0.0	0.0
10052	85.592	85.030	-0.298	0.0	0.0	10068	85.592	85.030	-0.298	0.0	0.0
10054	85.592	85.030	-0.298	0.0	0.0	10070	85.592	85.030	-0.298	0.0	0.0
10056	85.592	85.030	-0.298	0.0	0.0	10072	85.592	85.030	-0.298	0.0	0.0
10058	85.592	85.030	-0.298	0.0	0.0	10074	85.592	85.030	-0.298	0.0	0.0
10060	85.592	85.030	-0.298	0.0	0.0	10076	85.592	85.030	-0.298	0.0	0.0
10062	85.592	85.030	-0.298	0.0	0.0	10078	85.592	85.030	-0.298	0.0	0.0
10064	85.592	85.030	-0.298	0.0	0.0	10080	85.592	85.030	-0.298	0.0	0.0