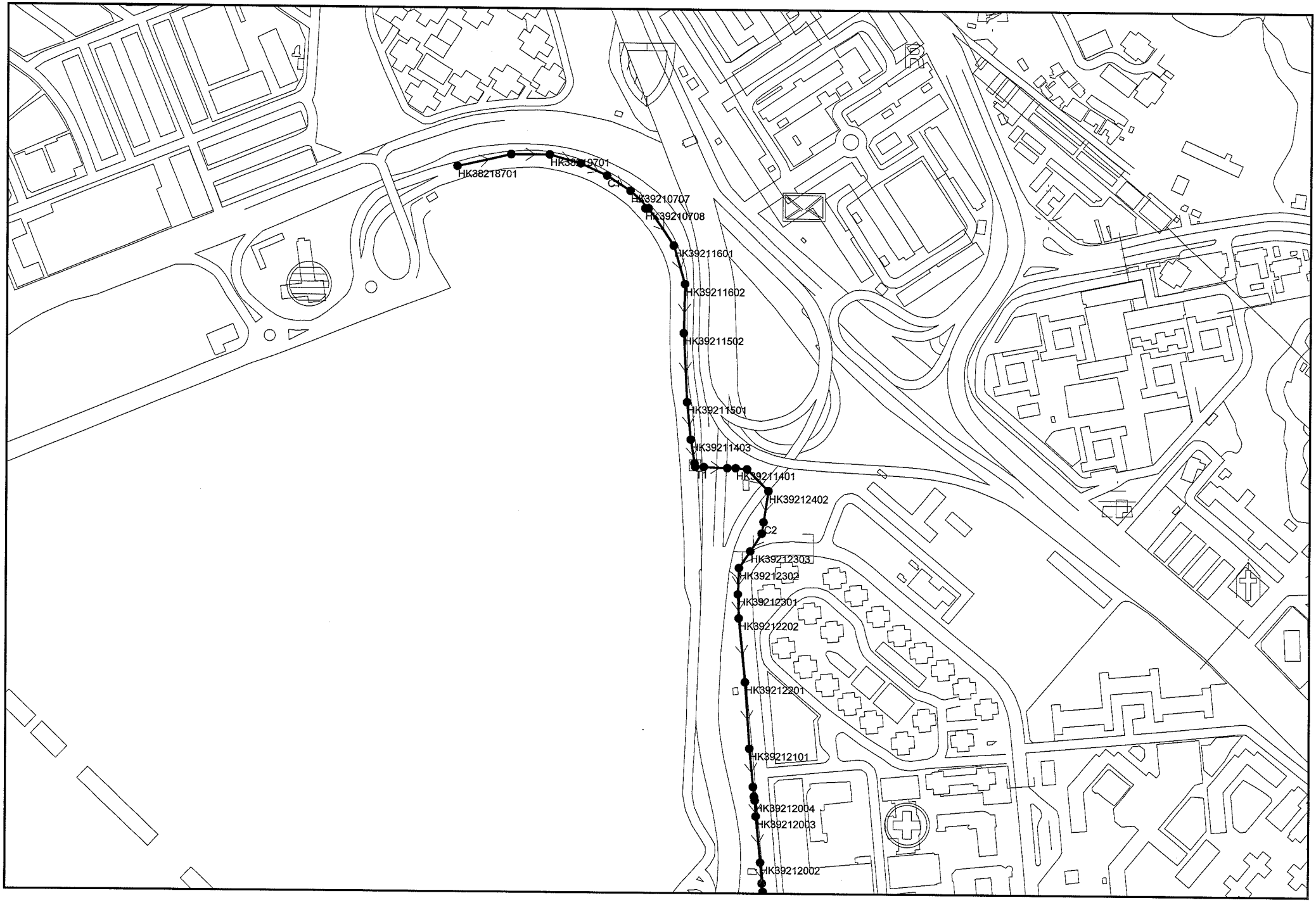
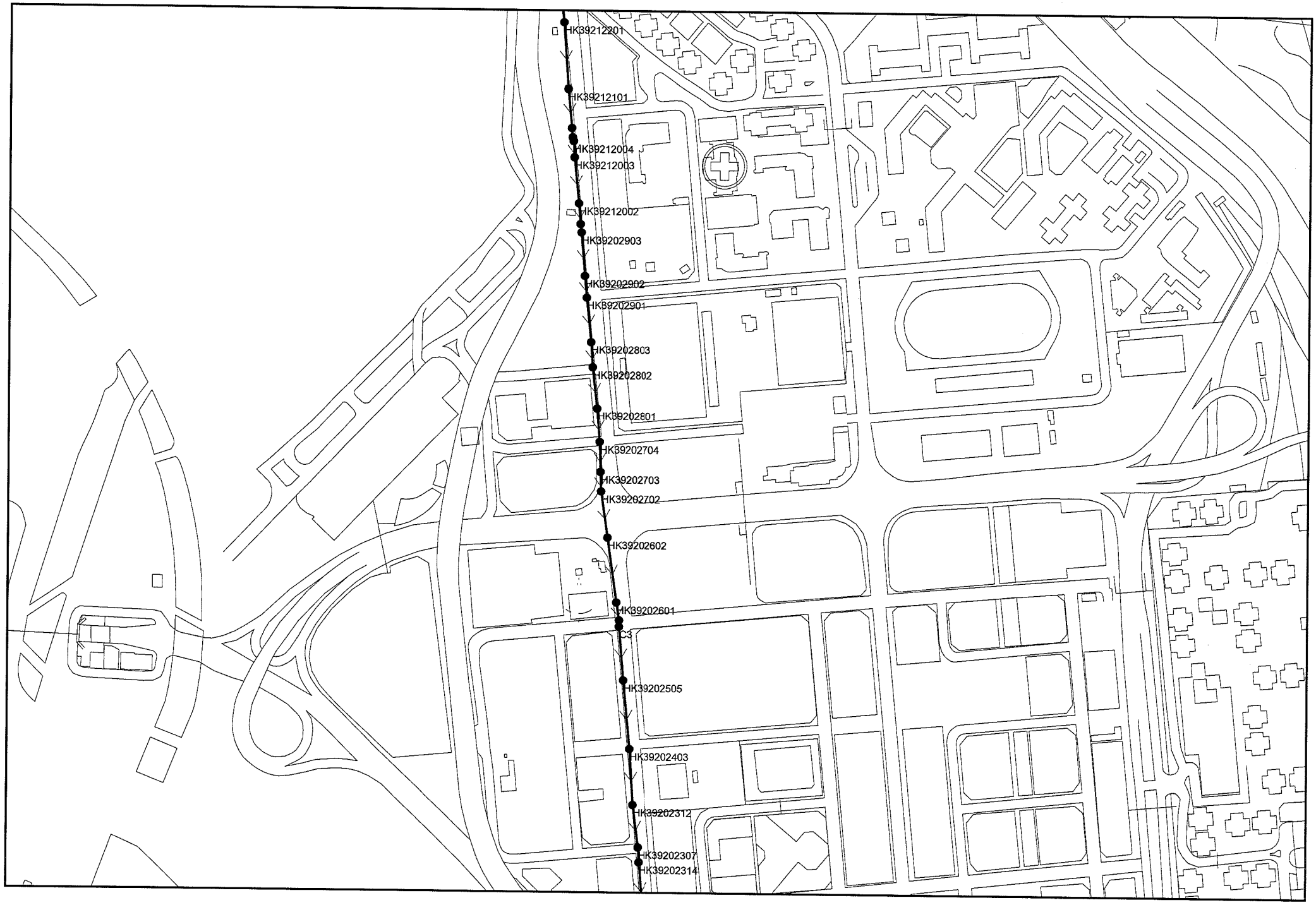
Appendix 16.3

Modelling Results for Hydraulic Assessment of Existing Trunk along Hoi Bun Road

Appendix 16.3A

Modelling Results for Hydraulic Assessment of Existing Trunk along Hoi Bun Road - Model Network


HK38218701
HK38219701
C3
HK39210707
HK39210708
HK39211601
HK39211602
HK39211502
HK39211501
HK39211403
T1
HK39211401
HK39212402
C2
HK39212303
HK39212302
HK39212301
HK39212202
HK39212201
HK39212101
HK39212004
HK39212003
HK39212002


HK39212201
HK39212101
HK39212004
HK39212003
HK39212002
HK39202903
HK39202902
HK39202901
HK39202803
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HK39202801
HK39202704
HK39202703
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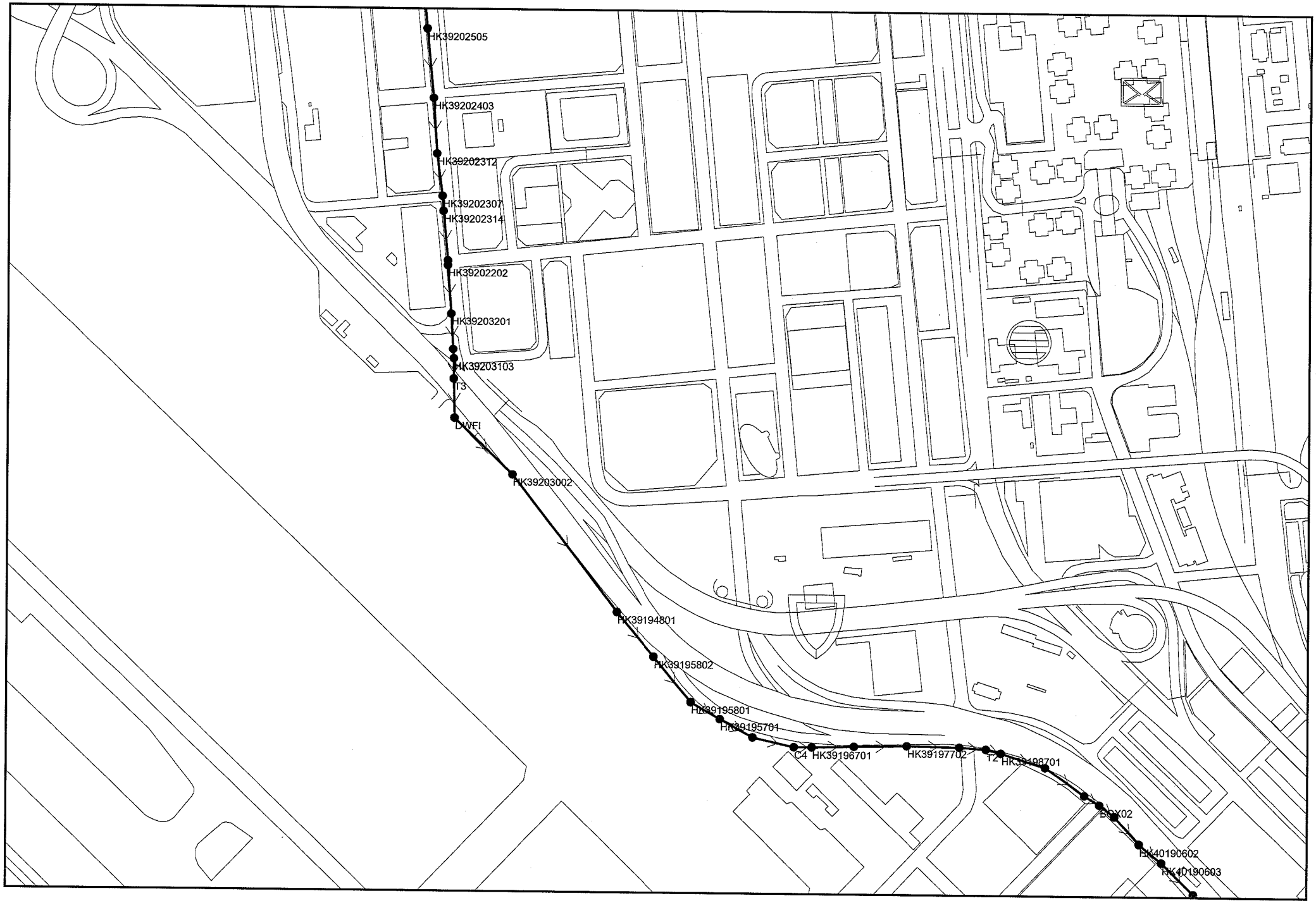
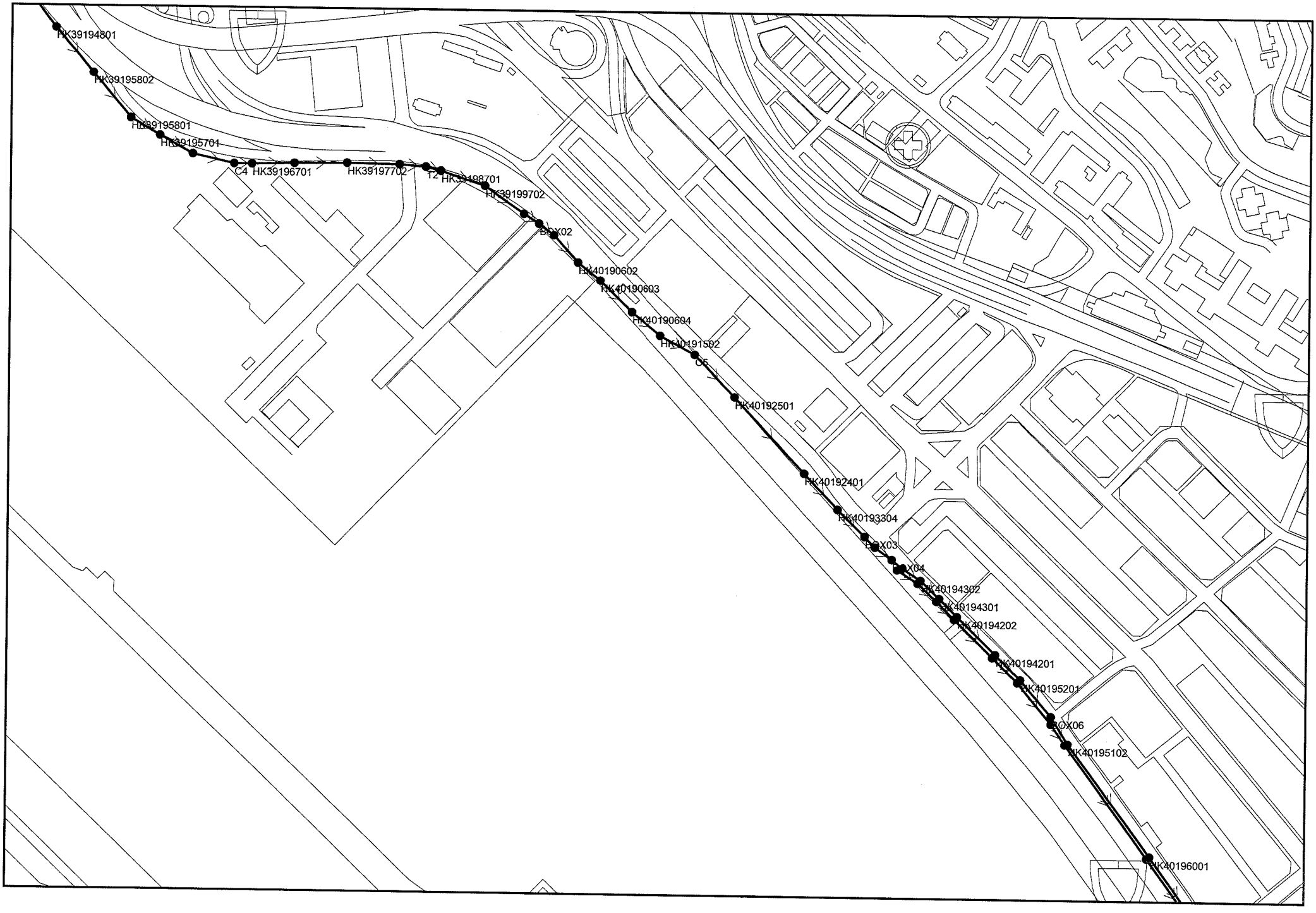
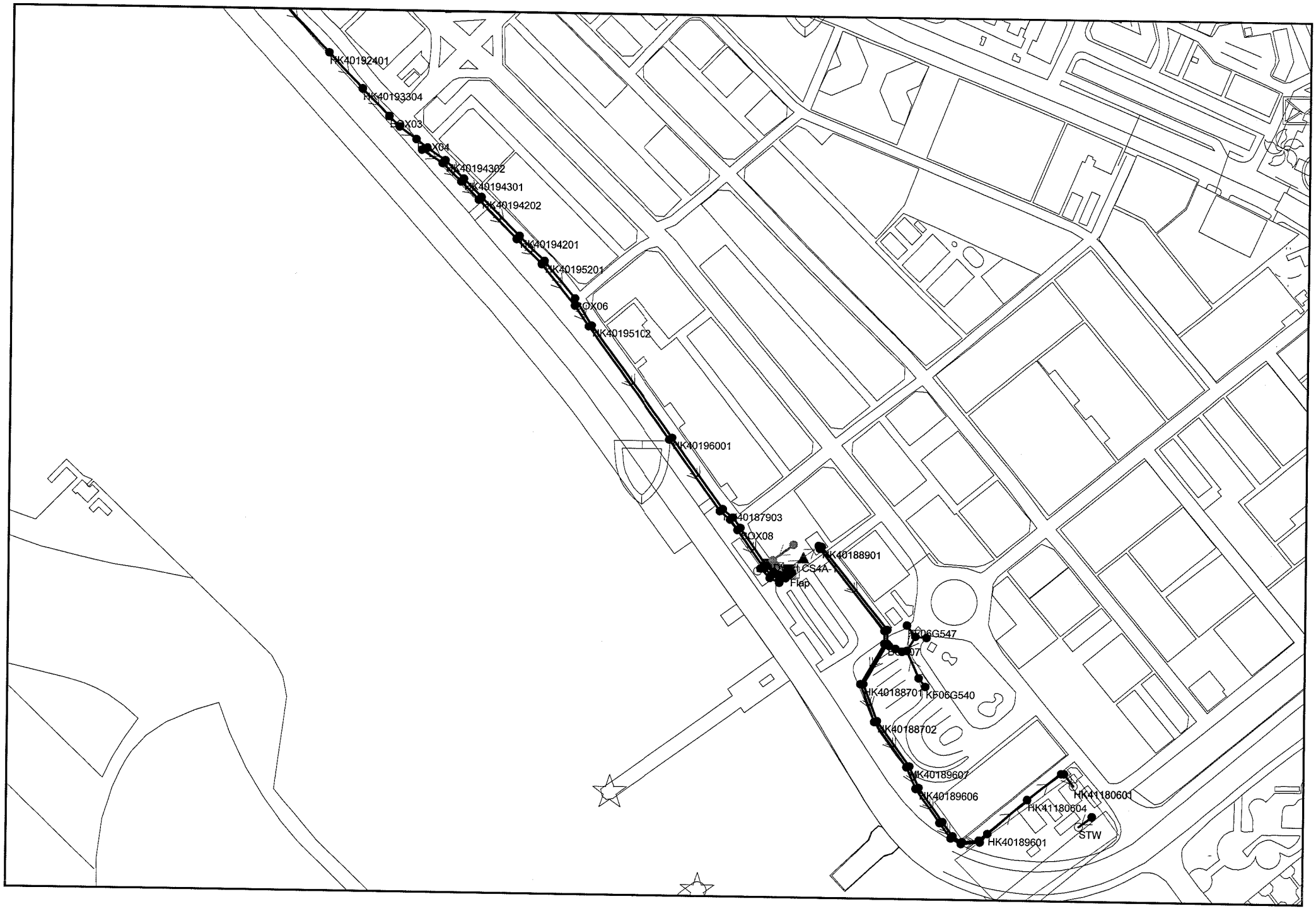
C3
HK39202505
HK39202403
HK39202312
HK39202307
HK39202314


HK39202505
HK39202403
HK39202312
HK39202307
HK39202314
HK39202202
HK39203201
HK39203103
T3
DWFI
HK39203002
HK39194801
HK39195802
HK39195801
HK39195701
C4
HK39196701
HK39197702
T2
HK39198701
BOX02
HK40190602
HK40190603


HK39194801
HK39195802
HK39195801
HK39195701
C4
HK39196701
HK39197702
T2
HK39198701
HK39199702
BOX02
HK40190602
HK40190603
HK40190604
HK40191502
C5
HK40192501
HK40192401
HK40193304
BOX03
X04
HK40194302
HK40194301
HK40194202
HK40194201
HK40195201
BOX06
HK40195102
HK40196001


HK40192401
HK40193304
BOX03
X04
HK40194302
HK40194301
HK40194202
HK40194201
HK40195201
BOX06
HK40195102
HK40196001
HK40187903
BOX08
HK40188901
CS4A
Flap
K06G547
K06G540
HK40188701
HK40188702
HK40189607
HK40189606
HK40189601
HK41180601
HK41180604
STW

Appendix 16.3B

Modelling Results for Hydraulic Assessment of Existing Trunk along Hoi Bun Road - 2016 Scenario Results

Trunk 2016
IDWF

Start of run configured for MS Windows Produced on 23/05/2008 at 20:35

HydroWorks(tm) SIM

Summary results from Simulation

Version 6.1.807 dated June 2006

Licence Number - WS01550002PM

Message 253: Run finished for event 1.

Summary results for event 1 - DWF
Started at 00000000000000. Run for 240.00 min. (Requested simulation time 240.00 min)

Files used:
Network: ...\NET26#3.spb 2016 - ADWF_updated #1 (Revision 3)
State:
Runoff: ...\NET26#3.rpf 2016 - ADWF_updated #1 (Revision 3) (InfoWorks 7.51.13014)
Rainfall:
DWF:
Inflows: ...\SIM157event.qin 1
Levels:
RTC:
Results: ...\SIM157.iwr

Total rainfall = 0.0 m3
Total runoff = 0.0 m3
Total inflow = 50879.6 m3
Total outflow = 40575.6 m3
Total lost = 0.0 m3

********** Node data **********

Node Reference	Ground Level (m AD)	Max Level (m AD)	Flood Volume (m3)	Flood Depth (m)	Flood Area (m2)	Max Stored (m3)	Inflow (m3)	Vol Balance (m3)	Vol Balance (%)
BOX02	4.250	0.168	0.0	0.000	0.0	11.0	0.0	0.000	0.000
BOX03	3.870	-0.545	0.0	0.000	0.0	9.4	0.0	0.000	0.000
BOX04	3.800	-0.603	0.0	0.000	0.0	14.3	0.0	0.000	0.000
BOX05	3.800	-0.622	0.0	0.000	0.0	14.2	0.0	0.000	0.000
BOX06	4.090	-0.907	0.0	0.000	0.0	13.2	0.0	0.000	0.000
BOX07	4.100	1.060	0.0	0.000	0.0	11.7	0.0	0.000	0.000
BOX08	4.000	-1.422	0.0	0.000	0.0	17.2	0.0	0.000	0.000
C1	6.050	2.111	0.0	0.000	0.0	1.7	8066.5	0.000	0.000
C2	5.030	0.965	0.0	0.000	0.0	7.2	9437.1	0.000	0.000
C3	4.910	0.697	0.0	0.000	0.0	8.3	1927.4	0.000	0.000
C4	5.000	0.331	0.0	0.000	0.0	10.4	713.9	0.000	0.000
C5	4.150	0.025	0.0	0.000	0.0	10.9	19873.6	0.000	0.000
DWFI	4.800	0.552	0.0	0.000	0.0	9.3	7138.5	0.000	0.000
DWFI CS4A-1	3.720	0.471	0.0	0.000	0.0	0.2	0.0	0.000	0.000
DWFI CS4A-2	3.720	0.450	0.0	0.000	0.0	0.0	0.0	0.000	0.000
DWFI CS4A-3	3.720	-0.466	0.0	0.000	0.0	0.1	0.0	0.000	0.000
FLAP	4.000	0.658	0.0	0.000	0.0	1.5	0.0	0.000	0.000
HK38218701	5.470	2.891	0.0	0.000	0.0	0.2	0.0	0.000	0.000
HK38219701	6.060	2.599	0.0	0.000	0.0	0.2	0.0	0.000	0.000
HK38219702	5.752	2.749	0.0	0.000	0.0	0.3	0.0	0.000	0.000
HK39194801	5.950	0.462	0.0	0.000	0.0	9.8	0.0	0.000	0.000
HK39195701	5.400	0.375	0.0	0.000	0.0	10.2	0.0	0.000	0.000
HK39195801	5.750	0.394	0.0	0.000	0.0	10.2	0.0	0.000	0.000
HK39195802	5.850	0.428	0.0	0.000	0.0	10.1	0.0	0.000	0.000
HK39196701	4.990	0.320	0.0	0.000	0.0	10.5	0.0	0.000	0.000
HK39196703	5.000	0.354	0.0	0.000	0.0	10.3	0.0	0.000	0.000
HK39197701	4.500	0.298	0.0	0.000	0.0	10.7	0.0	0.000	0.000
HK39197702	4.390	0.274	0.0	0.000	0.0	11.1	0.0	0.000	0.000
HK39198701	4.250	0.228	0.0	0.000	0.0	11.0	0.0	0.000	0.000
HK39198703	4.400	0.249	0.0	0.000	0.0	11.1	0.0	0.000	0.000
HK39199701	4.290	0.178	0.0	0.000	0.0	11.1	0.0	0.000	0.000
HK39199702	4.300	0.203	0.0	0.000	0.0	11.0	0.0	0.000	0.000
HK39202202	4.400	0.594	0.0	0.000	0.0	8.9	0.0	0.000	0.000
HK39202203	4.150	0.596	0.0	0.000	0.0	8.9	0.0	0.000	0.000
HK39202307	4.300	0.609	0.0	0.000	0.0	8.6	0.0	0.000	0.000
HK39202312	4.500	0.619	0.0	0.000	0.0	8.6	0.0	0.000	0.000
HK39202314	4.387	0.606	0.0	0.000	0.0	9.6	0.0	0.000	0.000
HK39202403	4.700	0.631	0.0	0.000	0.0	8.3	0.0	0.000	0.000
HK39202505	4.900	0.649	0.0	0.000	0.0	8.1	0.0	0.000	0.000

HK39202507	4.910	0.702	0.0	0.000	0.0	8.4	0.0	0.000	0.000
HK39202601	4.900	0.714	0.0	0.000	0.0	8.4	0.0	0.000	0.000
HK39202602	5.100	0.759	0.0	0.000	0.0	8.4	0.0	0.000	0.000
HK39202702	5.150	0.769	0.0	0.000	0.0	8.4	0.0	0.000	0.000
HK39202703	5.200	0.783	0.0	0.000	0.0	8.3	0.0	0.000	0.000
HK39202704	4.780	0.804	0.0	0.000	0.0	8.3	0.0	0.000	0.000
HK39202801	5.200	0.827	0.0	0.000	0.0	8.4	0.0	0.000	0.000
HK39202802	4.990	0.835	0.0	0.000	0.0	8.2	0.0	0.000	0.000
HK39202803	5.350	0.841	0.0	0.000	0.0	8.2	0.0	0.000	0.000
HK39202901	4.750	0.850	0.0	0.000	0.0	8.0	0.0	0.000	0.000
HK39202902	4.850	0.855	0.0	0.000	0.0	7.9	0.0	0.000	0.000
HK39202903	4.850	0.865	0.0	0.000	0.0	8.0	0.0	0.000	0.000
HK39203002	4.900	0.490	0.0	0.000	0.0	9.2	0.0	0.000	0.000
HK39203103	5.300	0.577	0.0	0.000	0.0	9.1	0.0	0.000	0.000

Node Reference	Ground Level (m AD)	Max Level (m AD)	Flood Volume (m3)	Flood Depth (m)	Flood Area (m2)	Max Stored (m3)	Inflow (m3)	Vol Balance (m3)	Vol Balance (%)
HK39203104	5.000	0.578	0.0	0.000	0.0	9.1	0.0	0.000	0.000
HK39203201	4.200	0.585	0.0	0.000	0.0	8.9	0.0	0.000	0.000
HK39210705	6.270	2.509	0.0	0.000	0.0	0.2	0.0	0.000	0.000
HK39210707	6.020	1.867	0.0	0.000	0.0	1.6	0.0	0.000	0.000
HK39210708	5.640	2.091	0.0	0.000	0.0	0.1	0.0	0.000	0.000
HK39211401	5.130	0.969	0.0	0.000	0.0	7.9	0.0	0.000	0.000
HK39211403	4.240	1.001	0.0	0.000	0.0	3.6	0.0	0.000	0.000
HK39211404	4.900	0.975	0.0	0.000	0.0	15.9	0.0	0.000	0.000
HK39211405	5.070	0.970	0.0	0.000	0.0	16.3	0.0	0.000	0.000
HK39211499	4.070	0.997	0.0	0.000	0.0	4.0	0.0	0.000	0.000
HK39211501	4.480	1.013	0.0	0.000	0.0	3.3	0.0	0.000	0.000
HK39211502	4.320	1.054	0.0	0.000	0.0	2.8	0.0	0.000	0.000
HK39211601	5.430	1.220	0.0	0.000	0.0	2.2	0.0	0.000	0.000
HK39211602	5.470	1.122	0.0	0.000	0.0	2.2	0.0	0.000	0.000
HK39211706	5.790	1.657	0.0	0.000	0.0	1.8	0.0	0.000	0.000
HK39212001	4.850	0.867	0.0	0.000	0.0	7.8	0.0	0.000	0.000
HK39212002	4.850	0.872	0.0	0.000	0.0	7.7	0.0	0.000	0.000
HK39212003	5.150	0.884	0.0	0.000	0.0	7.7	0.0	0.000	0.000
HK39212004	4.950	0.888	0.0	0.000	0.0	7.6	0.0	0.000	0.000
HK39212005	4.950	0.889	0.0	0.000	0.0	7.6	0.0	0.000	0.000
HK39212101	5.000	0.895	0.0	0.000	0.0	15.7	0.0	0.000	0.000
HK39212108	4.950	0.892	0.0	0.000	0.0	16.1	0.0	0.000	0.000
HK39212201	5.550	0.914	0.0	0.000	0.0	7.3	0.0	0.000	0.000
HK39212202	5.330	0.935	0.0	0.000	0.0	7.1	0.0	0.000	0.000
HK39212301	5.150	0.943	0.0	0.000	0.0	18.1	0.0	0.000	0.000
HK39212302	5.150	0.945	0.0	0.000	0.0	17.9	0.0	0.000	0.000
HK39212303	5.150	0.952	0.0	0.000	0.0	6.9	0.0	0.000	0.000
HK39212304	5.150	0.960	0.0	0.000	0.0	7.2	0.0	0.000	0.000
HK39212402	5.100	0.967	0.0	0.000	0.0	7.1	0.0	0.000	0.000
HK39212404	5.100	0.968	0.0	0.000	0.0	7.1	0.0	0.000	0.000
HK40187802	3.750	-1.556	0.0	0.000	0.0	10.4	0.0	0.000	0.000
HK40187803	3.750	-1.522	0.0	0.000	0.0	10.7	0.0	0.000	0.000
HK40187804	3.750	-1.482	0.0	0.000	0.0	16.9	0.0	0.000	0.000
HK40187890	3.850	-1.598	0.0	0.000	0.0	3.3	0.0	0.000	0.000
HK40187891	3.850	0.600	0.0	0.000	0.0	0.0	0.0	0.000	0.000
HK40187892	3.800	0.604	0.0	0.000	0.0	1.5	0.0	0.000	0.000
HK40187893	3.800	-1.396	0.0	0.000	0.0	1.5	0.0	0.000	0.000
HK40187895	3.750	0.384	0.0	0.000	0.0	0.8	0.0	0.000	0.000
HK40187896	3.750	0.454	0.0	0.000	0.0	0.8	0.0	0.000	0.000
HK40187897	3.800	0.600	0.0	0.000	0.0	0.1	0.0	0.000	0.000
HK40187898	3.800	-1.598	0.0	0.000	0.0	3.0	0.0	0.000	0.000

HK40187899	3.800	-1.595	0.0	0.000	0.0	3.0	0.0	0.000	0.000
HK40187902	3.800	-1.385	0.0	0.000	0.0	11.4	0.0	0.000	0.000
HK40187903	3.800	-1.342	0.0	0.000	0.0	11.8	0.0	0.000	0.000
HK40187995	3.800	-1.589	0.0	0.000	0.0	2.9	0.0	0.000	0.000
HK40187997	3.800	-1.573	0.0	0.000	0.0	1.2	0.0	0.000	0.000
HK40187998	3.800	-1.562	0.0	0.000	0.0	1.2	0.0	0.000	0.000
HK40187999	3.800	-1.557	0.0	0.000	0.0	1.1	0.0	0.000	0.000
HK40188701	4.300	0.955	0.0	0.000	0.0	10.8	0.0	0.000	0.000
HK40188702	4.200	0.837	0.0	0.000	0.0	9.8	0.0	0.000	0.000
HK40188798	4.200	1.083	0.0	0.000	0.0	4.1	0.0	0.000	0.000
HK40188799	4.300	1.126	0.0	0.000	0.0	4.1	0.0	0.000	0.000
HK40188802	4.100	1.087	0.0	0.000	0.0	11.8	0.0	0.000	0.000

Node Reference	Ground Level (m AD)	Max Level (m AD)	Flood Volume (m3)	Flood Depth (m)	Flood Area (m2)	Max Stored (m3)	Inflow (m3)	Vol Balance (m3)	Vol Balance (%)
HK40188898	4.100	1.174	0.0	0.000	0.0	4.2	0.0	0.000	0.000
HK40188899	4.100	1.189	0.0	0.000	0.0	4.2	0.0	0.000	0.000
HK40188901	3.900	1.241	0.0	0.000	0.0	12.8	0.0	0.000	0.000
HK40188902	3.900	1.292	0.0	0.000	0.0	148.5	0.0	0.000	0.000
HK40188999	3.900	1.291	0.0	0.000	0.0	4.5	0.0	0.000	0.000
HK40189601	4.460	0.676	0.0	0.000	0.0	9.4	0.0	0.000	0.000
HK40189602	3.740	0.686	0.0	0.000	0.0	9.4	0.0	0.000	0.000
HK40189603	3.740	0.701	0.0	0.000	0.0	9.4	0.0	0.000	0.000
HK40189604	3.740	0.712	0.0	0.000	0.0	9.5	0.0	0.000	0.000
HK40189605	3.740	0.727	0.0	0.000	0.0	9.5	0.0	0.000	0.000
HK40189606	4.150	0.764	0.0	0.000	0.0	9.6	0.0	0.000	0.000
HK40189607	4.150	0.787	0.0	0.000	0.0	9.7	0.0	0.000	0.000
HK40189694	3.740	0.782	0.0	0.000	0.0	2.9	0.0	0.000	0.000
HK40189695	3.740	0.843	0.0	0.000	0.0	3.2	0.0	0.000	0.000
HK40189696	3.740	0.874	0.0	0.000	0.0	3.3	0.0	0.000	0.000
HK40189697	3.740	0.913	0.0	0.000	0.0	3.5	0.0	0.000	0.000
HK40189698	4.150	0.984	0.0	0.000	0.0	3.8	0.0	0.000	0.000
HK40189699	4.150	1.016	0.0	0.000	0.0	3.9	0.0	0.000	0.000
HK40190601	4.150	0.158	0.0	0.000	0.0	11.0	0.0	0.000	0.000
HK40190602	4.150	0.138	0.0	0.000	0.0	11.0	0.0	0.000	0.000
HK40190603	4.150	0.116	0.0	0.000	0.0	10.9	0.0	0.000	0.000
HK40190604	4.150	0.083	0.0	0.000	0.0	10.9	0.0	0.000	0.000
HK40191502	4.290	0.055	0.0	0.000	0.0	10.8	0.0	0.000	0.000
HK40192401	4.150	-0.220	0.0	0.000	0.0	9.9	0.0	0.000	0.000
HK40192501	4.290	-0.106	0.0	0.000	0.0	10.4	0.0	0.000	0.000
HK40193304	4.150	-0.401	0.0	0.000	0.0	8.6	0.0	0.000	0.000
HK40193305	3.800	-0.673	0.0	0.000	0.0	0.1	0.0	0.000	0.000
HK40194201	3.800	-0.800	0.0	0.000	0.0	13.7	0.0	0.000	0.000
HK40194202	3.800	-0.722	0.0	0.000	0.0	13.9	0.0	0.000	0.000
HK40194298	3.800	-1.001	0.0	0.000	0.0	0.1	0.0	0.000	0.000
HK40194299	3.800	-0.892	0.0	0.000	0.0	0.1	0.0	0.000	0.000
HK40194301	3.800	-0.687	0.0	0.000	0.0	14.3	0.0	0.000	0.000
HK40194302	3.760	-0.653	0.0	0.000	0.0	14.1	0.0	0.000	0.000
HK40194398	3.800	-0.796	0.0	0.000	0.0	0.1	0.0	0.000	0.000
HK40194399	3.760	-0.718	0.0	0.000	0.0	0.1	0.0	0.000	0.000
HK40195102	3.900	-0.933	0.0	0.000	0.0	13.6	0.0	0.000	0.000
HK40195198	3.900	-1.217	0.0	0.000	0.0	0.3	0.0	0.000	0.000
HK40195199	3.800	-1.172	0.0	0.000	0.0	0.2	0.0	0.000	0.000
HK40195201	3.800	-0.853	0.0	0.000	0.0	13.5	0.0	0.000	0.000
HK40195299	3.800	-1.129	0.0	0.000	0.0	0.1	0.0	0.000	0.000
HK40196001	3.840	-1.160	0.0	0.000	0.0	12.8	0.0	0.000	0.000

HK40196099	3.840	-1.323	0.0	0.000	0.0	0.3	0.0	0.000	0.000
HK41180602	4.200	0.266	0.0	0.000	0.0	6.7	0.0	0.000	0.000
HK41180603	4.200	0.389	0.0	0.000	0.0	8.1	0.0	0.000	0.000
HK41180604	4.018	0.530	0.0	0.000	0.0	8.5	0.0	0.000	0.000
KEI YIP ST STORM DRAIN	4.100	0.591	0.0	0.000	0.0	0.2	0.0	0.000	0.000
KF06G540	4.310	3.281	0.0	0.000	0.0	0.0	0.0	0.000	0.000
KF06G541	4.110	3.167	0.0	0.000	0.0	0.0	0.0	0.000	0.000
KF06G542	4.040	2.859	0.0	0.000	0.0	0.0	0.0	0.000	0.000
KF06G543	4.060	2.824	0.0	0.000	0.0	0.0	0.0	0.000	0.000
KF06G544	4.090	2.525	0.0	0.000	0.0	0.0	0.0	0.000	0.000
KF06G545	4.170	2.336	0.0	0.000	0.0	0.0	0.0	0.000	0.000
KF06G547	4.100	3.142	0.0	0.000	0.0	0.0	0.0	0.000	0.000

Node Reference	Ground Level (m AD)	Max Level (m AD)	Flood Volume (m3)	Flood Depth (m)	Flood Area (m2)	Max Stored (m3)	Inflow (m3)	Vol Balance (m3)	Vol Balance (%)
KF06G548	4.450	3.114	0.0	0.000	0.0	0.0	0.0	0.000	0.000
KF06G549	4.180	3.290	0.0	0.000	0.0	0.0	0.0	0.000	0.000
KF0702CN4	3.860	-0.576	0.0	0.000	0.0	13.5	0.0	0.000	0.000
KT_PS	3.740	-1.599	0.0	0.000	0.0	463.0	0.0	0.000	0.000
STW01	4.300	0.083	0.0	0.000	0.0	0.4	0.0	0.000	0.000
T1	4.070	0.988	0.0	0.000	0.0	7.2	1627.6	0.000	0.000
T2	4.300	0.236	0.0	0.000	0.0	11.0	1370.6	0.000	0.000
T3	5.000	0.569	0.0	0.000	0.0	9.2	713.9	0.000	0.000

A %% indicates water lost from the system.

********** Link data **********

Link Reference	D/S Node	Pipe Len (m)	Pipe Hgt (mm)	Sed Dpth (mm)	P.Full Flow (m3/s)	Upstream < Invert Level (m AD)	Upstream Max Depth (m)	Upstream Max Flow (m3/s)	Upstream Max Vel (m/s)	Upstream > Total Flow (m3)	Downstream < Invert Level (m AD)	Downstream Max Depth (m)	Downstream Max Flow (m3/s)	Downstream Max Vel (m/s)	Downstream > Total Flow (m3)
BOX02.1	HK40190601	19	2300	4	3.689	-1.147	1.314	2.171	0.715	25641.7	-1.154	1.312	2.171	0.716	25588.7
BOX03.1	KF0702CN4	16	1400	70	7.970	-1.660	1.109	3.563	1.417	44381.2	-1.790	1.215	3.563	1.293	44342.2
BOX04.1	BOX05	13	2300	115	6.648	-1.890	1.285	3.564	1.064	44246.1	-1.900	1.278	3.564	1.070	44204.1
BOX05.1	HK40194302	25	2300	115	6.925	-1.900	1.278	3.564	1.071	44192.4	-1.920	1.267	3.564	1.081	44115.5
BOX06.2	HK40195102	21	1800	90	9.310	-2.100	1.191	3.569	1.125	43492.8	-2.160	1.227	3.569	1.088	43428.0
BOX07.1	HK40188701	50	2300	230	5.790	0.010	1.050	2.783	1.146	27966.4	-0.020	0.975	2.745	1.245	27868.3
BOX08.1	HK40187804	33	2300	230	11.778	-2.430	1.008	3.626	1.268	42638.5	-2.471	0.989	3.671	1.358	42556.6
C1.1	HK39210707	30	1800	4	8.655	1.790	0.320	0.565	1.871	8065.3	1.560	0.321	0.570	1.857	8057.7
C2.1	HK39212304	12	2300	4	-13.669	0.111	0.854	1.340	1.134	18698.3	0.140	0.820	1.340	1.266	18678.8
C3.1	HK39202505	58	2300	125	3.931	-0.290	0.987	1.475	0.835	18870.4	-0.320	0.969	1.475	1.020	18766.2
C4.1	HK39196701	19	2300	4	6.171	-0.910	1.240	2.075	0.728	25321.6	-0.930	1.250	2.075	0.721	25270.7
C5.1	HK40192501	62	2300	115	5.615	-1.275	1.296	3.563	1.263	44879.7	-1.340	1.234	3.563	1.338	44722.2
DWFI CS4A-1.1	HK40187893					0.960	0.000	0.000		0.0	0.960	0.000	0.000		0.0
DWFI CS4A-1.2	DWFI CS4A-2	4	400	4	0.000	0.450	0.024	0.000	0.000	0.0	0.450	0.024	0.000	0.000	0.0
DWFI CS4A-2.1	DWFI CS4A-3					0.450	0.000	0.000		0.0	0.450	0.000	0.000		0.0
DWFI CS4A-3.1	HK40187890	8	300	4	0.191	-0.500	0.034	0.000	0.000	0.0	-0.900	0.034	0.000	0.000	0.0
DWFI.1	HK39203002	86	2300	4	4.578	-0.550	1.102	2.025	0.854	25617.4	-0.600	1.090	2.025	0.883	25417.7
FLAP.1	HK40187892	5	2000	4	20.490	0.454	0.204	0.000	0.000	0.0	0.400	0.204	0.000	0.000	0.0
HK38218701.1	HK38219702	59	1350	4	2.254	2.820	0.071	0.000	0.000	0.0	2.680	0.071	0.000	0.000	0.0
HK38219701.1	HK39210705	34	1300	4	2.140	2.530	0.069	0.000	0.000	0.0	2.440	0.069	0.000	0.000	0.0
HK38219702.1	HK38219701	41	1300	4	2.524	2.680	0.069	0.000	0.000	0.0	2.530	0.069	0.000	0.000	0.0
HK39194801.1	HK39195802	62	2300	4	5.931	-0.710	1.172	2.025	0.779	25287.9	-0.770	1.198	2.025	0.744	25131.9
HK39195701.1	HK39196703	40	2300	4	5.222	-0.840	1.215	2.025	0.727	24850.1	-0.870	1.224	2.025	0.721	24746.0
HK39195801.1	HK39195701	36	2300	4	5.019	-0.815	1.209	2.025	0.731	24952.5	-0.840	1.215	2.025	0.727	24859.3
HK39195802.1	HK39195801	63	2300	4	5.104	-0.770	1.198	2.025	0.743	25122.8	-0.815	1.209	2.025	0.730	24961.7
HK39196701.1	HK39197701	45	2300	4	5.671	-0.930	1.250	2.075	0.722	25261.2	-0.970	1.268	2.075	0.710	25138.8
HK39196703.1	C4	45	2300	4	5.664	-0.870	1.223	2.025	0.721	24736.8	-0.910	1.241	2.025	0.710	24617.2
HK39197701.1	HK39197702	56	2300	4	7.189	-0.970	1.268	2.075	0.711	25129.1	-1.050	1.324	2.075	0.678	24971.8
HK39197702.1	HK39198703	56	2300	4	3.314	-1.050	1.323	2.075	0.678	24961.7	-1.067	1.316	2.075	0.683	24801.0
HK39198701.1	HK39199702	49	2300	4	4.283	-1.080	1.307	2.171	0.719	26014.5	-1.105	1.308	2.171	0.719	25875.2
HK39198703.1	T2	28	2300	4	3.209	-1.067	1.316	2.075	0.683	24790.9	-1.075	1.311	2.075	0.685	24710.8
HK39199701.1	BOX02	20	2300	4	3.532	-1.140	1.317	2.171	0.713	25709.9	-1.147	1.315	2.171	0.715	25651.8
HK39199702.1	HK39199701	51	2300	4	4.983	-1.105	1.307	2.171	0.719	25865.2	-1.140	1.318	2.171	0.713	25720.0
HK39202202.2	HK39203201	50	2300	4	5.588	-0.460	1.054	1.475	0.635	18171.2	-0.480	1.065	1.475	0.616	18060.0
HK39202203.1	HK39202202	5	2300	4	0.000	-0.460	1.056	1.475	0.636	18190.1	-0.460	1.054	1.475	0.636	18179.0
HK39202307.1	HK39202314	16	2300	4	23.569	-0.420	1.029	1.475	0.685	18366.8	-0.533	1.139	1.475	0.582	18330.4
HK39202312.1	HK39202307	45	2300	4	5.877	-0.400	1.019	1.475	0.718	18470.9	-0.420	1.029	1.475	0.687	18374.4
HK39202314.1	HK39202203	53	2300	4	-11.071	-0.543	1.149	1.475	0.574	18321.7	-0.460	1.056	1.475	0.637	18198.0
HK39202403.1	HK39202312	59	2300	4	7.288	-0.360	0.991	1.475	0.784	18601.5	-0.400	1.019	1.475	0.720	18478.4
HK39202505.1	HK39202403	74	2300	4	6.498	-0.320	0.969	1.475	0.836	18759.0	-0.360	0.991	1.475	0.786	18608.9
HK39202507.1	C3	7	2300	125	-4.139	-0.294	0.996	1.340	0.725	16962.1	-0.290	0.987	1.340	0.737	16949.4
HK39202601.1	HK39202507	19	2300	125	4.675	-0.280	0.994	1.340	0.722	17003.7	-0.294	0.996	1.340	0.725	16968.5
HK39202602.1	HK39202601	70	2300	125	4.148	-0.240	0.999	1.340	0.703	17138.1	-0.280	0.994	1.340	0.723	17010.1
HK39202702.1	HK39202602	16	2300	125	5.285	-0.225	0.994	1.340	0.707	17174.1	-0.240	0.999	1.340	0.704	17144.6
HK39202703.1	HK39202702	21	2300	125	4.627	-0.210	0.993	1.340	0.706	17218.9	-0.225	0.994	1.340	0.707	17180.5
HK39202704.1	HK39202703	32	2300	125	4.328	-0.190	0.994	1.340	0.701	17283.8	-0.210	0.993	1.340	0.706	17225.3
HK39202801.1	HK39202704	36	2300	125	4.075	-0.170	0.997	1.340	0.694	17356.4	-0.190	0.994	1.340	0.702	17290.2
HK39202802.1	HK39202801	44	2300	4	7.290	-0.140	0.975	1.340	0.646	17454.0	-0.170	0.997	1.340	0.623	17363.7
HK39202803.1	HK39202802	27	2300	4	5.378	-0.130	0.971	1.340	0.702	17515.5	-0.140	0.975	1.340	0.649	17461.1
HK39202901.1	HK39202803	47	2300	4	7.054	-0.100	0.950	1.340	0.867	17615.9	-0.130	0.971	1.340	0.713	17522.6
HK39202902.1	HK39202901	23	2300	4	5.826	-0.090	0.945	1.340	0.900	17667.7	-0.100	0.950	1.340	0.879	17622.9
HK39202903.1	HK39202902	42	2300	4	6.096	-0.070	0.934	1.340	0.932	17755.7	-0.090	0.945	1.340	0.910	17674.7
HK39203002.1	HK39194801	47	2300	4	9.202	-0.600	1.090	2.025	0.882	25409.5	-0.710	1.172	2.025	0.780	25296.8

Link Reference	D/S Node	Pipe Len (m)	Pipe Hgt (mm)	Sed Dpth (mm)	P.Full Flow (m3/s)	Upstream < Invert Level (m AD)	Max Depth (m)	Max Flow (m3/s)	Max Vel (m/s)	Total > Flow (m3)	Downstream < Invert Level (m AD)	Max Depth (m)	Max Flow (m3/s)	Max Vel (m/s)	Total > Flow (m3)
HK39203103.1	T3	21	2300	4	5.083	-0.510	1.087	1.475	0.598	17927.2	-0.525	1.094	1.475	0.594	17878.8
HK39203104.1	HK39203103	10	2300	4	8.817	-0.500	1.078	1.475	0.603	17958.4	-0.510	1.087	1.475	0.598	17935.3
HK39203201.1	HK39203104	38	2300	4	6.425	-0.480	1.065	1.475	0.615	18052.1	-0.500	1.078	1.475	0.603	17966.5
HK39210705.1	C1	31	1300	4	2.799	2.440	0.069	0.000	0.000	0.0	2.301	0.069	0.000	0.000	0.0
HK39210707.1	HK39211706	24	1800	4	9.816	1.560	0.307	0.570	1.982	8056.6	1.320	0.337	0.568	1.730	8050.5
HK39210708.1	HK39211706	4	375	4	0.173	2.050	0.041	0.000	0.000	0.0	2.000	0.041	0.000	0.000	0.0
HK39211401.1	HK39212404	12	2300	4	4.424	0.129	0.840	0.679	-0.703	9356.6	0.126	0.842	0.679	-0.671	9336.0
HK39211403.1	HK39211499	29	1800	4	5.128	0.300	0.701	0.565	1.188	7901.0	0.220	0.777	0.565	1.196	7873.6
HK39211404.1	HK39211405	25	707	4	2.152	-0.720	1.694	0.679	0.336	9450.7x	-0.760	1.730	0.679	0.336	9403.0x
HK39211405.1	HK39211401	12	707	4	-14.670	-0.760	1.729	0.679	0.336	9387.1x	0.129	0.840	0.679	-1.155	9363.8x
HK39211499.1	T1					0.220	0.777	0.565		7869.6	0.220	0.768	0.565		7869.6
HK39211501.1	HK39211403	40	1800	4	4.101	0.370	0.643	0.565	1.186	7936.7	0.300	0.701	0.565	1.208	7904.2
HK39211502.1	HK39211501	74	1800	4	4.422	0.520	0.534	0.565	1.230	7989.0	0.370	0.643	0.565	1.195	7939.5
HK39211601.1	HK39211602	43	1800	4	4.989	0.800	0.420	0.565	1.340	8036.6	0.690	0.432	0.565	1.392	8018.8
HK39211602.1	HK39211502	52	1800	4	5.621	0.690	0.432	0.565	1.384	8017.1	0.520	0.534	0.565	1.237	7991.3
HK39211706.1	HK39211601	47	1800	4	10.303	1.320	0.337	0.567	1.730	8049.3	0.800	0.420	0.565	1.345	8038.3
HK39212001.1	HK39202903	13	2300	4	7.770	-0.060	0.927	1.340	0.953	17787.3	-0.070	0.935	1.340	0.940	17762.6
HK39212002.1	HK39212001	22	2300	4	5.956	-0.050	0.922	1.340	0.959	17835.7	-0.060	0.927	1.340	0.960	17794.1
HK39212003.1	HK39212002	49	2300	4	5.639	-0.030	0.914	1.340	0.959	17934.5	-0.050	0.923	1.340	0.965	17842.5
HK39212004.1	HK39212003	17	2300	4	6.793	-0.020	0.908	1.340	0.970	17972.7	-0.030	0.914	1.340	0.965	17941.2
HK39212005.1	HK39212004	4	2300	4	9.787	-0.015	0.904	1.340	0.983	17986.8	-0.020	0.908	1.340	0.975	17979.3
HK39212101.1	HK39212108	41	1600	4	6.283	0.010	0.885	1.340	0.601	18159.3	-0.010	0.902	1.340	0.499	18026.5
HK39212108.1	HK39212005	10	2300	4	6.231	-0.010	0.902	1.340	0.988	18011.9	-0.015	0.904	1.340	0.989	17993.4
HK39212201.1	HK39212101	70	2300	4	6.686	0.050	0.864	1.340	1.103	18296.9	0.010	0.885	1.340	1.369	18173.5
HK39212202.1	HK39212201	68	2300	4	6.773	0.090	0.845	1.340	1.058	18419.6	0.050	0.864	1.340	1.109	18303.2
HK39212301.1	HK39212202	26	2300	4	7.770	0.110	0.832	1.340	1.088	18468.4	0.090	0.845	1.340	1.072	18425.7
HK39212302.1	HK39212301	28	1100	4	3.534	0.120	0.824	1.340	0.584	18581.3	0.110	0.833	1.340	0.484	18485.2
HK39212303.1	HK39212302	21	2300	4	6.111	0.130	0.822	1.340	1.321	18631.6	0.120	0.825	1.340	1.450	18597.9
HK39212304.1	HK39212303	23	2300	4	5.903	0.140	0.820	1.340	1.252	18672.9	0.130	0.822	1.340	1.337	18637.5
HK39212402.1	C2	20	2300	4	5.572	0.119	0.848	0.679	-0.640	9300.3	0.111	0.854	0.679	-0.617	9267.3
HK39212404.1	HK39212402	14	2300	4	6.240	0.126	0.842	0.679	-0.674	9329.9	0.119	0.848	0.679	-0.637	9306.5
HK40187802.1	KT_PS	7	2300	230	8.332	-2.491	0.935	3.708	2.075	42506.1	-2.500	0.901	3.718	2.288	42495.2
HK40187803.1	HK40187802	7	2300	230	8.638	-2.482	0.960	3.693	1.912	42523.1	-2.491	0.935	3.700	2.063	42512.1
HK40187804.1	HK40187803	9	2300	230	8.149	-2.471	0.989	3.679	1.770	42545.9	-2.482	0.960	3.687	1.907	42529.6
HK40187890.1	KT_PS	5	2300	4	5.657	-2.500	0.902	-0.391	0.480	-51.0	-2.510	0.911	-0.423	0.530	-55.1
HK40187891.1	HK40187897					0.600	0.000	0.000		0.0	0.600	0.000	0.000		0.0
HK40187892.1	HK40187896	5	2000	4	19.716	0.400	0.204	0.000	0.000	0.0	0.350	0.204	0.000	0.000	0.0
HK40187893.1	KTIP OVERFLOW	6	2000	4	23.382	-1.600	0.204	0.000	0.000	0.0	-1.690	0.204	0.000	0.000	0.0
HK40187895.1	HK40187893	14	2000	4	15.119	0.280	0.104	0.000	0.000	0.0	0.200	0.104	0.000	0.000	0.0
HK40187896.1	HK40187895	13	2000	4	14.465	0.350	0.104	0.000	0.000	0.0	0.280	0.104	0.000	0.000	0.0
HK40187897.1	FLAP					0.850	0.000	0.000		0.0	0.850	0.000	0.000		0.0
HK40187898.1	HK40187890	9	2260	4	12.251	-2.412	0.814	-0.321	0.525	-41.5	-2.500	0.902	-0.379	0.450	-48.3
HK40187899.1	HK40187898	9	2220	4	4.605	-2.400	0.805	-0.255	0.357	-33.4	-2.412	0.814	-0.309	0.482	-39.1
HK40187902.1	BOX08	14	1624	162	4.713	-2.416	1.029	3.608	1.446	42683.0	-2.430	1.008	3.620	1.501	42651.6
HK40187903.1	HK40187902	14	1850	185	5.520	-2.402	1.055	3.603	1.428	42724.5	-2.416	1.031	3.606	1.483	42691.8
HK40187995.1	HK40187899	12	2207	4	6.288	-2.368	0.779	-0.209	0.267	-23.7	-2.400	0.805	-0.243	0.322	-31.1
HK40187997.1	HK40187995	32	1988	4	12.805	-1.910	0.337	-0.131	-0.433	-11.0	-2.368	0.779	-0.202	0.250	-21.4
HK40187998.1	HK40187997	14	1086	4	1.992	-1.875	0.313	-0.084	-0.273	-6.8	-1.896	0.323	-0.125	-0.360	-10.2
HK40187999.1	HK40187998	13	1295	4	2.809	-1.842	0.285	-0.043	0.217	-3.6	-1.867	0.305	-0.079	-0.279	-6.1
HK40188701.1	HK40188702	42	2300	230	6.314	-0.020	0.975	2.741	1.244	27861.8	-0.050	0.887	2.705	1.473	27791.6
HK40188702.1	HK40189607	59	2300	4	8.902	-0.050	0.887	2.701	1.182	27783.7	-0.085	0.872	2.680	1.189	27667.4
HK40188798.1	HK40189699	59	1849	4	3.767	0.400	0.683	1.327	1.144	13594.0	0.368	0.648	1.309	1.187	13535.6
HK40188799.1	HK40188798	45	1847	4	4.606	0.436	0.690	1.359	1.148	13643.3	0.400	0.683	1.329	1.146	13597.2

Link Reference	D/S Node	Pipe Len (m)	Pipe Hgt (mm)	Sed Dpth (mm)	P.Full Flow (m3/s)	Upstream < Invert Level (m AD)	Max Depth (m)	Max Flow (m3/s)	Max Vel (m/s)	Total Flow > (m3)	Downstream < Invert Level (m AD)	Max Depth (m)	Max Flow (m3/s)	Max Vel (m/s)	Total Flow > (m3)
HK40188802.1	BOX07	15	2300	230	6.085	0.020	1.067	2.796	1.127	28005.8	0.010	1.050	2.787	1.147	27973.7
HK40188898.1	HK40188799	48	1839	4	4.655	0.476	0.697	1.387	1.151	13697.9	0.436	0.690	1.361	1.148	13646.5
HK40188899.1	HK40188898	14	1835	4	3.594	0.483	0.706	1.394	1.141	13716.6	0.476	0.698	1.389	1.151	13701.2
HK40188901.1	HK40188802	110	2300	230	5.959	0.090	1.151	2.928	1.078	28269.6	0.020	1.067	2.800	1.129	28013.3
HK40188902.1	HK40188901	3	2300	230	89.367	0.550	0.742	2.940	1.995	28282.9	0.090	1.151	2.936	1.081	28278.2
HK40188902.2	HK40188999	3	2300	4	11.920	0.550	0.742	1.473	1.351	13863.4	0.540	0.751	1.470	1.317	13859.7
HK40188999.1	HK40188899	115	1843	4	3.604	0.540	0.751	1.467	1.201	13856.0	0.483	0.706	1.396	1.143	13720.0
HK40189601.1	HK41180604	56	2300	4	11.178	-0.170	0.845	3.814	1.765	40784.8	-0.222	0.752	3.809	2.006	40688.9
HK40189602.1	HK40189601	11	2300	4	10.864	-0.160	0.845	2.581	1.193	27398.7	-0.170	0.846	2.570	1.188	27377.8
HK40189603.1	HK40189602	18	2300	4	10.559	-0.145	0.846	2.601	1.200	27439.4	-0.160	0.846	2.585	1.195	27406.2
HK40189604.1	HK40189603	12	2300	4	7.579	-0.140	0.851	2.615	1.196	27468.7	-0.145	0.846	2.605	1.201	27446.9
HK40189605.1	HK40189604	19	2300	4	8.502	-0.130	0.857	2.633	1.192	27511.2	-0.140	0.852	2.619	1.197	27476.2
HK40189606.1	HK40189605	44	2300	4	9.533	-0.100	0.864	2.664	1.191	27603.5	-0.130	0.857	2.636	1.193	27518.9
HK40189607.1	HK40189606	25	2300	4	8.965	-0.085	0.871	2.678	1.188	27659.6	-0.100	0.864	2.667	1.192	27611.2
HK40189694.1	HK40189601	12	1836	4	3.596	0.302	0.480	1.261	1.638	13421.2	0.296	0.441	1.262	1.824	13414.4
HK40189695.1	HK40189694	20	1840	4	3.773	0.313	0.530	1.264	1.461	13436.3	0.302	0.480	1.261	1.639	13423.2
HK40189696.1	HK40189695	13	1841	4	3.819	0.320	0.553	1.271	1.392	13447.7	0.313	0.530	1.265	1.462	13438.7
HK40189697.1	HK40189696	20	1840	4	3.783	0.331	0.582	1.281	1.315	13465.9	0.320	0.554	1.272	1.392	13450.2
HK40189698.1	HK40189697	44	1842	4	3.755	0.355	0.629	1.299	1.218	13507.2	0.331	0.582	1.283	1.317	13468.5
HK40189699.1	HK40189698	24	1846	4	3.754	0.368	0.648	1.308	1.185	13532.6	0.355	0.629	1.301	1.219	13510.1
HK40190601.1	HK40190602	39	2300	4	3.852	-1.154	1.311	2.171	0.717	25578.7	-1.170	1.308	2.171	0.719	25468.3
HK40190602.1	HK40190603	31	2300	115	3.140	-1.170	1.306	2.171	0.763	25458.3	-1.180	1.296	2.171	0.770	25378.5
HK40190603.1	HK40190604	47	2300	115	4.583	-1.180	1.295	2.171	0.770	25369.5	-1.213	1.296	2.171	0.770	25245.7
HK40190604.1	HK40191502	40	2300	115	3.589	-1.213	1.295	2.171	0.770	25236.7	-1.230	1.285	2.171	0.778	25133.3
HK40191502.1	C5	42	2300	115	5.679	-1.230	1.283	2.171	0.778	25124.4	-1.275	1.300	2.171	0.767	25015.2
HK40192401.1	HK40193304	52	2300	115	3.869	-1.394	1.174	3.563	1.417	44596.1	-1.420	1.019	3.563	1.675	44484.7
HK40192501.1	HK40192401	46	2300	115	5.951	-1.340	1.233	3.563	1.339	44713.8	-1.394	1.174	3.563	1.417	44604.0
HK40193304.1	BOX03	44	2300	115	12.844	-1.420	1.019	3.563	1.675	44478.0	-1.660	1.115	3.563	1.513	44389.4
HK40193305.1	HK40194399	24	1144	4	1.018	-0.734	0.061	0.000	0.000	0.0	-0.774	0.061	0.000	0.000	0.0
HK40194201.1	HK40195201	38	2300	115	7.644	-2.030	1.230	3.567	1.121	43729.0	-2.067	1.214	3.568	1.139	43618.3
HK40194202.1	HK40194201	57	2300	115	7.331	-1.978	1.255	3.565	1.094	43912.3	-2.030	1.230	3.567	1.120	43740.1
HK40194298.1	HK40195299	38	1362	4	1.362	-1.073	0.072	0.000	0.000	0.0	-1.148	0.072	0.000	0.000	0.0
HK40194299.1	HK40194298	57	1295	4	1.038	-0.961	0.069	0.000	0.000	0.0	-1.036	0.069	0.000	0.000	0.0
HK40194301.1	HK40194202	27	2300	115	2.967	-1.974	1.286	3.565	1.063	44006.5	-1.978	1.256	3.565	1.093	43923.7
HK40194302.1	HK40194301	28	2300	115	10.765	-1.920	1.265	3.564	1.084	44104.0	-1.974	1.287	3.565	1.062	44018.3
HK40194398.1	HK40194299	27	1216	4	1.280	-0.861	0.065	0.000	0.000	0.0	-0.923	0.065	0.000	0.000	0.0
HK40194399.1	HK40194398	27	1158	4	1.085	-0.780	0.062	0.000	0.000	0.0	-0.830	0.062	0.000	0.000	0.0
HK40195102.1	HK40196001	149	2300	115	7.711	-2.160	1.226	3.570	1.127	43416.3	-2.310	1.150	3.581	1.225	42987.7
HK40195198.1	HK40196099	149	1401	4	1.731	-1.291	0.074	0.000	0.000	0.0	-1.382	0.074	0.000	0.000	0.0
HK40195199.1	HK40195198	34	910	4	1.349	-1.221	0.049	0.000	0.000	0.0	-1.259	0.049	0.000	0.000	0.0
HK40195201.1	BOX06	34	1900	95	5.850	-2.067	1.208	3.568	1.114	43606.9	-2.100	1.194	3.569	1.130	43504.1
HK40195299.1	HK40195199	50	1019	4	0.584	-1.184	0.055	0.000	0.000	0.0	-1.221	0.055	0.000	0.000	0.0
HK40196001.1	HK40187903	93	2300	115	7.654	-2.310	1.150	3.582	1.225	42977.4	-2.402	1.060	3.602	1.378	42733.8
HK40196099.1	HK40187999	93	1553	4	5.300	-1.405	0.082	0.000	-0.001	0.0	-1.814	0.257	-0.040	0.286	-2.9
HK41180602.1	HK41180601	16	2300	4	29.658	-0.340	0.605	3.796	2.598	40594.9	-0.440	0.605	3.792	2.596	40575.6
HK41180603.1	HK41180602	3	2300	4	-13.861	-0.344	0.732	3.798	2.063	40604.5	-0.340	0.717	3.797	2.116	40599.9
HK41180604.1	HK41180603	46	2300	4	18.186	-0.232	0.761	3.808	1.974	40682.3	-0.344	0.733	3.800	2.061	40610.8
KEI YIP ST STORM DRAIN.1	DWFI CS4A-1	28	1350	4	3.028	0.520	0.071	0.000	0.000	0.0	0.400	0.071	0.000	0.000	0.0
KF06G540.1	KF06G541	11	225	4	0.040	3.255	0.026	0.000	0.000	0.0	3.141	0.026	0.000	0.000	0.0
KF06G541.1	KF06G542	30	225	4	0.040	3.141	0.026	0.000	0.000	0.0	2.835	0.026	0.000	0.000	0.0
KF06G542.1	KF06G543	4	225	4	0.037	2.835	0.024	0.000	0.000	0.0	2.800	0.024	0.000	0.000	0.0
KF06G543.1	KF06G544	7	225	4	0.082	2.800	0.026	0.000	0.000	0.0	2.499	0.026	0.000	0.000	0.0
KF06G544.1	KF06G545	6	225	4	0.049	2.499	0.026	0.000	0.000	0.0	2.405	0.026	0.000	0.000	0.0

Link Reference	D/S Node	Pipe Len (m)	Pipe Hgt (mm)	Sed Dpth (mm)	P.Full Flow (m3/s)	< Upstream Invert Level (m AD)	Max Depth (m)	Max Flow (m3/s)	Max Vel (m/s)	Total Flow (m3) >	< Downstream Invert Level (m AD)	Max Depth (m)	Max Flow (m3/s)	Max Vel (m/s)	Total Flow (m3) >
KF06G545.1	BOX07	1	200	4	0.027	2.312	0.024	0.000	0.000	0.0	2.303	0.024	0.000	0.000	0.0
KF06G547.1	KF06G548	14	225	4	0.018	3.118	0.024	0.000	0.000	0.0	3.090	0.024	0.000	0.000	0.0
KF06G548.1	KF06G542	16	225	4	0.029	3.090	0.024	0.000	0.000	0.0	3.001	0.024	0.000	0.000	0.0
KF06G549.1	KF06G548	11	225	4	0.036	3.266	0.024	0.000	0.000	0.0	3.172	0.024	0.000	0.000	0.0
KF0702CN4.1	BOX04	22	1400	70	7.338	-1.790	1.210	3.563	1.081	44330.3	-1.890	1.287	3.564	1.024	44258.9
KT_PS.1	HK40188902					-1.950	0.351	2.300		29072.4	-1.950	3.242	2.300		29072.4
KT_PS.3	HK40188902					-1.800	0.201	1.917		10865.3	-1.800	3.092	1.917		10865.3
KT_PS.4	HK40188902					-1.650	0.051	0.767		2326.1	-1.650	2.942	0.767		2326.1
KT_PS.5	HK40188902					-1.500	0.000	0.000		0.0	-1.500	2.792	0.000		0.0
KT_PS.6	HK40187891					0.600	0.000	0.000		0.0	0.600	0.000	0.000		0.0
STW01.1	STW	18	1575	4	0.000	0.000	0.083	0.000	0.000	0.0	0.000	0.083	0.000	0.000	0.0
T1.1	HK39211404	12	707	4	15.085	0.220	0.762	0.679	1.006	9489.9x	-0.720	1.695	0.679	0.336	9466.3x
T2.1	HK39198701	17	2300	4	3.311	-1.075	1.311	2.171	0.717	26071.3	-1.080	1.308	2.171	0.719	26024.5
T3.1	DWF1	42	2300	4	4.640	-0.525	1.094	1.525	0.614	18584.5	-0.550	1.102	1.525	0.609	18487.2

+ after total flow indicates a conduit surcharged by flow and depth at that end.
x after total flow indicates a conduit surcharged by depth only at that end.

NOTE :
(i) Maximum elevations, depths, volumes, velocities and discharges are selected from the values at each time increment and will be in general more extreme than the maximum values in the time varying results.
(ii) Maximum elevations, velocities and discharges are not necessarily calculated at the same time.
(iii) Maximum velocity is not calculated for a conduit unless the depth exceeds the base flow depth (by default, this is 5% of height for slopes <= 0.01, 10% otherwise, subject to a minimum of 0.02 m).

End of run 0 mins (elapsed) Produced on 23/05/2008 Last page

Start of run configured for MS Windows Produced on 23/05/2008 at 20:36

Trunk 2016
2DWF

HydroWorks(tm) SIM

Summary results from Simulation

Version 6.1.807 dated June 2006

Licence Number - WS01550002PM

Message 253: Run finished for event 1.

Summary results for event 1 - DWF
Started at 00000000000000. Run for 240.00 min. (Requested simulation time 240.00 min)

Files used:
Network: ...\NET26#3.spb 2016 - ADWF_updated #1 (Revision 3)
State:
Runoff: ...\NET26#3.rpf 2016 - ADWF_updated #1 (Revision 3) (InfoWorks 7.51.13014)
Rainfall:
DWF:
Inflows: ...\SIM158event.qin 1
Levels:
RTC:
Results: ...\SIM158.iwr

Total rainfall = 0.0 m3
Total runoff = 0.0 m3
Total inflow = 94619.3 m3
Total outflow = 76984.0 m3
Total lost = 0.0 m3

********** Node data **********

Node Reference	Ground Level (m AD)	Max Level (m AD)	Flood Volume (m3)	Flood Depth (m)	Flood Area (m2)	Max Stored (m3)	Inflow (m3)	Vol Balance (m3)	Vol Balance (%)
BOX02	4.250	0.899	0.0	0.000	0.0	17.2	0.0	0.000	0.000
BOX03	3.870	0.262	0.0	0.000	0.0	16.1	0.0	0.000	0.000
BOX04	3.800	0.031	0.0	0.000	0.0	21.3	0.0	0.000	0.000
BOX05	3.800	0.001	0.0	0.000	0.0	21.1	0.0	0.000	0.000
BOX06	4.090	-0.348	0.0	0.000	0.0	19.4	0.0	0.000	0.000
BOX07	4.100	1.457	0.0	0.000	0.0	16.1	0.0	0.000	0.000
BOX08	4.000	-0.887	0.0	0.000	0.0	26.4	0.0	0.000	0.000
C1	6.050	2.239	0.0	0.000	0.0	2.3	16129.6	0.000	0.000
C2	5.030	1.681	0.0	0.000	0.0	13.2	18870.2	0.000	0.000
C3	4.910	1.435	0.0	0.000	0.0	14.5	3854.0	0.000	0.000
C4	5.000	1.091	0.0	0.000	0.0	16.8	1427.4	0.000	0.000
C5	4.150	0.739	0.0	0.000	0.0	16.9	39738.8	0.000	0.000
DWFI	4.800	1.296	0.0	0.000	0.0	15.5	7137.0	0.000	0.000
DWFI CS4A-1	3.720	0.471	0.0	0.000	0.0	0.2	0.0	0.000	0.000
DWFI CS4A-2	3.720	0.450	0.0	0.000	0.0	0.0	0.0	0.000	0.000
DWFI CS4A-3	3.720	-0.466	0.0	0.000	0.0	0.1	0.0	0.000	0.000
FLAP	4.000	0.658	0.0	0.000	0.0	1.5	0.0	0.000	0.000
HK38218701	5.470	2.891	0.0	0.000	0.0	0.2	0.0	0.000	0.000
HK38219701	6.060	2.599	0.0	0.000	0.0	0.2	0.0	0.000	0.000
HK38219702	5.752	2.749	0.0	0.000	0.0	0.3	0.0	0.000	0.000
HK39194801	5.950	1.218	0.0	0.000	0.0	16.2	0.0	0.000	0.000
HK39195701	5.400	1.137	0.0	0.000	0.0	16.6	0.0	0.000	0.000
HK39195801	5.750	1.160	0.0	0.000	0.0	16.6	0.0	0.000	0.000
HK39195802	5.850	1.189	0.0	0.000	0.0	16.5	0.0	0.000	0.000
HK39196701	4.990	1.070	0.0	0.000	0.0	16.8	0.0	0.000	0.000
HK39196703	5.000	1.118	0.0	0.000	0.0	16.7	0.0	0.000	0.000
HK39197701	4.500	1.048	0.0	0.000	0.0	17.0	0.0	0.000	0.000
HK39197702	4.390	1.022	0.0	0.000	0.0	17.4	0.0	0.000	0.000
HK39198701	4.250	0.970	0.0	0.000	0.0	17.2	0.0	0.000	0.000
HK39198703	4.400	0.996	0.0	0.000	0.0	17.3	0.0	0.000	0.000
HK39199701	4.290	0.911	0.0	0.000	0.0	17.2	0.0	0.000	0.000
HK39199702	4.300	0.944	0.0	0.000	0.0	17.2	0.0	0.000	0.000
HK39202202	4.400	1.346	0.0	0.000	0.0	15.2	0.0	0.000	0.000
HK39202203	4.150	1.348	0.0	0.000	0.0	15.2	0.0	0.000	0.000
HK39202307	4.300	1.364	0.0	0.000	0.0	15.0	0.0	0.000	0.000
HK39202312	4.500	1.374	0.0	0.000	0.0	14.9	0.0	0.000	0.000
HK39202314	4.387	1.359	0.0	0.000	0.0	16.0	0.0	0.000	0.000
HK39202403	4.700	1.385	0.0	0.000	0.0	14.7	0.0	0.000	0.000
HK39202505	4.900	1.400	0.0	0.000	0.0	14.4	0.0	0.000	0.000

HK39202507	4.910	1.443	0.0	0.000	0.0	14.6	0.0	0.000	0.000
HK39202601	4.900	1.452	0.0	0.000	0.0	14.5	0.0	0.000	0.000
HK39202602	5.100	1.483	0.0	0.000	0.0	14.5	0.0	0.000	0.000
HK39202702	5.150	1.494	0.0	0.000	0.0	14.4	0.0	0.000	0.000
HK39202703	5.200	1.504	0.0	0.000	0.0	14.4	0.0	0.000	0.000
HK39202704	4.780	1.520	0.0	0.000	0.0	14.4	0.0	0.000	0.000
HK39202801	5.200	1.537	0.0	0.000	0.0	14.3	0.0	0.000	0.000
HK39202802	4.990	1.545	0.0	0.000	0.0	14.2	0.0	0.000	0.000
HK39202803	5.350	1.551	0.0	0.000	0.0	14.1	0.0	0.000	0.000
HK39202901	4.750	1.560	0.0	0.000	0.0	13.9	0.0	0.000	0.000
HK39202902	4.850	1.565	0.0	0.000	0.0	13.9	0.0	0.000	0.000
HK39202903	4.850	1.573	0.0	0.000	0.0	14.0	0.0	0.000	0.000
HK39203002	4.900	1.246	0.0	0.000	0.0	15.5	0.0	0.000	0.000
HK39203103	5.300	1.325	0.0	0.000	0.0	15.4	0.0	0.000	0.000

Node Reference	Ground Level (m AD)	Max Level (m AD)	Flood Volume (m3)	Flood Depth (m)	Flood Area (m2)	Max Stored (m3)	Inflow (m3)	Vol Balance (m3)	Vol Balance (%)
HK39203104	5.000	1.328	0.0	0.000	0.0	15.4	0.0	0.000	0.000
HK39203201	4.200	1.336	0.0	0.000	0.0	15.3	0.0	0.000	0.000
HK39210705	6.270	2.509	0.0	0.000	0.0	0.2	0.0	0.000	0.000
HK39210707	6.020	2.023	0.0	0.000	0.0	2.4	0.0	0.000	0.000
HK39210708	5.640	2.091	0.0	0.000	0.0	0.1	0.0	0.000	0.000
HK39211401	5.130	1.685	0.0	0.000	0.0	14.6	0.0	0.000	0.000
HK39211403	4.240	1.767	0.0	0.000	0.0	7.6	0.0	0.000	0.000
HK39211404	4.900	1.712	0.0	0.000	0.0	22.9	0.0	0.000	0.000
HK39211405	5.070	1.692	0.0	0.000	0.0	23.0	0.0	0.000	0.000
HK39211499	4.070	1.762	0.0	0.000	0.0	8.0	0.0	0.000	0.000
HK39211501	4.480	1.772	0.0	0.000	0.0	7.3	0.0	0.000	0.000
HK39211502	4.320	1.784	0.0	0.000	0.0	6.6	0.0	0.000	0.000
HK39211601	5.430	1.803	0.0	0.000	0.0	5.2	0.0	0.000	0.000
HK39211602	5.470	1.793	0.0	0.000	0.0	5.7	0.0	0.000	0.000
HK39211706	5.790	1.899	0.0	0.000	0.0	3.0	0.0	0.000	0.000
HK39212001	4.850	1.576	0.0	0.000	0.0	13.7	0.0	0.000	0.000
HK39212002	4.850	1.581	0.0	0.000	0.0	13.7	0.0	0.000	0.000
HK39212003	5.150	1.591	0.0	0.000	0.0	13.6	0.0	0.000	0.000
HK39212004	4.950	1.598	0.0	0.000	0.0	13.6	0.0	0.000	0.000
HK39212005	4.950	1.603	0.0	0.000	0.0	13.6	0.0	0.000	0.000
HK39212101	5.000	1.611	0.0	0.000	0.0	28.5	0.0	0.000	0.000
HK39212108	4.950	1.606	0.0	0.000	0.0	28.8	0.0	0.000	0.000
HK39212201	5.550	1.625	0.0	0.000	0.0	13.2	0.0	0.000	0.000
HK39212202	5.330	1.639	0.0	0.000	0.0	13.0	0.0	0.000	0.000
HK39212301	5.150	1.646	0.0	0.000	0.0	33.3	0.0	0.000	0.000
HK39212302	5.150	1.663	0.0	0.000	0.0	33.5	0.0	0.000	0.000
HK39212303	5.150	1.668	0.0	0.000	0.0	12.9	0.0	0.000	0.000
HK39212304	5.150	1.676	0.0	0.000	0.0	13.2	0.0	0.000	0.000
HK39212402	5.100	1.683	0.0	0.000	0.0	13.1	0.0	0.000	0.000
HK39212404	5.100	1.684	0.0	0.000	0.0	13.1	0.0	0.000	0.000
HK40187802	3.750	-1.002	0.0	0.000	0.0	16.5	0.0	0.000	0.000
HK40187803	3.750	-0.972	0.0	0.000	0.0	16.8	0.0	0.000	0.000
HK40187804	3.750	-0.931	0.0	0.000	0.0	26.3	0.0	0.000	0.000
HK40187890	3.850	-1.044	0.0	0.000	0.0	5.4	0.0	0.000	0.000
HK40187891	3.850	0.600	0.0	0.000	0.0	0.0	0.0	0.000	0.000
HK40187892	3.800	0.604	0.0	0.000	0.0	1.5	0.0	0.000	0.000
HK40187893	3.800	-1.396	0.0	0.000	0.0	1.5	0.0	0.000	0.000
HK40187895	3.750	0.384	0.0	0.000	0.0	0.8	0.0	0.000	0.000
HK40187896	3.750	0.454	0.0	0.000	0.0	0.8	0.0	0.000	0.000
HK40187897	3.800	0.600	0.0	0.000	0.0	0.1	0.0	0.000	0.000
HK40187898	3.800	-1.045	0.0	0.000	0.0	5.1	0.0	0.000	0.000

HK40187899	3.800	-1.043	0.0	0.000	0.0	5.0	0.0	0.000	0.000
HK40187902	3.800	-0.846	0.0	0.000	0.0	17.4	0.0	0.000	0.000
HK40187903	3.800	-0.789	0.0	0.000	0.0	17.9	0.0	0.000	0.000
HK40187995	3.800	-1.036	0.0	0.000	0.0	4.9	0.0	0.000	0.000
HK40187997	3.800	-1.039	0.0	0.000	0.0	3.2	0.0	0.000	0.000
HK40187998	3.800	-1.031	0.0	0.000	0.0	3.1	0.0	0.000	0.000
HK40187999	3.800	-1.013	0.0	0.000	0.0	3.1	0.0	0.000	0.000
HK40188701	4.300	1.331	0.0	0.000	0.0	15.0	0.0	0.000	0.000
HK40188702	4.200	1.214	0.0	0.000	0.0	14.0	0.0	0.000	0.000
HK40188798	4.200	1.429	0.0	0.000	0.0	6.2	0.0	0.000	0.000
HK40188799	4.300	1.489	0.0	0.000	0.0	6.3	0.0	0.000	0.000
HK40188802	4.100	1.497	0.0	0.000	0.0	16.4	0.0	0.000	0.000

Node Reference	Ground Level (m AD)	Max Level (m AD)	Flood Volume (m3)	Flood Depth (m)	Flood Area (m2)	Max Stored (m3)	Inflow (m3)	Vol Balance (m3)	Vol Balance (%)
HK40188898	4.100	1.555	0.0	0.000	0.0	6.5	0.0	0.000	0.000
HK40188899	4.100	1.580	0.0	0.000	0.0	6.6	0.0	0.000	0.000
HK40188901	3.900	1.685	0.0	0.000	0.0	17.7	0.0	0.000	0.000
HK40188902	3.900	1.709	0.0	0.000	0.0	231.9	0.0	0.000	0.000
HK40188999	3.900	1.707	0.0	0.000	0.0	7.0	0.0	0.000	0.000
HK40189601	4.460	1.035	0.0	0.000	0.0	13.4	0.0	0.000	0.000
HK40189602	3.740	1.048	0.0	0.000	0.0	13.4	0.0	0.000	0.000
HK40189603	3.740	1.067	0.0	0.000	0.0	13.5	0.0	0.000	0.000
HK40189604	3.740	1.081	0.0	0.000	0.0	13.6	0.0	0.000	0.000
HK40189605	3.740	1.099	0.0	0.000	0.0	13.6	0.0	0.000	0.000
HK40189606	4.150	1.139	0.0	0.000	0.0	13.8	0.0	0.000	0.000
HK40189607	4.150	1.162	0.0	0.000	0.0	13.8	0.0	0.000	0.000
HK40189694	3.740	1.077	0.0	0.000	0.0	4.7	0.0	0.000	0.000
HK40189695	3.740	1.136	0.0	0.000	0.0	4.9	0.0	0.000	0.000
HK40189696	3.740	1.169	0.0	0.000	0.0	5.1	0.0	0.000	0.000
HK40189697	3.740	1.215	0.0	0.000	0.0	5.3	0.0	0.000	0.000
HK40189698	4.150	1.301	0.0	0.000	0.0	5.7	0.0	0.000	0.000
HK40189699	4.150	1.343	0.0	0.000	0.0	5.9	0.0	0.000	0.000
HK40190601	4.150	0.887	0.0	0.000	0.0	17.1	0.0	0.000	0.000
HK40190602	4.150	0.859	0.0	0.000	0.0	17.0	0.0	0.000	0.000
HK40190603	4.150	0.831	0.0	0.000	0.0	16.9	0.0	0.000	0.000
HK40190604	4.150	0.800	0.0	0.000	0.0	16.9	0.0	0.000	0.000
HK40191502	4.290	0.773	0.0	0.000	0.0	16.8	0.0	0.000	0.000
HK40192401	4.150	0.484	0.0	0.000	0.0	15.8	0.0	0.000	0.000
HK40192501	4.290	0.589	0.0	0.000	0.0	16.2	0.0	0.000	0.000
HK40193304	4.150	0.349	0.0	0.000	0.0	14.9	0.0	0.000	0.000
HK40193305	3.800	-0.673	0.0	0.000	0.0	0.1	0.0	0.000	0.000
HK40194201	3.800	-0.212	0.0	0.000	0.0	20.2	0.0	0.000	0.000
HK40194202	3.800	-0.129	0.0	0.000	0.0	20.5	0.0	0.000	0.000
HK40194298	3.800	-0.983	0.0	0.000	0.0	0.2	0.0	0.000	0.000
HK40194299	3.800	-0.892	0.0	0.000	0.0	0.1	0.0	0.000	0.000
HK40194301	3.800	-0.087	0.0	0.000	0.0	20.9	0.0	0.000	0.000
HK40194302	3.760	-0.036	0.0	0.000	0.0	20.9	0.0	0.000	0.000
HK40194398	3.800	-0.796	0.0	0.000	0.0	0.1	0.0	0.000	0.000
HK40194399	3.760	-0.718	0.0	0.000	0.0	0.1	0.0	0.000	0.000
HK40195102	3.900	-0.385	0.0	0.000	0.0	19.7	0.0	0.000	0.000
HK40195198	3.900	-1.032	0.0	0.000	0.0	1.0	0.0	0.000	0.000
HK40195199	3.800	-1.013	0.0	0.000	0.0	0.8	0.0	0.000	0.000
HK40195201	3.800	-0.271	0.0	0.000	0.0	19.9	0.0	0.000	0.000
HK40195299	3.800	-0.993	0.0	0.000	0.0	0.4	0.0	0.000	0.000
HK40196001	3.840	-0.621	0.0	0.000	0.0	18.7	0.0	0.000	0.000

HK40196099	3.840	-1.023	0.0	0.000	0.0	1.4	0.0	0.000	0.000
HK41180602	4.200	0.536	0.0	0.000	0.0	9.7	0.0	0.000	0.000
HK41180603	4.200	0.691	0.0	0.000	0.0	11.5	0.0	0.000	0.000
HK41180604	4.018	0.856	0.0	0.000	0.0	12.1	0.0	0.000	0.000
KEI YIP ST STORM DRAIN	4.100	0.591	0.0	0.000	0.0	0.2	0.0	0.000	0.000
KF06G540	4.310	3.281	0.0	0.000	0.0	0.0	0.0	0.000	0.000
KF06G541	4.110	3.167	0.0	0.000	0.0	0.0	0.0	0.000	0.000
KF06G542	4.040	2.859	0.0	0.000	0.0	0.0	0.0	0.000	0.000
KF06G543	4.060	2.824	0.0	0.000	0.0	0.0	0.0	0.000	0.000
KF06G544	4.090	2.525	0.0	0.000	0.0	0.0	0.0	0.000	0.000
KF06G545	4.170	2.336	0.0	0.000	0.0	0.0	0.0	0.000	0.000
KF06G547	4.100	3.142	0.0	0.000	0.0	0.0	0.0	0.000	0.000

Node Reference	Ground Level (m AD)	Max Level (m AD)	Flood Volume (m3)	Flood Depth (m)	Flood Area (m2)	Max Stored (m3)	Inflow (m3)	Vol Balance (m3)	Vol Balance (%)
KF06G548	4.450	3.114	0.0	0.000	0.0	0.0	0.0	0.000	0.000
KF06G549	4.180	3.290	0.0	0.000	0.0	0.0	0.0	0.000	0.000
KF0702CN4	3.860	0.138	0.0	0.000	0.0	21.4	0.0	0.000	0.000
KT_PS	3.740	-1.044	0.0	0.000	0.0	593.6	0.0	0.000	0.000
STW01	4.300	0.083	0.0	0.000	0.0	0.4	0.0	0.000	0.000
T1	4.070	1.753	0.0	0.000	0.0	14.4	3254.5	0.000	0.000
T2	4.300	0.981	0.0	0.000	0.0	17.3	2740.6	0.000	0.000
T3	5.000	1.317	0.0	0.000	0.0	15.5	1427.4	0.000	0.000

A %% indicates water lost from the system.

********** Link data **********

Link Reference	D/S Node	Pipe Len (m)	Pipe Hgt (mm)	Scd Dpth (mm)	P.Full Flow (m3/s)	Upstream < Invert Level (m AD)	Upstream Max Depth (m)	Upstream Max Flow (m3/s)	Upstream Max Vel (m/s)	Upstream > Total Flow (m3)	Downstream < Invert Level (m AD)	Downstream Max Depth (m)	Downstream Max Flow (m3/s)	Downstream Max Vel (m/s)	Downstream > Total Flow (m3)
BOX02.1	HK40190601	19	2300	4	3.689	-1.147	2.043	3.837	0.802	44982.4	-1.154	2.041	3.837	0.802	44896.6
BOX03.1	KF0702CN4	16	1400	70	7.970	-1.660	1.887	6.632	1.748	82799.4x	-1.790	1.931	6.632	1.719	82741.7x
BOX04.1	BOX05	13	2300	115	6.648	-1.890	1.908	6.633	1.288	82603.9	-1.900	1.901	6.634	1.293	82537.7
BOX05.1	HK40194302	25	2300	115	6.925	-1.900	1.895	6.635	1.298	82519.4	-1.920	1.885	6.638	1.308	82398.5
BOX06.2	HK40195102	21	1800	90	9.310	-2.100	1.743	6.695	1.422	81433.8	-2.160	1.776	6.702	1.399	81337.6
BOX07.1	HK40188701	50	2300	230	5.790	0.010	1.437	5.265	1.485	51545.2	-0.020	1.352	5.212	1.566	51385.6
BOX08.1	HK40187804	33	2300	230	11.778	-2.430	1.541	7.056	1.664	80185.7	-2.471	1.540	7.276	1.778	80073.5
C1.1	HK39210707	30	1800	4	8.655	1.790	0.448	1.130	2.340	16127.8	1.560	0.463	1.139	2.389	16114.9
C2.1	HK39212304	12	2300	4	-13.669	0.111	1.568	2.679	1.485	37332.9	0.140	1.536	2.679	1.619	37291.0
C3.1	HK39202505	58	2300	125	3.931	-0.290	1.720	2.947	1.102	37797.7	-0.320	1.720	2.947	1.319	37585.9
C4.1	HK39196701	19	2300	4	6.171	-0.910	1.989	3.645	0.779	43961.5	-0.930	2.000	3.644	0.775	43875.8
C5.1	HK40192501	62	2300	115	5.615	-1.275	1.987	6.625	1.473	83675.9	-1.340	1.930	6.626	1.518	83416.1
DWFI CS4A-1.1	HK40187893					0.960	0.000	0.000		0.0	0.960	0.000	0.000		0.0
DWFI CS4A-1.2	DWFI CS4A-2	4	400	4	0.000	0.450	0.024	0.000	0.000	0.0	0.450	0.024	0.000	0.000	0.0
DWFI CS4A-2.1	DWFI CS4A-3					0.450	0.000	0.000		0.0	0.450	0.000	0.000		0.0
DWFI CS4A-3.1	HK40187890	8	300	4	0.191	-0.500	0.034	0.000	0.000	0.0	-0.900	0.034	0.000	0.000	0.0
DWFI.1	HK39203002	86	2300	4	4.578	-0.550	1.839	3.546	0.966	44295.8	-0.600	1.846	3.545	0.953	43936.3
FLAP.1	HK40187892	5	2000	4	20.490	0.454	0.204	0.000	0.000	0.0	0.400	0.204	0.000	0.000	0.0
HK38218701.1	HK38219702	59	1350	4	2.254	2.820	0.071	0.000	0.000	0.0	2.680	0.071	0.000	0.000	0.0
HK38219701.1	HK39210705	34	1300	4	2.140	2.530	0.069	0.000	0.000	0.0	2.440	0.069	0.000	0.000	0.0
HK38219702.1	HK38219701	41	1300	4	2.524	2.680	0.069	0.000	0.000	0.0	2.530	0.069	0.000	0.000	0.0
HK39194801.1	HK39195802	62	2300	4	5.931	-0.710	1.926	3.545	0.851	43705.9	-0.770	1.959	3.545	0.804	43433.8
HK39195701.1	HK39196703	40	2300	4	5.222	-0.840	1.975	3.545	0.763	42947.8	-0.870	1.988	3.545	0.758	42769.0
HK39195801.1	HK39195701	36	2300	4	5.019	-0.815	1.968	3.545	0.767	43124.0	-0.840	1.977	3.545	0.762	42963.4
HK39195802.1	HK39195801	63	2300	4	5.104	-0.770	1.957	3.545	0.802	43418.4	-0.815	1.975	3.545	0.767	43139.6
HK39196701.1	HK39197701	45	2300	4	5.671	-0.930	1.998	3.644	0.776	43860.0	-0.970	2.018	3.644	0.769	43655.5
HK39196703.1	C4	45	2300	4	5.664	-0.870	1.981	3.545	0.761	42753.3	-0.910	2.002	3.545	0.754	42550.0
HK39197701.1	HK39197702	56	2300	4	7.189	-0.970	2.016	3.644	0.770	43639.5	-1.050	2.072	3.644	0.752	43380.9
HK39197702.1	HK39198703	56	2300	4	3.314	-1.050	2.070	3.644	0.753	43364.5	-1.067	2.063	3.644	0.755	43103.4
HK39198701.1	HK39199702	49	2300	4	4.283	-1.080	2.048	3.836	0.800	45588.4	-1.105	2.049	3.836	0.799	45360.5
HK39198703.1	T2	28	2300	4	3.209	-1.067	2.060	3.644	0.756	43087.1	-1.075	2.056	3.644	0.757	42956.7
HK39199701.1	BOX02	20	2300	4	3.532	-1.140	2.049	3.837	0.800	45092.4	-1.147	2.046	3.837	0.801	44998.6
HK39199702.1	HK39199701	51	2300	4	4.983	-1.105	2.041	3.836	0.802	45344.3	-1.140	2.052	3.837	0.799	45108.7
HK39202202.2	HK39203201	50	2300	4	5.588	-0.460	1.804	2.946	0.833	36469.8	-0.480	1.816	2.946	0.797	36264.0
HK39202203.1	HK39202202	5	2300	4	0.000	-0.460	1.807	2.946	0.837	36504.4	-0.460	1.806	2.946	0.836	36483.9
HK39202307.1	HK39202314	16	2300	4	23.569	-0.420	1.782	2.946	0.943	36824.0	-0.533	1.892	2.946	0.795	36757.4
HK39202312.1	HK39202307	45	2300	4	5.877	-0.400	1.772	2.947	1.001	37020.5	-0.420	1.785	2.946	0.948	36838.0
HK39202314.1	HK39202203	53	2300	4	-11.071	-0.543	1.901	2.946	0.783	36742.4	-0.460	1.808	2.946	0.840	36518.6
HK39202403.1	HK39202312	59	2300	4	7.288	-0.360	1.744	2.947	1.082	37269.0	-0.400	1.774	2.947	1.005	37034.4
HK39202505.1	HK39202403	74	2300	4	6.498	-0.320	1.718	2.947	1.136	37572.4	-0.360	1.745	2.947	1.086	37282.7
HK39202507.1	C3	7	2300	125	-4.139	-0.294	1.732	2.677	0.944	33981.9	-0.290	1.725	2.677	0.957	33956.3
HK39202601.1	HK39202507	19	2300	125	4.675	-0.280	1.731	2.677	0.940	34065.1	-0.294	1.737	2.677	0.945	33994.5
HK39202602.1	HK39202601	70	2300	125	4.148	-0.240	1.722	2.678	0.919	34332.8	-0.280	1.732	2.677	0.942	34077.6
HK39202702.1	HK39202602	16	2300	125	5.285	-0.225	1.715	2.678	0.922	34404.0	-0.240	1.723	2.678	0.920	34345.3
HK39202703.1	HK39202702	21	2300	125	4.627	-0.210	1.713	2.678	0.920	34492.9	-0.225	1.719	2.678	0.923	34416.5
HK39202704.1	HK39202703	32	2300	125	4.328	-0.190	1.708	2.678	0.915	34621.3	-0.210	1.714	2.678	0.922	34505.3
HK39202801.1	HK39202704	36	2300	125	4.075	-0.170	1.706	2.678	0.914	34764.3	-0.190	1.710	2.678	0.916	34633.7
HK39202802.1	HK39202801	44	2300	4	7.290	-0.140	1.684	2.678	0.915	34946.5	-0.170	1.707	2.678	0.839	34777.6
HK39202803.1	HK39202802	27	2300	4	5.378	-0.130	1.680	2.678	1.008	35062.1	-0.140	1.685	2.678	0.925	34959.7
HK39202901.1	HK39202803	47	2300	4	7.054	-0.100	1.659	2.678	1.198	35252.5	-0.130	1.681	2.678	1.030	35075.2
HK39202902.1	HK39202901	23	2300	4	5.826	-0.090	1.654	2.678	1.231	35351.2	-0.100	1.660	2.678	1.214	35265.4
HK39202903.1	HK39202902	42	2300	4	6.096	-0.070	1.642	2.678	1.262	35520.0	-0.090	1.655	2.678	1.244	35364.1
HK39203002.1	HK39194801	47	2300	4	9.202	-0.600	1.839	3.545	0.951	43921.8	-0.710	1.929	3.545	0.852	43721.1

Link Reference	D/S Node	Pipe Len (m)	Pipe Hgt (mm)	Sed Dpth (mm)	P.Full Flow (m3/s)	Upstream < Invert Level (m AD)	Max Depth (m)	Max Flow (m3/s)	Max Vel (m/s)	Total Flow > (m3)	Downstream < Invert Level (m AD)	Max Depth (m)	Max Flow (m3/s)	Max Vel (m/s)	Total Flow > (m3)
HK39203103.1	T3	21	2300	4	5.083	-0.510	1.834	2.946	0.753	36022.3	-0.525	1.842	2.946	0.741	35935.1
HK39203104.1	HK39203103	10	2300	4	8.817	-0.500	1.827	2.946	0.766	36078.6	-0.510	1.835	2.946	0.755	36036.7
HK39203201.1	HK39203104	38	2300	4	6.425	-0.480	1.814	2.946	0.795	36249.7	-0.500	1.828	2.946	0.767	36092.9
HK39210705.1	C1	31	1300	4	2.799	2.440	0.069	0.000	0.000	0.0	2.301	0.069	0.000	0.000	0.0
HK39210707.1	HK39211706	24	1800	4	9.816	1.560	0.463	1.138	2.492	16113.0	1.320	0.579	1.138	2.319	16100.0
HK39210708.1	HK39211706	4	375	4	0.173	2.050	0.041	0.000	0.000	0.0	2.000	0.041	0.000	0.000	0.0
HK39211401.1	HK39212404	12	2300	4	4.424	0.129	1.556	1.358	-0.841	18659.3	0.126	1.558	1.358	-0.815	18618.0
HK39211403.1	HK39211499	29	1800	4	5.128	0.300	1.466	1.130	1.369	15642.6	0.220	1.543	1.130	1.057	15577.3
HK39211404.1	HK39211405	25	707	4	2.152	-0.720	2.428	1.358	0.660	18764.8x	-0.760	2.452	1.358	0.659	18717.9x
HK39211405.1	HK39211401	12	707	4	-14.670	-0.760	2.448	1.358	0.659	18695.2x	0.129	1.557	1.358	-1.587	18673.3x
HK39211499.1	T1					0.220	1.542	1.130		15569.3	0.220	1.533	1.130		15569.3
HK39211501.1	HK39211403	40	1800	4	4.101	0.370	1.401	1.130	1.445	15735.2	0.300	1.467	1.130	1.400	15649.8
HK39211502.1	HK39211501	74	1800	4	4.422	0.520	1.262	1.130	1.544	15887.5	0.370	1.402	1.130	1.459	15742.0
HK39211601.1	HK39211602	43	1800	4	4.989	0.800	1.001	1.130	1.674	16050.2	0.690	1.103	1.130	1.722	15987.4
HK39211602.1	HK39211502	52	1800	4	5.621	0.690	1.102	1.130	1.716	15982.1	0.520	1.265	1.130	1.552	15893.6
HK39211706.1	HK39211601	47	1800	4	10.303	1.320	0.578	1.137	2.322	16097.5	0.800	1.003	1.130	1.677	16054.9
HK39212001.1	HK39202903	13	2300	4	7.770	-0.060	1.635	2.678	1.285	35580.5	-0.070	1.643	2.678	1.272	35532.8
HK39212002.1	HK39212001	22	2300	4	5.956	-0.050	1.630	2.679	1.290	35674.1	-0.060	1.636	2.678	1.295	35593.3
HK39212003.1	HK39212002	49	2300	4	5.639	-0.030	1.620	2.679	1.289	35866.1	-0.050	1.632	2.679	1.299	35686.8
HK39212004.1	HK39212003	17	2300	4	6.793	-0.020	1.614	2.679	1.301	35940.3	-0.030	1.621	2.679	1.297	35878.8
HK39212005.1	HK39212004	4	2300	4	9.787	-0.015	1.614	2.679	1.320	35967.7	-0.020	1.618	2.679	1.311	35952.9
HK39212101.1	HK39212108	41	1600	4	6.283	0.010	1.600	2.679	0.839	36292.3	-0.010	1.616	2.679	0.709	36044.0x
HK39212108.1	HK39212005	10	2300	4	6.231	-0.010	1.615	2.679	1.327	36016.8	-0.015	1.618	2.679	1.330	35980.3
HK39212201.1	HK39212101	70	2300	4	6.686	0.050	1.574	2.679	1.471	36567.9	0.010	1.601	2.679	1.709	36319.3
HK39212202.1	HK39212201	68	2300	4	6.773	0.090	1.548	2.679	1.419	36817.9	0.050	1.575	2.679	1.479	36580.1
HK39212301.1	HK39212202	26	2300	4	7.770	0.110	1.535	2.679	1.428	36919.0	0.090	1.549	2.679	1.429	36829.9
HK39212302.1	HK39212301	28	1100	4	3.534	0.120	1.532	2.679	0.784	37087.3x	0.110	1.536	2.679	0.684	36951.1x
HK39212303.1	HK39212302	21	2300	4	6.111	0.130	1.537	2.679	1.672	37190.9	0.120	1.543	2.679	1.755	37119.5
HK39212304.1	HK39212303	23	2300	4	5.903	0.140	1.533	2.679	1.609	37279.1	0.130	1.538	2.679	1.684	37202.9
HK39212402.1	C2	20	2300	4	5.572	0.119	1.563	1.357	-0.802	18545.0	0.111	1.570	1.357	-0.780	18474.9
HK39212404.1	HK39212402	14	2300	4	6.240	0.126	1.558	1.358	-0.825	18605.9	0.119	1.564	1.358	-0.793	18557.1
HK40187802.1	KT_PS	7	2300	230	8.332	-2.491	1.467	7.452	2.704	80004.3	-2.500	1.456	7.490	2.885	79990.4
HK40187803.1	HK40187802	7	2300	230	8.638	-2.482	1.497	7.387	2.537	80027.4	-2.491	1.490	7.428	2.681	80012.8
HK40187804.1	HK40187803	9	2300	230	8.149	-2.471	1.525	7.309	2.349	80058.4	-2.482	1.511	7.363	2.509	80036.5
HK40187890.1	KT_PS	5	2300	4	5.657	-2.500	1.456	-1.490	-0.963	-27.5	-2.510	1.466	-1.556	-0.991	-30.9
HK40187891.1	HK40187897					0.600	0.000	0.000		0.0	0.600	0.000	0.000		0.0
HK40187892.1	HK40187896	5	2000	4	19.716	0.400	0.204	0.000	0.000	0.0	0.350	0.204	0.000	0.000	0.0
HK40187893.1	KTIP OVERFLOW	6	2000	4	23.382	-1.600	0.204	0.000	0.000	0.0	-1.690	0.204	0.000	0.000	0.0
HK40187895.1	HK40187893	14	2000	4	15.119	0.280	0.104	0.000	0.000	0.0	0.200	0.104	0.000	0.000	0.0
HK40187896.1	HK40187895	13	2000	4	14.465	0.350	0.104	0.000	0.000	0.0	0.280	0.104	0.000	0.000	0.0
HK40187897.1	FLAP					0.850	0.000	0.000		0.0	0.850	0.000	0.000		0.0
HK40187898.1	HK40187890	9	2260	4	12.251	-2.412	1.367	-1.342	-0.949	-19.8	-2.500	1.456	-1.464	-0.945	-25.0
HK40187899.1	HK40187898	9	2220	4	4.605	-2.400	1.357	-1.201	-0.865	-13.8	-2.412	1.366	-1.317	-0.930	-17.6
HK40187902.1	BOX08	14	1624	162	4.713	-2.416	1.560	6.974	1.938	80245.9	-2.430	1.544	7.031	2.020	80203.6
HK40187903.1	HK40187902	14	1850	185	5.520	-2.402	1.586	6.928	1.877	80303.8	-2.416	1.571	6.960	1.951	80258.2
HK40187995.1	HK40187899	12	2207	4	6.288	-2.368	1.332	-1.120	-0.752	-8.1	-2.400	1.357	-1.176	-0.846	-11.6
HK40187997.1	HK40187995	32	1988	4	12.805	-1.910	0.871	-1.060	-1.021	-7.3	-2.368	1.332	-1.107	-0.725	-6.0
HK40187998.1	HK40187997	14	1086	4	1.992	-1.875	0.844	-0.970	-0.931	-4.4	-1.896	0.857	-1.042	-0.965	-6.6
HK40187999.1	HK40187998	13	1295	4	2.809	-1.842	0.829	-0.881	-0.918	-2.5	-1.867	0.835	-0.951	-0.939	-3.8
HK40188701.1	HK40188702	42	2300	230	6.314	-0.020	1.344	5.204	1.572	51374.6	-0.050	1.264	5.134	1.698	51253.4
HK40188702.1	HK40189607	59	2300	4	8.902	-0.050	1.260	5.125	1.517	51240.9	-0.085	1.247	4.992	1.511	51049.3
HK40188798.1	HK40189699	59	1849	4	3.767	0.400	1.024	2.856	1.546	27078.3	0.368	0.975	2.777	1.608	26976.7
HK40188799.1	HK40188798	45	1847	4	4.606	0.436	1.047	2.910	1.544	27165.9	0.400	1.029	2.861	1.541	27083.6

Link Reference	D/S Node	Pipe Len (m)	Pipe Hgt (mm)	Sed Dpth (mm)	P.Full Flow (m3/s)	Upstream < Invert Level (m AD)	Max Depth (m)	Max Flow (m3/s)	Max Vel (m/s)	Total Flow (m3) >	Downstream < Invert Level (m AD)	Max Depth (m)	Max Flow (m3/s)	Max Vel (m/s)	Total Flow (m3) >
HK40188802.1	BOX07	15	2300	230	6.085	0.020	1.467	5.279	1.463	51609.1	0.010	1.447	5.271	1.477	51557.0
HK40188898.1	HK40188799	48	1839	4	4.655	0.476	1.072	2.951	1.554	27263.7	0.436	1.053	2.914	1.540	27171.3
HK40188899.1	HK40188898	14	1835	4	3.594	0.483	1.089	2.968	1.544	27297.0	0.476	1.079	2.955	1.548	27269.2
HK40188901.1	HK40188802	110	2300	230	5.959	0.090	1.582	5.657	1.406	52028.4	0.020	1.478	5.285	1.455	51621.1
HK40188902.1	HK40188901	3	2300	230	89.367	0.550	1.159	5.682	2.165	52050.1	0.090	1.596	5.671	1.396	52041.5
HK40188902.2	HK40188999	3	2300	4	11.920	0.550	1.159	3.266	1.570	27549.2	0.540	1.167	3.258	1.556	27543.1
HK40188999.1	HK40188899	115	1843	4	3.604	0.540	1.156	3.251	1.533	27537.2	0.483	1.097	2.976	1.538	27302.6
HK40189601.1	HK41180604	56	2300	4	11.178	-0.170	1.200	7.380	2.283	77328.0	-0.222	1.078	7.321	2.556	77170.3
HK40189602.1	HK40189601	11	2300	4	10.864	-0.160	1.206	4.749	1.472	50613.2	-0.170	1.205	4.734	1.463	50579.0
HK40189603.1	HK40189602	18	2300	4	10.559	-0.145	1.210	4.779	1.485	50679.4	-0.160	1.208	4.756	1.474	50624.9
HK40189604.1	HK40189603	12	2300	4	7.579	-0.140	1.219	4.801	1.486	50726.7	-0.145	1.212	4.786	1.487	50691.2
HK40189605.1	HK40189604	19	2300	4	8.502	-0.130	1.228	4.831	1.491	50795.5	-0.140	1.221	4.808	1.488	50738.5
HK40189606.1	HK40189605	44	2300	4	9.533	-0.100	1.236	4.911	1.508	50945.6	-0.130	1.229	4.838	1.493	50807.5
HK40189607.1	HK40189606	25	2300	4	8.965	-0.085	1.244	4.983	1.512	51037.1	-0.100	1.239	4.921	1.507	50957.7
HK40189694.1	HK40189601	12	1836	4	3.596	0.302	0.774	2.662	1.985	26775.0	0.296	0.739	2.652	2.095	26760.6
HK40189695.1	HK40189694	20	1840	4	3.773	0.313	0.822	2.680	1.863	26804.5	0.302	0.775	2.665	1.988	26778.8
HK40189696.1	HK40189695	13	1841	4	3.819	0.320	0.848	2.691	1.809	26825.6	0.313	0.823	2.683	1.866	26808.7
HK40189697.1	HK40189696	20	1840	4	3.783	0.331	0.884	2.705	1.741	26858.0	0.320	0.849	2.694	1.811	26829.9
HK40189698.1	HK40189697	44	1842	4	3.755	0.355	0.945	2.731	1.645	26928.6	0.331	0.884	2.708	1.744	26862.5
HK40189699.1	HK40189698	24	1846	4	3.754	0.368	0.973	2.772	1.609	26971.7	0.355	0.946	2.736	1.647	26933.4
HK40190601.1	HK40190602	39	2300	4	3.852	-1.154	2.032	3.837	0.805	44880.5	-1.170	2.029	3.838	0.806	44701.5
HK40190602.1	HK40190603	31	2300	115	3.140	-1.170	2.020	3.838	-0.966	44685.4	-1.180	2.012	3.839	0.843	44552.3
HK40190603.1	HK40190604	47	2300	115	4.583	-1.180	2.009	3.839	-0.851	44537.3	-1.213	2.013	3.839	0.843	44332.7
HK40190604.1	HK40191502	40	2300	115	3.589	-1.213	2.010	3.839	0.844	44317.7	-1.230	2.003	3.840	0.847	44147.2
HK40191502.1	C5	42	2300	115	5.679	-1.230	1.994	3.840	0.851	44132.3	-1.275	2.014	3.841	0.843	43952.1
HK40192401.1	HK40193304	52	2300	115	3.869	-1.394	1.871	6.628	1.580	83202.1	-1.420	1.770	6.630	1.808	82999.3
HK40192501.1	HK40192401	46	2300	115	5.951	-1.340	1.921	6.627	1.524	83401.9	-1.394	1.879	6.628	1.576	83215.9
HK40193304.1	BOX03	44	2300	115	12.844	-1.420	1.762	6.630	1.807	82986.4	-1.660	1.923	6.632	1.745	82814.2
HK40193305.1	HK40194399	24	1144	4	1.018	-0.734	0.061	0.000	0.000	0.0	-0.774	0.061	0.000	0.000	0.0
HK40194201.1	HK40195201	38	2300	115	7.644	-2.030	1.813	6.666	1.377	81795.8	-2.067	1.796	6.679	1.396	81623.7
HK40194202.1	HK40194201	57	2300	115	7.331	-1.978	1.844	6.651	1.345	82081.6	-2.030	1.818	6.665	1.372	81813.1
HK40194298.1	HK40195299	38	1362	4	1.362	-1.073	0.090	0.000	0.017	0.0	-1.148	0.155	-0.012	0.302	0.0
HK40194299.1	HK40194298	57	1295	4	1.038	-0.961	0.069	0.000	0.000	0.0	-1.036	0.069	0.000	0.000	0.0
HK40194301.1	HK40194202	27	2300	115	2.967	-1.974	1.881	6.644	1.312	82228.5	-1.978	1.850	6.650	1.340	82099.3
HK40194302.1	HK40194301	28	2300	115	10.765	-1.920	1.866	6.639	1.323	82380.4	-1.974	1.887	6.643	1.307	82246.7
HK40194398.1	HK40194299	27	1216	4	1.280	-0.861	0.065	0.000	0.000	0.0	-0.923	0.065	0.000	0.000	0.0
HK40194399.1	HK40194398	27	1158	4	1.085	-0.780	0.062	0.000	0.000	0.0	-0.830	0.062	0.000	0.000	0.0
HK40195102.1	HK40196001	149	2300	115	7.711	-2.160	1.770	6.704	1.433	81320.5	-2.310	1.689	6.791	1.575	80683.4
HK40195198.1	HK40196099	149	1401	4	1.731	-1.291	0.259	-0.136	-0.552	-1.0	-1.382	0.359	-0.454	-1.134	-7.0
HK40195199.1	HK40195198	34	910	4	1.349	-1.221	0.208	-0.060	-0.329	-0.2	-1.259	0.227	-0.131	-0.553	-0.8
HK40195201.1	BOX06	34	1900	95	5.850	-2.067	1.769	6.680	1.396	81606.3	-2.100	1.753	6.693	1.417	81450.8
HK40195299.1	HK40195199	50	1019	4	0.584	-1.184	0.191	-0.013	0.156	0.0	-1.221	0.208	-0.057	-0.538	-0.2
HK40196001.1	HK40187903	93	2300	115	7.654	-2.310	1.684	6.794	1.581	80668.4	-2.402	1.613	6.921	1.787	80317.0
HK40196099.1	HK40187999	93	1553	4	5.300	-1.405	0.382	-0.466	-1.104	-7.1	-1.814	0.801	-0.863	-0.958	-2.0
HK41180602.1	HK41180601	16	2300	4	29.658	-0.340	0.875	7.324	3.228	77017.1	-0.440	0.875	7.325	3.228	76984.0
HK41180603.1	HK41180602	3	2300	4	-13.861	-0.344	1.034	7.325	2.667	77032.6	-0.340	1.017	7.326	2.717	77025.2
HK41180604.1	HK41180603	46	2300	4	18.186	-0.232	1.087	7.320	2.531	77159.9	-0.344	1.035	7.327	2.664	77042.5
KEI YIP ST STORM DRAIN.1	DWFI CS4A-1	28	1350	4	3.028	0.520	0.071	0.000	0.000	0.0	0.400	0.071	0.000	0.000	0.0
KF06G540.1	KF06G541	11	225	4	0.040	3.255	0.026	0.000	0.000	0.0	3.141	0.026	0.000	0.000	0.0
KF06G541.1	KF06G542	30	225	4	0.040	3.141	0.026	0.000	0.000	0.0	2.835	0.026	0.000	0.000	0.0
KF06G542.1	KF06G543	4	225	4	0.037	2.835	0.024	0.000	0.000	0.0	2.800	0.024	0.000	0.000	0.0
KF06G543.1	KF06G544	7	225	4	0.082	2.800	0.026	0.000	0.000	0.0	2.499	0.026	0.000	0.000	0.0
KF06G544.1	KF06G545	6	225	4	0.049	2.499	0.026	0.000	0.000	0.0	2.405	0.026	0.000	0.000	0.0

Link Reference	D/S Node	Pipe Len (m)	Pipe Hgt (mm)	Sed Dpth (mm)	P.Full Flow (m3/s)	Upstream < Invert Level (m AD)	Max Depth (m)	Max Flow (m3/s)	Max Vel (m/s)	Total Flow > (m3)	Downstream < Invert Level (m AD)	Max Depth (m)	Max Flow (m3/s)	Max Vel (m/s)	Total Flow > (m3)
KF06G545.1	BOX07	1	200	4	0.027	2.312	0.024	0.000	0.000	0.0	2.303	0.024	0.000	0.000	0.0
KF06G547.1	KF06G548	14	225	4	0.018	3.118	0.024	0.000	0.000	0.0	3.090	0.024	0.000	0.000	0.0
KF06G548.1	KF06G542	16	225	4	0.029	3.090	0.024	0.000	0.000	0.0	3.001	0.024	0.000	0.000	0.0
KF06G549.1	KF06G548	11	225	4	0.036	3.266	0.024	0.000	0.000	0.0	3.172	0.024	0.000	0.000	0.0
KF0702CN4.1	BOX04	22	1400	70	7.338	-1.790	1.904	6.632	1.448	82722.0x	-1.890	1.924	6.633	1.438	82623.5x
KT_PS.1	HK40188902					-1.950	0.906	2.300		30429.0	-1.950	3.659	2.300		30429.0
KT_PS.3	HK40188902					-1.800	0.756	2.300		27189.5	-1.800	3.509	2.300		27189.5
KT_PS.4	HK40188902					-1.650	0.606	2.300		16553.1	-1.650	3.359	2.300		16553.1
KT_PS.5	HK40188902					-1.500	0.456	2.300		5619.2	-1.500	3.209	2.300		5619.2
KT_PS.6	HK40187891					0.600	0.000	0.000		0.0	0.600	0.000	0.000		0.0
STW01.1	STW	18	1575	4	0.000	0.000	0.083	0.000	0.000	0.0	0.000	0.083	0.000	0.000	0.0
T1.1	HK39211404	12	707	4	15.085	0.220	1.508	1.358	1.228	18809.3x	-0.720	2.432	1.358	0.659	18787.3x
T2.1	HK39198701	17	2300	4	3.311	-1.075	2.054	3.836	0.798	45681.0	-1.080	2.051	3.836	0.799	45604.7
T3.1	DWFI	42	2300	4	4.640	-0.525	1.836	3.046	0.780	37348.0	-0.550	1.846	3.046	0.761	37173.3

+ after total flow indicates a conduit surcharged by flow and depth at that end.
x after total flow indicates a conduit surcharged by depth only at that end.

NOTE :
(i) Maximum elevations, depths, volumes, velocities and discharges are selected from the values at each time increment and will be in general more extreme than the maximum values in the time varying results.
(ii) Maximum elevations, velocities and discharges are not necessarily calculated at the same time.
(iii) Maximum velocity is not calculated for a conduit unless the depth exceeds the base flow depth (by default, this is 5% of height for slopes <= 0.01, 10% otherwise, subject to a minimum of 0.02 m).

End of run 0 mins (elapsed) Produced on 23/05/2008 Last page

Start of run configured for MS Windows Produced on 23/05/2008 at 20:35

Trunk 2016
PWWF

HydroWorks(tm) SIM

Summary results from Simulation

Version 6.1.807 dated June 2006

Licence Number - WS01550002PM

Message 253: Run finished for event 1.

Summary results for event 1 - DWF
Started at 00000000000000. Run for 240.00 min. (Requested simulation time 240.00 min)

Files used:
Network: ...\NET26#3.spb 2016 - ADWF_updated #1 (Revision 3)
State:
Runoff: ...\NET26#3.rpf 2016 - ADWF_updated #1 (Revision 3) (InfoWorks 7.51.13014)
Rainfall:
DWF:
Inflows: ...\SIM161event.qin 1
Levels:
RTC:
Results: ...\SIM161.iwr

Total rainfall = 0.0 m3
Total runoff = 0.0 m3
Total inflow = 120766.0 m3
Total outflow = 96437.7 m3
Total lost = 0.0 m3

********** Node data **********

Node Reference	Ground Level (m AD)	Max Level (m AD)	Flood Volume (m3)	Flood Depth (m)	Flood Area (m2)	Max Stored (m3)	Inflow (m3)	Vol Balance (m3)	Vol Balance (%)
BOX02	4.250	1.631	0.0	0.000	0.0	23.3	0.0	0.000	0.000
BOX03	3.870	0.739	0.0	0.000	0.0	20.2	0.0	0.000	0.000
BOX04	3.800	0.378	0.0	0.000	0.0	25.2	0.0	0.000	0.000
BOX05	3.800	0.337	0.0	0.000	0.0	24.8	0.0	0.000	0.000
BOX06	4.090	-0.104	0.0	0.000	0.0	22.2	0.0	0.000	0.000
BOX07	4.100	1.623	0.0	0.000	0.0	17.9	0.0	0.000	0.000
BOX08	4.000	-0.817	0.0	0.000	0.0	27.6	0.0	0.000	0.000
C1	6.050	3.447	0.0	0.000	0.0	8.6	26992.1	0.000	0.000
C2	5.030	3.015	0.0	0.000	0.0	24.4	24694.0	0.000	0.000
C3	4.910	2.597	0.0	0.000	0.0	24.3	4781.8	0.000	0.000
C4	5.000	1.994	0.0	0.000	0.0	24.4	1741.4	0.000	0.000
C5	4.150	1.344	0.0	0.000	0.0	22.0	45719.6	0.000	0.000
DWFI	4.800	2.353	0.0	0.000	0.0	24.4	7137.0	0.000	0.000
DWFI CS4A-1	3.720	0.471	0.0	0.000	0.0	0.2	0.0	0.000	0.000
DWFI CS4A-2	3.720	0.450	0.0	0.000	0.0	0.0	0.0	0.000	0.000
DWFI CS4A-3	3.720	-0.466	0.0	0.000	0.0	0.1	0.0	0.000	0.000
FLAP	4.000	0.658	0.0	0.000	0.0	1.5	0.0	0.000	0.000
HK38218701	5.470	3.447	0.0	0.000	0.0	2.2	0.0	0.000	0.000
HK38219701	6.060	3.447	0.0	0.000	0.0	3.0	0.0	0.000	0.000
HK38219702	5.752	3.447	0.0	0.000	0.0	3.4	0.0	0.000	0.000
HK39194801	5.950	2.221	0.0	0.000	0.0	24.6	0.0	0.000	0.000
HK39195701	5.400	2.079	0.0	0.000	0.0	24.5	0.0	0.000	0.000
HK39195801	5.750	2.125	0.0	0.000	0.0	24.7	0.0	0.000	0.000
HK39195802	5.850	2.173	0.0	0.000	0.0	24.7	0.0	0.000	0.000
HK39196701	4.990	1.942	0.0	0.000	0.0	24.1	0.0	0.000	0.000
HK39196703	5.000	2.046	0.0	0.000	0.0	24.5	0.0	0.000	0.000
HK39197701	4.500	1.903	0.0	0.000	0.0	24.1	0.0	0.000	0.000
HK39197702	4.390	1.857	0.0	0.000	0.0	24.4	0.0	0.000	0.000
HK39198701	4.250	1.764	0.0	0.000	0.0	23.9	0.0	0.000	0.000
HK39198703	4.400	1.811	0.0	0.000	0.0	24.2	0.0	0.000	0.000
HK39199701	4.290	1.655	0.0	0.000	0.0	23.5	0.0	0.000	0.000
HK39199702	4.300	1.718	0.0	0.000	0.0	23.7	0.0	0.000	0.000
HK39202202	4.400	2.449	0.0	0.000	0.0	24.4	0.0	0.000	0.000
HK39202203	4.150	2.456	0.0	0.000	0.0	24.5	0.0	0.000	0.000
HK39202307	4.300	2.486	0.0	0.000	0.0	24.4	0.0	0.000	0.000
HK39202312	4.500	2.502	0.0	0.000	0.0	24.4	0.0	0.000	0.000
HK39202314	4.387	2.474	0.0	0.000	0.0	21.6	0.0	0.000	0.000
HK39202403	4.700	2.521	0.0	0.000	0.0	24.2	0.0	0.000	0.000
HK39202505	4.900	2.544	0.0	0.000	0.0	24.1	0.0	0.000	0.000

HK39202507	4.910	2.616	0.0	0.000	0.0	24.4	0.0	0.000	0.000
HK39202601	4.900	2.631	0.0	0.000	0.0	24.5	0.0	0.000	0.000
HK39202602	5.100	2.672	0.0	0.000	0.0	24.5	0.0	0.000	0.000
HK39202702	5.150	2.696	0.0	0.000	0.0	24.5	0.0	0.000	0.000
HK39202703	5.200	2.711	0.0	0.000	0.0	24.5	0.0	0.000	0.000
HK39202704	4.780	2.734	0.0	0.000	0.0	24.6	0.0	0.000	0.000
HK39202801	5.200	2.758	0.0	0.000	0.0	24.6	0.0	0.000	0.000
HK39202802	4.990	2.772	0.0	0.000	0.0	24.5	0.0	0.000	0.000
HK39202803	5.350	2.782	0.0	0.000	0.0	24.5	0.0	0.000	0.000
HK39202901	4.750	2.796	0.0	0.000	0.0	24.3	0.0	0.000	0.000
HK39202902	4.850	2.805	0.0	0.000	0.0	24.3	0.0	0.000	0.000
HK39202903	4.850	2.818	0.0	0.000	0.0	24.4	0.0	0.000	0.000
HK39203002	4.900	2.273	0.0	0.000	0.0	24.1	0.0	0.000	0.000
HK39203103	5.300	2.410	0.0	0.000	0.0	24.5	0.0	0.000	0.000

Node Reference	Ground Level (m AD)	Max Level (m AD)	Flood Volume (m3)	Flood Depth (m)	Flood Area (m2)	Max Stored (m3)	Inflow (m3)	Vol Balance (m3)	Vol Balance (%)
HK39203104	5.000	2.418	0.0	0.000	0.0	24.5	0.0	0.000	0.000
HK39203201	4.200	2.432	0.0	0.000	0.0	24.5	0.0	0.000	0.000
HK39210705	6.270	3.447	0.0	0.000	0.0	3.3	0.0	0.000	0.000
HK39210707	6.020	3.418	0.0	0.000	0.0	9.7	0.0	0.000	0.000
HK39210708	5.640	3.398	0.0	0.000	0.0	2.0	0.0	0.000	0.000
HK39211401	5.130	3.029	0.0	0.000	0.0	27.3	0.0	0.000	0.000
HK39211403	4.240	3.225	0.0	0.000	0.0	15.2	0.0	0.000	0.000
HK39211404	4.900	3.101	0.0	0.000	0.0	35.9	0.0	0.000	0.000
HK39211405	5.070	3.049	0.0	0.000	0.0	35.8	0.0	0.000	0.000
HK39211499	4.070	3.208	0.0	0.000	0.0	15.5	0.0	0.000	0.000
HK39211501	4.480	3.248	0.0	0.000	0.0	15.0	0.0	0.000	0.000
HK39211502	4.320	3.298	0.0	0.000	0.0	14.4	0.0	0.000	0.000
HK39211601	5.430	3.362	0.0	0.000	0.0	13.3	0.0	0.000	0.000
HK39211602	5.470	3.324	0.0	0.000	0.0	13.7	0.0	0.000	0.000
HK39211706	5.790	3.398	0.0	0.000	0.0	10.8	0.0	0.000	0.000
HK39212001	4.850	2.825	0.0	0.000	0.0	24.2	0.0	0.000	0.000
HK39212002	4.850	2.834	0.0	0.000	0.0	24.2	0.0	0.000	0.000
HK39212003	5.150	2.849	0.0	0.000	0.0	24.2	0.0	0.000	0.000
HK39212004	4.950	2.868	0.0	0.000	0.0	24.3	0.0	0.000	0.000
HK39212005	4.950	2.885	0.0	0.000	0.0	24.4	0.0	0.000	0.000
HK39212101	5.000	2.904	0.0	0.000	0.0	51.5	0.0	0.000	0.000
HK39212108	4.950	2.892	0.0	0.000	0.0	51.7	0.0	0.000	0.000
HK39212201	5.550	2.923	0.0	0.000	0.0	24.1	0.0	0.000	0.000
HK39212202	5.330	2.941	0.0	0.000	0.0	24.0	0.0	0.000	0.000
HK39212301	5.150	2.951	0.0	0.000	0.0	61.6	0.0	0.000	0.000
HK39212302	5.150	2.978	0.0	0.000	0.0	62.0	0.0	0.000	0.000
HK39212303	5.150	2.987	0.0	0.000	0.0	24.0	0.0	0.000	0.000
HK39212304	5.150	3.006	0.0	0.000	0.0	24.3	0.0	0.000	0.000
HK39212402	5.100	3.021	0.0	0.000	0.0	24.4	0.0	0.000	0.000
HK39212404	5.100	3.026	0.0	0.000	0.0	24.4	0.0	0.000	0.000
HK40187802	3.750	-0.983	0.0	0.000	0.0	16.7	0.0	0.000	0.000
HK40187803	3.750	-0.932	0.0	0.000	0.0	17.2	0.0	0.000	0.000
HK40187804	3.750	-0.874	0.0	0.000	0.0	27.3	0.0	0.000	0.000
HK40187890	3.850	-1.057	0.0	0.000	0.0	5.3	0.0	0.000	0.000
HK40187891	3.850	0.600	0.0	0.000	0.0	0.0	0.0	0.000	0.000
HK40187892	3.800	0.604	0.0	0.000	0.0	1.5	0.0	0.000	0.000
HK40187893	3.800	-1.396	0.0	0.000	0.0	1.5	0.0	0.000	0.000
HK40187895	3.750	0.384	0.0	0.000	0.0	0.8	0.0	0.000	0.000
HK40187896	3.750	0.454	0.0	0.000	0.0	0.8	0.0	0.000	0.000
HK40187897	3.800	0.600	0.0	0.000	0.0	0.1	0.0	0.000	0.000
HK40187898	3.800	-1.056	0.0	0.000	0.0	5.0	0.0	0.000	0.000

HK40187899	3.800	-1.054	0.0	0.000	0.0	5.0	0.0	0.000	0.000
HK40187902	3.800	-0.756	0.0	0.000	0.0	18.4	0.0	0.000	0.000
HK40187903	3.800	-0.670	0.0	0.000	0.0	19.2	0.0	0.000	0.000
HK40187995	3.800	-1.052	0.0	0.000	0.0	4.9	0.0	0.000	0.000
HK40187997	3.800	-1.048	0.0	0.000	0.0	3.2	0.0	0.000	0.000
HK40187998	3.800	-1.049	0.0	0.000	0.0	3.1	0.0	0.000	0.000
HK40187999	3.800	-1.051	0.0	0.000	0.0	2.9	0.0	0.000	0.000
HK40188701	4.300	1.511	0.0	0.000	0.0	17.0	0.0	0.000	0.000
HK40188702	4.200	1.402	0.0	0.000	0.0	16.1	0.0	0.000	0.000
HK40188798	4.200	1.576	0.0	0.000	0.0	7.1	0.0	0.000	0.000
HK40188799	4.300	1.639	0.0	0.000	0.0	7.2	0.0	0.000	0.000
HK40188802	4.100	1.665	0.0	0.000	0.0	18.3	0.0	0.000	0.000

Node Reference	Ground Level (m AD)	Max Level (m AD)	Flood Volume (m3)	Flood Depth (m)	Flood Area (m2)	Max Stored (m3)	Inflow (m3)	Vol Balance (m3)	Vol Balance (%)
HK40188898	4.100	1.705	0.0	0.000	0.0	7.4	0.0	0.000	0.000
HK40188899	4.100	1.734	0.0	0.000	0.0	7.5	0.0	0.000	0.000
HK40188901	3.900	1.845	0.0	0.000	0.0	19.5	0.0	0.000	0.000
HK40188902	3.900	1.865	0.0	0.000	0.0	263.0	0.0	0.000	0.000
HK40188999	3.900	1.861	0.0	0.000	0.0	7.9	0.0	0.000	0.000
HK40189601	4.460	1.180	0.0	0.000	0.0	15.0	0.0	0.000	0.000
HK40189602	3.740	1.199	0.0	0.000	0.0	15.1	0.0	0.000	0.000
HK40189603	3.740	1.224	0.0	0.000	0.0	15.2	0.0	0.000	0.000
HK40189604	3.740	1.244	0.0	0.000	0.0	15.4	0.0	0.000	0.000
HK40189605	3.740	1.264	0.0	0.000	0.0	15.5	0.0	0.000	0.000
HK40189606	4.150	1.312	0.0	0.000	0.0	15.7	0.0	0.000	0.000
HK40189607	4.150	1.343	0.0	0.000	0.0	15.9	0.0	0.000	0.000
HK40189694	3.740	1.217	0.0	0.000	0.0	5.5	0.0	0.000	0.000
HK40189695	3.740	1.273	0.0	0.000	0.0	5.8	0.0	0.000	0.000
HK40189696	3.740	1.307	0.0	0.000	0.0	5.9	0.0	0.000	0.000
HK40189697	3.740	1.351	0.0	0.000	0.0	6.1	0.0	0.000	0.000
HK40189698	4.150	1.438	0.0	0.000	0.0	6.5	0.0	0.000	0.000
HK40189699	4.150	1.485	0.0	0.000	0.0	6.7	0.0	0.000	0.000
HK40190601	4.150	1.608	0.0	0.000	0.0	23.2	0.0	0.000	0.000
HK40190602	4.150	1.554	0.0	0.000	0.0	22.9	0.0	0.000	0.000
HK40190603	4.150	1.501	0.0	0.000	0.0	22.5	0.0	0.000	0.000
HK40190604	4.150	1.450	0.0	0.000	0.0	22.4	0.0	0.000	0.000
HK40191502	4.290	1.406	0.0	0.000	0.0	22.1	0.0	0.000	0.000
HK40192401	4.150	0.997	0.0	0.000	0.0	20.1	0.0	0.000	0.000
HK40192501	4.290	1.128	0.0	0.000	0.0	20.7	0.0	0.000	0.000
HK40193304	4.150	0.849	0.0	0.000	0.0	19.1	0.0	0.000	0.000
HK40193305	3.800	-0.673	0.0	0.000	0.0	0.1	0.0	0.000	0.000
HK40194201	3.800	0.088	0.0	0.000	0.0	23.5	0.0	0.000	0.000
HK40194202	3.800	0.181	0.0	0.000	0.0	24.0	0.0	0.000	0.000
HK40194298	3.800	-0.994	0.0	0.000	0.0	0.2	0.0	0.000	0.000
HK40194299	3.800	-0.892	0.0	0.000	0.0	0.1	0.0	0.000	0.000
HK40194301	3.800	0.229	0.0	0.000	0.0	24.5	0.0	0.000	0.000
HK40194302	3.760	0.295	0.0	0.000	0.0	24.6	0.0	0.000	0.000
HK40194398	3.800	-0.796	0.0	0.000	0.0	0.1	0.0	0.000	0.000
HK40194399	3.760	-0.718	0.0	0.000	0.0	0.1	0.0	0.000	0.000
HK40195102	3.900	-0.171	0.0	0.000	0.0	22.1	0.0	0.000	0.000
HK40195198	3.900	-1.046	0.0	0.000	0.0	0.9	0.0	0.000	0.000
HK40195199	3.800	-1.037	0.0	0.000	0.0	0.7	0.0	0.000	0.000
HK40195201	3.800	0.022	0.0	0.000	0.0	23.2	0.0	0.000	0.000
HK40195299	3.800	-1.011	0.0	0.000	0.0	0.3	0.0	0.000	0.000
HK40196001	3.840	-0.465	0.0	0.000	0.0	20.5	0.0	0.000	0.000

HK40196099	3.840	-1.044	0.0	0.000	0.0	1.3	0.0	0.000	0.000
HK41180602	4.200	0.638	0.0	0.000	0.0	10.9	0.0	0.000	0.000
HK41180603	4.200	0.800	0.0	0.000	0.0	12.7	0.0	0.000	0.000
HK41180604	4.018	0.980	0.0	0.000	0.0	13.5	0.0	0.000	0.000
KEI YIP ST STORM DRAIN	4.100	0.591	0.0	0.000	0.0	0.2	0.0	0.000	0.000
KF06G540	4.310	3.281	0.0	0.000	0.0	0.0	0.0	0.000	0.000
KF06G541	4.110	3.167	0.0	0.000	0.0	0.0	0.0	0.000	0.000
KF06G542	4.040	2.859	0.0	0.000	0.0	0.0	0.0	0.000	0.000
KF06G543	4.060	2.824	0.0	0.000	0.0	0.0	0.0	0.000	0.000
KF06G544	4.090	2.525	0.0	0.000	0.0	0.0	0.0	0.000	0.000
KF06G545	4.170	2.336	0.0	0.000	0.0	0.0	0.0	0.000	0.000
KF06G547	4.100	3.142	0.0	0.000	0.0	0.0	0.0	0.000	0.000

Node Reference	Ground Level (m AD)	Max Level (m AD)	Flood Volume (m3)	Flood Depth (m)	Flood Area (m2)	Max Stored (m3)	Inflow (m3)	Vol Balance (m3)	Vol Balance (%)
KF06G548	4.450	3.114	0.0	0.000	0.0	0.0	0.0	0.000	0.000
KF06G549	4.180	3.290	0.0	0.000	0.0	0.0	0.0	0.000	0.000
KF0702CN4	3.860	0.546	0.0	0.000	0.0	25.9	0.0	0.000	0.000
KT_PS	3.740	-1.059	0.0	0.000	0.0	590.4	0.0	0.001	0.000
STW01	4.300	0.083	0.0	0.000	0.0	0.4	0.0	0.000	0.000
T1	4.070	3.190	0.0	0.000	0.0	27.9	4567.7	0.000	0.000
T2	4.300	1.784	0.0	0.000	0.0	24.0	3325.8	0.000	0.000
T3	5.000	2.394	0.0	0.000	0.0	24.5	1755.7	0.000	0.000

A %% indicates water lost from the system.

********** Link data **********

Link Reference	D/S Node	Pipe Len (m)	Pipe Hgt (mm)	Sed Dpth (mm)	P.Full Flow (m3/s)	Upstream < Invert Level (m AD)	Upstream Max Depth (m)	Upstream Max Flow (m3/s)	Upstream Max Vel (m/s)	Upstream > Total Flow (m3)	Downstream < Invert Level (m AD)	Downstream Max Depth (m)	Downstream Max Flow (m3/s)	Downstream Max Vel (m/s)	Downstream > Total Flow (m3)
BOX02.1	HK40190601	19	2300	4	3.689	-1.147	2.770	5.191	0.873	60164.8+	-1.154	2.763	5.190	0.874	60057.4+
BOX03.1	KF0702CN4	16	1400	70	7.970	-1.660	2.358	8.387	1.855	103477.4+	-1.790	2.340	8.387	1.866	103409.0+
BOX04.1	BOX05	13	2300	115	6.648	-1.890	2.245	8.387	1.358	103246.5	-1.900	2.238	8.388	1.362	103166.4
BOX05.1	HK40194302	25	2300	115	6.925	-1.900	2.228	8.388	1.368	103144.0	-1.920	2.216	8.390	1.375	102997.6
BOX06.2	HK40195102	21	1800	90	9.310	-2.100	1.979	8.407	1.560	101834.7x	-2.160	1.991	8.408	1.552	101723.9x
BOX07.1	HK40188701	50	2300	230	5.790	0.010	1.600	5.809	1.479	63767.6	-0.020	1.532	5.780	1.557	63552.5
BOX08.1	HK40187804	33	2300	230	11.778	-2.430	1.608	8.472	1.755	100366.1	-2.471	1.598	8.539	1.838	100230.1
C1.1	HK39210707	30	1800	4	8.655	1.790	1.640	1.891	2.731	26824.3	1.560	1.858	1.905	2.752	26751.5x
C2.1	HK39212304	12	2300	4	-13.669	0.111	2.898	3.933	1.761	54542.0x	0.140	2.866	3.932	1.918	54469.7x
C3.1	HK39202505	58	2300	125	3.931	-0.290	2.870	4.244	1.277	53942.9+	-0.320	2.864	4.243	1.512	53611.7+
C4.1	HK39196701	19	2300	4	6.171	-0.910	2.866	4.965	0.818	59058.6x	-0.930	2.872	4.965	0.816	58946.0x
C5.1	HK40192501	62	2300	115	5.615	-1.275	2.557	8.390	1.538	104570.6+	-1.340	2.469	8.389	1.575	104251.3+
DWFI CS4A-1.1	HK40187893					0.960	0.000	0.000		0.0	0.960	0.000	0.000		0.0
DWFI CS4A-1.2	DWFI CS4A-2	4	400	4	0.000	0.450	0.024	0.000	0.000	0.0	0.450	0.024	0.000	0.000	0.0
DWFI CS4A-2.1	DWFI CS4A-3					0.450	0.000	0.000		0.0	0.450	0.000	0.000		0.0
DWFI CS4A-3.1	HK40187890	8	300	4	0.191	-0.500	0.034	0.000	0.000	0.0	-0.900	0.034	0.000	0.000	0.0
DWFI.1	HK39203002	86	2300	4	4.578	-0.550	2.881	4.854	1.080	59746.6+	-0.600	2.874	4.851	1.063	59234.7+
FLAP.1	HK40187892	5	2000	4	20.490	0.454	0.204	0.000	0.000	0.0	0.400	0.204	0.000	0.000	0.0
HK38218701.1	HK38219702	59	1350	4	2.254	2.820	0.627	0.000	-0.008	-1.9	2.680	0.767	-0.008	-0.052	-43.9
HK38219701.1	HK39210705	34	1300	4	2.140	2.530	0.917	-0.016	-0.054	-86.0	2.440	1.007	-0.022	-0.058	-121.1
HK38219702.1	HK38219701	41	1300	4	2.524	2.680	0.767	-0.009	-0.060	-47.0	2.530	0.917	-0.016	-0.052	-83.2
HK39194801.1	HK39195802	62	2300	4	5.931	-0.710	2.924	4.850	0.956	58907.8x	-0.770	2.944	4.848	0.900	58535.8x
HK39195701.1	HK39196703	40	2300	4	5.222	-0.840	2.913	4.846	0.827	57872.1x	-0.870	2.916	4.845	0.804	57633.4x
HK39195801.1	HK39195701	36	2300	4	5.019	-0.815	2.918	4.847	0.852	58111.2x	-0.840	2.920	4.846	0.828	57895.6x
HK39195802.1	HK39195801	63	2300	4	5.104	-0.770	2.937	4.848	0.898	58512.1x	-0.815	2.940	4.847	0.852	58134.9x
HK39196701.1	HK39197701	45	2300	4	5.671	-0.930	2.865	4.965	0.817	58922.9x	-0.970	2.874	4.964	0.814	58656.2x
HK39196703.1	C4	45	2300	4	5.664	-0.870	2.894	4.845	0.805	57609.9x	-0.910	2.905	4.844	0.790	57340.6x
HK39197701.1	HK39197702	56	2300	4	7.189	-0.970	2.866	4.964	0.815	58633.1x	-1.050	2.908	4.963	0.806	58299.6x
HK39197702.1	HK39198703	56	2300	4	3.314	-1.050	2.901	4.962	0.808	58276.2+	-1.067	2.879	4.961	0.812	57942.7+
HK39198701.1	HK39199702	49	2300	4	4.283	-1.080	2.836	5.193	0.859	60936.0+	-1.105	2.824	5.192	0.861	60646.8+
HK39198703.1	T2	28	2300	4	3.209	-1.067	2.871	4.961	0.813	57919.5+	-1.075	2.860	4.961	0.815	57753.3+
HK39199701.1	BOX02	20	2300	4	3.532	-1.140	2.787	5.191	0.869	60304.9+	-1.147	2.779	5.191	0.871	60187.1+
HK39199702.1	HK39199701	51	2300	4	4.983	-1.105	2.799	5.192	0.866	60624.1+	-1.140	2.795	5.191	0.867	60327.3+
HK39202202.2	HK39203201	50	2300	4	5.588	-0.460	2.904	4.235	1.001	51936.8x	-0.480	2.913	4.234	0.943	51636.1x
HK39202203.1	HK39202202	5	2300	4	0.000	-0.460	2.911	4.236	1.010	51990.2+	-0.460	2.910	4.236	1.006	51960.2+
HK39202307.1	HK39202314	16	2300	4	23.569	-0.420	2.898	4.238	1.140	52454.4x	-0.533	3.007	4.237	0.975	52357.5x
HK39202312.1	HK39202307	45	2300	4	5.877	-0.400	2.897	4.239	1.199	52749.3x	-0.420	2.906	4.238	1.145	52477.8x
HK39202314.1	HK39202203	53	2300	4	-11.071	-0.543	3.012	4.237	0.960	52336.9x	-0.460	2.916	4.236	1.016	52013.7x
HK39202403.1	HK39202312	59	2300	4	7.288	-0.360	2.876	4.240	1.281	53124.9x	-0.400	2.902	4.239	1.204	52772.7x
HK39202505.1	HK39202403	74	2300	4	6.498	-0.320	2.859	4.242	1.333	53588.6x	-0.360	2.881	4.241	1.287	53148.1x
HK39202507.1	C3	7	2300	125	-4.139	-0.294	2.895	3.909	1.112	49223.4x	-0.290	2.888	3.909	1.127	49183.4x
HK39202601.1	HK39202507	19	2300	125	4.675	-0.280	2.906	3.910	1.105	49356.3x	-0.294	2.910	3.909	1.114	49245.9x
HK39202602.1	HK39202601	70	2300	125	4.148	-0.240	2.908	3.912	1.074	49780.1x	-0.280	2.911	3.910	1.107	49378.8x
HK39202702.1	HK39202602	16	2300	125	5.285	-0.225	2.906	3.912	1.076	49895.3x	-0.240	2.912	3.912	1.076	49802.6x
HK39202703.1	HK39202702	21	2300	125	4.627	-0.210	2.917	3.913	1.072	50039.2x	-0.225	2.921	3.913	1.077	49917.9x
HK39202704.1	HK39202703	32	2300	125	4.328	-0.190	2.919	3.914	1.065	50246.7x	-0.210	2.922	3.913	1.074	50061.8x
HK39202801.1	HK39202704	36	2300	125	4.075	-0.170	2.924	3.915	1.073	50478.1x	-0.190	2.925	3.914	1.068	50269.3x
HK39202802.1	HK39202801	44	2300	4	7.290	-0.140	2.907	3.916	1.097	50767.5x	-0.170	2.929	3.915	0.987	50501.7x
HK39202803.1	HK39202802	27	2300	4	5.378	-0.130	2.908	3.917	1.230	50953.3x	-0.140	2.912	3.917	1.111	50791.0x
HK39202901.1	HK39202803	47	2300	4	7.054	-0.100	2.892	3.919	1.425	51259.5x	-0.130	2.912	3.917	1.252	50976.7x
HK39202902.1	HK39202901	23	2300	4	5.826	-0.090	2.891	3.919	1.458	51420.6x	-0.100	2.896	3.919	1.442	51282.8x
HK39202903.1	HK39202902	42	2300	4	6.096	-0.070	2.884	3.921	1.482	51695.4x	-0.090	2.896	3.920	1.472	51443.9x
HK39203002.1	HK39194801	47	2300	4	9.202	-0.600	2.852	4.851	1.061	59211.6x	-0.710	2.932	4.850	0.958	58931.4x

Link Reference	D/S Node	Pipe Len (m)	Pipe Hgt (mm)	Sed Dpth (mm)	P.Full Flow (m3/s)	Upstream < Invert Level (m AD)	Max Depth (m)	Max Flow (m3/s)	Max Vel (m/s)	Total Flow > (m3)	Downstream < Invert Level (m AD)	Max Depth (m)	Max Flow (m3/s)	Max Vel (m/s)	Total Flow > (m3)
HK39203103.1	T3	21	2300	4	5.083	-0.510	2.915	4.232	0.888	51277.2x	-0.525	2.920	4.232	0.875	51151.4x
HK39203104.1	HK39203103	10	2300	4	8.817	-0.500	2.913	4.233	0.904	51361.2x	-0.510	2.921	4.233	0.891	51300.7x
HK39203201.1	HK39203104	38	2300	4	6.425	-0.480	2.907	4.234	0.941	51612.6x	-0.500	2.919	4.233	0.906	51384.7x
HK39210705.1	C1	31	1300	4	2.799	2.440	1.007	-0.023	-0.060	-124.2	2.301	1.146	-0.029	-0.053	-159.7
HK39210707.1	HK39211706	24	1800	4	9.816	1.560	1.848	1.904	2.912	26742.3x	1.320	2.079	1.904	2.750	26680.8x
HK39210708.1	HK39211706	4	375	4	0.173	2.050	1.348	0.000	-0.015	-2.0x	2.000	1.398	-0.001	-0.015	-2.4x
HK39211401.1	HK39212404	12	2300	4	4.424	0.129	2.898	2.204	0.906	30193.7x	0.126	2.901	2.204	-0.884	30122.3x
HK39211403.1	HK39211499	29	1800	4	5.128	0.300	2.919	1.885	1.470	25938.0x	0.220	2.988	1.885	1.318	25860.8x
HK39211404.1	HK39211405	25	707	4	2.152	-0.720	3.813	2.205	1.033	30326.7+	-0.760	3.810	2.205	1.033	30278.5+
HK39211405.1	HK39211401	12	707	4	-14.670	-0.760	3.801	2.205	1.034	30243.1x	0.129	2.900	2.205	-1.549	30220.3x
HK39211499.1	T1					0.220	2.988	1.885		25845.3	0.220	2.970	1.885		25845.3
HK39211501.1	HK39211403	40	1800	4	4.101	0.370	2.871	1.885	1.660	26058.3x	0.300	2.926	1.885	1.514	25952.8x
HK39211502.1	HK39211501	74	1800	4	4.422	0.520	2.756	1.885	1.794	26266.0x	0.370	2.878	1.885	1.678	26072.7x
HK39211601.1	HK39211602	43	1800	4	4.989	0.800	2.541	1.886	1.960	26537.2x	0.690	2.635	1.886	1.984	26427.3x
HK39211602.1	HK39211502	52	1800	4	5.621	0.690	2.628	1.886	1.978	26414.0x	0.520	2.778	1.886	1.801	26279.9x
HK39211706.1	HK39211601	47	1800	4	10.303	1.320	2.064	1.901	2.751	26668.0x	0.800	2.562	1.886	1.966	26550.0x
HK39212001.1	HK39202903	13	2300	4	7.770	-0.060	2.881	3.921	1.503	51796.0x	-0.070	2.889	3.921	1.493	51718.6x
HK39212002.1	HK39212001	22	2300	4	5.956	-0.050	2.880	3.922	1.506	51950.7x	-0.060	2.886	3.921	1.514	51819.3x
HK39212003.1	HK39212002	49	2300	4	5.639	-0.030	2.875	3.923	1.512	52267.0x	-0.050	2.885	3.922	1.519	51974.0x
HK39212004.1	HK39212003	17	2300	4	6.793	-0.020	2.873	3.924	1.528	52391.1x	-0.030	2.879	3.923	1.525	52290.2x
HK39212005.1	HK39212004	4	2300	4	9.787	-0.015	2.885	3.924	1.547	52438.8x	-0.020	2.889	3.924	1.539	52414.4x
HK39212101.1	HK39212108	41	1600	4	6.283	0.010	2.890	3.925	1.029	52836.3x	-0.010	2.902	3.925	0.846	52572.7x
HK39212108.1	HK39212005	10	2300	4	6.231	-0.010	2.898	3.925	1.552	52522.5x	-0.015	2.901	3.924	1.558	52462.2x
HK39212201.1	HK39212101	70	2300	4	6.686	0.050	2.869	3.927	1.707	53303.8x	0.010	2.895	3.925	2.030	52886.3x
HK39212202.1	HK39212201	68	2300	4	6.773	0.090	2.847	3.929	1.658	53731.5x	0.050	2.873	3.927	1.716	53326.9x
HK39212301.1	HK39212202	26	2300	4	7.770	0.110	2.837	3.930	1.671	53907.6x	0.090	2.852	3.929	1.671	53754.4x
HK39212302.1	HK39212301	28	1100	4	3.534	0.120	2.844	3.930	0.950	54107.0+	0.110	2.841	3.930	0.820	53968.0+
HK39212303.1	HK39212302	21	2300	4	6.111	0.130	2.853	3.931	1.973	54291.3x	0.120	2.859	3.931	2.096	54167.7x
HK39212304.1	HK39212303	23	2300	4	5.903	0.140	2.852	3.932	1.904	54446.7x	0.130	2.857	3.932	1.991	54314.3x
HK39212402.1	C2	20	2300	4	5.572	0.119	2.898	2.203	-0.885	29991.6x	0.111	2.904	2.203	-0.867	29871.4x
HK39212404.1	HK39212402	14	2300	4	6.240	0.126	2.896	2.204	-0.895	30098.9x	0.119	2.902	2.203	-0.875	30015.0x
HK40187802.1	KT_PS	7	2300	230	8.332	-2.491	1.468	8.594	2.843	100146.2	-2.500	1.442	8.606	3.024	100130.1
HK40187803.1	HK40187802	7	2300	230	8.638	-2.482	1.527	8.573	2.630	100174.0	-2.491	1.509	8.586	2.759	100156.6
HK40187804.1	HK40187803	9	2300	230	8.149	-2.471	1.574	8.549	2.443	100211.6	-2.482	1.551	8.566	2.577	100185.1
HK40187890.1	KT_PS	5	2300	4	5.657	-2.500	1.443	-1.303	-0.862	24.6	-2.510	1.451	-1.354	-0.883	22.9
HK40187891.1	HK40187897					0.600	0.000	0.000		0.0	0.600	0.000	0.000		0.0
HK40187892.1	HK40187896	5	2000	4	19.716	0.400	0.204	0.000	0.000	0.0	0.350	0.204	0.000	0.000	0.0
HK40187893.1	KTIP OVERFLOW	6	2000	4	23.382	-1.600	0.204	0.000	0.000	0.0	-1.690	0.204	0.000	0.000	0.0
HK40187895.1	HK40187893	14	2000	4	15.119	0.280	0.104	0.000	0.000	0.0	0.200	0.104	0.000	0.000	0.0
HK40187896.1	HK40187895	13	2000	4	14.465	0.350	0.104	0.000	0.000	0.0	0.280	0.104	0.000	0.000	0.0
HK40187897.1	FLAP					0.850	0.000	0.000		0.0	0.850	0.000	0.000		0.0
HK40187898.1	HK40187890	9	2260	4	12.251	-2.412	1.356	-1.189	-0.859	29.1	-2.500	1.443	-1.282	-0.847	27.5
HK40187899.1	HK40187898	9	2220	4	4.605	-2.400	1.346	-1.081	-0.795	31.6	-2.412	1.356	-1.168	-0.843	31.6
HK40187902.1	BOX08	14	1624	162	4.713	-2.416	1.642	8.463	2.073	100437.6+	-2.430	1.614	8.467	2.148	100387.4
HK40187903.1	HK40187902	14	1850	185	5.520	-2.402	1.688	8.455	2.005	100506.6	-2.416	1.661	8.460	2.071	100452.2
HK40187995.1	HK40187899	12	2207	4	6.288	-2.368	1.316	-0.929	-0.713	30.9	-2.400	1.346	-1.060	-0.779	34.1
HK40187997.1	HK40187995	32	1988	4	12.805	-1.910	0.862	-0.852	-0.895	12.4	-2.368	1.316	-0.909	-0.689	33.2
HK40187998.1	HK40187997	14	1086	4	1.992	-1.875	0.826	-0.784	-0.803	9.3	-1.896	0.848	-0.837	-0.830	13.4
HK40187999.1	HK40187998	13	1295	4	2.809	-1.842	0.791	-0.721	-0.801	6.0	-1.867	0.818	-0.769	-0.810	10.2
HK40188701.1	HK40188702	42	2300	230	6.314	-0.020	1.519	5.778	1.568	63539.3	-0.050	1.453	5.752	1.686	63376.9
HK40188702.1	HK40189607	59	2300	4	8.902	-0.050	1.443	5.749	1.505	63362.2	-0.085	1.428	5.709	1.498	63124.3
HK40188798.1	HK40189699	59	1849	4	3.767	0.400	1.166	3.217	1.547	34696.3	0.368	1.118	3.197	1.604	34564.1
HK40188799.1	HK40188798	45	1847	4	4.606	0.436	1.192	3.233	1.531	34808.7	0.400	1.177	3.218	1.538	34702.7

Link Reference	D/S Node	Pipe Len (m)	Pipe Hgt (mm)	Scd Dpth (mm)	P.Full Flow (m3/s)	< Upstream Invert Level (m AD)	Max Depth (m)	Max Flow (m3/s)	Max Vel (m/s)	Total Flow (m3)	< Downstream Invert Level (m AD)	Max Depth (m)	Max Flow (m3/s)	Max Vel (m/s)	> Total Flow (m3)
HK40188802.1	BOX07	15	2300	230	6.085	0.020	1.630	5.819	1.452	63851.1	0.010	1.614	5.811	1.467	63781.8
HK40188898.1	HK40188799	48	1839	4	4.655	0.476	1.217	3.249	1.520	34936.0	0.436	1.204	3.234	1.520	34815.4
HK40188899.1	HK40188898	14	1835	4	3.594	0.483	1.238	3.255	1.501	34979.7	0.476	1.230	3.250	1.508	34942.8
HK40188901.1	HK40188802	110	2300	230	5.959	0.090	1.740	5.874	1.375	64387.1	0.020	1.645	5.821	1.440	63865.6
HK40188902.1	HK40188901	3	2300	230	89.367	0.550	1.312	5.877	2.421	64413.7	0.090	1.756	5.876	1.364	64402.9
HK40188902.2	HK40188999	3	2300	4	11.920	0.550	1.313	3.296	1.516	35312.7	0.540	1.322	3.295	1.499	35305.0
HK40188999.1	HK40188899	115	1843	4	3.604	0.540	1.308	3.293	1.473	35297.7	0.483	1.251	3.256	1.489	34986.6
HK40189601.1	HK41180604	56	2300	4	11.178	-0.170	1.333	8.791	2.415	96837.9	-0.222	1.202	8.783	2.701	96654.8
HK40189602.1	HK40189601	11	2300	4	10.864	-0.160	1.352	5.638	1.526	62605.3	-0.170	1.351	5.636	1.527	62565.3
HK40189603.1	HK40189602	18	2300	4	10.559	-0.145	1.362	5.648	1.518	62683.0	-0.160	1.359	5.640	1.518	62619.0
HK40189604.1	HK40189603	12	2300	4	7.579	-0.140	1.376	5.656	1.504	62738.7	-0.145	1.370	5.650	1.510	62696.8
HK40189605.1	HK40189604	19	2300	4	8.502	-0.130	1.392	5.667	1.496	62820.4	-0.140	1.384	5.658	1.496	62752.7
HK40189606.1	HK40189605	44	2300	4	9.533	-0.100	1.404	5.690	1.504	62999.1	-0.130	1.395	5.669	1.496	62834.4
HK40189607.1	HK40189606	25	2300	4	8.965	-0.085	1.419	5.707	1.502	63109.8	-0.100	1.412	5.692	1.499	63013.4
HK40189694.1	HK40189601	12	1836	4	3.596	0.302	0.915	3.158	1.973	34304.8	0.296	0.884	3.157	2.128	34286.2
HK40189695.1	HK40189694	20	1840	4	3.773	0.313	0.957	3.165	1.868	34342.6	0.302	0.915	3.159	1.975	34309.7
HK40189696.1	HK40189695	13	1841	4	3.819	0.320	0.983	3.169	1.818	34369.2	0.313	0.960	3.166	1.869	34347.7
HK40189697.1	HK40189696	20	1840	4	3.783	0.331	1.018	3.176	1.754	34410.4	0.320	0.987	3.170	1.819	34374.5
HK40189698.1	HK40189697	44	1842	4	3.755	0.355	1.075	3.187	1.657	34501.8	0.331	1.020	3.177	1.755	34415.9
HK40189699.1	HK40189698	24	1846	4	3.754	0.368	1.108	3.196	1.613	34558.0	0.355	1.083	3.188	1.650	34507.7
HK40190601.1	HK40190602	39	2300	4	3.852	-1.154	2.739	5.190	0.880	60035.2+	-1.170	2.725	5.189	0.883	59811.9+
HK40190602.1	HK40190603	31	2300	115	3.140	-1.170	2.700	5.189	-0.995	59790.1+	-1.180	2.682	5.189	0.919	59623.2+
HK40190603.1	HK40190604	47	2300	115	4.583	-1.180	2.674	5.189	0.921	59602.6+	-1.213	2.664	5.188	0.923	59347.1+
HK40190604.1	HK40191502	40	2300	115	3.589	-1.213	2.656	5.188	0.925	59326.6+	-1.230	2.636	5.187	0.930	59114.2+
HK40191502.1	C5	42	2300	115	5.679	-1.230	2.612	5.187	0.936	59093.9x	-1.275	2.619	5.187	0.934	58871.1x
HK40192401.1	HK40193304	52	2300	115	3.869	-1.394	2.375	8.388	1.635	103984.4+	-1.420	2.270	8.388	1.869	103728.8
HK40192501.1	HK40192401	46	2300	115	5.951	-1.340	2.451	8.389	1.583	104232.4+	-1.394	2.392	8.388	1.631	104002.6+
HK40193304.1	BOX03	44	2300	115	12.844	-1.420	2.255	8.388	1.867	103711.6	-1.660	2.401	8.388	1.793	103496.4x
HK40193305.1	HK40194399	24	1144	4	1.018	-0.734	0.061	0.000	0.000	0.0	-0.774	0.061	0.000	0.000	0.0
HK40194201.1	HK40195201	38	2300	115	7.644	-2.030	2.109	8.399	1.447	102267.7	-2.067	2.090	8.403	1.462	102058.4
HK40194202.1	HK40194201	57	2300	115	7.331	-1.978	2.150	8.394	1.418	102614.4	-2.030	2.119	8.399	1.440	102288.7
HK40194298.1	HK40195299	38	1362	4	1.362	-1.073	0.079	0.000	0.006	0.0	-1.148	0.137	-0.010	0.247	0.0
HK40194299.1	HK40194298	57	1295	4	1.038	-0.961	0.069	0.000	0.000	0.0	-1.036	0.069	0.000	0.000	0.0
HK40194301.1	HK40194202	27	2300	115	2.967	-1.974	2.194	8.392	1.389	102792.0	-1.978	2.160	8.394	1.411	102635.9
HK40194302.1	HK40194301	28	2300	115	10.765	-1.920	2.185	8.390	1.395	102975.5	-1.974	2.204	8.392	1.383	102814.0
HK40194398.1	HK40194299	27	1216	4	1.280	-0.861	0.065	0.000	0.000	0.0	-0.923	0.065	0.000	0.000	0.0
HK40194399.1	HK40194398	27	1158	4	1.085	-0.780	0.062	0.000	0.000	0.0	-0.830	0.062	0.000	0.000	0.0
HK40195102.1	HK40196001	149	2300	115	7.711	-2.160	1.980	8.408	1.553	101703.9	-2.310	1.846	8.425	1.696	100955.8
HK40195198.1	HK40196099	149	1401	4	1.731	-1.291	0.245	-0.107	-0.537	0.0	-1.382	0.338	-0.368	-1.068	-2.3
HK40195199.1	HK40195198	34	910	4	1.349	-1.221	0.184	-0.058	-0.302	0.1	-1.259	0.213	-0.102	-0.538	0.0
HK40195201.1	BOX06	34	1900	95	5.850	-2.067	2.036	8.403	1.512	102037.3+	-2.100	1.998	8.406	1.539	101854.9+
HK40195299.1	HK40195199	50	1019	4	0.584	-1.184	0.173	-0.012	0.132	0.0	-1.221	0.184	-0.054	-0.515	0.1
HK40196001.1	HK40187903	93	2300	115	7.654	-2.310	1.838	8.426	1.706	100938.1	-2.402	1.732	8.453	1.897	100522.4
HK40196099.1	HK40187999	93	1553	4	5.300	-1.405	0.361	-0.379	-1.034	-2.4	-1.814	0.763	-0.706	-0.838	6.8
HK41180602.1	HK41180601	16	2300	4	29.658	-0.340	0.976	8.772	3.410	96477.1	-0.440	0.976	8.769	3.409	96437.7
HK41180603.1	HK41180602	3	2300	4	-13.861	-0.344	1.142	8.773	2.855	96495.1	-0.340	1.125	8.773	2.904	96486.6
HK41180604.1	HK41180603	46	2300	4	18.186	-0.232	1.204	8.782	2.696	96642.7	-0.344	1.144	8.774	2.852	96506.5
KEI YIP ST STORM DRAIN.1	DWFI CS4A-1	28	1350	4	3.028	0.520	0.071	0.000	0.000	0.0	0.400	0.071	0.000	0.000	0.0
KF06G540.1	KF06G541	11	225	4	0.040	3.255	0.026	0.000	0.000	0.0	3.141	0.026	0.000	0.000	0.0
KF06G541.1	KF06G542	30	225	4	0.040	3.141	0.026	0.000	0.000	0.0	2.835	0.026	0.000	0.000	0.0
KF06G542.1	KF06G543	4	225	4	0.037	2.835	0.024	0.000	0.000	0.0	2.800	0.024	0.000	0.000	0.0
KF06G543.1	KF06G544	7	225	4	0.082	2.800	0.026	0.000	0.000	0.0	2.499	0.026	0.000	0.000	0.0
KF06G544.1	KF06G545	6	225	4	0.049	2.499	0.026	0.000	0.000	0.0	2.405	0.026	0.000	0.000	0.0

Link Reference	D/S Node	Pipe Len (m)	Pipe Hgt (mm)	Sed Dpth (mm)	P.Full Flow (m3/s)	Upstream < Invert Level (m AD)	Upstream Max Depth (m)	Upstream Max Flow (m3/s)	Upstream Max Vel (m/s)	Upstream > Total Flow (m3)	Downstream < Invert Level (m AD)	Downstream Max Depth (m)	Downstream Max Flow (m3/s)	Downstream Max Vel (m/s)	Downstream > Total Flow (m3)
KF06G545.1	BOX07	1	200	4	0.027	2.312	0.024	0.000	0.000	0.0	2.303	0.024	0.000	0.000	0.0
KF06G547.1	KF06G548	14	225	4	0.018	3.118	0.024	0.000	0.000	0.0	3.090	0.024	0.000	0.000	0.0
KF06G548.1	KF06G542	16	225	4	0.029	3.090	0.024	0.000	0.000	0.0	3.001	0.024	0.000	0.000	0.0
KF06G549.1	KF06G548	11	225	4	0.036	3.266	0.024	0.000	0.000	0.0	3.172	0.024	0.000	0.000	0.0
KF0702CN4.1	BOX04	22	1400	70	7.338	-1.790	2.306	8.387	1.574	103384.6+	-1.890	2.271	8.387	1.593	103270.1+
KT_PS.1	HK40188902					-1.950	0.891	2.300		30080.9	-1.950	3.815	2.300		30080.9
KT_PS.3	HK40188902					-1.800	0.741	2.300		29010.6	-1.800	3.665	2.300		29010.6
KT_PS.4	HK40188902					-1.650	0.591	2.300		26023.2	-1.650	3.515	2.300		26023.2
KT_PS.5	HK40188902					-1.500	0.441	2.300		14851.0	-1.500	3.365	2.300		14851.0
KT_PS.6	HK40187891					0.600	0.000	0.000		0.0	0.600	0.000	0.000		0.0
STW01.1	STW	18	1575	4	0.000	0.000	0.083	0.000	0.000	0.0	0.000	0.083	0.000	0.000	0.0
T1.1	HK39211404	12	707	4	15.085	0.220	2.914	2.205	1.058	30385.0x	-0.720	3.821	2.205	1.033	30362.3x
T2.1	HK39198701	17	2300	4	3.311	-1.075	2.852	5.194	0.855	61056.1+	-1.080	2.844	5.193	0.857	60958.9+
T3.1	DWFI	42	2300	4	4.640	-0.525	2.901	4.355	0.918	52883.5x	-0.550	2.903	4.354	0.896	52633.0x

+ after total flow indicates a conduit surcharged by flow and depth at that end.
x after total flow indicates a conduit surcharged by depth only at that end.

NOTE :
(i) Maximum elevations, depths, volumes, velocities and discharges are selected from the values at each time increment and will be in general more extreme than the maximum values in the time varying results.
(ii) Maximum elevations, velocities and discharges are not necessarily calculated at the same time.
(iii) Maximum velocity is not calculated for a conduit unless the depth exceeds the base flow depth (by default, this is 5% of height for slopes <= 0.01, 10% otherwise, subject to a minimum of 0.02 m).

End of run 0 mins (elapsed) Produced on 23/05/2008 Last page

Appendix 16.3C

Modelling Results for Hydraulic Assessment of Existing Trunk along Hoi Bun Road - Ultimate Scenario Results

Start of run configured for MS Windows Produced on 23/05/2008 at 19:49

Trunk Ultimate
IDW+

HydroWorks(tm) SIM

Summary results from Simulation

Version 6.1.807 dated June 2006

Licence Number - WS01550002PM

Message 253: Run finished for event 1.

Summary results for event 1 - DWF
Started at 00000000000000. Run for 240.00 min. (Requested simulation time 240.00 min)

Files used:
Network: ...\NET29#3.spb Ultimate - ADWF_update#1 (Revision 3)
State:
Runoff: ...\NET29#3.rpf Ultimate - ADWF_update#1 (Revision 3) (InfoWorks 7.51.13014)
Rainfall:
DWF:
Inflows: ...\SIM154event.qin 1
Levels:
RTC:
Results: ...\SIM154.iwr

Total rainfall = 0.0 m3
Total runoff = 0.0 m3
Total inflow = 56948.6 m3
Total outflow = 45695.1 m3
Total lost = 0.0 m3

********** Node data **********

Node Reference	Ground Level (m AD)	Max Level (m AD)	Flood Volume (m3)	Flood Depth (m)	Flood Area (m2)	Max Stored (m3)	Inflow (m3)	Vol Balance (m3)	Vol Balance (%)
BOX02	4.250	0.267	0.0	0.000	0.0	11.9	0.0	0.000	0.000
BOX03	3.870	-0.432	0.0	0.000	0.0	10.3	0.0	0.000	0.000
BOX04	3.800	-0.502	0.0	0.000	0.0	15.4	0.0	0.000	0.000
BOX05	3.800	-0.521	0.0	0.000	0.0	15.3	0.0	0.000	0.000
BOX06	4.090	-0.799	0.0	0.000	0.0	14.4	0.0	0.000	0.000
BOX07	4.100	1.175	0.0	0.000	0.0	12.9	0.0	0.000	0.000
BOX08	4.000	-1.198	0.0	0.000	0.0	21.1	0.0	0.000	0.000
C1	6.050	2.121	0.0	0.000	0.0	1.7	8592.9	0.000	0.000
C2	5.030	1.021	0.0	0.000	0.0	7.6	10148.8	0.000	0.000
C3	4.910	0.768	0.0	0.000	0.0	8.9	2169.6	0.000	0.000
C4	5.000	0.429	0.0	0.000	0.0	11.2	956.4	0.000	0.000
C5	4.150	0.117	0.0	0.000	0.0	11.7	21882.0	0.000	0.000
DWFI	4.800	0.632	0.0	0.000	0.0	9.9	7137.0	0.000	0.000
DWFI CS4A-1	3.720	0.471	0.0	0.000	0.0	0.2	0.0	0.000	0.000
DWFI CS4A-2	3.720	0.450	0.0	0.000	0.0	0.0	0.0	0.000	0.000
DWFI CS4A-3	3.720	-0.466	0.0	0.000	0.0	0.1	0.0	0.000	0.000
FLAP	4.000	0.658	0.0	0.000	0.0	1.5	0.0	0.000	0.000
HK38218701	5.470	2.891	0.0	0.000	0.0	0.2	0.0	0.000	0.000
HK38219701	6.060	2.599	0.0	0.000	0.0	0.2	0.0	0.000	0.000
HK38219702	5.752	2.749	0.0	0.000	0.0	0.3	0.0	0.000	0.000
HK39194801	5.950	0.550	0.0	0.000	0.0	10.6	0.0	0.000	0.000
HK39195701	5.400	0.469	0.0	0.000	0.0	11.0	0.0	0.000	0.000
HK39195801	5.750	0.488	0.0	0.000	0.0	10.9	0.0	0.000	0.000
HK39195802	5.850	0.518	0.0	0.000	0.0	10.8	0.0	0.000	0.000
HK39196701	4.990	0.418	0.0	0.000	0.0	11.3	0.0	0.000	0.000
HK39196703	5.000	0.451	0.0	0.000	0.0	11.1	0.0	0.000	0.000
HK39197701	4.500	0.398	0.0	0.000	0.0	11.5	0.0	0.000	0.000
HK39197702	4.390	0.375	0.0	0.000	0.0	12.0	0.0	0.000	0.000
HK39198701	4.250	0.331	0.0	0.000	0.0	11.8	0.0	0.000	0.000
HK39198703	4.400	0.352	0.0	0.000	0.0	11.9	0.0	0.000	0.000
HK39199701	4.290	0.278	0.0	0.000	0.0	11.9	0.0	0.000	0.000
HK39199702	4.300	0.305	0.0	0.000	0.0	11.8	0.0	0.000	0.000
HK39202202	4.400	0.672	0.0	0.000	0.0	9.5	0.0	0.000	0.000
HK39202203	4.150	0.673	0.0	0.000	0.0	9.5	0.0	0.000	0.000
HK39202307	4.300	0.687	0.0	0.000	0.0	9.3	0.0	0.000	0.000
HK39202312	4.500	0.696	0.0	0.000	0.0	9.2	0.0	0.000	0.000
HK39202314	4.387	0.683	0.0	0.000	0.0	10.3	0.0	0.000	0.000
HK39202403	4.700	0.707	0.0	0.000	0.0	9.0	0.0	0.000	0.000
HK39202505	4.900	0.724	0.0	0.000	0.0	8.8	0.0	0.000	0.000

HK39202507	4.910	0.772	0.0	0.000	0.0	9.0	0.0	0.000	0.000
HK39202601	4.900	0.784	0.0	0.000	0.0	8.9	0.0	0.000	0.000
HK39202602	5.100	0.825	0.0	0.000	0.0	8.9	0.0	0.000	0.000
HK39202702	5.150	0.835	0.0	0.000	0.0	8.9	0.0	0.000	0.000
HK39202703	5.200	0.847	0.0	0.000	0.0	8.9	0.0	0.000	0.000
HK39202704	4.780	0.867	0.0	0.000	0.0	8.9	0.0	0.000	0.000
HK39202801	5.200	0.889	0.0	0.000	0.0	8.9	0.0	0.000	0.000
HK39202802	4.990	0.897	0.0	0.000	0.0	8.7	0.0	0.000	0.000
HK39202803	5.350	0.902	0.0	0.000	0.0	8.7	0.0	0.000	0.000
HK39202901	4.750	0.911	0.0	0.000	0.0	8.5	0.0	0.000	0.000
HK39202902	4.850	0.916	0.0	0.000	0.0	8.5	0.0	0.000	0.000
HK39202903	4.850	0.925	0.0	0.000	0.0	8.5	0.0	0.000	0.000
HK39203002	4.900	0.575	0.0	0.000	0.0	9.9	0.0	0.000	0.000
HK39203103	5.300	0.655	0.0	0.000	0.0	9.8	0.0	0.000	0.000

Node Reference	Ground Level (m AD)	Max Level (m AD)	Flood Volume (m3)	Flood Depth (m)	Flood Area (m2)	Max Stored (m3)	Inflow (m3)	Vol Balance (m3)	Vol Balance (%)
HK39203104	5.000	0.657	0.0	0.000	0.0	9.7	0.0	0.000	0.000
HK39203201	4.200	0.663	0.0	0.000	0.0	9.6	0.0	0.000	0.000
HK39210705	6.270	2.509	0.0	0.000	0.0	0.2	0.0	0.000	0.000
HK39210707	6.020	1.876	0.0	0.000	0.0	1.6	0.0	0.000	0.000
HK39210708	5.640	2.091	0.0	0.000	0.0	0.1	0.0	0.000	0.000
HK39211401	5.130	1.025	0.0	0.000	0.0	8.4	0.0	0.000	0.000
HK39211403	4.240	1.060	0.0	0.000	0.0	4.0	0.0	0.000	0.000
HK39211404	4.900	1.032	0.0	0.000	0.0	16.5	0.0	0.000	0.000
HK39211405	5.070	1.026	0.0	0.000	0.0	16.8	0.0	0.000	0.000
HK39211499	4.070	1.057	0.0	0.000	0.0	4.4	0.0	0.000	0.000
HK39211501	4.480	1.070	0.0	0.000	0.0	3.6	0.0	0.000	0.000
HK39211502	4.320	1.102	0.0	0.000	0.0	3.0	0.0	0.000	0.000
HK39211601	5.430	1.240	0.0	0.000	0.0	2.3	0.0	0.000	0.000
HK39211602	5.470	1.153	0.0	0.000	0.0	2.4	0.0	0.000	0.000
HK39211706	5.790	1.666	0.0	0.000	0.0	1.8	0.0	0.000	0.000
HK39212001	4.850	0.928	0.0	0.000	0.0	8.3	0.0	0.000	0.000
HK39212002	4.850	0.933	0.0	0.000	0.0	8.3	0.0	0.000	0.000
HK39212003	5.150	0.944	0.0	0.000	0.0	8.2	0.0	0.000	0.000
HK39212004	4.950	0.948	0.0	0.000	0.0	8.1	0.0	0.000	0.000
HK39212005	4.950	0.949	0.0	0.000	0.0	8.1	0.0	0.000	0.000
HK39212101	5.000	0.954	0.0	0.000	0.0	16.8	0.0	0.000	0.000
HK39212108	4.950	0.951	0.0	0.000	0.0	17.1	0.0	0.000	0.000
HK39212201	5.550	0.973	0.0	0.000	0.0	7.7	0.0	0.000	0.000
HK39212202	5.330	0.992	0.0	0.000	0.0	7.6	0.0	0.000	0.000
HK39212301	5.150	0.999	0.0	0.000	0.0	19.3	0.0	0.000	0.000
HK39212302	5.150	1.002	0.0	0.000	0.0	19.1	0.0	0.000	0.000
HK39212303	5.150	1.009	0.0	0.000	0.0	7.4	0.0	0.000	0.000
HK39212304	5.150	1.017	0.0	0.000	0.0	7.6	0.0	0.000	0.000
HK39212402	5.100	1.023	0.0	0.000	0.0	7.6	0.0	0.000	0.000
HK39212404	5.100	1.024	0.0	0.000	0.0	7.5	0.0	0.000	0.000
HK40187802	3.750	-1.267	0.0	0.000	0.0	13.6	0.0	0.000	0.000
HK40187803	3.750	-1.251	0.0	0.000	0.0	13.7	0.0	0.000	0.000
HK40187804	3.750	-1.230	0.0	0.000	0.0	21.2	0.0	0.000	0.000
HK40187890	3.850	-1.275	0.0	0.000	0.0	4.5	0.0	0.000	0.000
HK40187891	3.850	0.600	0.0	0.000	0.0	0.0	0.0	0.000	0.000
HK40187892	3.800	0.604	0.0	0.000	0.0	1.5	0.0	0.000	0.000
HK40187893	3.800	-1.396	0.0	0.000	0.0	1.5	0.0	0.000	0.000
HK40187895	3.750	0.384	0.0	0.000	0.0	0.8	0.0	0.000	0.000
HK40187896	3.750	0.454	0.0	0.000	0.0	0.8	0.0	0.000	0.000
HK40187897	3.800	0.600	0.0	0.000	0.0	0.1	0.0	0.000	0.000
HK40187898	3.800	-1.275	0.0	0.000	0.0	4.2	0.0	0.000	0.000

HK40187899	3.800	-1.266	0.0	0.000	0.0	4.2	0.0	0.000	0.000
HK40187902	3.800	-1.177	0.0	0.000	0.0	13.7	0.0	0.000	0.000
HK40187903	3.800	-1.152	0.0	0.000	0.0	13.9	0.0	0.000	0.000
HK40187995	3.800	-1.261	0.0	0.000	0.0	4.1	0.0	0.000	0.000
HK40187997	3.800	-1.230	0.0	0.000	0.0	2.5	0.0	0.000	0.000
HK40187998	3.800	-1.240	0.0	0.000	0.0	2.3	0.0	0.000	0.000
HK40187999	3.800	-1.221	0.0	0.000	0.0	2.3	0.0	0.000	0.000
HK40188701	4.300	1.061	0.0	0.000	0.0	12.0	0.0	0.000	0.000
HK40188702	4.200	0.931	0.0	0.000	0.0	10.9	0.0	0.000	0.000
HK40188798	4.200	1.177	0.0	0.000	0.0	4.7	0.0	0.000	0.000
HK40188799	4.300	1.224	0.0	0.000	0.0	4.7	0.0	0.000	0.000
HK40188802	4.100	1.204	0.0	0.000	0.0	13.1	0.0	0.000	0.000

Node Reference	Ground Level (m AD)	Max Level (m AD)	Flood Volume (m3)	Flood Depth (m)	Flood Area (m2)	Max Stored (m3)	Inflow (m3)	Vol Balance (m3)	Vol Balance (%)
HK40188898	4.100	1.280	0.0	0.000	0.0	4.8	0.0	0.000	0.000
HK40188899	4.100	1.296	0.0	0.000	0.0	4.9	0.0	0.000	0.000
HK40188901	3.900	1.378	0.0	0.000	0.0	14.3	0.0	0.000	0.000
HK40188902	3.900	1.420	0.0	0.000	0.0	174.0	0.0	0.000	0.000
HK40188999	3.900	1.418	0.0	0.000	0.0	5.3	0.0	0.000	0.000
HK40189601	4.460	0.778	0.0	0.000	0.0	10.5	0.0	0.000	0.000
HK40189602	3.740	0.788	0.0	0.000	0.0	10.5	0.0	0.000	0.000
HK40189603	3.740	0.804	0.0	0.000	0.0	10.5	0.0	0.000	0.000
HK40189604	3.740	0.814	0.0	0.000	0.0	10.6	0.0	0.000	0.000
HK40189605	3.740	0.830	0.0	0.000	0.0	10.7	0.0	0.000	0.000
HK40189606	4.150	0.865	0.0	0.000	0.0	10.7	0.0	0.000	0.000
HK40189607	4.150	0.885	0.0	0.000	0.0	10.8	0.0	0.000	0.000
HK40189694	3.740	0.850	0.0	0.000	0.0	3.3	0.0	0.000	0.000
HK40189695	3.740	0.915	0.0	0.000	0.0	3.6	0.0	0.000	0.000
HK40189696	3.740	0.949	0.0	0.000	0.0	3.8	0.0	0.000	0.000
HK40189697	3.740	0.993	0.0	0.000	0.0	4.0	0.0	0.000	0.000
HK40189698	4.150	1.070	0.0	0.000	0.0	4.3	0.0	0.000	0.000
HK40189699	4.150	1.105	0.0	0.000	0.0	4.4	0.0	0.000	0.000
HK40190601	4.150	0.257	0.0	0.000	0.0	11.9	0.0	0.000	0.000
HK40190602	4.150	0.235	0.0	0.000	0.0	11.8	0.0	0.000	0.000
HK40190603	4.150	0.211	0.0	0.000	0.0	11.7	0.0	0.000	0.000
HK40190604	4.150	0.177	0.0	0.000	0.0	11.7	0.0	0.000	0.000
HK40191502	4.290	0.148	0.0	0.000	0.0	11.6	0.0	0.000	0.000
HK40192401	4.150	-0.131	0.0	0.000	0.0	10.6	0.0	0.000	0.000
HK40192501	4.290	-0.018	0.0	0.000	0.0	11.1	0.0	0.000	0.000
HK40193304	4.150	-0.305	0.0	0.000	0.0	9.4	0.0	0.000	0.000
HK40193305	3.800	-0.673	0.0	0.000	0.0	0.1	0.0	0.000	0.000
HK40194201	3.800	-0.696	0.0	0.000	0.0	14.8	0.0	0.000	0.000
HK40194202	3.800	-0.623	0.0	0.000	0.0	15.0	0.0	0.000	0.000
HK40194298	3.800	-1.001	0.0	0.000	0.0	0.1	0.0	0.000	0.000
HK40194299	3.800	-0.892	0.0	0.000	0.0	0.1	0.0	0.000	0.000
HK40194301	3.800	-0.587	0.0	0.000	0.0	15.4	0.0	0.000	0.000
HK40194302	3.760	-0.552	0.0	0.000	0.0	15.2	0.0	0.000	0.000
HK40194398	3.800	-0.796	0.0	0.000	0.0	0.1	0.0	0.000	0.000
HK40194399	3.760	-0.718	0.0	0.000	0.0	0.1	0.0	0.000	0.000
HK40195102	3.900	-0.825	0.0	0.000	0.0	14.8	0.0	0.000	0.000
HK40195198	3.900	-1.189	0.0	0.000	0.0	0.4	0.0	0.000	0.000
HK40195199	3.800	-1.170	0.0	0.000	0.0	0.2	0.0	0.000	0.000
HK40195201	3.800	-0.747	0.0	0.000	0.0	14.7	0.0	0.000	0.000
HK40195299	3.800	-1.129	0.0	0.000	0.0	0.1	0.0	0.000	0.000
HK40196001	3.840	-1.021	0.0	0.000	0.0	14.3	0.0	0.000	0.000

HK40196099	3.840	-1.194	0.0	0.000	0.0	0.8	0.0	0.000	0.000
HK41180602	4.200	0.341	0.0	0.000	0.0	7.6	0.0	0.000	0.000
HK41180603	4.200	0.475	0.0	0.000	0.0	9.1	0.0	0.000	0.000
HK41180604	4.018	0.623	0.0	0.000	0.0	9.5	0.0	0.000	0.000
KEI YIP ST STORM DRAIN	4.100	0.591	0.0	0.000	0.0	0.2	0.0	0.000	0.000
KF06G540	4.310	3.281	0.0	0.000	0.0	0.0	0.0	0.000	0.000
KF06G541	4.110	3.167	0.0	0.000	0.0	0.0	0.0	0.000	0.000
KF06G542	4.040	2.859	0.0	0.000	0.0	0.0	0.0	0.000	0.000
KF06G543	4.060	2.824	0.0	0.000	0.0	0.0	0.0	0.000	0.000
KF06G544	4.090	2.525	0.0	0.000	0.0	0.0	0.0	0.000	0.000
KF06G545	4.170	2.336	0.0	0.000	0.0	0.0	0.0	0.000	0.000
KF06G547	4.100	3.142	0.0	0.000	0.0	0.0	0.0	0.000	0.000

Node Reference	Ground Level (m AD)	Max Level (m AD)	Flood Volume (m3)	Flood Depth (m)	Flood Area (m2)	Max Stored (m3)	Inflow (m3)	Vol Balance (m3)	Vol Balance (%)
KF06G548	4.450	3.114	0.0	0.000	0.0	0.0	0.0	0.000	0.000
KF06G549	4.180	3.290	0.0	0.000	0.0	0.0	0.0	0.000	0.000
KF0702CN4	3.860	-0.469	0.0	0.000	0.0	14.7	0.0	0.000	0.000
KT_PS	3.740	-1.284	0.0	0.000	0.0	539.2	0.0	0.000	0.000
STW01	4.300	0.083	0.0	0.000	0.0	0.4	0.0	0.000	0.000
T1	4.070	1.048	0.0	0.000	0.0	7.8	1941.3	0.000	0.000
T2	4.300	0.340	0.0	0.000	0.0	11.9	3382.9	0.000	0.000
T3	5.000	0.648	0.0	0.000	0.0	9.9	713.7	0.000	0.000

A %% indicates water lost from the system.

********** Link data **********

Link Reference	D/S Node	Pipe Len (m)	Pipe Hgt (mm)	Sed Dpth (mm)	P.Full Flow (m3/s)	< Upstream Invert Level (m AD)	Max Depth (m)	Max Flow (m3/s)	Max Vel (m/s)	> Total Flow (m3)	< Downstream Invert Level (m AD)	Max Depth (m)	Max Flow (m3/s)	Max Vel (m/s)	> Total Flow (m3)
BOX02.1	HK40190601	19	2300	4	3.689	-1.147	1.413	2.455	0.748	29234.4	-1.154	1.411	2.455	0.749	29176.7
BOX03.1	KF0702CN4	16	1400	70	7.970	-1.660	1.220	3.989	1.451	49883.9	-1.790	1.322	3.989	1.354	49841.6
BOX04.1	BOX05	13	2300	115	6.648	-1.890	1.385	3.990	1.102	49738.6	-1.900	1.379	3.992	1.108	49693.1
BOX05.1	HK40194302	25	2300	115	6.925	-1.900	1.378	3.992	1.109	49680.4	-1.920	1.368	3.996	1.120	49597.3
BOX06.2	HK40195102	21	1800	90	9.310	-2.100	1.298	4.030	1.174	48918.0	-2.160	1.336	4.037	1.140	48846.9
BOX07.1	HK40188701	50	2300	230	5.790	0.010	1.164	3.641	1.320	31378.1	-0.020	1.081	3.541	1.426	31259.4
BOX08.1	HK40187804	33	2300	230	11.778	-2.430	1.232	4.337	1.363	47991.5	-2.471	1.241	4.539	1.475	47924.6
C1.1	HK39210707	30	1800	4	8.655	1.790	0.330	0.602	1.906	8591.7	1.560	0.330	0.607	1.896	8584.0
C2.1	HK39212304	12	2300	4	-13.669	0.111	0.910	1.449	1.172	20224.2	0.140	0.877	1.449	1.300	20202.3
C3.1	HK39202505	58	2300	125	3.931	-0.290	1.058	1.601	0.863	20491.2	-0.320	1.044	1.601	1.052	20376.7
C4.1	HK39196701	19	2300	4	6.171	-0.910	1.337	2.218	0.717	26995.8	-0.930	1.348	2.218	0.711	26940.2
C5.1	HK40192501	62	2300	115	5.615	-1.275	1.386	3.988	1.310	50426.8	-1.340	1.322	3.988	1.383	50257.6
DWFI CS4A-1.1	HK40187893					0.960	0.000	0.000		0.0	0.960	0.000	0.000		0.0
DWFI CS4A-1.2	DWFI CS4A-2	4	400	4	0.000	0.450	0.024	0.000	0.000	0.0	0.450	0.024	0.000	0.000	0.0
DWFI CS4A-2.1	DWFI CS4A-3					0.450	0.000	0.000		0.0	0.450	0.000	0.000		0.0
DWFI CS4A-3.1	HK40187890	8	300	4	0.191	-0.500	0.034	0.000	0.000	0.0	-0.900	0.034	0.000	0.000	0.0
DWFI.1	HK39203002	86	2300	4	4.578	-0.550	1.181	2.151	0.851	27138.7	-0.600	1.175	2.151	0.867	26922.5
FLAP.1	HK40187892	5	2000	4	20.490	0.454	0.204	0.000	0.000	0.0	0.400	0.204	0.000	0.000	0.0
HK38218701.1	HK38219702	59	1350	4	2.254	2.820	0.071	0.000	0.000	0.0	2.680	0.071	0.000	0.000	0.0
HK38219701.1	HK39210705	34	1300	4	2.140	2.530	0.069	0.000	0.000	0.0	2.440	0.069	0.000	0.000	0.0
HK38219702.1	HK38219701	41	1300	4	2.524	2.680	0.069	0.000	0.000	0.0	2.530	0.069	0.000	0.000	0.0
HK39194801.1	HK39195802	62	2300	4	5.931	-0.710	1.260	2.151	0.762	26781.3	-0.770	1.288	2.151	0.724	26611.2
HK39195701.1	HK39196703	40	2300	4	5.222	-0.840	1.309	2.151	0.712	26304.0	-0.870	1.321	2.151	0.705	26190.2
HK39195801.1	HK39195701	36	2300	4	5.019	-0.815	1.302	2.151	0.716	26415.8	-0.840	1.310	2.151	0.711	26314.0
HK39195802.1	HK39195801	63	2300	4	5.104	-0.770	1.288	2.151	0.724	26601.4	-0.815	1.303	2.151	0.715	26425.8
HK39196701.1	HK39197701	45	2300	4	5.671	-0.930	1.348	2.218	0.711	26929.9	-0.970	1.368	2.218	0.700	26796.5
HK39196703.1	C4	45	2300	4	5.664	-0.870	1.319	2.151	0.706	26180.1	-0.910	1.339	2.151	0.694	26049.7
HK39197701.1	HK39197702	56	2300	4	7.189	-0.970	1.367	2.218	0.700	26786.0	-1.050	1.425	2.218	0.670	26614.6
HK39197702.1	HK39198703	56	2300	4	3.314	-1.050	1.424	2.218	0.670	26603.7	-1.067	1.419	2.218	0.673	26428.9
HK39198701.1	HK39199702	49	2300	4	4.283	-1.080	1.410	2.455	0.750	29640.8	-1.105	1.410	2.455	0.749	29488.4
HK39198703.1	T2	28	2300	4	3.209	-1.067	1.418	2.218	0.673	26417.9	-1.075	1.415	2.218	0.675	26330.7
HK39199701.1	BOX02	20	2300	4	3.532	-1.140	1.417	2.455	0.745	29308.4	-1.147	1.414	2.455	0.747	29245.2
HK39199702.1	HK39199701	51	2300	4	4.983	-1.105	1.408	2.455	0.751	29477.5	-1.140	1.418	2.455	0.745	29319.3
HK39202202.2	HK39203201	50	2300	4	5.588	-0.460	1.132	1.601	0.648	19728.2	-0.480	1.143	1.601	0.626	19606.9
HK39202203.1	HK39202202	5	2300	4	0.000	-0.460	1.133	1.601	0.650	19748.8	-0.460	1.132	1.601	0.649	19736.8
HK39202307.1	HK39202314	16	2300	4	23.569	-0.420	1.107	1.601	0.707	19940.4	-0.533	1.216	1.601	0.598	19900.7
HK39202312.1	HK39202307	45	2300	4	5.877	-0.400	1.096	1.601	0.745	20054.2	-0.420	1.107	1.601	0.709	19948.7
HK39202314.1	HK39202203	53	2300	4	-11.071	-0.543	1.226	1.601	0.590	19891.4	-0.460	1.133	1.601	0.651	19757.3
HK39202403.1	HK39202312	59	2300	4	7.288	-0.360	1.067	1.601	0.814	20196.8	-0.400	1.096	1.601	0.748	20062.4
HK39202505.1	HK39202403	74	2300	4	6.498	-0.320	1.044	1.601	0.868	20368.9	-0.360	1.067	1.601	0.817	20204.8
HK39202507.1	C3	7	2300	125	-4.139	-0.294	1.066	1.449	0.743	18342.5	-0.290	1.058	1.449	0.756	18328.5
HK39202601.1	HK39202507	19	2300	125	4.675	-0.280	1.064	1.449	0.741	18387.9	-0.294	1.066	1.449	0.744	18349.5
HK39202602.1	HK39202601	70	2300	125	4.148	-0.240	1.065	1.449	0.723	18534.6	-0.280	1.064	1.449	0.742	18394.9
HK39202702.1	HK39202602	16	2300	125	5.285	-0.225	1.060	1.449	0.727	18573.8	-0.240	1.065	1.449	0.724	18541.6
HK39202703.1	HK39202702	21	2300	125	4.627	-0.210	1.057	1.449	0.726	18622.6	-0.225	1.060	1.449	0.727	18580.8
HK39202704.1	HK39202703	32	2300	125	4.328	-0.190	1.057	1.449	0.721	18693.1	-0.210	1.057	1.449	0.726	18629.5
HK39202801.1	HK39202704	36	2300	125	4.075	-0.170	1.059	1.449	0.715	18771.9	-0.190	1.057	1.449	0.722	18700.0
HK39202802.1	HK39202801	44	2300	4	7.290	-0.140	1.037	1.449	0.671	18876.8	-0.170	1.059	1.449	0.644	18779.8
HK39202803.1	HK39202802	27	2300	4	5.378	-0.130	1.032	1.449	0.730	18943.0	-0.140	1.037	1.449	0.676	18884.5
HK39202901.1	HK39202803	47	2300	4	7.054	-0.100	1.011	1.449	0.893	19051.2	-0.130	1.032	1.449	0.740	18950.7
HK39202902.1	HK39202901	23	2300	4	5.826	-0.090	1.006	1.449	0.932	19107.1	-0.100	1.011	1.449	0.904	19058.7
HK39202903.1	HK39202902	42	2300	4	6.096	-0.070	0.995	1.449	0.967	19202.0	-0.090	1.006	1.449	0.942	19114.5
HK39203002.1	HK39194801	47	2300	4	9.202	-0.600	1.175	2.151	0.865	26913.6	-0.710	1.260	2.151	0.764	26790.9

Link Reference	D/S Node	Pipe Len (m)	Pipe Hgt (mm)	Sed Dpth (mm)	P.Full Flow (m3/s)	< Upstream Invert Level (m AD)	Max Depth (m)	Max Flow (m3/s)	Max Vel (m/s)	Total Flow (m3)	< Downstream Invert Level (m AD)	Max Depth (m)	Max Flow (m3/s)	Max Vel (m/s)	Total Flow (m3)
HK39203103.1	T3	21	2300	4	5.083	-0.510	1.165	1.601	0.601	19462.9	-0.525	1.173	1.601	0.597	19410.8
HK39203104.1	HK39203103	10	2300	4	8.817	-0.500	1.157	1.601	0.606	19496.6	-0.510	1.165	1.601	0.601	19471.7
HK39203201.1	HK39203104	38	2300	4	6.425	-0.480	1.143	1.601	0.625	19598.3	-0.500	1.157	1.601	0.606	19505.4
HK39210705.1	C1	31	1300	4	2.799	2.440	0.069	0.000	0.000	0.0	2.301	0.069	0.000	0.000	0.0
HK39210707.1	HK39211706	24	1800	4	9.816	1.560	0.315	0.606	2.024	8582.9	1.320	0.346	0.606	1.784	8576.7
HK39210708.1	HK39211706	4	375	4	0.173	2.050	0.041	0.000	0.000	0.0	2.000	0.041	0.000	0.000	0.0
HK39211401.1	HK39212404	12	2300	4	4.424	0.129	0.896	0.738	-0.687	10179.3	0.126	0.898	0.738	-0.667	10157.7
HK39211403.1	HK39211499	29	1800	4	5.128	0.300	0.760	0.602	1.221	8411.2	0.220	0.837	0.602	1.229	8380.6
HK39211404.1	HK39211405	25	707	4	2.152	-0.720	1.751	0.738	0.365	10271.9x	-0.760	1.786	0.738	0.365	10224.9x
HK39211405.1	HK39211401	12	707	4	-14.670	-0.760	1.785	0.738	0.365	10208.5x	0.129	0.896	0.738	-1.213	10187.0x
HK39211499.1	T1					0.220	0.837	0.602		8376.2	0.220	0.828	0.602		8376.2
HK39211501.1	HK39211403	40	1800	4	4.101	0.370	0.700	0.602	1.215	8451.6	0.300	0.760	0.602	1.243	8414.7
HK39211502.1	HK39211501	74	1800	4	4.422	0.520	0.582	0.602	1.256	8511.0	0.370	0.700	0.602	1.225	8454.8
HK39211601.1	HK39211602	43	1800	4	4.989	0.800	0.440	0.602	1.372	8562.2	0.690	0.463	0.602	1.423	8544.0
HK39211602.1	HK39211502	52	1800	4	5.621	0.690	0.463	0.602	1.415	8542.0	0.520	0.582	0.602	1.264	8513.5
HK39211706.1	HK39211601	47	1800	4	10.303	1.320	0.345	0.605	1.784	8575.4	0.800	0.440	0.602	1.377	8564.0
HK39212001.1	HK39202903	13	2300	4	7.770	-0.060	0.988	1.449	0.987	19236.0	-0.070	0.995	1.449	0.975	19209.3
HK39212002.1	HK39212001	22	2300	4	5.956	-0.050	0.983	1.449	0.993	19288.3	-0.060	0.988	1.449	0.995	19243.3
HK39212003.1	HK39212002	49	2300	4	5.639	-0.030	0.974	1.449	0.992	19395.0	-0.050	0.983	1.449	0.999	19295.5
HK39212004.1	HK39212003	17	2300	4	6.793	-0.020	0.968	1.449	1.002	19436.2	-0.030	0.974	1.449	0.997	19402.2
HK39212005.1	HK39212004	4	2300	4	9.787	-0.015	0.964	1.449	1.016	19451.4	-0.020	0.968	1.449	1.008	19443.3
HK39212101.1	HK39212108	41	1600	4	6.283	0.010	0.944	1.449	0.616	19637.3	-0.010	0.961	1.449	0.520	19494.1
HK39212108.1	HK39212005	10	2300	4	6.231	-0.010	0.961	1.449	1.021	19478.5	-0.015	0.964	1.449	1.023	19458.5
HK39212201.1	HK39212101	70	2300	4	6.686	0.050	0.923	1.449	1.141	19786.4	0.010	0.944	1.449	1.381	19652.7
HK39212202.1	HK39212201	68	2300	4	6.773	0.090	0.902	1.449	1.095	19919.8	0.050	0.923	1.449	1.149	19793.1
HK39212301.1	HK39212202	26	2300	4	7.770	0.110	0.889	1.449	1.122	19973.4	0.090	0.902	1.449	1.108	19926.4
HK39212302.1	HK39212301	28	1100	4	3.534	0.120	0.881	1.449	0.594	20095.3	0.110	0.889	1.449	0.504	19991.4
HK39212303.1	HK39212302	21	2300	4	6.111	0.130	0.879	1.449	1.343	20150.1	0.120	0.882	1.449	1.452	20113.1
HK39212304.1	HK39212303	23	2300	4	5.903	0.140	0.876	1.449	1.287	20196.0	0.130	0.879	1.449	1.358	20156.5
HK39212402.1	C2	20	2300	4	5.572	0.119	0.904	0.738	-0.658	10119.0	0.111	0.910	0.738	-0.642	10082.1
HK39212404.1	HK39212402	14	2300	4	6.240	0.126	0.898	0.738	-0.673	10151.1	0.119	0.904	0.738	-0.652	10125.6
HK40187802.1	KT_PS	7	2300	230	8.332	-2.491	1.221	4.786	2.279	47877.7	-2.500	1.216	4.897	2.475	47873.5
HK40187803.1	HK40187802	7	2300	230	8.638	-2.482	1.229	4.684	2.097	47892.3	-2.491	1.224	4.753	2.258	47885.1
HK40187804.1	HK40187803	9	2300	230	8.149	-2.471	1.239	4.575	1.932	47912.5	-2.482	1.231	4.655	2.082	47900.0
HK40187890.1	KT_PS	5	2300	4	5.657	-2.500	1.225	-1.173	-0.864	-27.7	-2.510	1.226	-1.250	-0.904	-29.1
HK40187891.1	HK40187897					0.600	0.000	0.000		0.0	0.600	0.000	0.000		0.0
HK40187892.1	HK40187896	5	2000	4	19.716	0.400	0.204	0.000	0.000	0.0	0.350	0.204	0.000	0.000	0.0
HK40187893.1	KTIP OVERFLOW	6	2000	4	23.382	-1.600	0.204	0.000	0.000	0.0	-1.690	0.204	0.000	0.000	0.0
HK40187895.1	HK40187893	14	2000	4	15.119	0.280	0.104	0.000	0.000	0.0	0.200	0.104	0.000	0.000	0.0
HK40187896.1	HK40187895	13	2000	4	14.465	0.350	0.104	0.000	0.000	0.0	0.280	0.104	0.000	0.000	0.0
HK40187897.1	FLAP					0.850	0.000	0.000		0.0	0.850	0.000	0.000		0.0
HK40187898.1	HK40187890	9	2260	4	12.251	-2.412	1.137	-1.009	-0.822	-21.7	-2.500	1.225	-1.148	-0.844	-24.5
HK40187899.1	HK40187898	9	2220	4	4.605	-2.400	1.134	-0.855	-0.714	-15.8	-2.412	1.137	-0.985	-0.800	-18.8
HK40187902.1	BOX08	14	1624	162	4.713	-2.416	1.235	4.261	1.559	48034.3	-2.430	1.232	4.311	1.623	48005.6
HK40187903.1	HK40187902	14	1850	185	5.520	-2.402	1.242	4.228	1.527	48075.4	-2.416	1.239	4.251	1.591	48043.7
HK40187995.1	HK40187899	12	2207	4	6.288	-2.368	1.107	-0.817	0.627	-7.3	-2.400	1.134	-0.832	-0.694	-12.9
HK40187997.1	HK40187995	32	1988	4	12.805	-1.910	0.680	-0.779	1.044	1.7	-2.368	1.107	-0.806	0.603	-4.5
HK40187998.1	HK40187997	14	1086	4	1.992	-1.875	0.635	-0.667	-0.828	6.5	-1.896	0.665	-0.762	0.903	3.0
HK40187999.1	HK40187998	13	1295	4	2.809	-1.842	0.621	-0.550	-0.762	10.5	-1.867	0.627	-0.649	-0.833	7.7
HK40188701.1	HK40188702	42	2300	230	6.314	-0.020	1.081	3.530	1.422	31252.4	-0.050	0.981	3.485	1.604	31170.5
HK40188702.1	HK40189607	59	2300	4	8.902	-0.050	0.981	3.479	1.365	31161.9	-0.085	0.970	3.392	1.368	31035.4
HK40188798.1	HK40189699	59	1849	4	3.767	0.400	0.777	1.812	1.353	15339.4	0.368	0.737	1.728	1.388	15276.5
HK40188799.1	HK40188798	45	1847	4	4.606	0.436	0.788	1.871	1.376	15395.5	0.400	0.777	1.816	1.357	15342.9

Link Reference	D/S Node	Pipe Len (m)	Pipe Hgt (mm)	Sed Dpth (mm)	P.Full Flow (m3/s)	< Upstream Invert Level (m AD)	Max Depth (m)	Max Flow (m3/s)	Max Vel (m/s)	> Total Flow (m3)	< Downstream Invert Level (m AD)	Max Depth (m)	Max Flow (m3/s)	Max Vel (m/s)	> Total Flow (m3)
HK40188802.1	BOX07	15	2300	230	6.085	0.020	1.183	3.669	1.316	31425.9	0.010	1.165	3.650	1.326	31385.6
HK40188898.1	HK40188799	48	1839	4	4.655	0.476	0.804	1.954	1.388	15461.0	0.436	0.788	1.877	1.379	15399.0
HK40188899.1	HK40188898	14	1835	4	3.594	0.483	0.812	1.974	1.391	15484.0	0.476	0.804	1.960	1.391	15464.4
HK40188901.1	HK40188802	110	2300	230	5.959	0.090	1.285	4.089	1.331	31798.1	0.020	1.184	3.677	1.321	31433.5
HK40188902.1	HK40188901	3	2300	230	89.367	0.550	0.870	4.150	2.260	31816.1	0.090	1.288	4.120	1.337	31806.4
HK40188902.2	HK40188999	3	2300	4	11.920	0.550	0.870	2.216	1.510	15702.8	0.540	0.878	2.198	1.485	15695.9
HK40188999.1	HK40188899	115	1843	4	3.604	0.540	0.877	2.182	1.429	15692.4	0.483	0.813	1.979	1.397	15487.5
HK40189601.1	HK41180604	56	2300	4	11.178	-0.170	0.948	4.765	1.945	45890.6	-0.222	0.845	4.752	2.181	45801.5
HK40189602.1	HK40189601	11	2300	4	10.864	-0.160	0.948	3.163	1.306	30760.5	-0.170	0.948	3.141	1.290	30740.7
HK40189603.1	HK40189602	18	2300	4	10.559	-0.145	0.948	3.204	1.330	30800.9	-0.160	0.948	3.172	1.310	30769.0
HK40189604.1	HK40189603	12	2300	4	7.579	-0.140	0.954	3.232	1.336	30830.4	-0.145	0.949	3.212	1.335	30809.4
HK40189605.1	HK40189604	19	2300	4	8.502	-0.130	0.960	3.268	1.345	30873.3	-0.140	0.954	3.240	1.340	30839.0
HK40189606.1	HK40189605	44	2300	4	9.533	-0.100	0.965	3.324	1.363	30967.6	-0.130	0.960	3.275	1.349	30881.9
HK40189607.1	HK40189606	25	2300	4	8.965	-0.085	0.970	3.384	1.365	31026.7	-0.100	0.965	3.332	1.366	30976.2
HK40189694.1	HK40189601	12	1836	4	3.596	0.302	0.547	1.641	1.812	15164.4	0.296	0.507	1.643	1.995	15158.5
HK40189695.1	HK40189694	20	1840	4	3.773	0.313	0.602	1.645	1.635	15178.6	0.302	0.548	1.641	1.815	15166.9
HK40189696.1	HK40189695	13	1841	4	3.819	0.320	0.628	1.659	1.564	15189.6	0.313	0.602	1.649	1.638	15181.3
HK40189697.1	HK40189696	20	1840	4	3.783	0.331	0.662	1.677	1.484	15207.0	0.320	0.629	1.663	1.566	15192.5
HK40189698.1	HK40189697	44	1842	4	3.755	0.355	0.714	1.705	1.406	15247.1	0.331	0.662	1.681	1.487	15210.0
HK40189699.1	HK40189698	24	1846	4	3.754	0.368	0.737	1.722	1.384	15273.1	0.355	0.715	1.708	1.411	15250.4
HK40190601.1	HK40190602	39	2300	4	3.852	-1.154	1.409	2.455	0.750	29165.8	-1.170	1.405	2.455	0.752	29045.3
HK40190602.1	HK40190603	31	2300	115	3.140	-1.170	1.403	2.455	0.795	29034.5	-1.180	1.391	2.455	0.803	28947.1
HK40190603.1	HK40190604	47	2300	115	4.583	-1.180	1.390	2.455	0.803	28937.3	-1.213	1.391	2.455	0.803	28802.9
HK40190604.1	HK40191502	40	2300	115	3.589	-1.213	1.390	2.455	0.804	28793.2	-1.230	1.378	2.455	0.811	28682.0
HK40191502.1	C5	42	2300	115	5.679	-1.230	1.376	2.455	0.813	28672.3	-1.275	1.392	2.455	0.802	28554.5
HK40192401.1	HK40193304	52	2300	115	3.869	-1.394	1.262	3.988	1.461	50121.5	-1.420	1.115	3.988	1.694	49999.5
HK40192501.1	HK40192401	46	2300	115	5.951	-1.340	1.321	3.988	1.385	50248.3	-1.394	1.263	3.988	1.460	50130.3
HK40193304.1	BOX03	44	2300	115	12.844	-1.420	1.115	3.988	1.695	49992.0	-1.660	1.228	3.989	1.538	49893.0
HK40193305.1	HK40194399	24	1144	4	1.018	-0.734	0.061	0.000	0.000	0.0	-0.774	0.061	0.000	0.000	0.0
HK40194201.1	HK40195201	38	2300	115	7.644	-2.030	1.333	4.015	1.163	49176.3	-2.067	1.320	4.022	1.182	49055.2
HK40194202.1	HK40194201	57	2300	115	7.331	-1.978	1.354	4.004	1.135	49376.3	-2.030	1.334	4.015	1.162	49188.4
HK40194298.1	HK40195299	38	1362	4	1.362	-1.073	0.072	0.000	0.000	0.0	-1.148	0.072	0.000	0.000	0.0
HK40194299.1	HK40194298	57	1295	4	1.038	-0.961	0.069	0.000	0.000	0.0	-1.036	0.069	0.000	0.000	0.0
HK40194301.1	HK40194202	27	2300	115	2.967	-1.974	1.386	4.000	1.104	49479.0	-1.978	1.355	4.003	1.134	49388.7
HK40194302.1	HK40194301	28	2300	115	10.765	-1.920	1.364	3.996	1.123	49584.8	-1.974	1.387	4.000	1.103	49491.7
HK40194398.1	HK40194299	27	1216	4	1.280	-0.861	0.065	0.000	0.000	0.0	-0.923	0.065	0.000	0.000	0.0
HK40194399.1	HK40194398	27	1158	4	1.085	-0.780	0.062	0.000	0.000	0.0	-0.830	0.062	0.000	0.000	0.0
HK40195102.1	HK40196001	149	2300	115	7.711	-2.160	1.334	4.038	1.178	48834.4	-2.310	1.289	4.104	1.290	48356.3
HK40195198.1	HK40196099	149	1401	4	1.731	-1.291	0.102	-0.005	-0.105	0.1	-1.382	0.188	-0.071	0.613	-0.2
HK40195199.1	HK40195198	34	910	4	1.349	-1.221	0.051	0.000	-0.002	0.0	-1.259	0.070	-0.003	-0.093	0.1
HK40195201.1	BOX06	34	1900	95	5.850	-2.067	1.312	4.023	1.161	49042.8	-2.100	1.301	4.029	1.178	48930.2
HK40195299.1	HK40195199	50	1019	4	0.584	-1.184	0.055	0.000	0.000	0.0	-1.221	0.055	0.000	0.000	0.0
HK40196001.1	HK40187903	93	2300	115	7.654	-2.310	1.288	4.107	1.291	48345.3	-2.402	1.250	4.220	1.469	48085.3
HK40196099.1	HK40187999	93	1553	4	5.300	-1.405	0.211	-0.078	1.177	-0.2	-1.814	0.593	-0.532	-0.808	11.5
HK41180602.1	HK41180601	16	2300	4	29.658	-0.340	0.680	4.724	2.803	45712.1	-0.440	0.680	4.717	2.799	45695.1
HK41180603.1	HK41180602	3	2300	4	-13.861	-0.344	0.818	4.728	2.251	45721.9	-0.340	0.803	4.727	2.303	45717.9
HK41180604.1	HK41180603	46	2300	4	18.186	-0.232	0.855	4.748	2.149	45793.9	-0.344	0.819	4.732	2.250	45729.2
KEI YIP ST STORM DRAIN.1	DWFI CS4A-1	28	1350	4	3.028	0.520	0.071	0.000	0.000	0.0	0.400	0.071	0.000	0.000	0.0
KF06G540.1	KF06G541	11	225	4	0.040	3.255	0.026	0.000	0.000	0.0	3.141	0.026	0.000	0.000	0.0
KF06G541.1	KF06G542	30	225	4	0.040	3.141	0.026	0.000	0.000	0.0	2.835	0.026	0.000	0.000	0.0
KF06G542.1	KF06G543	4	225	4	0.037	2.835	0.024	0.000	0.000	0.0	2.800	0.024	0.000	0.000	0.0
KF06G543.1	KF06G544	7	225	4	0.082	2.800	0.026	0.000	0.000	0.0	2.499	0.026	0.000	0.000	0.0
KF06G544.1	KF06G545	6	225	4	0.049	2.499	0.026	0.000	0.000	0.0	2.405	0.026	0.000	0.000	0.0

Link Reference	D/S Node	Pipe Len (m)	Pipe Hgt (mm)	Sed Dpth (mm)	P.Full Flow (m3/s)	Upstream < Invert Level (m AD)	Max Depth (m)	Max Flow (m3/s)	Max Vel (m/s)	Total Flow > (m3)	Downstream < Invert Level (m AD)	Max Depth (m)	Max Flow (m3/s)	Max Vel (m/s)	Total Flow > (m3)
KF06G545.1	BOX07	1	200	4	0.027	2.312	0.024	0.000	0.000	0.0	2.303	0.024	0.000	0.000	0.0
KF06G547.1	KF06G548	14	225	4	0.018	3.118	0.024	0.000	0.000	0.0	3.090	0.024	0.000	0.000	0.0
KF06G548.1	KF06G542	16	225	4	0.029	3.090	0.024	0.000	0.000	0.0	3.001	0.024	0.000	0.000	0.0
KF06G549.1	KF06G548	11	225	4	0.036	3.266	0.024	0.000	0.000	0.0	3.172	0.024	0.000	0.000	0.0
KF0702CN4.1	BOX04	22	1400	70	7.338	-1.790	1.315	3.989	1.133	49828.6	-1.890	1.389	3.990	1.087	49752.4
KT_PS.1	HK40188902					-1.950	0.666	2.300		26271.6	-1.950	3.370	2.300		26271.6
KT_PS.3	HK40188902					-1.800	0.516	2.300		12505.5	-1.800	3.220	2.300		12505.5
KT_PS.4	HK40188902					-1.650	0.366	1.713		6936.5	-1.650	3.070	1.713		6936.5
KT_PS.5	HK40188902					-1.500	0.216	1.533		1917.4	-1.500	2.920	1.533		1917.4
KT_PS.6	HK40187891					0.600	0.000	0.000		0.0	0.600	0.000	0.000		0.0
STW01.1	STW	18	1575	4	0.000	0.000	0.083	0.000	0.000	0.0	0.000	0.083	0.000	0.000	0.0
T1.1	HK39211404	12	707	4	15.085	0.220	0.820	0.738	1.108	10309.7x	-0.720	1.753	0.738	0.365	10288.0x
T2.1	HK39198701	17	2300	4	3.311	-1.075	1.414	2.455	0.747	29702.7	-1.080	1.411	2.455	0.749	29651.6
T3.1	DWFI	42	2300	4	4.640	-0.525	1.173	1.651	0.616	20115.7	-0.550	1.182	1.651	0.611	20010.6

+ after total flow indicates a conduit surcharged by flow and depth at that end.
x after total flow indicates a conduit surcharged by depth only at that end.

NOTE :
(i) Maximum elevations, depths, volumes, velocities and discharges are selected from the values at each time increment and will be in general more extreme than the maximum values in the time varying results.
(ii) Maximum elevations, velocities and discharges are not necessarily calculated at the same time.
(iii) Maximum velocity is not calculated for a conduit unless the depth exceeds the base flow depth (by default, this is 5% of height for slopes <= 0.01, 10% otherwise, subject to a minimum of 0.02 m).

End of run 0 mins (elapsed) Produced on 23/05/2008 Last page

Start of run configured for MS Windows Produced on 23/05/2008 at 19:49

Trunk Ultimate 2DWF

HydroWorks(tm) SIM

Summary results from Simulation

Version 6.1.807 dated June 2006

Licence Number - WS01550002PM

Message 253: Run finished for event 1.

Summary results for event 1 - DWF
Started at 00000000000000. Run for 240.00 min. (Requested simulation time 240.00 min)

Files used:
Network: ...\NET29#3.spb Ultimate - ADWF_update#1 (Revision 3)
State:
Runoff: ...\NET29#3.rpf Ultimate - ADWF_update#1 (Revision 3) (InfoWorks 7.51.13014)
Rainfall:
DWF:
Inflows: ...\SIM155event.qin 1
Levels:
RTC:
Results: ...\SIM155.iwr

Total rainfall = 0.0 m3
Total runoff = 0.0 m3
Total inflow = 106757.3 m3
Total outflow = 86737.1 m3
Total lost = 0.0 m3

********** Node data **********

Node Reference	Ground Level (m AD)	Max Level (m AD)	Flood Volume (m3)	Flood Depth (m)	Flood Area (m2)	Max Stored (m3)	Inflow (m3)	Vol Balance (m3)	Vol Balance (%)
BOX02	4.250	1.168	0.0	0.000	0.0	19.4	0.0	0.000	0.000
BOX03	3.870	0.481	0.0	0.000	0.0	18.0	0.0	0.000	0.000
BOX04	3.800	0.185	0.0	0.000	0.0	23.0	0.0	0.000	0.000
BOX05	3.800	0.150	0.0	0.000	0.0	22.8	0.0	0.000	0.000
BOX06	4.090	-0.236	0.0	0.000	0.0	20.7	0.0	0.000	0.000
BOX07	4.100	1.528	0.0	0.000	0.0	16.8	0.0	0.000	0.000
BOX08	4.000	-0.895	0.0	0.000	0.0	26.2	0.0	0.000	0.000
C1	6.050	2.292	0.0	0.000	0.0	2.6	17185.9	0.000	0.000
C2	5.030	1.942	0.0	0.000	0.0	15.4	20297.6	0.000	0.000
C3	4.910	1.714	0.0	0.000	0.0	16.8	4339.3	0.000	0.000
C4	5.000	1.383	0.0	0.000	0.0	19.3	1912.7	0.000	0.000
C5	4.150	0.982	0.0	0.000	0.0	19.0	43764.1	0.000	0.000
DWFI	4.800	1.582	0.0	0.000	0.0	17.9	7137.0	0.000	0.000
DWFI CS4A-1	3.720	0.471	0.0	0.000	0.0	0.2	0.0	0.000	0.000
DWFI CS4A-2	3.720	0.450	0.0	0.000	0.0	0.0	0.0	0.000	0.000
DWFI CS4A-3	3.720	-0.466	0.0	0.000	0.0	0.1	0.0	0.000	0.000
FLAP	4.000	0.658	0.0	0.000	0.0	1.5	0.0	0.000	0.000
HK38218701	5.470	2.891	0.0	0.000	0.0	0.2	0.0	0.000	0.000
HK38219701	6.060	2.599	0.0	0.000	0.0	0.2	0.0	0.000	0.000
HK38219702	5.752	2.749	0.0	0.000	0.0	0.3	0.0	0.000	0.000
HK39194801	5.950	1.508	0.0	0.000	0.0	18.6	0.0	0.000	0.000
HK39195701	5.400	1.428	0.0	0.000	0.0	19.1	0.0	0.000	0.000
HK39195801	5.750	1.452	0.0	0.000	0.0	19.0	0.0	0.000	0.000
HK39195802	5.850	1.480	0.0	0.000	0.0	18.9	0.0	0.000	0.000
HK39196701	4.990	1.358	0.0	0.000	0.0	19.2	0.0	0.000	0.000
HK39196703	5.000	1.410	0.0	0.000	0.0	19.1	0.0	0.000	0.000
HK39197701	4.500	1.336	0.0	0.000	0.0	19.4	0.0	0.000	0.000
HK39197702	4.390	1.309	0.0	0.000	0.0	19.8	0.0	0.000	0.000
HK39198701	4.250	1.253	0.0	0.000	0.0	19.6	0.0	0.000	0.000
HK39198703	4.400	1.282	0.0	0.000	0.0	19.7	0.0	0.000	0.000
HK39199701	4.290	1.183	0.0	0.000	0.0	19.5	0.0	0.000	0.000
HK39199702	4.300	1.223	0.0	0.000	0.0	19.6	0.0	0.000	0.000
HK39202202	4.400	1.631	0.0	0.000	0.0	17.6	0.0	0.000	0.000
HK39202203	4.150	1.634	0.0	0.000	0.0	17.6	0.0	0.000	0.000
HK39202307	4.300	1.650	0.0	0.000	0.0	17.4	0.0	0.000	0.000
HK39202312	4.500	1.659	0.0	0.000	0.0	17.3	0.0	0.000	0.000
HK39202314	4.387	1.644	0.0	0.000	0.0	18.4	0.0	0.000	0.000
HK39202403	4.700	1.669	0.0	0.000	0.0	17.0	0.0	0.000	0.000
HK39202505	4.900	1.683	0.0	0.000	0.0	16.8	0.0	0.000	0.000

HK39202507	4.910	1.722	0.0	0.000	0.0	16.9	0.0	0.000	0.000
HK39202601	4.900	1.730	0.0	0.000	0.0	16.9	0.0	0.000	0.000
HK39202602	5.100	1.756	0.0	0.000	0.0	16.8	0.0	0.000	0.000
HK39202702	5.150	1.767	0.0	0.000	0.0	16.7	0.0	0.000	0.000
HK39202703	5.200	1.776	0.0	0.000	0.0	16.7	0.0	0.000	0.000
HK39202704	4.780	1.789	0.0	0.000	0.0	16.6	0.0	0.000	0.000
HK39202801	5.200	1.804	0.0	0.000	0.0	16.6	0.0	0.000	0.000
HK39202802	4.990	1.811	0.0	0.000	0.0	16.4	0.0	0.000	0.000
HK39202803	5.350	1.817	0.0	0.000	0.0	16.4	0.0	0.000	0.000
HK39202901	4.750	1.824	0.0	0.000	0.0	16.2	0.0	0.000	0.000
HK39202902	4.850	1.829	0.0	0.000	0.0	16.1	0.0	0.000	0.000
HK39202903	4.850	1.836	0.0	0.000	0.0	16.2	0.0	0.000	0.000
HK39203002	4.900	1.535	0.0	0.000	0.0	17.9	0.0	0.000	0.000
HK39203103	5.300	1.611	0.0	0.000	0.0	17.8	0.0	0.000	0.000

Node Reference	Ground Level (m AD)	Max Level (m AD)	Flood Volume (m3)	Flood Depth (m)	Flood Area (m2)	Max Stored (m3)	Inflow (m3)	Vol Balance (m3)	Vol Balance (%)
HK39203104	5.000	1.615	0.0	0.000	0.0	17.8	0.0	0.000	0.000
HK39203201	4.200	1.622	0.0	0.000	0.0	17.7	0.0	0.000	0.000
HK39210705	6.270	2.509	0.0	0.000	0.0	0.2	0.0	0.000	0.000
HK39210707	6.020	2.159	0.0	0.000	0.0	3.1	0.0	0.000	0.000
HK39210708	5.640	2.114	0.0	0.000	0.0	0.1	0.0	0.000	0.000
HK39211401	5.130	1.947	0.0	0.000	0.0	17.1	0.0	0.000	0.000
HK39211403	4.240	2.037	0.0	0.000	0.0	9.0	0.0	0.000	0.000
HK39211404	4.900	1.978	0.0	0.000	0.0	25.4	0.0	0.000	0.000
HK39211405	5.070	1.955	0.0	0.000	0.0	25.5	0.0	0.000	0.000
HK39211499	4.070	2.032	0.0	0.000	0.0	9.4	0.0	0.000	0.000
HK39211501	4.480	2.044	0.0	0.000	0.0	8.7	0.0	0.000	0.000
HK39211502	4.320	2.058	0.0	0.000	0.0	8.0	0.0	0.000	0.000
HK39211601	5.430	2.074	0.0	0.000	0.0	6.6	0.0	0.000	0.000
HK39211602	5.470	2.065	0.0	0.000	0.0	7.2	0.0	0.000	0.000
HK39211706	5.790	2.111	0.0	0.000	0.0	4.1	0.0	0.000	0.000
HK39212001	4.850	1.840	0.0	0.000	0.0	16.0	0.0	0.000	0.000
HK39212002	4.850	1.844	0.0	0.000	0.0	15.9	0.0	0.000	0.000
HK39212003	5.150	1.853	0.0	0.000	0.0	15.8	0.0	0.000	0.000
HK39212004	4.950	1.861	0.0	0.000	0.0	15.8	0.0	0.000	0.000
HK39212005	4.950	1.866	0.0	0.000	0.0	15.8	0.0	0.000	0.000
HK39212101	5.000	1.876	0.0	0.000	0.0	33.2	0.0	0.000	0.000
HK39212108	4.950	1.869	0.0	0.000	0.0	33.5	0.0	0.000	0.000
HK39212201	5.550	1.887	0.0	0.000	0.0	15.4	0.0	0.000	0.000
HK39212202	5.330	1.899	0.0	0.000	0.0	15.2	0.0	0.000	0.000
HK39212301	5.150	1.905	0.0	0.000	0.0	38.9	0.0	0.000	0.000
HK39212302	5.150	1.925	0.0	0.000	0.0	39.2	0.0	0.000	0.000
HK39212303	5.150	1.930	0.0	0.000	0.0	15.1	0.0	0.000	0.000
HK39212304	5.150	1.938	0.0	0.000	0.0	15.4	0.0	0.000	0.000
HK39212402	5.100	1.944	0.0	0.000	0.0	15.3	0.0	0.000	0.000
HK39212404	5.100	1.946	0.0	0.000	0.0	15.3	0.0	0.000	0.000
HK40187802	3.750	-1.055	0.0	0.000	0.0	15.9	0.0	0.000	0.000
HK40187803	3.750	-1.008	0.0	0.000	0.0	16.4	0.0	0.000	0.000
HK40187804	3.750	-0.953	0.0	0.000	0.0	26.0	0.0	0.000	0.000
HK40187890	3.850	-1.120	0.0	0.000	0.0	5.1	0.0	0.000	0.000
HK40187891	3.850	0.600	0.0	0.000	0.0	0.0	0.0	0.000	0.000
HK40187892	3.800	0.604	0.0	0.000	0.0	1.5	0.0	0.000	0.000
HK40187893	3.800	-1.396	0.0	0.000	0.0	1.5	0.0	0.000	0.000
HK40187895	3.750	0.384	0.0	0.000	0.0	0.8	0.0	0.000	0.000
HK40187896	3.750	0.454	0.0	0.000	0.0	0.8	0.0	0.000	0.000
HK40187897	3.800	0.600	0.0	0.000	0.0	0.1	0.0	0.000	0.000
HK40187898	3.800	-1.120	0.0	0.000	0.0	4.8	0.0	0.000	0.000

HK40187899	3.800	-1.117	0.0	0.000	0.0	4.7	0.0	0.000	0.000
HK40187902	3.800	-0.841	0.0	0.000	0.0	17.5	0.0	0.000	0.000
HK40187903	3.800	-0.762	0.0	0.000	0.0	18.2	0.0	0.000	0.000
HK40187995	3.800	-1.115	0.0	0.000	0.0	4.6	0.0	0.000	0.000
HK40187997	3.800	-1.110	0.0	0.000	0.0	3.0	0.0	0.000	0.000
HK40187998	3.800	-1.112	0.0	0.000	0.0	2.8	0.0	0.000	0.000
HK40187999	3.800	-1.105	0.0	0.000	0.0	2.7	0.0	0.000	0.000
HK40188701	4.300	1.409	0.0	0.000	0.0	15.9	0.0	0.000	0.000
HK40188702	4.200	1.292	0.0	0.000	0.0	14.9	0.0	0.000	0.000
HK40188798	4.200	1.494	0.0	0.000	0.0	6.6	0.0	0.000	0.000
HK40188799	4.300	1.556	0.0	0.000	0.0	6.7	0.0	0.000	0.000
HK40188802	4.100	1.568	0.0	0.000	0.0	17.2	0.0	0.000	0.000

Node Reference	Ground Level (m AD)	Max Level (m AD)	Flood Volume (m3)	Flood Depth (m)	Flood Area (m2)	Max Stored (m3)	Inflow (m3)	Vol Balance (m3)	Vol Balance (%)
HK40188898	4.100	1.621	0.0	0.000	0.0	6.9	0.0	0.000	0.000
HK40188899	4.100	1.647	0.0	0.000	0.0	7.0	0.0	0.000	0.000
HK40188901	3.900	1.763	0.0	0.000	0.0	18.6	0.0	0.000	0.000
HK40188902	3.900	1.785	0.0	0.000	0.0	246.9	0.0	0.000	0.000
HK40188999	3.900	1.782	0.0	0.000	0.0	7.4	0.0	0.000	0.000
HK40189601	4.460	1.096	0.0	0.000	0.0	14.0	0.0	0.000	0.000
HK40189602	3.740	1.111	0.0	0.000	0.0	14.1	0.0	0.000	0.000
HK40189603	3.740	1.132	0.0	0.000	0.0	14.2	0.0	0.000	0.000
HK40189604	3.740	1.148	0.0	0.000	0.0	14.3	0.0	0.000	0.000
HK40189605	3.740	1.167	0.0	0.000	0.0	14.4	0.0	0.000	0.000
HK40189606	4.150	1.209	0.0	0.000	0.0	14.5	0.0	0.000	0.000
HK40189607	4.150	1.236	0.0	0.000	0.0	14.7	0.0	0.000	0.000
HK40189694	3.740	1.136	0.0	0.000	0.0	5.0	0.0	0.000	0.000
HK40189695	3.740	1.193	0.0	0.000	0.0	5.3	0.0	0.000	0.000
HK40189696	3.740	1.224	0.0	0.000	0.0	5.4	0.0	0.000	0.000
HK40189697	3.740	1.268	0.0	0.000	0.0	5.6	0.0	0.000	0.000
HK40189698	4.150	1.358	0.0	0.000	0.0	6.0	0.0	0.000	0.000
HK40189699	4.150	1.404	0.0	0.000	0.0	6.2	0.0	0.000	0.000
HK40190601	4.150	1.153	0.0	0.000	0.0	19.4	0.0	0.000	0.000
HK40190602	4.150	1.120	0.0	0.000	0.0	19.2	0.0	0.000	0.000
HK40190603	4.150	1.087	0.0	0.000	0.0	19.0	0.0	0.000	0.000
HK40190604	4.150	1.052	0.0	0.000	0.0	19.0	0.0	0.000	0.000
HK40191502	4.290	1.022	0.0	0.000	0.0	18.9	0.0	0.000	0.000
HK40192401	4.150	0.709	0.0	0.000	0.0	17.7	0.0	0.000	0.000
HK40192501	4.290	0.819	0.0	0.000	0.0	18.1	0.0	0.000	0.000
HK40193304	4.150	0.575	0.0	0.000	0.0	16.8	0.0	0.000	0.000
HK40193305	3.800	-0.673	0.0	0.000	0.0	0.1	0.0	0.000	0.000
HK40194201	3.800	-0.081	0.0	0.000	0.0	21.6	0.0	0.000	0.000
HK40194202	3.800	0.007	0.0	0.000	0.0	22.0	0.0	0.000	0.000
HK40194298	3.800	-1.001	0.0	0.000	0.0	0.1	0.0	0.000	0.000
HK40194299	3.800	-0.892	0.0	0.000	0.0	0.1	0.0	0.000	0.000
HK40194301	3.800	0.053	0.0	0.000	0.0	22.5	0.0	0.000	0.000
HK40194302	3.760	0.110	0.0	0.000	0.0	22.5	0.0	0.000	0.000
HK40194398	3.800	-0.796	0.0	0.000	0.0	0.1	0.0	0.000	0.000
HK40194399	3.760	-0.718	0.0	0.000	0.0	0.1	0.0	0.000	0.000
HK40195102	3.900	-0.287	0.0	0.000	0.0	20.8	0.0	0.000	0.000
HK40195198	3.900	-1.100	0.0	0.000	0.0	0.7	0.0	0.000	0.000
HK40195199	3.800	-1.091	0.0	0.000	0.0	0.5	0.0	0.000	0.000
HK40195201	3.800	-0.144	0.0	0.000	0.0	21.3	0.0	0.000	0.000
HK40195299	3.800	-1.078	0.0	0.000	0.0	0.2	0.0	0.000	0.000
HK40196001	3.840	-0.556	0.0	0.000	0.0	19.5	0.0	0.000	0.000

HK40196099	3.840	-1.092	0.0	0.000	0.0	1.2	0.0	0.000	0.000
HK41180602	4.200	0.580	0.0	0.000	0.0	10.2	0.0	0.000	0.000
HK41180603	4.200	0.739	0.0	0.000	0.0	12.0	0.0	0.000	0.000
HK41180604	4.018	0.907	0.0	0.000	0.0	12.6	0.0	0.000	0.000
KEI YIP ST STORM DRAIN	4.100	0.591	0.0	0.000	0.0	0.2	0.0	0.000	0.000
KF06G540	4.310	3.281	0.0	0.000	0.0	0.0	0.0	0.000	0.000
KF06G541	4.110	3.167	0.0	0.000	0.0	0.0	0.0	0.000	0.000
KF06G542	4.040	2.859	0.0	0.000	0.0	0.0	0.0	0.000	0.000
KF06G543	4.060	2.824	0.0	0.000	0.0	0.0	0.0	0.000	0.000
KF06G544	4.090	2.525	0.0	0.000	0.0	0.0	0.0	0.000	0.000
KF06G545	4.170	2.336	0.0	0.000	0.0	0.0	0.0	0.000	0.000
KF06G547	4.100	3.142	0.0	0.000	0.0	0.0	0.0	0.000	0.000

Node Reference	Ground Level (m AD)	Max Level (m AD)	Flood Volume (m3)	Flood Depth (m)	Flood Area (m2)	Max Stored (m3)	Inflow (m3)	Vol Balance (m3)	Vol Balance (%)
KF06G548	4.450	3.114	0.0	0.000	0.0	0.0	0.0	0.000	0.000
KF06G549	4.180	3.290	0.0	0.000	0.0	0.0	0.0	0.000	0.000
KF0702CN4	3.860	0.322	0.0	0.000	0.0	23.4	0.0	0.000	0.000
KT_PS	3.740	-1.122	0.0	0.000	0.0	576.3	0.0	0.000	0.000
STW01	4.300	0.083	0.0	0.000	0.0	0.4	0.0	0.000	0.000
T1	4.070	2.023	0.0	0.000	0.0	17.0	3882.5	0.000	0.000
T2	4.300	1.266	0.0	0.000	0.0	19.7	6765.9	0.000	0.000
T3	5.000	1.603	0.0	0.000	0.0	17.9	1427.4	0.000	0.000

A %% indicates water lost from the system.

********** Link data **********

Link Reference	D/S Node	Pipe Len (m)	Pipe Hgt (mm)	Sed Dpth (mm)	P.Full Flow (m3/s)	Upstream < Invert Level (m AD)	Max Depth (m)	Max Flow (m3/s)	Max Vel (m/s)	Total Flow (m3) >	Downstream < Invert Level (m AD)	Max Depth (m)	Max Flow (m3/s)	Max Vel (m/s)	Total Flow (m3) >
BOX02.1	HK40190601	19	2300	4	3.689	-1.147	2.311	4.394	0.835	51608.8+	-1.154	2.307	4.394	0.836	51514.2+
BOX03.1	KF0702CN4	16	1400	70	7.970	-1.660	2.099	7.457	1.811	93227.1x	-1.790	2.116	7.457	1.801	93164.4x
BOX04.1	BOX05	13	2300	115	6.648	-1.890	2.057	7.457	1.328	93014.8	-1.900	2.051	7.457	1.334	92941.7
BOX05.1	HK40194302	25	2300	115	6.925	-1.900	2.043	7.457	1.339	92921.4	-1.920	2.031	7.457	1.348	92787.8
BOX06.2	HK40195102	21	1800	90	9.310	-2.100	1.851	7.459	1.492	91722.2x	-2.160	1.875	7.463	1.475	91617.8x
BOX07.1	HK40188701	50	2300	230	5.790	0.010	1.506	5.592	1.480	57658.9	-0.020	1.429	5.503	1.557	57472.1
BOX08.1	HK40187804	33	2300	230	11.778	-2.430	1.531	7.702	1.714	90349.4	-2.471	1.519	7.888	1.805	90220.9
C1.1	HK39210707	30	1800	4	8.655	1.790	0.501	1.204	2.386	17183.8	1.560	0.599	1.214	2.428	17166.5
C2.1	HK39212304	12	2300	4	-13.669	0.111	1.829	2.896	1.521	40263.6	0.140	1.798	2.896	1.655	40213.7
C3.1	HK39202505	58	2300	125	3.931	-0.290	1.998	3.194	1.133	40663.9	-0.320	2.003	3.193	1.358	40413.6
C4.1	HK39196701	19	2300	4	6.171	-0.910	2.277	3.922	0.753	46751.8	-0.930	2.289	3.921	0.750	46656.0
C5.1	HK40192501	62	2300	115	5.615	-1.275	2.221	7.459	1.508	94213.2	-1.340	2.160	7.458	1.542	93924.7
DWFI CS4A-1.1	HK40187893					0.960	0.000	0.000		0.0	0.960	0.000	0.000		0.0
DWFI CS4A-1.2	DWFI CS4A-2	4	400	4	0.000	0.450	0.024	0.000	0.000	0.0	0.450	0.024	0.000	0.000	0.0
DWFI CS4A-2.1	DWFI CS4A-3					0.450	0.000	0.000		0.0	0.450	0.000	0.000		0.0
DWFI CS4A-3.1	HK40187890	8	300	4	0.191	-0.500	0.034	0.000	0.000	0.0	-0.900	0.034	0.000	0.000	0.0
DWFI.1	HK39203002	86	2300	4	4.578	-0.550	2.123	3.790	0.937	46832.3	-0.600	2.136	3.790	0.904	46419.9
FLAP.1	HK40187892	5	2000	4	20.490	0.454	0.204	0.000	0.000	0.0	0.400	0.204	0.000	0.000	0.0
HK38218701.1	HK38219702	59	1350	4	2.254	2.820	0.071	0.000	0.000	0.0	2.680	0.071	0.000	0.000	0.0
HK38219701.1	HK39210705	34	1300	4	2.140	2.530	0.069	0.000	0.000	0.0	2.440	0.069	0.000	0.000	0.0
HK38219702.1	HK38219701	41	1300	4	2.524	2.680	0.069	0.000	0.000	0.0	2.530	0.069	0.000	0.000	0.0
HK39194801.1	HK39195802	62	2300	4	5.931	-0.710	2.215	3.789	0.804	46156.8	-0.770	2.250	3.789	0.754	45850.3
HK39195701.1	HK39196703	40	2300	4	5.222	-0.840	2.266	3.788	0.729	45303.2	-0.870	2.280	3.788	0.726	45102.9
HK39195801.1	HK39195701	36	2300	4	5.019	-0.815	2.258	3.788	0.731	45501.4	-0.840	2.269	3.788	0.729	45321.2
HK39195802.1	HK39195801	63	2300	4	5.104	-0.770	2.247	3.789	0.753	45832.4	-0.815	2.267	3.788	0.729	45519.4
HK39196701.1	HK39197701	45	2300	4	5.671	-0.930	2.285	3.921	0.751	46637.8	-0.970	2.306	3.921	0.746	46409.9x
HK39196703.1	C4	45	2300	4	5.664	-0.870	2.271	3.788	0.728	45084.8	-0.910	2.293	3.788	0.723	44857.4
HK39197701.1	HK39197702	56	2300	4	7.189	-0.970	2.303	3.921	0.747	46391.6x	-1.050	2.360	3.921	0.735	46104.9x
HK39197702.1	HK39198703	56	2300	4	3.314	-1.050	2.356	3.921	0.735	46086.1+	-1.067	2.349	3.921	0.737	45798.1+
HK39198701.1	HK39199702	49	2300	4	4.283	-1.080	2.330	4.394	0.831	52279.5+	-1.105	2.328	4.394	0.831	52027.7+
HK39198703.1	T2	28	2300	4	3.209	-1.067	2.346	3.921	0.738	45779.4+	-1.075	2.342	3.920	0.738	45635.3+
HK39199701.1	BOX02	20	2300	4	3.532	-1.140	2.319	4.394	0.833	51730.7+	-1.147	2.315	4.394	0.834	51627.2+
HK39199702.1	HK39199701	51	2300	4	4.983	-1.105	2.316	4.394	0.834	52009.2x	-1.140	2.323	4.394	0.832	51749.2x
HK39202202.2	HK39203201	50	2300	4	5.588	-0.460	2.090	3.191	0.830	39118.4	-0.480	2.102	3.191	0.790	38881.0
HK39202203.1	HK39202202	5	2300	4	0.000	-0.460	2.092	3.191	0.835	39158.5	-0.460	2.092	3.191	0.833	39134.9
HK39202307.1	HK39202314	16	2300	4	23.569	-0.420	2.067	3.192	0.940	39524.9	-0.533	2.178	3.192	0.798	39448.4
HK39202312.1	HK39202307	45	2300	4	5.877	-0.400	2.057	3.192	1.012	39753.1	-0.420	2.070	3.192	0.946	39541.3
HK39202314.1	HK39202203	53	2300	4	-11.071	-0.543	2.186	3.192	0.788	39431.0	-0.460	2.094	3.191	0.837	39175.1
HK39202403.1	HK39202312	59	2300	4	7.288	-0.360	2.028	3.193	1.107	40042.7	-0.400	2.059	3.192	1.017	39769.4
HK39202505.1	HK39202403	74	2300	4	6.498	-0.320	2.001	3.193	1.172	40397.8	-0.360	2.029	3.193	1.113	40058.7
HK39202507.1	C3	7	2300	125	-4.139	-0.294	2.011	2.890	0.961	36369.6	-0.290	2.004	2.890	0.974	36339.4
HK39202601.1	HK39202507	19	2300	125	4.675	-0.280	2.008	2.890	0.959	36467.6	-0.294	2.016	2.890	0.963	36384.6
HK39202602.1	HK39202601	70	2300	125	4.148	-0.240	1.994	2.891	0.940	36782.8	-0.280	2.010	2.890	0.961	36482.5
HK39202702.1	HK39202602	16	2300	125	5.285	-0.225	1.987	2.891	0.944	36866.7	-0.240	1.996	2.891	0.942	36797.6
HK39202703.1	HK39202702	21	2300	125	4.627	-0.210	1.984	2.891	0.943	36971.3	-0.225	1.992	2.891	0.946	36881.4
HK39202704.1	HK39202703	32	2300	125	4.328	-0.190	1.977	2.891	0.939	37122.6	-0.210	1.986	2.891	0.945	36986.1
HK39202801.1	HK39202704	36	2300	125	4.075	-0.170	1.972	2.891	0.941	37290.9	-0.190	1.979	2.891	0.940	37137.3
HK39202802.1	HK39202801	44	2300	4	7.290	-0.140	1.950	2.892	0.946	37503.7	-0.170	1.974	2.892	0.863	37306.5
HK39202803.1	HK39202802	27	2300	4	5.378	-0.130	1.945	2.892	1.034	37639.0	-0.140	1.951	2.892	0.957	37519.1
HK39202901.1	HK39202803	47	2300	4	7.054	-0.100	1.923	2.892	1.233	37862.1	-0.130	1.947	2.892	1.052	37654.3
HK39202902.1	HK39202901	23	2300	4	5.826	-0.090	1.918	2.893	1.272	37978.0	-0.100	1.925	2.892	1.247	37877.3
HK39202903.1	HK39202902	42	2300	4	6.096	-0.070	1.905	2.893	1.306	38176.4	-0.090	1.919	2.893	1.284	37993.2
HK39203002.1	HK39194801	47	2300	4	9.202	-0.600	2.127	3.790	0.902	46403.0	-0.710	2.218	3.789	0.806	46174.4

Link Reference	D/S Node	Pipe Len (m)	Pipe Hgt (mm)	Sed Dpth (mm)	P.Full Flow (m3/s)	Upstream < Invert Level (m AD)	Max Depth (m)	Max Flow (m3/s)	Max Vel (m/s)	Total Flow > (m3)	Downstream < Invert Level (m AD)	Max Depth (m)	Max Flow (m3/s)	Max Vel (m/s)	Total Flow > (m3)
HK39203103.1	T3	21	2300	4	5.083	-0.510	2.120	3.191	0.741	38602.2	-0.525	2.128	3.190	0.727	38502.1
HK39203104.1	HK39203103	10	2300	4	8.817	-0.500	2.113	3.191	0.755	38667.1	-0.510	2.121	3.191	0.743	38619.0
HK39203201.1	HK39203104	38	2300	4	6.425	-0.480	2.100	3.191	0.788	38864.3	-0.500	2.115	3.191	0.757	38683.8
HK39210705.1	C1	31	1300	4	2.799	2.440	0.069	0.000	0.000	0.0	2.301	0.069	0.000	0.000	0.0
HK39210707.1	HK39211706	24	1800	4	9.816	1.560	0.598	1.212	2.542	17163.8	1.320	0.791	1.212	2.372	17143.7
HK39210708.1	HK39211706	4	375	4	0.173	2.050	0.064	0.000	-0.001	0.0	2.000	0.111	0.000	-0.001	-0.1
HK39211401.1	HK39212404	12	2300	4	4.424	0.129	1.818	1.474	-0.875	20199.4	0.126	1.820	1.474	-0.846	20150.2
HK39211403.1	HK39211499	29	1800	4	5.128	0.300	1.736	1.203	1.365	16574.6	0.220	1.812	1.203	1.007	16501.1x
HK39211404.1	HK39211405	25	707	4	2.152	-0.720	2.695	1.474	0.711	20310.2x	-0.760	2.715	1.474	0.711	20263.1x
HK39211405.1	HK39211401	12	707	4	-14.670	-0.760	2.711	1.474	0.711	20237.9x	0.129	1.818	1.474	-1.585	20215.8x
HK39211499.1	T1					0.220	1.812	1.203		16491.7	0.220	1.803	1.203		16491.7
HK39211501.1	HK39211403	40	1800	4	4.101	0.370	1.673	1.203	1.456	16681.4	0.300	1.737	1.203	1.396	16583.1
HK39211502.1	HK39211501	74	1800	4	4.422	0.520	1.535	1.203	1.574	16862.9	0.370	1.674	1.203	1.469	16689.6
HK39211601.1	HK39211602	43	1800	4	4.989	0.800	1.271	1.204	1.706	17070.3	0.690	1.375	1.203	1.754	16987.9
HK39211602.1	HK39211502	52	1800	4	5.621	0.690	1.374	1.203	1.747	16981.3	0.520	1.538	1.203	1.581	16870.4
HK39211706.1	HK39211601	47	1800	4	10.303	1.320	0.790	1.211	2.376	17140.0	0.800	1.274	1.204	1.710	17076.4
HK39212001.1	HK39202903	13	2300	4	7.770	-0.060	1.898	2.893	1.328	38247.5	-0.070	1.907	2.893	1.316	38191.4
HK39212002.1	HK39212001	22	2300	4	5.956	-0.050	1.893	2.893	1.333	38357.7	-0.060	1.900	2.893	1.338	38262.5
HK39212003.1	HK39212002	49	2300	4	5.639	-0.030	1.882	2.894	1.330	38583.9	-0.050	1.895	2.893	1.341	38372.6
HK39212004.1	HK39212003	17	2300	4	6.793	-0.020	1.876	2.894	1.345	38671.2	-0.030	1.883	2.894	1.341	38598.7
HK39212005.1	HK39212004	4	2300	4	9.787	-0.015	1.876	2.894	1.362	38703.5	-0.020	1.881	2.894	1.354	38686.0
HK39212101.1	HK39212108	41	1600	4	6.283	0.010	1.864	2.894	0.882	39053.5x	-0.010	1.880	2.894	0.736	38793.4x
HK39212108.1	HK39212005	10	2300	4	6.231	-0.010	1.878	2.894	1.368	38761.4	-0.015	1.882	2.894	1.371	38718.3
HK39212201.1	HK39212101	70	2300	4	6.686	0.050	1.836	2.895	1.514	39379.9	0.010	1.866	2.894	1.785	39085.2
HK39212202.1	HK39212201	68	2300	4	6.773	0.090	1.808	2.895	1.458	39676.8	0.050	1.838	2.895	1.524	39394.3
HK39212301.1	HK39212202	26	2300	4	7.770	0.110	1.793	2.895	1.481	39797.0	0.090	1.809	2.895	1.467	39691.0
HK39212302.1	HK39212301	28	1100	4	3.534	0.120	1.792	2.895	0.801	39971.5x	0.110	1.795	2.895	0.707	39834.6x
HK39212303.1	HK39212302	21	2300	4	6.111	0.130	1.798	2.896	1.689	40094.6	0.120	1.805	2.896	1.807	40009.4
HK39212304.1	HK39212303	23	2300	4	5.903	0.140	1.793	2.896	1.638	40199.6	0.130	1.800	2.896	1.701	40108.7
HK39212402.1	C2	20	2300	4	5.572	0.119	1.824	1.474	-0.830	20063.6	0.111	1.831	1.474	-0.806	19980.3
HK39212404.1	HK39212402	14	2300	4	6.240	0.126	1.819	1.474	-0.856	20135.9	0.119	1.825	1.474	-0.821	20077.9
HK40187802.1	KT_PS	7	2300	230	8.332	-2.491	1.404	8.045	2.780	90141.8	-2.500	1.378	8.085	2.961	90125.8
HK40187803.1	HK40187802	7	2300	230	8.638	-2.482	1.456	7.984	2.584	90168.2	-2.491	1.437	8.024	2.724	90151.4
HK40187804.1	HK40187803	9	2300	230	8.149	-2.471	1.499	7.914	2.390	90203.8	-2.482	1.475	7.964	2.542	90178.5
HK40187890.1	KT_PS	5	2300	4	5.657	-2.500	1.380	-1.188	-0.819	-61.2	-2.510	1.388	-1.238	-0.842	-64.5
HK40187891.1	HK40187897					0.600	0.000	0.000		0.0	0.600	0.000	0.000		0.0
HK40187892.1	HK40187896	5	2000	4	19.716	0.400	0.204	0.000	0.000	0.0	0.350	0.204	0.000	0.000	0.0
HK40187893.1	KTIP OVERFLOW	6	2000	4	23.382	-1.600	0.204	0.000	0.000	0.0	-1.690	0.204	0.000	0.000	0.0
HK40187895.1	HK40187893	14	2000	4	15.119	0.280	0.104	0.000	0.000	0.0	0.200	0.104	0.000	0.000	0.0
HK40187896.1	HK40187895	13	2000	4	14.465	0.350	0.104	0.000	0.000	0.0	0.280	0.104	0.000	0.000	0.0
HK40187897.1	FLAP					0.850	0.000	0.000		0.0	0.850	0.000	0.000		0.0
HK40187898.1	HK40187890	9	2260	4	12.251	-2.412	1.292	-1.077	-0.814	-53.2	-2.500	1.380	-1.168	-0.804	-58.2
HK40187899.1	HK40187898	9	2220	4	4.605	-2.400	1.283	-0.971	-0.747	-46.5	-2.412	1.292	-1.057	-0.797	-50.4
HK40187902.1	BOX08	14	1624	162	4.713	-2.416	1.561	7.674	2.005	90416.6	-2.430	1.536	7.687	2.088	90369.2
HK40187903.1	HK40187902	14	1850	185	5.520	-2.402	1.601	7.652	1.941	90481.1	-2.416	1.576	7.668	2.014	90430.2
HK40187995.1	HK40187899	12	2207	4	6.288	-2.368	1.253	-0.830	-0.663	-39.3	-2.400	1.283	-0.951	-0.731	-43.8
HK40187997.1	HK40187995	32	1988	4	12.805	-1.910	0.800	-0.767	0.941	-35.6	-2.368	1.253	-0.819	-0.639	-36.6
HK40187998.1	HK40187997	14	1086	4	1.992	-1.875	0.763	-0.697	-0.771	-31.7	-1.896	0.786	-0.752	0.824	-34.3
HK40187999.1	HK40187998	13	1295	4	2.809	-1.842	0.737	-0.633	-0.764	-28.1	-1.867	0.755	-0.682	-0.777	-30.4
HK40188701.1	HK40188702	42	2300	230	6.314	-0.020	1.419	5.499	1.568	57460.1	-0.050	1.342	5.448	1.684	57320.6
HK40188702.1	HK40189607	59	2300	4	8.902	-0.050	1.336	5.442	1.506	57307.3	-0.085	1.321	5.341	1.498	57100.3
HK40188798.1	HK40189699	59	1849	4	3.767	0.400	1.086	3.044	1.547	30852.2	0.368	1.036	2.988	1.604	30737.2
HK40188799.1	HK40188798	45	1847	4	4.606	0.436	1.111	3.079	1.532	30949.9	0.400	1.094	3.047	1.538	30858.1

Link Reference	D/S Node	Pipe Len (m)	Pipe Hgt (mm)	Sed Dpth (mm)	P.Full Flow (m3/s)	< Upstream Invert Level (m AD)	Max Depth (m)	Max Flow (m3/s)	Max Vel (m/s)	Total Flow (m3)	< Downstream Invert Level (m AD)	Max Depth (m)	Max Flow (m3/s)	Max Vel (m/s)	> Total Flow (m3)
HK40188802.1	BOX07	15	2300	230	6.085	0.020	1.536	5.628	1.452	57732.3	0.010	1.518	5.600	1.468	57671.9
HK40188898.1	HK40188799	48	1839	4	4.655	0.476	1.136	3.144	1.521	31059.6	0.436	1.120	3.081	1.520	30956.0
HK40188899.1	HK40188898	14	1835	4	3.594	0.483	1.154	3.166	1.501	31097.4	0.476	1.145	3.148	1.508	31065.8
HK40188901.1	HK40188802	110	2300	230	5.959	0.090	1.659	5.794	1.379	58216.5	0.020	1.548	5.636	1.440	57745.7
HK40188902.1	HK40188901	3	2300	230	89.367	0.550	1.233	5.803	2.424	58241.9	0.090	1.673	5.800	1.368	58231.4
HK40188902.2	HK40188999	3	2300	4	11.920	0.550	1.234	3.287	1.511	31392.9	0.540	1.242	3.286	1.498	31385.5
HK40188999.1	HK40188899	115	1843	4	3.604	0.540	1.229	3.282	1.478	31378.6	0.483	1.164	3.170	1.489	31103.7
HK40189601.1	HK41180604	56	2300	4	11.178	-0.170	1.256	7.986	2.352	87094.3	-0.222	1.129	7.950	2.629	86931.1
HK40189602.1	HK40189601	11	2300	4	10.864	-0.160	1.267	5.134	1.498	56644.5	-0.170	1.266	5.118	1.495	56609.1
HK40189603.1	HK40189602	18	2300	4	10.559	-0.145	1.273	5.166	1.502	56713.2	-0.160	1.271	5.140	1.495	56656.8
HK40189604.1	HK40189603	12	2300	4	7.579	-0.140	1.284	5.189	1.497	56762.3	-0.145	1.277	5.173	1.500	56725.5
HK40189605.1	HK40189604	19	2300	4	8.502	-0.130	1.295	5.222	1.494	56834.0	-0.140	1.288	5.196	1.494	56774.8
HK40189606.1	HK40189605	44	2300	4	9.533	-0.100	1.304	5.283	1.503	56990.5	-0.130	1.297	5.228	1.495	56846.6
HK40189607.1	HK40189606	25	2300	4	8.965	-0.085	1.315	5.334	1.502	57087.4	-0.100	1.309	5.288	1.499	57003.3
HK40189694.1	HK40189601	12	1836	4	3.596	0.302	0.833	2.885	1.972	30512.9	0.296	0.800	2.874	2.062	30497.5
HK40189695.1	HK40189694	20	1840	4	3.773	0.313	0.879	2.906	1.865	30544.9	0.302	0.834	2.888	1.974	30517.1
HK40189696.1	HK40189695	13	1841	4	3.819	0.320	0.903	2.919	1.815	30567.7	0.313	0.880	2.909	1.867	30549.4
HK40189697.1	HK40189696	20	1840	4	3.783	0.331	0.937	2.936	1.750	30603.2	0.320	0.904	2.922	1.816	30572.3
HK40189698.1	HK40189697	44	1842	4	3.755	0.355	0.999	2.964	1.654	30682.6	0.331	0.937	2.939	1.752	30608.1
HK40189699.1	HK40189698	24	1846	4	3.754	0.368	1.030	2.985	1.611	30731.7	0.355	1.003	2.967	1.648	30687.9
HK40190601.1	HK40190602	39	2300	4	3.852	-1.154	2.295	4.394	0.839	51495.8	-1.170	2.290	4.393	0.840	51298.4
HK40190602.1	HK40190603	31	2300	115	3.140	-1.170	2.277	4.393	-0.925	51280.2	-1.180	2.267	4.393	0.875	51132.6
HK40190603.1	HK40190604	47	2300	115	4.583	-1.180	2.263	4.393	-0.876	51115.5	-1.213	2.266	4.393	0.875	50888.9
HK40190604.1	HK40191502	40	2300	115	3.589	-1.213	2.261	4.393	0.876	50871.7	-1.230	2.252	4.393	0.879	50682.7
HK40191502.1	C5	42	2300	115	5.679	-1.230	2.240	4.393	0.883	50665.7	-1.275	2.258	4.393	0.878	50466.2
HK40192401.1	HK40193304	52	2300	115	3.869	-1.394	2.093	7.458	1.606	93684.6	-1.420	1.996	7.458	1.831	93454.1
HK40192501.1	HK40192401	46	2300	115	5.951	-1.340	2.148	7.458	1.549	93908.5	-1.394	2.104	7.458	1.602	93700.3
HK40193304.1	BOX03	44	2300	115	12.844	-1.420	1.985	7.458	1.829	93439.3	-1.660	2.142	7.457	1.778	93244.0
HK40193305.1	HK40194399	24	1144	4	1.018	-0.734	0.061	0.000	0.000	0.0	-0.774	0.061	0.000	0.000	0.0
HK40194201.1	HK40195201	38	2300	115	7.644	-2.030	1.942	7.456	1.424	92121.5	-2.067	1.924	7.456	1.442	91930.7
HK40194202.1	HK40194201	57	2300	115	7.331	-1.978	1.978	7.457	1.391	92437.9	-2.030	1.949	7.456	1.418	92140.7
HK40194298.1	HK40195299	38	1362	4	1.362	-1.073	0.072	0.000	0.000	0.0	-1.148	0.072	0.000	0.000	0.0
HK40194299.1	HK40194298	57	1295	4	1.038	-0.961	0.069	0.000	0.000	0.0	-1.036	0.069	0.000	0.000	0.0
HK40194301.1	HK40194202	27	2300	115	2.967	-1.974	2.020	7.457	1.358	92600.2	-1.978	1.986	7.457	1.385	92457.5
HK40194302.1	HK40194301	28	2300	115	10.765	-1.920	2.007	7.457	1.367	92767.8	-1.974	2.027	7.457	1.353	92620.2
HK40194398.1	HK40194299	27	1216	4	1.280	-0.861	0.065	0.000	0.000	0.0	-0.923	0.065	0.000	0.000	0.0
HK40194399.1	HK40194398	27	1158	4	1.085	-0.780	0.062	0.000	0.000	0.0	-0.830	0.062	0.000	0.000	0.0
HK40195102.1	HK40196001	149	2300	115	7.711	-2.160	1.866	7.464	1.494	91599.1	-2.310	1.755	7.538	1.637	90899.7
HK40195198.1	HK40196099	149	1401	4	1.731	-1.291	0.191	-0.052	-0.357	-4.8	-1.382	0.290	-0.269	-0.959	-19.2
HK40195199.1	HK40195198	34	910	4	1.349	-1.221	0.130	-0.020	-0.208	-2.0	-1.259	0.159	-0.050	-0.352	-4.4
HK40195201.1	BOX06	34	1900	95	5.850	-2.067	1.887	7.456	1.457	91911.4	-2.100	1.865	7.458	1.476	91740.9
HK40195299.1	HK40195199	50	1019	4	0.584	-1.184	0.106	-0.001	-0.028	-0.1	-1.221	0.130	-0.016	-0.326	-1.7
HK40196001.1	HK40187903	93	2300	115	7.654	-2.310	1.748	7.541	1.644	90883.1	-2.402	1.640	7.646	1.843	90495.8
HK40196099.1	HK40187999	93	1553	4	5.300	-1.405	0.313	-0.280	-0.928	-19.5	-1.814	0.709	-0.619	-0.803	-27.0
HK41180602.1	HK41180601	16	2300	4	29.658	-0.340	0.919	7.947	3.310	86771.8	-0.440	0.919	7.946	3.310	86737.1
HK41180603.1	HK41180602	3	2300	4	-13.861	-0.344	1.081	7.949	2.751	86788.0	-0.340	1.064	7.949	2.800	86780.3
HK41180604.1	HK41180603	46	2300	4	18.186	-0.232	1.138	7.948	2.605	86920.2	-0.344	1.083	7.950	2.748	86798.2
KEI YIP ST STORM DRAIN.1	DWFI CS4A-1	28	1350	4	3.028	0.520	0.071	0.000	0.000	0.0	0.400	0.071	0.000	0.000	0.0
KF06G540.1	KF06G541	11	225	4	0.040	3.255	0.026	0.000	0.000	0.0	3.141	0.026	0.000	0.000	0.0
KF06G541.1	KF06G542	30	225	4	0.040	3.141	0.026	0.000	0.000	0.0	2.835	0.026	0.000	0.000	0.0
KF06G542.1	KF06G543	4	225	4	0.037	2.835	0.024	0.000	0.000	0.0	2.800	0.024	0.000	0.000	0.0
KF06G543.1	KF06G544	7	225	4	0.082	2.800	0.026	0.000	0.000	0.0	2.499	0.026	0.000	0.000	0.0
KF06G544.1	KF06G545	6	225	4	0.049	2.499	0.026	0.000	0.000	0.0	2.405	0.026	0.000	0.000	0.0

Link Reference	D/S Node	Pipe Len (m)	Pipe Hgt (mm)	Sed Dpth (mm)	P.Full Flow (m3/s)	Upstream < Invert Level (m AD)	Max Depth (m)	Max Flow (m3/s)	Max Vel (m/s)	Total Flow > (m3)	Downstream < Invert Level (m AD)	Max Depth (m)	Max Flow (m3/s)	Max Vel (m/s)	Total Flow > (m3)
KF06G545.1	BOX07	1	200	4	0.027	2.312	0.024	0.000	0.000	0.0	2.303	0.024	0.000	0.000	0.0
KF06G547.1	KF06G548	14	225	4	0.018	3.118	0.024	0.000	0.000	0.0	3.090	0.024	0.000	0.000	0.0
KF06G548.1	KF06G542	16	225	4	0.029	3.090	0.024	0.000	0.000	0.0	3.001	0.024	0.000	0.000	0.0
KF06G549.1	KF06G548	11	225	4	0.036	3.266	0.024	0.000	0.000	0.0	3.172	0.024	0.000	0.000	0.0
KF0702CN4.1	BOX04	22	1400	70	7.338	-1.790	2.082	7.457	1.520	93142.5+	-1.890	2.078	7.457	1.523	93036.3+
KT_PS.1	HK40188902					-1.950	0.828	2.300		30079.6	-1.950	3.735	2.300		30079.6
KT_PS.3	HK40188902					-1.800	0.678	2.300		29311.8	-1.800	3.585	2.300		29311.8
KT_PS.4	HK40188902					-1.650	0.528	2.300		23824.6	-1.650	3.435	2.300		23824.6
KT_PS.5	HK40188902					-1.500	0.378	2.300		6642.1	-1.500	3.285	2.300		6642.1
KT_PS.6	HK40187891					0.600	0.000	0.000		0.0	0.600	0.000	0.000		0.0
STW01.1	STW	18	1575	4	0.000	0.000	0.083	0.000	0.000	0.0	0.000	0.083	0.000	0.000	0.0
T1.1	HK39211404	12	707	4	15.085	0.220	1.776	1.475	1.351	20357.3x	-0.720	2.699	1.475	0.711	20335.2x
T2.1	HK39198701	17	2300	4	3.311	-1.075	2.338	4.394	0.829	52382.5+	-1.080	2.334	4.394	0.830	52298.1+
T3.1	DWFI	42	2300	4	4.640	-0.525	2.121	3.290	0.764	39912.6	-0.550	2.132	3.290	0.740	39712.2

+ after total flow indicates a conduit surcharged by flow and depth at that end.
x after total flow indicates a conduit surcharged by depth only at that end.

NOTE :
(i) Maximum elevations, depths, volumes, velocities and discharges are selected from the values at each time increment and will be in general more extreme than the maximum values in the time varying results.
(ii) Maximum elevations, velocities and discharges are not necessarily calculated at the same time.
(iii) Maximum velocity is not calculated for a conduit unless the depth exceeds the base flow depth (by default, this is 5% of height for slopes <= 0.01, 10% otherwise, subject to a minimum of 0.02 m).

End of run 0 mins (elapsed) Produced on 23/05/2008 Last page

Start of run configured for MS Windows Produced on 23/05/2008 at 20:14

Trunk Ultimate PWWF

HydroWorks(tm) SIM

Summary results from Simulation

Version 6.1.807 dated June 2006

Licence Number - WS01550002PM

Message 253: Run finished for event 1.

Summary results for event 1 - DWF
Started at 00000000000000. Run for 240.00 min. (Requested simulation time 240.00 min)

Files used:
Network: ...\NET29#3.spb Ultimate - ADWF_update#1 (Revision 3)
State:
Runoff: ...\NET29#3.rpf Ultimate - ADWF_update#1 (Revision 3) (InfoWorks 7.51.13014)
Rainfall:
DWF:
Inflows: ...\SIM160event.qin 1
Levels:
RTC:
Results: ...\SIM160.iwr

Total rainfall = 0.0 m3
Total runoff = 0.0 m3
Total inflow = 134042.0 m3
Total outflow = 106000.8 m3
Total lost = 0.0 m3

********** Node data **********

Node Reference	Ground Level (m AD)	Max Level (m AD)	Flood Volume (m3)	Flood Depth (m)	Flood Area (m2)	Max Stored (m3)	Inflow (m3)	Vol Balance (m3)	Vol Balance (%)
BOX02	4.250	2.229	0.0	0.000	0.0	28.4	0.0	0.000	0.000
BOX03	3.870	1.082	0.0	0.000	0.0	23.0	0.0	0.000	0.000
BOX04	3.800	0.663	0.0	0.000	0.0	28.3	0.0	0.000	0.000
BOX05	3.800	0.609	0.0	0.000	0.0	27.8	0.0	0.000	0.000
BOX06	4.090	0.085	0.0	0.000	0.0	24.3	0.0	0.000	0.000
BOX07	4.100	1.674	0.0	0.000	0.0	18.5	0.0	0.000	0.000
BOX08	4.000	-0.727	0.0	0.000	0.0	29.1	0.0	0.000	0.000
C1	6.050	4.289	0.0	0.000	0.0	13.0	28494.0	0.000	0.000
C2	5.030	3.773	0.0	0.000	0.0	30.8	26237.9	0.000	0.000
C3	4.910	3.319	0.0	0.000	0.0	30.3	5319.8	0.000	0.000
C4	5.000	2.658	0.0	0.000	0.0	30.0	2310.1	0.000	0.000
C5	4.150	1.855	0.0	0.000	0.0	26.3	49300.7	0.000	0.000
DWFI	4.800	3.050	0.0	0.000	0.0	30.2	7137.0	0.000	0.000
DWFI CS4A-1	3.720	0.471	0.0	0.000	0.0	0.2	0.0	0.000	0.000
DWFI CS4A-2	3.720	0.450	0.0	0.000	0.0	0.0	0.0	0.000	0.000
DWFI CS4A-3	3.720	-0.466	0.0	0.000	0.0	0.1	0.0	0.000	0.000
FLAP	4.000	0.658	0.0	0.000	0.0	1.5	0.0	0.000	0.000
HK38218701	5.470	4.289	0.0	0.000	0.0	5.1	0.0	0.000	0.000
HK38219701	6.060	4.289	0.0	0.000	0.0	5.8	0.0	0.000	0.000
HK38219702	5.752	4.289	0.0	0.000	0.0	7.1	0.0	0.000	0.000
HK39194801	5.950	2.906	0.0	0.000	0.0	30.4	0.0	0.000	0.000
HK39195701	5.400	2.750	0.0	0.000	0.0	30.2	0.0	0.000	0.000
HK39195801	5.750	2.799	0.0	0.000	0.0	30.4	0.0	0.000	0.000
HK39195802	5.850	2.853	0.0	0.000	0.0	30.4	0.0	0.000	0.000
HK39196701	4.990	2.602	0.0	0.000	0.0	29.7	0.0	0.000	0.000
HK39196703	5.000	2.714	0.0	0.000	0.0	30.1	0.0	0.000	0.000
HK39197701	4.500	2.558	0.0	0.000	0.0	29.6	0.0	0.000	0.000
HK39197702	4.390	2.506	0.0	0.000	0.0	29.9	0.0	0.000	0.000
HK39198701	4.250	2.398	0.0	0.000	0.0	29.2	0.0	0.000	0.000
HK39198703	4.400	2.454	0.0	0.000	0.0	29.6	0.0	0.000	0.000
HK39199701	4.290	2.259	0.0	0.000	0.0	28.6	0.0	0.000	0.000
HK39199702	4.300	2.340	0.0	0.000	0.0	28.9	0.0	0.000	0.000
HK39202202	4.400	3.156	0.0	0.000	0.0	30.4	0.0	0.000	0.000
HK39202203	4.150	3.163	0.0	0.000	0.0	30.4	0.0	0.000	0.000
HK39202307	4.300	3.195	0.0	0.000	0.0	30.4	0.0	0.000	0.000
HK39202312	4.500	3.213	0.0	0.000	0.0	30.3	0.0	0.000	0.000
HK39202314	4.387	3.182	0.0	0.000	0.0	22.7	0.0	0.000	0.000
HK39202403	4.700	3.234	0.0	0.000	0.0	30.2	0.0	0.000	0.000
HK39202505	4.900	3.260	0.0	0.000	0.0	30.1	0.0	0.000	0.000

HK39202507	4.910	3.339	0.0	0.000	0.0	30.5	0.0	0.000	0.000
HK39202601	4.900	3.355	0.0	0.000	0.0	30.5	0.0	0.000	0.000
HK39202602	5.100	3.401	0.0	0.000	0.0	30.6	0.0	0.000	0.000
HK39202702	5.150	3.426	0.0	0.000	0.0	30.7	0.0	0.000	0.000
HK39202703	5.200	3.443	0.0	0.000	0.0	30.7	0.0	0.000	0.000
HK39202704	4.780	3.468	0.0	0.000	0.0	30.7	0.0	0.000	0.000
HK39202801	5.200	3.495	0.0	0.000	0.0	30.8	0.0	0.000	0.000
HK39202802	4.990	3.510	0.0	0.000	0.0	30.7	0.0	0.000	0.000
HK39202803	5.350	3.521	0.0	0.000	0.0	30.7	0.0	0.000	0.000
HK39202901	4.750	3.536	0.0	0.000	0.0	30.5	0.0	0.000	0.000
HK39202902	4.850	3.546	0.0	0.000	0.0	30.5	0.0	0.000	0.000
HK39202903	4.850	3.560	0.0	0.000	0.0	30.7	0.0	0.000	0.000
HK39203002	4.900	2.964	0.0	0.000	0.0	29.9	0.0	0.000	0.000
HK39203103	5.300	3.113	0.0	0.000	0.0	30.4	0.0	0.000	0.000

Node Reference	Ground Level (m AD)	Max Level (m AD)	Flood Volume (m3)	Flood Depth (m)	Flood Area (m2)	Max Stored (m3)	Inflow (m3)	Vol Balance (m3)	Vol Balance (%)
HK39203104	5.000	3.122	0.0	0.000	0.0	30.4	0.0	0.000	0.000
HK39203201	4.200	3.137	0.0	0.000	0.0	30.4	0.0	0.000	0.000
HK39210705	6.270	4.289	0.0	0.000	0.0	6.1	0.0	0.000	0.000
HK39210707	6.020	4.232	0.0	0.000	0.0	13.9	0.0	0.000	0.000
HK39210708	5.640	4.196	0.0	0.000	0.0	3.2	0.0	0.000	0.000
HK39211401	5.130	3.787	0.0	0.000	0.0	34.4	0.0	0.000	0.000
HK39211403	4.240	4.007	0.0	0.000	0.0	19.3	0.0	0.000	0.000
HK39211404	4.900	3.870	0.0	0.000	0.0	43.1	0.0	0.000	0.000
HK39211405	5.070	3.810	0.0	0.000	0.0	43.0	0.0	0.000	0.000
HK39211499	4.070	3.989	0.0	0.000	0.0	19.6	0.0	0.000	0.000
HK39211501	4.480	4.030	0.0	0.000	0.0	19.0	0.0	0.000	0.000
HK39211502	4.320	4.081	0.0	0.000	0.0	18.5	0.0	0.000	0.000
HK39211601	5.430	4.148	0.0	0.000	0.0	17.4	0.0	0.000	0.000
HK39211602	5.470	4.109	0.0	0.000	0.0	17.8	0.0	0.000	0.000
HK39211706	5.790	4.196	0.0	0.000	0.0	15.0	0.0	0.000	0.000
HK39212001	4.850	3.568	0.0	0.000	0.0	30.5	0.0	0.000	0.000
HK39212002	4.850	3.578	0.0	0.000	0.0	30.5	0.0	0.000	0.000
HK39212003	5.150	3.594	0.0	0.000	0.0	30.4	0.0	0.000	0.000
HK39212004	4.950	3.614	0.0	0.000	0.0	30.5	0.0	0.000	0.000
HK39212005	4.950	3.631	0.0	0.000	0.0	30.6	0.0	0.000	0.000
HK39212101	5.000	3.651	0.0	0.000	0.0	64.8	0.0	0.000	0.000
HK39212108	4.950	3.638	0.0	0.000	0.0	64.9	0.0	0.000	0.000
HK39212201	5.550	3.672	0.0	0.000	0.0	30.4	0.0	0.000	0.000
HK39212202	5.330	3.692	0.0	0.000	0.0	30.3	0.0	0.000	0.000
HK39212301	5.150	3.703	0.0	0.000	0.0	78.0	0.0	0.000	0.000
HK39212302	5.150	3.734	0.0	0.000	0.0	78.4	0.0	0.000	0.000
HK39212303	5.150	3.743	0.0	0.000	0.0	30.4	0.0	0.000	0.000
HK39212304	5.150	3.763	0.0	0.000	0.0	30.7	0.0	0.000	0.000
HK39212402	5.100	3.779	0.0	0.000	0.0	30.7	0.0	0.000	0.000
HK39212404	5.100	3.784	0.0	0.000	0.0	30.7	0.0	0.000	0.000
HK40187802	3.750	-0.937	0.0	0.000	0.0	17.2	0.0	0.000	0.000
HK40187803	3.750	-0.871	0.0	0.000	0.0	17.9	0.0	0.000	0.000
HK40187804	3.750	-0.795	0.0	0.000	0.0	28.7	0.0	0.000	0.000
HK40187890	3.850	-1.040	0.0	0.000	0.0	5.4	0.0	0.000	0.000
HK40187891	3.850	0.600	0.0	0.000	0.0	0.0	0.0	0.000	0.000
HK40187892	3.800	0.604	0.0	0.000	0.0	1.5	0.0	0.000	0.000
HK40187893	3.800	-1.396	0.0	0.000	0.0	1.5	0.0	0.000	0.000
HK40187895	3.750	0.384	0.0	0.000	0.0	0.8	0.0	0.000	0.000
HK40187896	3.750	0.454	0.0	0.000	0.0	0.8	0.0	0.000	0.000
HK40187897	3.800	0.600	0.0	0.000	0.0	0.1	0.0	0.000	0.000
HK40187898	3.800	-1.040	0.0	0.000	0.0	5.1	0.0	0.000	0.000

HK40187899	3.800	-1.040	0.0	0.000	0.0	5.0	0.0	0.000	0.000
HK40187902	3.800	-0.637	0.0	0.000	0.0	19.7	0.0	0.000	0.000
HK40187903	3.800	-0.523	0.0	0.000	0.0	20.9	0.0	0.000	0.000
HK40187995	3.800	-1.039	0.0	0.000	0.0	4.9	0.0	0.000	0.000
HK40187997	3.800	-1.039	0.0	0.000	0.0	3.2	0.0	0.000	0.000
HK40187998	3.800	-1.038	0.0	0.000	0.0	3.1	0.0	0.000	0.000
HK40187999	3.800	-1.037	0.0	0.000	0.0	3.0	0.0	0.000	0.000
HK40188701	4.300	1.567	0.0	0.000	0.0	17.6	0.0	0.000	0.000
HK40188702	4.200	1.461	0.0	0.000	0.0	16.8	0.0	0.000	0.000
HK40188798	4.200	1.623	0.0	0.000	0.0	7.3	0.0	0.000	0.000
HK40188799	4.300	1.687	0.0	0.000	0.0	7.5	0.0	0.000	0.000
HK40188802	4.100	1.715	0.0	0.000	0.0	18.8	0.0	0.000	0.000

Node Reference	Ground Level (m AD)	Max Level (m AD)	Flood Volume (m3)	Flood Depth (m)	Flood Area (m2)	Max Stored (m3)	Inflow (m3)	Vol Balance (m3)	Vol Balance (%)
HK40188898	4.100	1.751	0.0	0.000	0.0	7.7	0.0	0.000	0.000
HK40188899	4.100	1.780	0.0	0.000	0.0	7.8	0.0	0.000	0.000
HK40188901	3.900	1.887	0.0	0.000	0.0	19.9	0.0	0.000	0.000
HK40188902	3.900	1.906	0.0	0.000	0.0	271.1	0.0	0.000	0.000
HK40188999	3.900	1.902	0.0	0.000	0.0	8.2	0.0	0.000	0.000
HK40189601	4.460	1.226	0.0	0.000	0.0	15.5	0.0	0.000	0.000
HK40189602	3.740	1.246	0.0	0.000	0.0	15.6	0.0	0.000	0.000
HK40189603	3.740	1.274	0.0	0.000	0.0	15.7	0.0	0.000	0.000
HK40189604	3.740	1.295	0.0	0.000	0.0	15.9	0.0	0.000	0.000
HK40189605	3.740	1.316	0.0	0.000	0.0	16.1	0.0	0.000	0.000
HK40189606	4.150	1.367	0.0	0.000	0.0	16.3	0.0	0.000	0.000
HK40189607	4.150	1.400	0.0	0.000	0.0	16.5	0.0	0.000	0.000
HK40189694	3.740	1.264	0.0	0.000	0.0	5.8	0.0	0.000	0.000
HK40189695	3.740	1.320	0.0	0.000	0.0	6.0	0.0	0.000	0.000
HK40189696	3.740	1.355	0.0	0.000	0.0	6.2	0.0	0.000	0.000
HK40189697	3.740	1.398	0.0	0.000	0.0	6.4	0.0	0.000	0.000
HK40189698	4.150	1.485	0.0	0.000	0.0	6.8	0.0	0.000	0.000
HK40189699	4.150	1.533	0.0	0.000	0.0	7.0	0.0	0.000	0.000
HK40190601	4.150	2.199	0.0	0.000	0.0	28.2	0.0	0.000	0.000
HK40190602	4.150	2.129	0.0	0.000	0.0	27.7	0.0	0.000	0.000
HK40190603	4.150	2.060	0.0	0.000	0.0	27.2	0.0	0.000	0.000
HK40190604	4.150	1.994	0.0	0.000	0.0	26.9	0.0	0.000	0.000
HK40191502	4.290	1.938	0.0	0.000	0.0	26.6	0.0	0.000	0.000
HK40192401	4.150	1.414	0.0	0.000	0.0	23.6	0.0	0.000	0.000
HK40192501	4.290	1.580	0.0	0.000	0.0	24.5	0.0	0.000	0.000
HK40193304	4.150	1.228	0.0	0.000	0.0	22.2	0.0	0.000	0.000
HK40193305	3.800	-0.673	0.0	0.000	0.0	0.1	0.0	0.000	0.000
HK40194201	3.800	0.318	0.0	0.000	0.0	26.1	0.0	0.000	0.000
HK40194202	3.800	0.417	0.0	0.000	0.0	26.6	0.0	0.000	0.000
HK40194298	3.800	-0.976	0.0	0.000	0.0	0.2	0.0	0.000	0.000
HK40194299	3.800	-0.892	0.0	0.000	0.0	0.1	0.0	0.000	0.000
HK40194301	3.800	0.473	0.0	0.000	0.0	27.2	0.0	0.000	0.000
HK40194302	3.760	0.556	0.0	0.000	0.0	27.5	0.0	0.000	0.000
HK40194398	3.800	-0.796	0.0	0.000	0.0	0.1	0.0	0.000	0.000
HK40194399	3.760	-0.718	0.0	0.000	0.0	0.1	0.0	0.000	0.000
HK40195102	3.900	-0.002	0.0	0.000	0.0	24.0	0.0	0.000	0.000
HK40195198	3.900	-1.014	0.0	0.000	0.0	1.0	0.0	0.000	0.000
HK40195199	3.800	-1.008	0.0	0.000	0.0	0.8	0.0	0.000	0.000
HK40195201	3.800	0.249	0.0	0.000	0.0	25.7	0.0	0.000	0.000
HK40195299	3.800	-0.988	0.0	0.000	0.0	0.4	0.0	0.000	0.000
HK40196001	3.840	-0.295	0.0	0.000	0.0	22.4	0.0	0.000	0.000

HK40196099	3.840	-1.035	0.0	0.000	0.0	1.4	0.0	0.000	0.000
HK41180602	4.200	0.667	0.0	0.000	0.0	11.2	0.0	0.000	0.000
HK41180603	4.200	0.834	0.0	0.000	0.0	13.1	0.0	0.000	0.000
HK41180604	4.018	1.020	0.0	0.000	0.0	13.9	0.0	0.000	0.000
KEI YIP ST STORM DRAIN	4.100	0.591	0.0	0.000	0.0	0.2	0.0	0.000	0.000
KF06G540	4.310	3.281	0.0	0.000	0.0	0.0	0.0	0.000	0.000
KF06G541	4.110	3.167	0.0	0.000	0.0	0.0	0.0	0.000	0.000
KF06G542	4.040	2.859	0.0	0.000	0.0	0.0	0.0	0.000	0.000
KF06G543	4.060	2.824	0.0	0.000	0.0	0.0	0.0	0.000	0.000
KF06G544	4.090	2.525	0.0	0.000	0.0	0.0	0.0	0.000	0.000
KF06G545	4.170	2.336	0.0	0.000	0.0	0.0	0.0	0.000	0.000
KF06G547	4.100	3.142	0.0	0.000	0.0	0.0	0.0	0.000	0.000

Node Reference	Ground Level (m AD)	Max Level (m AD)	Flood Volume (m3)	Flood Depth (m)	Flood Area (m2)	Max Stored (m3)	Inflow (m3)	Vol Balance (m3)	Vol Balance (%)
KF06G548	4.450	3.114	0.0	0.000	0.0	0.0	0.0	0.000	0.000
KF06G549	4.180	3.290	0.0	0.000	0.0	0.0	0.0	0.000	0.000
KF0702CN4	3.860	0.860	0.0	0.000	0.0	29.4	0.0	0.000	0.000
KT_PS	3.740	-1.040	0.0	0.000	0.0	594.5	0.0	0.006	0.000
STW01	4.300	0.083	0.0	0.000	0.0	0.4	0.0	0.000	0.000
T1	4.070	3.970	0.0	0.000	0.0	35.2	5386.1	0.000	0.000
T2	4.300	2.424	0.0	0.000	0.0	29.4	8067.1	0.000	0.000
T3	5.000	3.096	0.0	0.000	0.0	30.4	1733.1	0.000	0.000

A %% indicates water lost from the system.

********** Link data **********

Link Reference	D/S Node	Pipe Len (m)	Pipe Hgt (mm)	Sed Dpth (mm)	P.Full Flow (m3/s)	Upstream < Invert Level (m AD)	Upstream Max Depth (m)	Upstream Max Flow (m3/s)	Upstream Max Vel (m/s)	Upstream > Total Flow (m3)	Downstream < Invert Level (m AD)	Downstream Max Depth (m)	Downstream Max Flow (m3/s)	Downstream Max Vel (m/s)	Downstream > Total Flow (m3)
BOX02.1	HK40190601	19	2300	4	3.689	-1.147	3.365	5.844	0.862	67243.6+	-1.154	3.354	5.843	0.864	67119.6+
BOX03.1	KF0702CN4	16	1400	70	7.970	-1.660	2.707	9.281	1.872	113789.3+	-1.790	2.654	9.280	1.897	113713.1+
BOX04.1	BOX05	13	2300	115	6.648	-1.890	2.520	9.279	1.377	113532.0+	-1.900	2.510	9.278	1.382	113442.6+
BOX05.1	HK40194302	25	2300	115	6.925	-1.900	2.496	9.278	1.388	113417.3+	-1.920	2.478	9.277	1.397	113254.2+
BOX06.2	HK40195102	21	1800	90	9.310	-2.100	2.161	9.267	1.607	111966.2x	-2.160	2.161	9.266	1.606	111845.8x
BOX07.1	HK40188701	50	2300	230	5.790	0.010	1.650	5.902	1.465	69698.1	-0.020	1.588	5.902	1.559	69500.1
BOX08.1	HK40187804	33	2300	230	11.778	-2.430	1.697	9.246	1.783	110312.0	-2.471	1.677	9.241	1.857	110139.8
C1.1	HK39210707	30	1800	4	8.655	1.790	2.455	1.997	2.774	28228.8x	1.560	2.672	2.011	2.794	28151.9x
C2.1	HK39212304	12	2300	4	-13.669	0.111	3.655	4.207	1.785	58160.0x	0.140	3.624	4.206	1.939	58073.9x
C3.1	HK39202505	58	2300	125	3.931	-0.290	3.591	4.547	1.309	57098.8+	-0.320	3.580	4.544	1.548	56705.0+
C4.1	HK39196701	19	2300	4	6.171	-0.910	3.527	5.294	0.770	61768.6x	-0.930	3.532	5.293	0.759	61637.2x
C5.1	HK40192501	62	2300	115	5.615	-1.275	3.044	9.288	1.548	115023.3+	-1.340	2.923	9.286	1.593	114660.4+
DWFI CS4A-1.1	HK40187893					0.960	0.000	0.000		0.0	0.960	0.000	0.000		0.0
DWFI CS4A-1.2	DWFI CS4A-2	4	400	4	0.000	0.450	0.024	0.000	0.000	0.0	0.450	0.024	0.000	0.000	0.0
DWFI CS4A-2.1	DWFI CS4A-3					0.450	0.000	0.000		0.0	0.450	0.000	0.000		0.0
DWFI CS4A-3.1	HK40187890	8	300	4	0.191	-0.500	0.034	0.000	0.000	0.0	-0.900	0.034	0.000	0.000	0.0
DWFI.1	HK39203002	86	2300	4	4.578	-0.550	3.579	5.148	1.049	62312.5+	-0.600	3.564	5.144	1.013	61711.2+
FLAP.1	HK40187892	5	2000	4	20.490	0.454	0.204	0.000	0.000	0.0	0.400	0.204	0.000	0.000	0.0
HK38218701.1	HK38219702	59	1350	4	2.254	2.820	1.469	-0.001	-0.021	-4.9x	2.680	1.609	-0.025	-0.118	-90.2x
HK38219701.1	HK39210705	34	1300	4	2.140	2.530	1.759	-0.046	-0.119	-158.2x	2.440	1.849	-0.061	-0.124	-204.7x
HK38219702.1	HK38219701	41	1300	4	2.524	2.680	1.609	-0.027	-0.131	-96.9x	2.530	1.759	-0.044	-0.115	-152.6x
HK39194801.1	HK39195802	62	2300	4	5.931	-0.710	3.609	5.142	0.905	61324.4x	-0.770	3.624	5.140	0.844	60889.5x
HK39195701.1	HK39196703	40	2300	4	5.222	-0.840	3.584	5.135	0.774	60109.4x	-0.870	3.584	5.134	0.753	59830.8x
HK39195801.1	HK39195701	36	2300	4	5.019	-0.815	3.593	5.137	0.796	60390.3+	-0.840	3.591	5.136	0.775	60138.5+
HK39195802.1	HK39195801	63	2300	4	5.104	-0.770	3.616	5.140	0.843	60860.1+	-0.815	3.615	5.137	0.796	60419.6+
HK39196701.1	HK39197701	45	2300	4	5.671	-0.930	3.524	5.293	0.760	61608.6x	-0.970	3.529	5.291	0.756	61297.7x
HK39196703.1	C4	45	2300	4	5.664	-0.870	3.562	5.134	0.754	59801.7x	-0.910	3.568	5.132	0.729	59487.5x
HK39197701.1	HK39197702	56	2300	4	7.189	-0.970	3.521	5.291	0.758	61269.0x	-1.050	3.557	5.288	0.749	60880.9x
HK39197702.1	HK39198703	56	2300	4	3.314	-1.050	3.549	5.288	0.751	60852.0+	-1.067	3.522	5.286	0.754	60464.8+
HK39198701.1	HK39199702	49	2300	4	4.283	-1.080	3.469	5.849	0.846	68140.8+	-1.105	3.446	5.847	0.849	67805.6+
HK39198703.1	T2	28	2300	4	3.209	-1.067	3.514	5.286	0.755	60436.3+	-1.075	3.500	5.285	0.757	60243.1+
HK39199701.1	BOX02	20	2300	4	3.532	-1.140	3.390	5.845	0.858	67406.9+	-1.147	3.377	5.844	0.860	67270.9+
HK39199702.1	HK39199701	51	2300	4	4.983	-1.105	3.414	5.847	0.855	67777.7+	-1.140	3.400	5.845	0.856	67434.4+
HK39202202.2	HK39203201	50	2300	4	5.588	-0.460	3.611	4.533	0.980	54724.3x	-0.480	3.618	4.532	0.933	54370.6x
HK39202203.1	HK39202202	5	2300	4	0.000	-0.460	3.618	4.534	0.986	54788.9+	-0.460	3.617	4.534	0.983	54753.6+
HK39202307.1	HK39202314	16	2300	4	23.569	-0.420	3.607	4.537	1.145	55333.3x	-0.533	3.716	4.536	0.973	55219.4x
HK39202312.1	HK39202307	45	2300	4	5.877	-0.400	3.608	4.539	1.219	55682.3x	-0.420	3.616	4.537	1.152	55362.6x
HK39202314.1	HK39202203	53	2300	4	-11.071	-0.543	3.721	4.536	0.955	55197.7x	-0.460	3.624	4.534	0.993	54818.3x
HK39202403.1	HK39202312	59	2300	4	7.288	-0.360	3.589	4.541	1.312	56126.8x	-0.400	3.613	4.539	1.225	55711.6x
HK39202505.1	HK39202403	74	2300	4	6.498	-0.320	3.575	4.544	1.368	56675.9x	-0.360	3.595	4.541	1.317	56156.0x
HK39202507.1	C3	7	2300	125	-4.139	-0.294	3.618	4.174	1.129	51854.9x	-0.290	3.610	4.174	1.144	51807.3x
HK39202601.1	HK39202507	19	2300	125	4.675	-0.280	3.630	4.175	1.124	52014.7x	-0.294	3.633	4.175	1.131	51883.5x
HK39202602.1	HK39202601	70	2300	125	4.148	-0.240	3.637	4.178	1.095	52520.4+	-0.280	3.635	4.175	1.126	52043.3+
HK39202702.1	HK39202602	16	2300	125	5.285	-0.225	3.636	4.179	1.097	52659.4x	-0.240	3.642	4.178	1.097	52549.0x
HK39202703.1	HK39202702	21	2300	125	4.627	-0.210	3.649	4.180	1.094	52832.4x	-0.225	3.651	4.179	1.098	52688.1x
HK39202704.1	HK39202703	32	2300	125	4.328	-0.190	3.653	4.181	1.087	53081.1x	-0.210	3.654	4.180	1.095	52861.1x
HK39202801.1	HK39202704	36	2300	125	4.075	-0.170	3.660	4.183	1.100	53358.5+	-0.190	3.659	4.181	1.093	53109.9+
HK39202802.1	HK39202801	44	2300	4	7.290	-0.140	3.645	4.185	1.130	53703.0x	-0.170	3.665	4.183	1.010	53388.3x
HK39202803.1	HK39202802	27	2300	4	5.378	-0.130	3.646	4.186	1.253	53925.0x	-0.140	3.650	4.185	1.143	53732.7x
HK39202901.1	HK39202803	47	2300	4	7.054	-0.100	3.632	4.188	1.453	54289.8x	-0.130	3.651	4.186	1.273	53954.6x
HK39202902.1	HK39202901	23	2300	4	5.826	-0.090	3.632	4.189	1.490	54482.7x	-0.100	3.637	4.188	1.468	54319.3x
HK39202903.1	HK39202902	42	2300	4	6.096	-0.070	3.626	4.191	1.517	54810.6x	-0.090	3.636	4.189	1.503	54512.3x
HK39203002.1	HK39194801	47	2300	4	9.202	-0.600	3.541	5.144	1.010	61682.2x	-0.710	3.617	5.142	0.907	61353.8x

Link Reference	D/S Node	Pipe Len (m)	Pipe Hgt (mm)	Sed Dpth (mm)	P.Full Flow (m3/s)	< Upstream Invert Level (m AD)	Max Depth (m)	Max Flow (m3/s)	Max Vel (m/s)	Total Flow (m3) >	< Downstream Invert Level (m AD)	Max Depth (m)	Max Flow (m3/s)	Max Vel (m/s)	Total Flow (m3) >
HK39203103.1	T3	21	2300	4	5.083	-0.510	3.618	4.529	0.874	53943.4x	-0.525	3.621	4.528	0.857	53795.5x
HK39203104.1	HK39203103	10	2300	4	8.817	-0.500	3.617	4.530	0.890	54043.9x	-0.510	3.624	4.529	0.876	53972.8x
HK39203201.1	HK39203104	38	2300	4	6.425	-0.480	3.612	4.531	0.930	54341.2x	-0.500	3.622	4.530	0.892	54073.4x
HK39210705.1	C1	31	1300	4	2.799	2.440	1.849	-0.062	-0.126	-210.6x	2.301	1.988	-0.076	-0.113	-252.7x
HK39210707.1	HK39211706	24	1800	4	9.816	1.560	2.648	2.009	2.958	28138.5x	1.320	2.877	2.009	2.797	28076.0x
HK39210708.1	HK39211706	4	375	4	0.173	2.050	2.146	-0.001	-0.019	-3.2x	2.000	2.196	-0.001	-0.018	-3.6x
HK39211401.1	HK39212404	12	2300	4	4.424	0.129	3.656	2.371	0.914	32339.4x	0.126	3.659	2.370	0.873	32254.4x
HK39211403.1	HK39211499	29	1800	4	5.128	0.300	3.702	1.994	1.499	27300.8x	0.220	3.770	1.994	1.222	27222.7x
HK39211404.1	HK39211405	25	707	4	2.152	-0.720	4.581	2.371	1.092	32488.0+	-0.760	4.571	2.371	1.092	32438.9+
HK39211405.1	HK39211401	12	707	4	-14.670	-0.760	4.561	2.371	1.092	32396.3x	0.129	3.659	2.371	-1.619	32373.1x
HK39211499.1	T1					0.220	3.769	1.994		27203.1	0.220	3.750	1.994		27203.1
HK39211501.1	HK39211403	40	1800	4	4.101	0.370	3.655	1.995	1.680	27426.1x	0.300	3.708	1.995	1.542	27319.6x
HK39211502.1	HK39211501	74	1800	4	4.422	0.520	3.542	1.995	1.818	27639.8x	0.370	3.661	1.995	1.697	27444.7x
HK39211601.1	HK39211602	43	1800	4	4.989	0.800	3.328	1.995	1.992	27921.7x	0.690	3.420	1.995	2.012	27810.6x
HK39211602.1	HK39211502	52	1800	4	5.621	0.690	3.413	1.995	2.006	27793.3x	0.520	3.561	1.995	1.824	27657.8x
HK39211706.1	HK39211601	47	1800	4	10.303	1.320	2.853	2.006	2.798	28057.8x	0.800	3.349	1.995	1.999	27938.6x
HK39212001.1	HK39202903	13	2300	4	7.770	-0.060	3.624	4.191	1.539	54931.9x	-0.070	3.631	4.191	1.528	54840.1x
HK39212002.1	HK39212001	22	2300	4	5.956	-0.050	3.624	4.192	1.550	55117.5x	-0.060	3.629	4.191	1.554	54961.4x
HK39212003.1	HK39212002	49	2300	4	5.639	-0.030	3.620	4.194	1.551	55494.9x	-0.050	3.628	4.192	1.565	55146.9x
HK39212004.1	HK39212003	17	2300	4	6.793	-0.020	3.618	4.195	1.565	55644.3x	-0.030	3.624	4.194	1.563	55524.4x
HK39212005.1	HK39212004	4	2300	4	9.787	-0.015	3.630	4.195	1.583	55702.8x	-0.020	3.635	4.195	1.575	55673.8x
HK39212101.1	HK39212108	41	1600	4	6.283	0.010	3.638	4.197	1.047	56133.4x	-0.010	3.649	4.196	0.872	55867.5x
HK39212108.1	HK39212005	10	2300	4	6.231	-0.010	3.644	4.196	1.601	55804.1x	-0.015	3.647	4.196	1.601	55732.4x
HK39212201.1	HK39212101	70	2300	4	6.686	0.050	3.617	4.199	1.740	56692.8x	0.010	3.641	4.197	2.036	56196.8x
HK39212202.1	HK39212201	68	2300	4	6.773	0.090	3.598	4.202	1.693	57203.6x	0.050	3.622	4.200	1.748	56722.3x
HK39212301.1	HK39212202	26	2300	4	7.770	0.110	3.589	4.203	1.703	57415.3x	0.090	3.603	4.202	1.706	57232.9x
HK39212302.1	HK39212301	28	1100	4	3.534	0.120	3.598	4.204	0.977	57632.8+	0.110	3.593	4.204	0.840	57492.0+
HK39212303.1	HK39212302	21	2300	4	6.111	0.130	3.609	4.205	1.999	57857.3x	0.120	3.614	4.204	2.122	57709.9x
HK39212304.1	HK39212303	23	2300	4	5.903	0.140	3.609	4.206	1.926	58044.4x	0.130	3.614	4.205	2.015	57886.6x
HK39212402.1	C2	20	2300	4	5.572	0.119	3.655	2.369	0.832	32095.0x	0.111	3.662	2.369	-0.820	31951.8x
HK39212404.1	HK39212402	14	2300	4	6.240	0.126	3.654	2.370	0.866	32224.6x	0.119	3.660	2.370	0.837	32124.7x
HK40187802.1	KT_PS	7	2300	230	8.332	-2.491	1.496	9.238	2.901	110031.1	-2.500	1.461	9.237	3.084	110007.8
HK40187803.1	HK40187802	7	2300	230	8.638	-2.482	1.579	9.239	2.666	110068.2	-2.491	1.555	9.238	2.790	110044.3
HK40187804.1	HK40187803	9	2300	230	8.149	-2.471	1.642	9.241	2.478	110117.0	-2.482	1.612	9.240	2.602	110082.2
HK40187890.1	KT_PS	5	2300	4	5.657	-2.500	1.460	-1.190	-0.859	-212.0	-2.510	1.470	-1.248	-0.890	-220.2
HK40187891.1	HK40187897					0.600	0.000	0.000		0.0	0.600	0.000	0.000		0.0
HK40187892.1	HK40187896	5	2000	4	19.716	0.400	0.204	0.000	0.000	0.0	0.350	0.204	0.000	0.000	0.0
HK40187893.1	KTIP OVERFLOW	6	2000	4	23.382	-1.600	0.204	0.000	0.000	0.0	-1.690	0.204	0.000	0.000	0.0
HK40187895.1	HK40187893	14	2000	4	15.119	0.280	0.104	0.000	0.000	0.0	0.200	0.104	0.000	0.000	0.0
HK40187896.1	HK40187895	13	2000	4	14.465	0.350	0.104	0.000	0.000	0.0	0.280	0.104	0.000	0.000	0.0
HK40187897.1	FLAP					0.850	0.000	0.000		0.0	0.850	0.000	0.000		0.0
HK40187898.1	HK40187890	9	2260	4	12.251	-2.412	1.372	-1.057	-0.841	-193.1	-2.500	1.460	-1.165	-0.840	-207.2
HK40187899.1	HK40187898	9	2220	4	4.605	-2.400	1.360	-0.930	-0.751	-176.4	-2.412	1.372	-1.033	-0.820	-188.6
HK40187902.1	BOX08	14	1624	162	4.713	-2.416	1.751	9.247	2.127	110396.5+	-2.430	1.705	9.246	2.195	110337.1+
HK40187903.1	HK40187902	14	1850	185	5.520	-2.402	1.813	9.249	2.045	110478.3	-2.416	1.781	9.248	2.107	110413.6
HK40187995.1	HK40187899	12	2207	4	6.288	-2.368	1.329	-0.883	-0.650	-155.7	-2.400	1.360	-0.914	-0.731	-172.0
HK40187997.1	HK40187995	32	1988	4	12.805	-1.910	0.871	-0.831	-0.965	-120.9	-2.368	1.329	-0.872	-0.630	-151.4
HK40187998.1	HK40187997	14	1086	4	1.992	-1.875	0.837	-0.727	-0.845	-106.4	-1.896	0.857	-0.813	-0.899	-118.1
HK40187999.1	HK40187998	13	1295	4	2.809	-1.842	0.805	-0.635	-0.818	-93.4	-1.867	0.829	-0.710	-0.851	-103.7
HK40188701.1	HK40188702	42	2300	230	6.314	-0.020	1.573	5.902	1.562	69486.2	-0.050	1.511	5.902	1.704	69331.0
HK40188702.1	HK40189607	59	2300	4	8.902	-0.050	1.500	5.902	1.502	69315.5	-0.085	1.485	5.902	1.491	69076.8
HK40188798.1	HK40189699	59	1849	4	3.767	0.400	1.211	3.298	1.525	38350.6	0.368	1.165	3.298	1.581	38222.3
HK40188799.1	HK40188798	45	1847	4	4.606	0.436	1.239	3.298	1.527	38458.4	0.400	1.224	3.298	1.526	38357.4

Link Reference	D/S Node	Pipe Len (m)	Pipe Hgt (mm)	Sed Dpth (mm)	P.Full Flow (m3/s)	Upstream < Invert Level (m AD)	Max Depth (m)	Max Flow (m3/s)	Max Vel (m/s)	Total Flow (m3)	Downstream < Invert Level (m AD)	Max Depth (m)	Max Flow (m3/s)	Max Vel (m/s)	Total Flow (m3)
HK40188802.1	BOX07	15	2300	230	6.085	0.020	1.680	5.902	1.440	69775.5	0.010	1.665	5.902	1.458	69712.9
HK40188898.1	HK40188799	48	1839	4	4.655	0.476	1.262	3.298	1.530	38577.8	0.436	1.251	3.298	1.525	38465.4
HK40188899.1	HK40188898	14	1835	4	3.594	0.483	1.284	3.298	1.519	38618.7	0.476	1.276	3.298	1.526	38584.9
HK40188901.1	HK40188802	110	2300	230	5.959	0.090	1.781	5.902	1.381	70270.3	0.020	1.695	5.902	1.433	69790.6
HK40188902.1	HK40188901	3	2300	230	89.367	0.550	1.353	5.902	2.357	70297.7	0.090	1.797	5.902	1.374	70286.5
HK40188902.2	HK40188999	3	2300	4	11.920	0.550	1.354	3.298	1.562	38928.5	0.540	1.362	3.298	1.545	38920.6
HK40188999.1	HK40188899	115	1843	4	3.604	0.540	1.348	3.298	1.512	38913.0	0.483	1.297	3.298	1.515	38625.9
HK40189601.1	HK41180604	56	2300	4	11.178	-0.170	1.374	9.200	2.442	106417.8	-0.222	1.242	9.200	2.728	106226.5
HK40189602.1	HK40189601	11	2300	4	10.864	-0.160	1.397	5.902	1.538	68536.1	-0.170	1.396	5.902	1.540	68494.2
HK40189603.1	HK40189602	18	2300	4	10.559	-0.145	1.409	5.902	1.524	68617.6	-0.160	1.407	5.902	1.527	68550.4
HK40189604.1	HK40189603	12	2300	4	7.579	-0.140	1.426	5.902	1.505	68676.0	-0.145	1.419	5.902	1.513	68632.0
HK40189605.1	HK40189604	19	2300	4	8.502	-0.130	1.444	5.902	1.491	68761.6	-0.140	1.436	5.902	1.496	68690.6
HK40189606.1	HK40189605	44	2300	4	9.533	-0.100	1.457	5.902	1.487	68947.9	-0.130	1.447	5.902	1.489	68776.3
HK40189607.1	HK40189606	25	2300	4	8.965	-0.085	1.475	5.902	1.488	69061.6	-0.100	1.467	5.902	1.482	68962.8
HK40189694.1	HK40189601	12	1836	4	3.596	0.302	0.958	3.298	1.979	37957.4	0.296	0.930	3.298	2.116	37937.8
HK40189695.1	HK40189694	20	1840	4	3.773	0.313	1.001	3.298	1.848	37997.1	0.302	0.962	3.298	1.981	37962.6
HK40189696.1	HK40189695	13	1841	4	3.819	0.320	1.028	3.298	1.800	38024.9	0.313	1.007	3.298	1.847	38002.6
HK40189697.1	HK40189696	20	1840	4	3.783	0.331	1.064	3.298	1.736	38067.6	0.320	1.035	3.298	1.796	38030.5
HK40189698.1	HK40189697	44	1842	4	3.755	0.355	1.120	3.298	1.640	38160.0	0.331	1.067	3.298	1.735	38073.5
HK40189699.1	HK40189698	24	1846	4	3.754	0.368	1.154	3.298	1.592	38215.9	0.355	1.130	3.298	1.629	38166.2
HK40190601.1	HK40190602	39	2300	4	3.852	-1.154	3.322	5.843	0.870	67092.5+	-1.170	3.300	5.841	0.874	66835.4+
HK40190602.1	HK40190603	31	2300	115	3.140	-1.170	3.267	5.841	-1.006	66808.7+	-1.180	3.241	5.840	-0.912	66616.1+
HK40190603.1	HK40190604	47	2300	115	4.583	-1.180	3.230	5.840	-0.922	66590.7+	-1.213	3.208	5.838	0.915	66296.4+
HK40190604.1	HK40191502	40	2300	115	3.589	-1.213	3.198	5.838	0.917	66271.3+	-1.230	3.169	5.836	0.922	66027.1+
HK40191502.1	C5	42	2300	115	5.679	-1.230	3.135	5.836	0.930	66002.4+	-1.275	3.131	5.835	0.929	65747.1+
HK40192401.1	HK40193304	52	2300	115	3.869	-1.394	2.784	9.284	1.662	114356.7+	-1.420	2.650	9.283	1.890	114070.3+
HK40192501.1	HK40192401	46	2300	115	5.951	-1.340	2.895	9.286	1.599	114637.7+	-1.394	2.811	9.285	1.658	114378.4+
HK40193304.1	BOX03	44	2300	115	12.844	-1.420	2.625	9.282	1.889	114049.9x	-1.660	2.745	9.281	1.818	113811.2x
HK40193305.1	HK40194399	24	1144	4	1.018	-0.734	0.061	0.000	0.000	0.0	-0.774	0.061	0.000	0.000	0.0
HK40194201.1	HK40195201	38	2300	115	7.644	-2.030	2.336	9.271	1.469	112444.3+	-2.067	2.317	9.269	1.480	112211.8+
HK40194202.1	HK40194201	57	2300	115	7.331	-1.978	2.383	9.274	1.443	112828.7+	-2.030	2.349	9.271	1.461	112467.9+
HK40194298.1	HK40195299	38	1362	4	1.362	-1.073	0.097	-0.001	0.021	0.0	-1.148	0.160	-0.014	-0.187	0.0
HK40194299.1	HK40194298	57	1295	4	1.038	-0.961	0.069	0.000	0.000	0.0	-1.036	0.069	0.000	0.000	0.0
HK40194301.1	HK40194202	27	2300	115	2.967	-1.974	2.434	9.275	1.416	113025.6+	-1.978	2.396	9.274	1.436	112852.8+
HK40194302.1	HK40194301	28	2300	115	10.765	-1.920	2.434	9.277	1.418	113229.2x	-1.974	2.448	9.275	1.409	113050.3x
HK40194398.1	HK40194299	27	1216	4	1.280	-0.861	0.065	0.000	0.000	0.0	-0.923	0.065	0.000	0.000	0.0
HK40194399.1	HK40194398	27	1158	4	1.085	-0.780	0.062	0.000	0.000	0.0	-0.830	0.062	0.000	0.000	0.0
HK40195102.1	HK40196001	149	2300	115	7.711	-2.160	2.147	9.266	1.594	111823.8	-2.310	2.016	9.257	1.736	110994.0
HK40195198.1	HK40196099	149	1401	4	1.731	-1.291	0.277	-0.099	-0.489	-7.1	-1.382	0.347	-0.293	-1.010	-39.5
HK40195199.1	HK40195198	34	910	4	1.349	-1.221	0.213	-0.054	-0.322	-2.3	-1.259	0.245	-0.096	-0.486	-6.6
HK40195201.1	BOX06	34	1900	95	5.850	-2.067	2.243	9.269	1.548	112188.1+	-2.100	2.187	9.267	1.583	111988.5+
HK40195299.1	HK40195199	50	1019	4	0.584	-1.184	0.196	-0.014	-0.126	-0.1	-1.221	0.213	-0.049	-0.539	-2.0
HK40196001.1	HK40187903	93	2300	115	7.654	-2.310	2.005	9.257	1.747	110974.1	-2.402	1.880	9.249	1.929	110496.6
HK40196099.1	HK40187999	93	1553	4	5.300	-1.405	0.370	-0.302	-0.968	-40.4	-1.814	0.777	-0.619	-0.861	-90.9
HK41180602.1	HK41180601	16	2300	4	29.658	-0.340	1.005	9.200	3.457	106041.7	-0.440	1.005	9.200	3.457	106000.8
HK41180603.1	HK41180602	3	2300	4	-13.861	-0.344	1.173	9.200	2.906	106060.4	-0.340	1.156	9.200	2.955	106051.5
HK41180604.1	HK41180603	46	2300	4	18.186	-0.232	1.240	9.200	2.734	106214.0	-0.344	1.178	9.200	2.893	106072.2
KEI YIP ST STORM DRAIN.1	DWFI CS4A-1	28	1350	4	3.028	0.520	0.071	0.000	0.000	0.0	0.400	0.071	0.000	0.000	0.0
KF06G540.1	KF06G541	11	225	4	0.040	3.255	0.026	0.000	0.000	0.0	3.141	0.026	0.000	0.000	0.0
KF06G541.1	KF06G542	30	225	4	0.040	3.141	0.026	0.000	0.000	0.0	2.835	0.026	0.000	0.000	0.0
KF06G542.1	KF06G543	4	225	4	0.037	2.835	0.024	0.000	0.000	0.0	2.800	0.024	0.000	0.000	0.0
KF06G543.1	KF06G544	7	225	4	0.082	2.800	0.026	0.000	0.000	0.0	2.499	0.026	0.000	0.000	0.0
KF06G544.1	KF06G545	6	225	4	0.049	2.499	0.026	0.000	0.000	0.0	2.405	0.026	0.000	0.000	0.0

Link Reference	D/S Node	Pipe Len (m)	Pipe Hgt (mm)	Sed Dpth (mm)	P.Full Flow (m3/s)	< Upstream Invert Level (m AD)	Max Depth (m)	Max Flow (m3/s)	Max Vel (m/s)	Total Flow (m3) >	< Downstream Invert Level (m AD)	Max Depth (m)	Max Flow (m3/s)	Max Vel (m/s)	Total Flow (m3) >
KF06G545.1	BOX07	1	200	4	0.027	2.312	0.024	0.000	0.000	0.0	2.303	0.024	0.000	0.000	0.0
KF06G547.1	KF06G548	14	225	4	0.018	3.118	0.024	0.000	0.000	0.0	3.090	0.024	0.000	0.000	0.0
KF06G548.1	KF06G542	16	225	4	0.029	3.090	0.024	0.000	0.000	0.0	3.001	0.024	0.000	0.000	0.0
KF06G549.1	KF06G548	11	225	4	0.036	3.266	0.024	0.000	0.000	0.0	3.172	0.024	0.000	0.000	0.0
KF0702CN4.1	BOX04	22	1400	70	7.338	-1.790	2.623	9.280	1.598	113685.2+	-1.890	2.556	9.279	1.629	113558.8+
KT_PS.1	HK40188902					-1.950	0.910	2.300		30705.0	-1.950	3.856	2.300		30705.0
KT_PS.3	HK40188902					-1.800	0.760	2.300		29055.6	-1.800	3.706	2.300		29055.6
KT_PS.4	HK40188902					-1.650	0.610	2.300		28358.3	-1.650	3.556	2.300		28358.3
KT_PS.5	HK40188902					-1.500	0.460	2.300		21354.6	-1.500	3.406	2.300		21354.6
KT_PS.6	HK40187891					0.600	0.000	0.000		0.0	0.600	0.000	0.000		0.0
STW01.1	STW	18	1575	4	0.000	0.000	0.083	0.000	0.000	0.0	0.000	0.083	0.000	0.000	0.0
T1.1	HK39211404	12	707	4	15.085	0.220	3.687	2.371	1.155	32554.0x	-0.720	4.591	2.371	1.092	32530.7x
T2.1	HK39198701	17	2300	4	3.311	-1.075	3.490	5.850	0.843	68281.8+	-1.080	3.479	5.849	0.845	68169.0+
T3.1	DWF1	42	2300	4	4.640	-0.525	3.602	4.650	0.899	55499.2+	-0.550	3.601	4.648	0.871	55204.8+

+ after total flow indicates a conduit surcharged by flow and depth at that end.
x after total flow indicates a conduit surcharged by depth only at that end.

NOTE :
(i) Maximum elevations, depths, volumes, velocities and discharges are selected from the values at each time increment and will be in general more extreme than the maximum values in the time varying results.
(ii) Maximum elevations, velocities and discharges are not necessarily calculated at the same time.
(iii) Maximum velocity is not calculated for a conduit unless the depth exceeds the base flow depth (by default, this is 5% of height for slopes <= 0.01, 10% otherwise, subject to a minimum of 0.02 m).

End of run 0 mins (elapsed) Produced on 23/05/2008 Last page