Appendix E - SWMM RESULTS: ALL MODELS – SEE DVD

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EPA STORM WATER MANAGEMENT MODEL - VERSION 5.0 (Build 5.0.013)
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"City of Brookings, SD: 5-yr 24-hr, Future Conditions with Improvments for the 100-year Storm and Heavily Veget

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Analysis Options
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Flow Units ............... CFS
Infiltration Method ...... CURVE_NUMBER
Flow Routing Method ...... KINWAVE
Starting Date ............ JAN-01-2007 00:00:00
Ending Date .............. JAN-02-2007 01:00:00
Antecedent Dry Days ...... 0.0
Report Time Step ......... 00:05:00
Wet Time Step ............ 00:05:00
Dry Time Step ............ 00:05:00
Routing Time Step ........ 30.00 sec


**************************        Volume         Depth
Runoff Quantity Continuity     acre-feet        inches
**************************     ---------       -------
Total Precipitation ......      2460.894         3.380
Evaporation Loss .........         0.000         0.000
Infiltration Loss ........      1078.008         1.481
Surface Runoff ...........      1241.495         1.705
Final Surface Storage ....       150.155         0.206
Continuity Error (%) .....        -0.356


**************************        Volume        Volume
Flow Routing Continuity        acre-feet      Mgallons
**************************     ---------     ---------
Dry Weather Inflow .......         0.000         0.000
Wet Weather Inflow .......      1240.718       404.307
Groundwater Inflow .......         0.000         0.000
RDII Inflow ..............         0.000         0.000
External Inflow ..........        21.738         7.084
External Outflow .........      1083.969       353.228
Internal Outflow .........        55.475        18.077
Evaporation Loss .........         0.000         0.000
Initial Stored Volume ....         0.000         0.000
Final Stored Volume ......       233.727        76.163
Continuity Error (%) .....        -8.770


*********************************
Highest Flow Instability Indexes
*********************************
Link C42-41 (2)
Link C43A-42 (2)
Link C41A-40 (2)
Link C40-40A (2)
Link C41-41A (2)


*************************
Routing Time Step Summary
*************************
Minimum Time Step           :    30.00 sec
Average Time Step           :    30.00 sec
Maximum Time Step           :    30.00 sec
Percent in Steady State     :     0.00
Average Iterations per Step :     1.04


***************************
Subcatchment Runoff Summary
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Subcatchment	Total Precip in	Total Runon in	Total Evap in	Total Infil in	Total Runoff in	Total Runoff Mgal	Peak Runoff CFS	Runoff Coeff
BAS_1	3.380	0.000	0.000	1.279	1.986	1.364	44.725	0.587
BAS_10	3.380	0.000	0.000	1.170	2.104	2.200	70.269	0.622
BAS_100	3.380	0.000	0.000	1.397	1.878	0.709	14.438	0.556
BAS_101	3.380	0.000	0.000	2.030	1.129	0.545	6.650	0.334
BAS_102	3.380	0.000	0.000	1.509	1.731	1.970	36.228	0.512
BAS_103	3.380	0.000	0.000	1.482	1.796	0.868	20.709	0.531
BAS_104	3.380	0.000	0.000	1.435	1.870	0.498	14.461	0.553
BAS_105	3.380	0.000	0.000	1.332	1.972	0.573	14.194	0.583
BAS_106	3.380	0.000	0.000	2.181	0.965	0.286	1.155	0.286
BAS_107	3.380	0.000	0.000	2.162	0.913	1.847	7.762	0.270
BAS_108	3.380	0.000	0.000	1.966	1.068	4.140	46.756	0.316
BAS_109	3.380	0.000	0.000	2.129	0.838	3.892	27.120	0.248
BAS_11	3.380	0.000	0.000	0.945	2.389	4.781	100.126	0.707
BAS_110	3.380	0.000	0.000	2.019	1.010	4.318	47.005	0.299
BAS_111	3.380	0.000	0.000	2.029	1.053	0.297	3.426	0.312
BAS_112	3.380	0.000	0.000	2.063	0.986	4.004	40.502	0.292
BAS_114	3.380	0.000	0.000	1.899	1.266	6.583	105.694	0.375
BAS_115	3.380	0.000	0.000	2.165	0.968	1.057	3.942	0.286
BAS_116	3.380	0.000	0.000	2.135	1.051	3.726	24.552	0.311
BAS_117	3.380	0.000	0.000	1.962	1.176	0.658	9.334	0.348
BAS_118	3.380	0.000	0.000	1.521	1.595	6.820	90.291	0.472
BAS_119	3.380	0.000	0.000	1.164	2.129	9.234	181.091	0.630
BAS_121	3.380	0.000	0.000	1.308	1.987	0.421	9.036	0.588
BAS_122	3.380	0.000	0.000	1.556	1.707	0.292	6.638	0.505
BAS_124	3.380	0.000	0.000	0.751	2.625	0.677	16.689	0.777
BAS_125	3.380	0.000	0.000	1.783	1.441	0.282	5.784	0.426
BAS_126	3.380	0.000	0.000	2.181	0.603	1.665	6.134	0.178
BAS_13*	3.380	0.000	0.000	0.549	2.786	5.735	177.711	0.824
BAS_14	3.380	0.000	0.000	1.676	1.513	1.010	16.506	0.448
BAS_15	3.380	0.000	0.000	1.343	1.938	5.246	104.792	0.573
BAS_16	3.380	0.000	0.000	1.190	2.096	5.362	103.168	0.620
BAS_18	3.380	0.000	0.000	1.156	2.149	1.027	21.101	0.636
BAS_19	3.380	0.000	0.000	0.883	2.237	0.425	15.165	0.662
BAS_2	3.380	0.000	0.000	0.923	2.350	2.074	56.011	0.695
BAS_20	3.380	0.000	0.000	1.397	1.873	0.763	14.949	0.554
BAS_21	3.380	0.000	0.000	0.763	2.304	2.909	113.783	0.682
BAS_22	3.380	0.000	0.000	2.144	0.979	0.202	1.081	0.290
BAS_23	3.380	0.000	0.000	1.399	1.824	3.760	63.565	0.540
BAS_24	3.380	0.000	0.000	1.417	1.886	0.184	5.159	0.558
BAS_25	3.380	0.000	0.000	0.271	3.153	0.265	9.339	0.933
BAS_26	3.380	0.000	0.000	0.599	2.757	1.700	32.066	0.816
BAS_27	3.380	0.000	0.000	1.908	1.272	0.756	12.544	0.376
BAS_28	3.380	0.000	0.000	1.472	1.810	0.521	12.612	0.535
BAS_29	3.380	0.000	0.000	0.458	2.926	1.240	29.622	0.866
BAS_3	3.380	0.000	0.000	1.900	1.303	1.621	41.778	0.386
BAS_30	3.380	0.000	0.000	0.459	2.957	0.313	10.500	0.875
BAS_31	3.380	0.000	0.000	0.748	2.605	3.120	64.517	0.771
BAS_32	3.380	0.000	0.000	1.709	1.450	2.064	32.134	0.429
BAS_33	3.380	0.000	0.000	0.954	2.382	2.509	53.394	0.705
BAS_34	3.380	0.000	0.000	1.825	1.389	0.158	3.092	0.411
BAS_35	3.380	0.000	0.000	1.469	1.778	2.535	47.359	0.526
BAS_36	3.380	0.000	0.000	1.138	2.168	1.890	38.690	0.642
BAS_37	3.380	0.000	0.000	2.162	0.851	3.914	17.492	0.252
BAS_38	3.380	0.000	0.000	2.146	0.932	0.860	4.702	0.276
BAS_39	3.380	0.000	0.000	2.098	0.959	1.580	13.654	0.284
BAS_4	3.380	0.000	0.000	1.360	1.852	1.398	21.792	0.548
BAS_40	3.380	0.000	0.000	2.071	1.003	0.629	6.274	0.297
BAS_41	3.380	0.000	0.000	2.126	1.005	0.368	2.428	0.297
BAS_42	3.380	0.000	0.000	2.123	1.036	0.326	2.164	0.307
BAS_43	3.380	0.000	0.000	1.975	1.061	2.155	24.408	0.314
BAS_44	3.380	0.000	0.000	1.533	1.661	3.410	56.489	0.492
BAS_45	3.380	0.000	0.000	1.733	1.453	1.658	27.651	0.430
BAS_46	3.380	0.000	0.000	1.537	1.674	5.985	103.511	0.495
BAS_47	3.380	0.000	0.000	1.359	1.877	4.230	73.346	0.555
BAS_48	3.380	0.000	0.000	1.187	2.082	8.833	156.014	0.616
BAS_49	3.380	0.000	0.000	0.587	2.786	2.337	49.951	0.824
BAS_5	3.380	0.000	0.000	1.159	2.075	1.460	39.382	0.614

BAS_50	3.380	0.000	0.000	0.449	2.893	6.237	184.031	0.856
BAS_51	3.380	0.000	0.000	0.822	2.467	16.047	227.399	0.730
BAS_52	3.380	0.000	0.000	1.264	2.018	0.745	14.679	0.597
BAS_53	3.380	0.000	0.000	1.367	1.883	3.815	70.285	0.557
BAS_54	3.380	0.000	0.000	1.208	2.095	2.617	54.316	0.620
BAS_55	3.380	0.000	0.000	0.971	2.377	0.420	9.822	0.703
BAS_56	3.380	0.000	0.000	0.931	2.416	0.820	18.114	0.715
BAS_57	3.380	0.000	0.000	1.530	1.728	0.324	6.914	0.511
BAS_58	3.380	0.000	0.000	2.105	0.967	1.082	8.884	0.286
BAS_59	3.380	0.000	0.000	2.119	0.987	0.917	6.639	0.292
BAS_6	3.380	0.000	0.000	1.372	1.888	0.584	20.653	0.558
BAS_60	3.380	0.000	0.000	1.977	1.205	0.046	0.671	0.357
BAS_61	3.380	0.000	0.000	2.136	1.018	0.055	0.316	0.301
BAS_62	3.380	0.000	0.000	2.137	1.000	0.125	0.727	0.296
BAS_63	3.380	0.000	0.000	1.929	1.173	1.280	17.050	0.347
BAS_64	3.380	0.000	0.000	1.909	1.270	0.569	9.413	0.376
BAS_65	3.380	0.000	0.000	1.688	1.361	20.973	265.912	0.403
BAS_66	3.380	0.000	0.000	1.856	1.379	0.202	3.969	0.408
BAS_67	3.380	0.000	0.000	1.509	1.750	2.319	48.769	0.518
BAS_68	3.380	0.000	0.000	1.060	2.243	3.929	75.391	0.664
BAS_69	3.380	0.000	0.000	0.904	2.419	9.289	176.962	0.716
BAS_7	3.380	0.000	0.000	1.134	2.158	1.594	57.186	0.638
BAS_70	3.380	0.000	0.000	1.411	1.644	15.999	218.624	0.486
BAS_71**	3.380	0.000	0.000	1.467	1.668	7.464	122.339	0.494
BAS_72**	3.380	0.000	0.000	1.490	1.642	4.084	66.511	0.486
BAS_73	3.380	0.000	0.000	1.235	1.942	6.925	86.905	0.575
BAS_74	3.380	0.000	0.000	1.789	1.280	5.208	70.649	0.379
BAS_75	3.380	0.000	0.000	0.786	2.573	0.636	13.936	0.761
BAS_76	3.380	0.000	0.000	1.817	1.433	0.272	5.706	0.424
BAS_77	3.380	0.000	0.000	2.033	1.107	1.256	15.044	0.327
BAS_78	3.380	0.000	0.000	1.771	1.385	4.207	62.856	0.410
BAS_79	3.380	0.000	0.000	0.845	2.502	3.987	84.553	0.740
BAS_8	3.380	0.000	0.000	0.409	2.949	5.909	200.700	0.872
BAS_80	3.380	0.000	0.000	1.869	1.244	0.891	12.056	0.368
BAS_81	3.380	0.000	0.000	1.060	2.241	4.217	79.910	0.663
BAS_82	3.380	0.000	0.000	0.650	2.743	0.484	13.573	0.812
BAS_83	3.380	0.000	0.000	2.056	1.079	1.190	12.945	0.319
BAS_84	3.380	0.000	0.000	0.271	3.093	0.798	17.424	0.915
BAS_85	3.380	0.000	0.000	1.649	1.520	0.487	7.777	0.450
BAS_86	3.380	0.000	0.000	0.954	2.386	3.641	78.943	0.706
BAS_87	3.380	0.000	0.000	0.781	2.591	1.421	34.874	0.767
BAS_88	3.380	0.000	0.000	1.909	1.236	1.887	28.529	0.366
BAS_89	3.380	0.000	0.000	1.909	1.260	1.960	31.666	0.373
BAS_9	3.380	0.000	0.000	1.306	1.893	3.598	92.940	0.560
BAS_90	3.380	0.000	0.000	1.909	1.266	0.560	9.178	0.374
BAS_91	3.380	0.000	0.000	1.398	1.907	0.243	6.708	0.564
BAS_92	3.380	0.000	0.000	1.442	1.859	0.464	13.087	0.550
BAS_93	3.380	0.000	0.000	1.994	1.159	1.096	14.973	0.343
BAS_94	3.380	0.000	0.000	1.814	1.412	0.748	15.276	0.418
BAS_95	3.380	0.000	0.000	1.931	1.249	0.855	13.781	0.370
BAS_96	3.380	0.000	0.000	2.181	0.957	0.743	2.735	0.283
BAS_97	3.380	0.000	0.000	2.181	0.969	0.437	1.836	0.287
BAS_98	3.380	0.000	0.000	2.193	1.004	0.038	0.292	0.297
BAS_99	3.380	0.000	0.000	1.693	1.574	0.180	4.440	0.466
BAS_S17	3.380	0.000	0.000	0.644	2.738	1.836	42.966	0.810
BAS_S17E	3.380	0.000	0.000	0.911	2.416	0.689	13.540	0.715
BAS_S17W	3.380	0.000	0.000	0.912	2.428	1.615	34.134	0.718
BAS_120	3.380	0.000	0.000	0.458	2.933	1.378	32.648	0.868
BAS_12	3.380	0.000	0.000	1.384	1.840	11.943	201.180	0.544
BAS_146	3.380	0.000	0.000	1.435	1.861	0.687	18.248	0.551
BAS_153	3.380	0.000	0.000	1.435	1.857	1.134	28.737	0.549
BAS_147	3.380	0.000	0.000	1.660	1.590	1.105	25.195	0.470
BAS_148	3.380	0.000	0.000	1.323	1.944	4.834	92.619	0.575
BAS_129	3.380	0.000	0.000	1.434	1.819	2.035	38.512	0.538
BAS_128	3.380	0.000	0.000	1.296	1.994	1.803	36.728	0.590
BAS_127	3.380	0.000	0.000	1.434	1.873	0.010	0.310	0.554
BAS_142	3.380	0.000	0.000	0.988	2.346	2.707	58.080	0.694
BAS_143	3.380	0.000	0.000	1.233	2.097	0.438	12.555	0.620
BAS_145	3.380	0.000	0.000	1.533	1.702	3.125	56.788	0.504
BAS_144	3.380	0.000	0.000	1.267	2.005	5.161	97.975	0.593
BAS_149	3.380	0.000	0.000	1.208	2.097	1.810	37.744	0.620
BAS_150	3.380	0.000	0.000	1.625	1.608	1.606	31.870	0.476

BAS_151	3.380	0.000	0.000	1.645	1.571	2.887	52.161	0.465
BAS_123	3.380	0.000	0.000	0.772	2.570	2.841	55.451	0.760
BAS_133	3.380	0.000	0.000	1.337	1.906	1.978	34.883	0.564
BAS_132	3.380	0.000	0.000	1.453	1.798	1.079	20.346	0.532
BAS_131	3.380	0.000	0.000	1.070	2.262	1.007	22.364	0.669
BAS_130	3.380	0.000	0.000	1.637	1.590	1.446	27.846	0.470
BAS_134	3.380	0.000	0.000	1.000	2.335	1.630	35.227	0.691
BAS_135	3.380	0.000	0.000	1.161	2.163	2.995	70.558	0.640
BAS_138	3.380	0.000	0.000	1.395	1.825	5.086	84.911	0.540
BAS_137	3.380	0.000	0.000	1.299	2.022	0.439	12.593	0.598
BAS_136	3.380	0.000	0.000	1.355	1.865	6.112	98.375	0.552
BAS_141	3.380	0.000	0.000	1.367	1.927	2.035	47.693	0.570
BAS_140	3.380	0.000	0.000	1.354	1.889	4.160	73.922	0.559
BAS_139	3.380	0.000	0.000	1.405	1.832	3.174	56.687	0.542
BAS_152**	3.380	0.000	0.000	1.705	1.552	1.977	47.300	0.459
BAS_154	3.380	0.000	0.000	1.593	1.670	0.562	13.269	0.494
BAS_155	3.380	0.000	0.000	1.343	1.948	0.751	16.415	0.576
BAS_158	3.380	0.000	0.000	0.271	3.101	0.581	19.410	0.917
BAS_159	3.380	0.000	0.000	1.705	1.481	0.450	7.306	0.438
BAS_160	3.380	0.000	0.000	1.216	2.008	8.794	143.722	0.594
BAS_161	3.380	0.000	0.000	1.323	1.987	0.405	10.588	0.588
BAS_162	3.380	0.000	0.000	0.610	2.783	0.695	17.911	0.823
BAS_156*	3.380	0.000	0.000	1.193	2.118	0.966	20.372	0.626
BAS_157*	3.380	0.000	0.000	1.193	2.125	1.754	40.764	0.629
BAS_163	3.380	0.000	0.000	0.864	2.504	0.694	18.331	0.741
System	3.380	0.000	0.000	1.481	1.705	404.530	6887.493	0.504

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Node Depth Summary
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Node	Type	Average Depth Feet	Maximum Depth Feet	Maximum HGL Feet	Time of Max Occurrence days	hr:min
N1	JUNCTION	8.05	9.78	1611.38	0	00:18
N10	JUNCTION	2.04	4.00	1604.70	0	00:17
N100	JUNCTION	0.00	0.00	1594.00	0	00:00
N101	JUNCTION	0.00	0.00	1608.00	0	00:00
N102	JUNCTION	0.00	0.00	1626.90	0	00:00
N103	JUNCTION	0.15	0.56	1634.16	0	00:15
N104	JUNCTION	0.09	0.28	1596.75	0	01:13
N105	JUNCTION	0.00	0.00	1611.55	0	00:00
N107	JUNCTION	0.21	0.86	1613.16	0	00:10
N108	JUNCTION	0.11	0.45	1616.11	0	00:40
N109	JUNCTION	0.00	0.00	1638.00	0	00:00
N11	JUNCTION	2.53	3.95	1597.95	0	02:37
N110	JUNCTION	0.00	0.00	1611.55	0	00:00
N12	JUNCTION	2.67	4.00	1602.00	0	01:01
N13	JUNCTION	2.67	4.00	1604.70	0	00:27
N14	JUNCTION	0.43	1.74	1616.47	0	00:15
N14A	JUNCTION	0.42	1.74	1616.28	0	00:15
N15	JUNCTION	0.36	2.08	1622.30	0	00:16
N16	JUNCTION	0.43	1.21	1628.36	0	00:15
N17	JUNCTION	0.12	0.31	1606.31	0	00:10
N17A	JUNCTION	0.12	0.30	1605.10	0	00:10
N18	JUNCTION	0.75	1.80	1625.10	0	00:16
N18A	JUNCTION	1.91	4.00	1626.32	0	00:09
N19	JUNCTION	0.28	1.23	1605.23	0	00:10
N2	JUNCTION	0.75	1.96	1603.51	0	01:11
N20	JUNCTION	0.30	1.03	1613.75	0	00:25
N20A	JUNCTION	0.30	1.03	1613.50	0	00:25
N21A	JUNCTION	0.47	2.11	1628.89	0	00:15
N23	JUNCTION	1.34	4.00	1616.00	0	00:12
N24	JUNCTION	0.01	0.03	1632.03	0	01:05
N25	JUNCTION	1.34	4.00	1612.46	0	00:16
N26A	JUNCTION	0.50	2.25	1607.97	0	00:39
N28	JUNCTION	0.19	0.88	1608.88	0	00:10
N28A	JUNCTION	0.19	0.87	1608.55	0	00:10

N29	JUNCTION	0.51	2.34	1607.19	0	00:36
N30	JUNCTION	0.51	2.34	1606.73	0	00:36
N30A	JUNCTION	0.50	2.25	1604.95	0	00:36
N30B	JUNCTION	1.35	5.00	1607.14	0	00:24
N31	JUNCTION	1.35	4.00	1603.81	0	00:43
N31A	JUNCTION	2.13	5.00	1604.37	0	00:33
N32	JUNCTION	2.15	5.00	1602.24	0	00:48
N33	JUNCTION	1.59	5.19	1604.92	0	00:45
N33A	JUNCTION	1.33	4.24	1603.74	0	00:45
N34A	JUNCTION	1.55	6.10	1606.77	0	00:19
N35	JUNCTION	0.00	0.00	1643.80	0	00:00
N36	JUNCTION	0.78	2.67	1608.36	0	00:24
N37	JUNCTION	0.23	0.90	1645.86	0	00:15
N38	JUNCTION	0.68	2.39	1604.80	0	00:23
N38A	JUNCTION	1.09	5.00	1607.00	0	00:18
N39	JUNCTION	2.48	4.50	1615.39	0	01:48
N39A	JUNCTION	1.46	2.39	1610.64	0	01:54
N41	JUNCTION	0.58	1.86	1618.35	0	00:43
N42	JUNCTION	1.70	3.47	1624.90	0	00:36
N45	JUNCTION	0.78	2.64	1636.97	0	00:17
N46	JUNCTION	0.99	3.86	1640.80	0	00:17
N49	JUNCTION	0.21	1.13	1644.22	0	00:15
N5	JUNCTION	0.32	2.00	1615.80	0	00:18
N50	JUNCTION	0.04	0.24	1644.03	0	00:10
PS7_out	JUNCTION	0.64	1.54	1616.54	0	00:51
N52	JUNCTION	0.19	0.86	1616.06	0	00:10
N53	JUNCTION	0.18	0.75	1642.13	0	00:10
N53A	JUNCTION	0.19	0.82	1639.75	0	00:10
N55	JUNCTION	0.18	1.57	1629.89	0	00:15
N55A	JUNCTION	0.18	1.57	1629.57	0	00:15
N56	JUNCTION	0.04	0.23	1598.23	0	00:25
N57	JUNCTION	0.00	0.00	0.00	0	00:00
N58	JUNCTION	0.00	0.00	0.00	0	00:00
N59	JUNCTION	0.07	0.45	1601.75	0	00:20
N5A	JUNCTION	0.33	2.06	1615.31	0	00:18
N6	JUNCTION	0.33	2.05	1618.38	0	00:17
N60	JUNCTION	0.00	0.00	0.00	0	00:00
N61	JUNCTION	0.00	0.00	0.00	0	00:00
N62	JUNCTION	0.44	1.98	1628.14	0	00:15
N63	JUNCTION	0.25	1.23	1641.59	0	00:10
N64	JUNCTION	0.22	0.94	1607.87	0	00:10
N65A	JUNCTION	0.37	2.15	1638.30	0	00:15
N66	JUNCTION	0.06	0.26	1622.26	0	00:43
N67	JUNCTION	0.59	2.47	1624.17	0	00:23
N68	JUNCTION	0.00	0.00	1660.00	0	00:00
N69	JUNCTION	0.24	0.97	1627.15	0	00:20
N6A	JUNCTION	0.33	2.05	1618.05	0	00:17
N70	JUNCTION	0.51	1.76	1632.82	0	00:19
N71	JUNCTION	0.64	2.29	1636.99	0	00:17
N72	JUNCTION	0.64	2.30	1639.70	0	00:17
N73	JUNCTION	0.49	2.05	1641.75	0	00:15
N74	JUNCTION	0.40	1.12	1642.19	0	00:10
N75	JUNCTION	0.03	0.19	1656.19	0	00:15
N77	JUNCTION	0.33	0.73	1637.16	0	00:10
N78	JUNCTION	0.27	1.75	1648.84	0	00:16
N79	JUNCTION	0.32	1.48	1654.78	0	00:15
N7A	JUNCTION	0.36	2.05	1622.05	0	00:17
N80	JUNCTION	0.28	1.96	1651.24	0	00:15
N82	JUNCTION	0.00	0.00	1638.00	0	00:00
N83	JUNCTION	0.00	0.00	1638.00	0	00:00
N84	JUNCTION	0.00	0.00	1638.00	0	00:00
N85	JUNCTION	0.34	1.21	1644.89	0	00:10
N85A	JUNCTION	0.33	1.20	1644.61	0	00:10
N86	JUNCTION	0.30	1.29	1649.67	0	00:10
N87	JUNCTION	0.00	0.00	1599.00	0	00:00
N88	JUNCTION	0.00	0.00	1630.00	0	00:00
N89	JUNCTION	0.00	0.00	1618.00	0	00:00
N90	JUNCTION	0.00	0.00	1611.55	0	00:00
N91	JUNCTION	0.00	0.00	1611.55	0	00:00
N92	JUNCTION	0.69	1.17	1576.17	0	01:27
N93	JUNCTION	0.00	0.00	1630.00	0	00:00
N94	JUNCTION	0.18	0.51	1592.68	0	01:31

N95	JUNCTION	0.16	0.72	1599.85	0	00:22
N96	JUNCTION	0.30	1.36	1601.96	0	00:15
N97	JUNCTION	0.44	1.20	1604.33	0	00:20
N98	JUNCTION	0.41	0.94	1606.94	0	01:26
N99	JUNCTION	0.00	0.00	1596.00	0	00:00
N111A	JUNCTION	0.37	2.15	1625.24	0	00:16
N131	JUNCTION	0.34	1.56	1633.55	0	00:10
N112	JUNCTION	0.66	2.71	1636.42	0	00:17
N126	JUNCTION	0.45	2.04	1693.04	0	00:15
N127	JUNCTION	0.30	1.74	1637.25	0	00:31
N135	JUNCTION	0.51	2.03	1636.35	0	00:10
N113	JUNCTION	0.40	1.85	1617.39	0	00:17
N116	JUNCTION	0.34	1.38	1626.45	0	00:15
N117	JUNCTION	0.43	1.73	1625.91	0	00:15
N114	JUNCTION	0.39	1.42	1624.17	0	00:15
N115	JUNCTION	0.37	1.37	1621.74	0	00:16
N120	JUNCTION	0.60	2.54	1623.67	0	00:20
N121	JUNCTION	0.22	1.15	1637.24	0	00:10
N122	JUNCTION	0.62	2.38	1643.11	0	00:15
N125	JUNCTION	0.41	1.93	1639.68	0	00:10
N136	JUNCTION	0.05	0.28	1600.18	0	00:10
N96A	JUNCTION	0.30	1.36	1601.46	0	00:15
OUT6	JUNCTION	2.61	3.68	1601.91	0	05:15
OUT4	JUNCTION	1.34	4.12	1601.48	0	01:00
OUT3	JUNCTION	1.88	4.32	1601.42	0	01:05
OUT5	JUNCTION	1.02	2.47	1600.64	0	00:24
N138	JUNCTION	0.00	0.00	0.00	0	00:00
N139	JUNCTION	0.02	0.12	1614.43	0	00:10
N142	JUNCTION	0.16	1.01	1602.75	0	00:15
N136A	JUNCTION	0.08	0.48	1599.74	0	00:10
N77A	JUNCTION	0.33	0.73	1636.73	0	00:10
N44A_	JUNCTION	0.00	0.00	1624.78	0	00:00
N44A	JUNCTION	1.00	2.48	1627.26	0	00:24
N126A	JUNCTION	0.45	2.04	1692.76	0	00:15
N127A	JUNCTION	0.69	2.97	1638.19	0	00:31
N128A	JUNCTION	0.41	2.14	1620.19	0	00:35
N137A	JUNCTION	0.35	1.69	1655.48	0	00:10
N132A	JUNCTION	0.66	2.76	1645.44	0	00:15
N131A	JUNCTION	0.34	1.55	1633.19	0	00:10
N116A	JUNCTION	0.34	1.38	1624.79	0	00:15
N117A	JUNCTION	0.43	1.73	1625.02	0	00:15
N118A	JUNCTION	0.56	2.60	1616.27	0	00:16
N119A	JUNCTION	0.66	1.96	1626.99	0	00:11
N120A	JUNCTION	0.79	2.70	1622.13	0	00:20
N121A	JUNCTION	0.22	1.12	1635.09	0	00:11
N122A	JUNCTION	0.62	2.37	1640.65	0	00:16
N123A	JUNCTION	0.68	2.43	1620.71	0	00:20
N125A	JUNCTION	0.41	1.90	1637.10	0	00:11
N124A	JUNCTION	0.57	2.32	1643.44	0	00:15
N43	JUNCTION	1.00	2.65	1625.52	0	00:27
N43A	JUNCTION	1.69	3.55	1626.29	0	00:27
N76A	JUNCTION	0.50	1.27	1633.12	0	00:10
N145	JUNCTION	0.18	1.04	1641.04	0	00:20
N145A	JUNCTION	0.17	1.04	1637.49	0	00:20
N73A	JUNCTION	0.48	2.04	1640.24	0	00:15
N74A	JUNCTION	0.39	1.11	1641.76	0	00:10
N72A	JUNCTION	0.63	2.30	1638.38	0	00:17
N71A	JUNCTION	0.63	2.29	1636.59	0	00:18
N70A	JUNCTION	0.51	1.76	1631.80	0	00:19
N144	JUNCTION	0.28	1.91	1651.30	0	00:16
N144A	JUNCTION	0.28	1.91	1650.64	0	00:16
N79A	JUNCTION	0.32	1.48	1652.97	0	00:15
N78A	JUNCTION	0.27	1.75	1648.10	0	00:17
N80A	JUNCTION	0.28	1.96	1649.40	0	00:15
N106	JUNCTION	0.37	1.84	1626.97	0	00:20
N106A	JUNCTION	0.59	2.48	1626.12	0	00:20
N146A	JUNCTION	0.23	1.17	1636.92	0	00:11
N81	JUNCTION	2.51	4.42	1605.89	0	02:23
N98A	JUNCTION	1.45	2.39	1608.29	0	01:57
N86A	JUNCTION	0.30	1.28	1648.68	0	00:10
N67A	JUNCTION	0.76	2.83	1624.22	0	00:24
N147A	JUNCTION	0.38	1.15	1634.36	0	00:11

N147	JUNCTION	0.38	1.17	1636.68	0	00:10
PS2_out	JUNCTION	0.15	0.89	1638.40	0	00:31
N8A	JUNCTION	0.29	2.13	1644.46	0	00:15
PS3_out	JUNCTION	0.57	1.62	1602.62	0	01:15
PS4_out	JUNCTION	0.74	1.96	1603.96	0	01:11
PS1_out	JUNCTION	0.50	2.25	1608.25	0	00:39
N10A	JUNCTION	2.04	4.00	1600.38	0	01:19
S17E_out	JUNCTION	0.21	0.49	1640.49	0	01:36
S17_out	JUNCTION	0.20	0.23	1630.23	0	04:26
PS5_out	JUNCTION	0.77	1.98	1617.98	0	01:19
PS6_out	JUNCTION	0.82	2.10	1617.60	0	01:32
N12A	JUNCTION	2.57	4.00	1601.17	0	00:50
N4	JUNCTION	0.09	1.92	1626.95	0	00:11
N22	JUNCTION	0.00	0.00	1606.00	0	00:00
N26	JUNCTION	0.00	0.00	1640.00	0	00:00
N51	JUNCTION	0.00	0.00	1623.30	0	00:00
N140	JUNCTION	0.00	0.00	1600.67	0	00:00
N141	JUNCTION	0.00	0.00	1636.94	0	00:00
N143	JUNCTION	0.00	0.00	1634.33	0	00:00
N148	JUNCTION	0.00	0.00	1637.54	0	00:00
N152	JUNCTION	0.00	0.00	1636.15	0	00:00
N153	JUNCTION	0.00	0.00	1631.85	0	00:00
N154	JUNCTION	0.00	0.00	1642.33	0	00:00
N156	JUNCTION	0.00	0.00	1623.09	0	00:00
N157	JUNCTION	0.00	0.00	1642.68	0	00:00
N158	JUNCTION	0.00	0.00	1657.93	0	00:00
N159	JUNCTION	0.00	0.00	1653.79	0	00:00
N160	JUNCTION	0.00	0.00	1620.02	0	00:00
N161	JUNCTION	0.00	0.00	1618.05	0	00:00
N162	JUNCTION	0.00	0.00	1628.29	0	00:00
N163	JUNCTION	0.00	0.00	1613.67	0	00:00
N164	JUNCTION	0.00	0.00	1620.22	0	00:00
N165	JUNCTION	0.00	0.00	1641.12	0	00:00
N166	JUNCTION	0.00	0.00	1618.28	0	00:00
N167	JUNCTION	1.00	1.00	1619.71	0	00:00
N168	JUNCTION	0.00	0.00	1653.79	0	00:00
N169	JUNCTION	0.00	0.00	1635.75	0	00:00
N170	JUNCTION	0.00	0.00	1620.00	0	00:00
N171	JUNCTION	0.00	0.00	1626.78	0	00:00
N41A	JUNCTION	2.23	4.00	1620.26	0	00:31
N9	JUNCTION	1.21	4.00	1604.75	0	00:08
N3	JUNCTION	1.84	4.00	1618.87	0	00:14
N40A	JUNCTION	2.49	4.50	1618.17	0	00:59
N40	JUNCTION	2.22	4.00	1617.96	0	00:36
OUT1	OUTFALL	0.54	1.12	1597.14	0	02:58
OUT2	OUTFALL	0.71	1.12	1594.72	0	02:41
OUT7	OUTFALL	0.00	0.00	1612.30	0	00:00
OUT8	OUTFALL	0.00	0.00	1626.90	0	00:00
OUT9	OUTFALL	0.00	0.00	1608.00	0	00:00
OUT10	OUTFALL	0.00	0.00	1594.00	0	00:00
OUT11	OUTFALL	0.00	0.00	1596.00	0	00:00
OUT12	OUTFALL	0.07	0.45	1600.83	0	00:20
OUT13	OUTFALL	0.43	1.98	1627.14	0	00:15
OUT14	OUTFALL	0.25	1.23	1640.59	0	00:11
OUT15	OUTFALL	0.00	0.00	1643.80	0	00:00
OUT16	OUTFALL	0.00	0.00	1615.66	0	00:00
OUT17	OUTFALL	0.00	0.00	1622.00	0	00:00
OUT18	OUTFALL	0.76	2.83	1623.40	0	00:25
OUT19	OUTFALL	0.00	0.00	1660.00	0	00:00
OUT20	OUTFALL	0.00	0.00	1575.00	0	00:00
OUT21	OUTFALL	0.00	0.00	1638.00	0	00:00
OUT22	OUTFALL	0.00	0.00	1611.55	0	00:00
OUT23	OUTFALL	0.00	0.00	1599.00	0	00:00
OUT24	OUTFALL	0.00	0.00	1630.00	0	00:00
OUT25	OUTFALL	0.00	0.00	1618.00	0	00:00
OUT27	OUTFALL	0.00	0.00	1630.00	0	00:00
OUT26	OUTFALL	0.00	0.00	1596.47	0	00:00
OUT28	OUTFALL	0.22	0.93	1606.89	0	00:10
N44	DIVIDER	0.78	2.25	1629.79	0	00:24
N119	DIVIDER	0.66	1.94	1627.83	0	00:10
N27	DIVIDER	0.28	1.12	1611.12	0	00:10
S17W_out	DIVIDER	0.37	1.01	1642.01	0	01:13

N16A	DIVIDER	0.75	1.81	1626.41	0	00:15
N34	DIVIDER	0.53	2.34	1607.73	0	00:19
N47	DIVIDER	0.99	3.86	1641.40	0	00:16
N46A	DIVIDER	0.29	1.56	1637.73	0	00:17
N48	DIVIDER	0.34	1.90	1643.66	0	00:15
N65	DIVIDER	0.37	2.17	1638.77	0	00:15
N76	DIVIDER	0.38	1.25	1634.95	0	00:15
N8	DIVIDER	0.44	2.13	1644.87	0	00:15
N111	DIVIDER	0.53	2.17	1625.49	0	00:17
N132	DIVIDER	0.37	2.12	1645.07	0	00:15
N130	DIVIDER	0.28	1.44	1659.71	0	00:10
N137	DIVIDER	0.34	1.70	1656.02	0	00:10
N128	DIVIDER	0.41	2.14	1620.85	0	00:35
N129	DIVIDER	0.53	2.14	1628.26	0	00:15
N134	DIVIDER	0.61	2.48	1633.60	0	00:11
N118	DIVIDER	0.57	2.60	1617.79	0	00:15
N133	DIVIDER	0.61	2.47	1630.76	0	00:12
N124	DIVIDER	0.58	2.33	1645.56	0	00:15
N123	DIVIDER	0.54	2.07	1624.21	0	00:19
N129A	DIVIDER	0.69	2.96	1622.98	0	00:34
N130A	DIVIDER	0.28	1.43	1659.36	0	00:10
N146	DIVIDER	0.23	1.19	1638.18	0	00:10
N7	DIVIDER	0.36	2.05	1622.94	0	00:17
N21	DIVIDER	0.47	2.11	1629.12	0	00:15
S17W	STORAGE	4.58	7.63	1648.63	0	01:12
S17E	STORAGE	0.72	2.55	1642.55	0	01:35
S17	STORAGE	4.43	5.03	1635.03	0	04:26
S56	STORAGE	0.80	0.97	0.97	1	01:00
S57	STORAGE	0.67	0.88	0.88	1	01:00
S60	STORAGE	0.91	1.05	1.05	1	01:00
S58	STORAGE	0.72	0.90	0.90	1	01:00
S61	STORAGE	1.05	1.28	1.28	1	01:00
S138	STORAGE	1.07	1.27	1.27	1	01:00
PS2	STORAGE	0.28	1.80	1639.31	0	00:31
PS3	STORAGE	0.51	1.51	1602.51	0	01:15
PS4	STORAGE	0.69	1.82	1603.82	0	01:11
PS5	STORAGE	0.54	1.44	1617.44	0	01:19
PS6	STORAGE	0.60	1.74	1617.24	0	01:32
PS7	STORAGE	0.63	1.59	1616.59	0	00:50
PS1	STORAGE	0.39	1.78	1607.78	0	00:39

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Node InFlow Summary
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Node	Type	Maximum Lateral Inflow CFS	Maximum Total Inflow CFS	Time of Max Occurrence days	hr:min	Lateral Inflow Volume Mgal	Total Inflow Volume Mgal
N1	JUNCTION	120.38	460.31	0	00:19	4.833	38.069
N10	JUNCTION	0.00	276.65	0	01:11	0.000	40.488
N100	JUNCTION	14.19	14.19	0	00:10	0.573	0.573
N101	JUNCTION	36.23	36.23	0	00:15	1.969	1.968
N102	JUNCTION	6.65	6.65	0	00:10	0.545	0.545
N103	JUNCTION	70.65	71.02	0	00:15	5.203	5.844
N104	JUNCTION	176.96	181.96	0	00:15	9.285	11.526
N105	JUNCTION	2.74	2.74	0	01:05	0.742	0.742
N107	JUNCTION	0.00	20.55	0	00:10	0.000	1.639
N108	JUNCTION	78.94	160.52	0	00:35	3.640	12.711
N109	JUNCTION	0.00	5.58	0	00:10	0.000	0.654
N11	JUNCTION	50.43	166.36	0	02:41	4.610	57.491
N110	JUNCTION	0.00	29.87	0	00:10	0.000	2.301
N12	JUNCTION	46.76	190.17	0	01:01	4.135	49.927
N13	JUNCTION	0.00	248.53	0	01:08	0.000	42.521
N14	JUNCTION	70.29	70.29	0	00:15	3.813	3.813
N14A	JUNCTION	0.00	70.14	0	00:15	0.000	3.812
N15	JUNCTION	104.79	219.26	0	00:15	5.243	11.538
N16	JUNCTION	103.17	105.83	0	00:15	5.359	14.783
N17	JUNCTION	27.12	27.12	0	00:10	3.886	4.167

N17A	JUNCTION	0.00	26.71	0	00:10	0.000	4.166
N18	JUNCTION	21.10	124.59	0	00:16	1.027	15.793
N18A	JUNCTION	128.73	249.48	0	00:15	3.671	19.461
N19	JUNCTION	9.04	9.04	0	00:10	0.421	0.421
N2	JUNCTION	0.00	244.88	0	01:09	0.000	42.103
N20	JUNCTION	7.76	41.34	0	00:25	1.844	4.537
N20A	JUNCTION	0.00	41.32	0	00:25	0.000	4.537
N21A	JUNCTION	0.00	54.24	0	00:15	0.000	2.615
N23	JUNCTION	63.56	179.22	0	00:16	3.757	10.367
N24	JUNCTION	1.16	1.16	0	01:05	0.285	0.285
N25	JUNCTION	9.34	146.89	0	00:16	0.266	10.502
N26A	JUNCTION	0.00	157.43	0	00:39	0.000	13.050
N28	JUNCTION	12.61	12.61	0	00:10	0.521	0.521
N28A	JUNCTION	0.00	12.57	0	00:10	0.000	0.521
N29	JUNCTION	29.62	180.39	0	00:36	1.240	14.287
N30	JUNCTION	0.00	185.81	0	00:36	0.000	14.807
N30A	JUNCTION	10.50	191.59	0	00:36	0.314	15.116
N30B	JUNCTION	0.00	191.57	0	00:36	0.000	15.115
N31	JUNCTION	64.52	189.80	0	00:43	3.119	18.024
N31A	JUNCTION	0.00	189.68	0	00:44	0.000	18.019
N32	JUNCTION	38.76	161.59	0	01:05	2.631	20.137
N33	JUNCTION	0.32	99.83	0	00:45	0.055	7.623
N33A	JUNCTION	0.00	99.83	0	00:45	0.000	7.623
N34A	JUNCTION	3.09	145.55	0	00:19	0.158	7.279
N35	JUNCTION	34.87	34.87	0	00:10	1.421	1.421
N36	JUNCTION	47.36	212.78	0	00:23	2.533	14.906
N37	JUNCTION	14.68	14.68	0	00:15	0.745	0.745
N38	JUNCTION	38.69	170.74	0	00:23	1.889	11.251
N38A	JUNCTION	0.00	170.80	0	00:23	0.000	11.249
N39	JUNCTION	17.49	135.52	0	01:54	3.908	32.127
N39A	JUNCTION	0.00	135.52	0	01:54	0.000	32.124
N41	JUNCTION	10.98	264.54	0	00:43	1.488	29.822
N42	JUNCTION	38.06	270.17	0	00:36	3.731	27.698
N45	JUNCTION	62.52	282.24	0	00:17	3.732	16.826
N46	JUNCTION	27.65	223.46	0	00:17	1.656	13.098
N49	JUNCTION	103.51	112.93	0	00:15	5.981	6.400
N5	JUNCTION	39.38	313.91	0	00:18	1.459	15.220
N50	JUNCTION	9.82	9.82	0	00:10	0.419	0.419
PS7_out	JUNCTION	0.00	191.31	0	00:51	0.000	34.962
N52	JUNCTION	20.71	20.71	0	00:10	0.868	0.868
N53	JUNCTION	14.44	14.44	0	00:10	0.708	0.708
N53A	JUNCTION	0.00	14.47	0	00:10	0.000	0.708
N55	JUNCTION	70.27	70.27	0	00:15	2.199	2.199
N55A	JUNCTION	0.00	70.22	0	00:15	0.000	2.199
N56	JUNCTION	105.69	105.70	0	00:10	6.578	8.878
N57	JUNCTION	3.94	3.94	0	00:10	1.055	1.055
N58	JUNCTION	30.40	30.40	0	00:10	4.381	4.380
N59	JUNCTION	32.65	32.65	0	00:20	1.378	1.378
N5A	JUNCTION	0.00	327.73	0	00:18	0.000	15.969
N6	JUNCTION	20.65	276.66	0	00:17	0.584	13.767
N60	JUNCTION	181.09	181.09	0	00:15	9.230	9.230
N61	JUNCTION	90.29	90.29	0	00:20	6.815	6.814
N62	JUNCTION	100.13	100.13	0	00:15	4.779	4.779
N63	JUNCTION	16.69	16.69	0	00:10	0.677	0.677
N64	JUNCTION	13.27	13.27	0	00:10	0.562	0.562
N65A	JUNCTION	0.00	154.76	0	00:15	0.000	8.826
N66	JUNCTION	184.03	192.60	0	00:20	6.235	9.657
N67	JUNCTION	17.42	191.57	0	00:24	0.798	13.714
N68	JUNCTION	13.57	13.57	0	00:10	0.484	0.484
N69	JUNCTION	86.91	193.90	0	00:20	6.920	15.008
N6A	JUNCTION	0.00	276.71	0	00:17	0.000	13.766
N70	JUNCTION	5.71	100.69	0	00:19	0.272	6.841
N71	JUNCTION	5.78	98.19	0	00:17	0.282	6.578
N72	JUNCTION	12.06	94.86	0	00:17	0.891	6.300
N73	JUNCTION	79.91	79.91	0	00:15	4.215	4.215
N74	JUNCTION	12.95	12.95	0	00:10	1.188	1.188
N75	JUNCTION	13.94	13.94	0	00:15	0.636	0.636
N77	JUNCTION	4.59	4.59	0	00:10	0.694	0.694
N78	JUNCTION	7.31	63.85	0	00:16	0.451	3.273
N79	JUNCTION	49.95	49.95	0	00:15	2.337	2.337
N7A	JUNCTION	57.19	261.96	0	00:16	1.593	13.187
N80	JUNCTION	84.55	84.55	0	00:15	3.986	3.986

N82	JUNCTION	4.44	4.44	0	00:10	0.180	0.180
N83	JUNCTION	0.29	0.29	0	01:05	0.038	0.038
N84	JUNCTION	1.84	1.84	0	01:05	0.436	0.436
N85	JUNCTION	13.78	13.78	0	00:10	0.854	0.854
N85A	JUNCTION	0.00	13.59	0	00:10	0.000	0.854
N86	JUNCTION	15.28	15.28	0	00:10	0.747	0.747
N87	JUNCTION	28.53	28.53	0	00:10	1.885	1.885
N88	JUNCTION	9.18	9.18	0	00:10	0.560	0.560
N89	JUNCTION	6.71	6.71	0	00:10	0.243	0.243
N90	JUNCTION	13.09	13.09	0	00:10	0.464	0.464
N91	JUNCTION	14.97	14.97	0	00:10	1.095	1.095
N92	JUNCTION	289.00	580.10	0	01:07	22.911	169.804
N93	JUNCTION	3.97	3.97	0	00:10	0.202	0.202
N94	JUNCTION	6.13	53.58	0	01:31	1.661	8.663
N95	JUNCTION	48.77	91.52	0	00:22	2.318	6.285
N96	JUNCTION	75.39	75.39	0	00:15	3.927	3.927
N97	JUNCTION	122.34	123.25	0	00:20	7.459	16.550
N98	JUNCTION	66.51	113.06	0	01:26	4.081	20.864
N99	JUNCTION	14.46	14.46	0	00:10	0.497	0.497
N111A	JUNCTION	0.00	213.83	0	00:16	0.000	11.588
N131	JUNCTION	25.19	25.19	0	00:10	1.104	1.104
N112	JUNCTION	38.51	160.54	0	00:17	2.034	8.684
N126	JUNCTION	58.08	58.08	0	00:15	2.706	2.706
N127	JUNCTION	0.00	165.48	0	00:31	0.000	9.089
N135	JUNCTION	52.16	52.16	0	00:10	2.886	2.886
N113	JUNCTION	22.36	118.70	0	00:17	1.007	6.612
N116	JUNCTION	20.35	20.35	0	00:15	1.078	1.078
N117	JUNCTION	34.88	34.88	0	00:15	1.976	1.976
N114	JUNCTION	27.85	27.85	0	00:15	1.445	1.863
N115	JUNCTION	17.91	71.66	0	00:16	0.695	3.746
N120	JUNCTION	98.38	186.41	0	00:20	6.108	12.394
N121	JUNCTION	12.59	12.59	0	00:10	0.439	0.439
N122	JUNCTION	84.91	84.91	0	00:15	5.082	5.082
N125	JUNCTION	47.69	47.69	0	00:10	2.034	2.034
N136	JUNCTION	47.30	47.30	0	00:10	1.976	1.976
N96A	JUNCTION	0.00	75.02	0	00:15	0.000	3.927
OUT6	JUNCTION	0.67	252.21	0	05:04	0.046	95.207
OUT4	JUNCTION	0.00	306.95	0	01:12	0.000	117.429
OUT3	JUNCTION	0.73	467.20	0	01:05	0.125	137.565
OUT5	JUNCTION	0.00	280.28	0	04:55	0.000	110.069
N138	JUNCTION	201.18	201.18	0	00:15	11.936	11.935
N139	JUNCTION	16.41	16.41	0	00:10	0.751	0.751
N142	JUNCTION	15.17	15.17	0	00:15	0.425	0.425
N136A	JUNCTION	0.00	46.61	0	00:10	0.000	1.976
N77A	JUNCTION	0.00	4.54	0	00:10	0.000	0.694
N44A_	JUNCTION	0.00	0.00	0	00:00	0.000	0.000
N44A	JUNCTION	0.00	261.16	0	00:24	0.000	19.273
N126A	JUNCTION	0.00	58.00	0	00:15	0.000	2.705
N127A	JUNCTION	0.00	165.48	0	00:31	0.000	9.089
N128A	JUNCTION	0.00	266.26	0	00:35	0.000	18.035
N137A	JUNCTION	0.00	43.80	0	00:11	0.000	1.820
N132A	JUNCTION	0.00	129.67	0	00:15	0.000	6.655
N131A	JUNCTION	0.00	24.96	0	00:10	0.000	1.104
N116A	JUNCTION	0.00	20.27	0	00:15	0.000	1.078
N117A	JUNCTION	0.00	34.76	0	00:15	0.000	1.975
N118A	JUNCTION	0.00	98.57	0	00:16	0.000	4.619
N119A	JUNCTION	0.00	69.07	0	00:11	0.000	2.994
N120A	JUNCTION	0.00	186.22	0	00:20	0.000	12.391
N121A	JUNCTION	0.00	11.99	0	00:11	0.000	0.439
N122A	JUNCTION	0.00	84.09	0	00:16	0.000	5.079
N123A	JUNCTION	0.00	151.68	0	00:20	0.000	9.372
N125A	JUNCTION	0.00	46.37	0	00:11	0.000	2.033
N124A	JUNCTION	0.00	73.38	0	00:15	0.000	4.155
N43	JUNCTION	0.00	258.15	0	00:27	0.000	19.254
N43A	JUNCTION	0.00	258.12	0	00:27	0.000	19.253
N76A	JUNCTION	0.00	62.97	0	00:10	0.000	4.202
N145	JUNCTION	19.41	19.41	0	00:20	0.583	0.583
N145A	JUNCTION	0.00	19.35	0	00:20	0.000	0.582
N73A	JUNCTION	0.00	79.39	0	00:15	0.000	4.214
N74A	JUNCTION	0.00	12.81	0	00:10	0.000	1.188
N72A	JUNCTION	0.00	94.90	0	00:17	0.000	6.298
N71A	JUNCTION	0.00	98.15	0	00:18	0.000	6.573

N70A	JUNCTION	0.00	100.63	0	00:19	0.000	6.839
N144	JUNCTION	7.78	57.39	0	00:16	0.487	2.823
N144A	JUNCTION	0.00	57.34	0	00:16	0.000	2.823
N79A	JUNCTION	0.00	49.94	0	00:15	0.000	2.336
N78A	JUNCTION	0.00	63.84	0	00:17	0.000	3.273
N80A	JUNCTION	0.00	84.19	0	00:15	0.000	3.986
N106	JUNCTION	143.72	176.10	0	00:20	8.800	12.919
N106A	JUNCTION	0.00	176.14	0	00:20	0.000	12.918
N146A	JUNCTION	0.00	10.31	0	00:11	0.000	0.404
N81	JUNCTION	218.62	309.57	0	02:23	15.985	85.085
N98A	JUNCTION	0.00	242.24	0	01:35	0.000	52.908
N86A	JUNCTION	0.00	15.03	0	00:10	0.000	0.747
N67A	JUNCTION	0.00	191.56	0	00:24	0.000	13.713
N147A	JUNCTION	0.00	14.48	0	00:11	0.000	1.254
N147	JUNCTION	15.04	15.04	0	00:10	1.255	1.255
PS2_out	JUNCTION	0.00	165.48	0	00:31	0.000	9.089
N8A	JUNCTION	12.55	222.17	0	00:15	0.438	9.143
PS3_out	JUNCTION	0.00	245.75	0	01:15	0.000	37.175
PS4_out	JUNCTION	0.00	242.10	0	01:11	0.000	41.680
PS1_out	JUNCTION	0.00	157.43	0	00:39	0.000	13.051
N10A	JUNCTION	40.50	175.30	0	02:58	3.999	41.909
S17E_out	JUNCTION	0.00	14.98	0	01:36	0.000	2.147
S17_out	JUNCTION	10.52	18.08	0	04:26	7.084	9.587
PS5_out	JUNCTION	0.00	63.87	0	01:19	0.000	12.293
PS6_out	JUNCTION	0.00	78.45	0	01:32	0.000	15.233
N12A	JUNCTION	0.00	190.21	0	01:01	0.000	49.926
N4	JUNCTION	0.00	61.62	0	00:11	0.000	1.082
N22	JUNCTION	0.00	0.00	0	00:00	0.000	0.000
N26	JUNCTION	0.00	0.00	0	00:00	0.000	0.000
N51	JUNCTION	0.00	0.00	0	00:00	0.000	0.000
N140	JUNCTION	0.00	0.00	0	00:00	0.000	0.000
N141	JUNCTION	0.00	0.00	0	00:00	0.000	0.000
N143	JUNCTION	0.00	0.00	0	00:00	0.000	0.000
N148	JUNCTION	0.00	0.00	0	00:00	0.000	0.000
N152	JUNCTION	0.00	0.00	0	00:00	0.000	0.000
N153	JUNCTION	0.00	0.00	0	00:00	0.000	0.000
N154	JUNCTION	0.00	0.00	0	00:00	0.000	0.000
N156	JUNCTION	0.00	0.00	0	00:00	0.000	0.000
N157	JUNCTION	0.00	0.00	0	00:00	0.000	0.000
N158	JUNCTION	0.00	0.00	0	00:00	0.000	0.000
N159	JUNCTION	0.00	0.00	0	00:00	0.000	0.000
N160	JUNCTION	0.00	0.00	0	00:00	0.000	0.000
N161	JUNCTION	0.00	0.00	0	00:00	0.000	0.000
N162	JUNCTION	0.00	0.00	0	00:00	0.000	0.000
N163	JUNCTION	0.00	0.00	0	00:00	0.000	0.000
N164	JUNCTION	0.00	0.00	0	00:00	0.000	0.000
N165	JUNCTION	0.00	0.00	0	00:00	0.000	0.000
N166	JUNCTION	0.00	0.00	0	00:00	0.000	0.000
N167	JUNCTION	0.00	0.00	0	00:00	0.000	0.000
N168	JUNCTION	0.00	0.00	0	00:00	0.000	0.000
N169	JUNCTION	0.00	0.00	0	00:00	0.000	0.000
N170	JUNCTION	0.00	0.00	0	00:00	0.000	0.000
N171	JUNCTION	0.00	0.00	0	00:00	0.000	0.000
N41A	JUNCTION	0.00	264.54	0	00:43	0.000	29.821
N9	JUNCTION	92.94	92.94	0	00:15	3.596	3.596
N3	JUNCTION	41.78	278.20	0	00:35	1.620	19.664
N40A	JUNCTION	0.00	129.07	0	01:05	0.000	28.275
N40	JUNCTION	6.64	129.07	0	01:05	0.916	28.277
OUT1	OUTFALL	0.00	175.30	0	02:58	0.000	41.908
OUT2	OUTFALL	0.00	166.36	0	02:41	0.000	57.487
OUT7	OUTFALL	0.00	20.55	0	00:10	0.000	1.639
OUT8	OUTFALL	0.00	6.65	0	00:10	0.000	0.545
OUT9	OUTFALL	0.00	36.23	0	00:15	0.000	1.968
OUT10	OUTFALL	0.00	14.19	0	00:10	0.000	0.573
OUT11	OUTFALL	0.00	14.46	0	00:10	0.000	0.497
OUT12	OUTFALL	0.00	32.60	0	00:20	0.000	1.378
OUT13	OUTFALL	0.00	99.66	0	00:15	0.000	4.777
OUT14	OUTFALL	0.00	16.58	0	00:11	0.000	0.677
OUT15	OUTFALL	0.00	34.87	0	00:10	0.000	1.421
OUT16	OUTFALL	227.40	365.57	0	00:35	16.039	28.749
OUT17	OUTFALL	0.00	192.60	0	00:20	0.000	9.657
OUT18	OUTFALL	0.00	191.33	0	00:25	0.000	13.704

OUT19	OUTFALL	0.00	13.57	0	00:10	0.000	0.484
OUT20	OUTFALL	0.00	580.10	0	01:07	0.000	169.804
OUT21	OUTFALL	0.00	5.58	0	00:10	0.000	0.654
OUT22	OUTFALL	0.00	29.87	0	00:10	0.000	2.301
OUT23	OUTFALL	0.00	28.53	0	00:10	0.000	1.885
OUT24	OUTFALL	0.00	9.18	0	00:10	0.000	0.560
OUT25	OUTFALL	0.00	6.71	0	00:10	0.000	0.243
OUT27	OUTFALL	0.00	3.97	0	00:10	0.000	0.202
OUT26	OUTFALL	0.00	181.96	0	00:15	0.000	11.526
OUT28	OUTFALL	0.00	13.09	0	00:10	0.000	0.561
N44	DIVIDER	25.93	261.07	0	00:24	2.360	19.274
N119	DIVIDER	70.56	70.56	0	00:10	2.994	2.994
N27	DIVIDER	17.70	17.70	0	00:10	0.940	0.940
S17W_out	DIVIDER	0.00	12.88	0	01:13	0.000	1.464
N16A	DIVIDER	0.00	105.42	0	00:15	0.000	14.781
N34	DIVIDER	53.39	144.46	0	00:18	2.509	7.122
N47	DIVIDER	18.11	200.36	0	00:16	0.820	11.445
N46A	DIVIDER	0.00	223.49	0	00:17	0.000	13.098
N48	DIVIDER	73.35	185.54	0	00:15	4.228	10.626
N65	DIVIDER	156.01	156.01	0	00:15	8.828	8.828
N76	DIVIDER	62.86	62.86	0	00:15	4.204	4.203
N8	DIVIDER	200.70	212.62	0	00:15	5.908	8.705
N111	DIVIDER	36.73	213.76	0	00:16	1.802	11.589
N132	DIVIDER	92.62	129.95	0	00:15	4.832	6.655
N130	DIVIDER	18.25	18.25	0	00:10	0.687	0.687
N137	DIVIDER	28.74	28.74	0	00:10	1.134	1.134
N128	DIVIDER	0.00	266.26	0	00:35	0.000	18.037
N129	DIVIDER	56.79	56.79	0	00:15	3.123	3.123
N134	DIVIDER	31.87	81.52	0	00:11	1.606	4.490
N118	DIVIDER	35.23	98.65	0	00:15	1.629	4.621
N133	DIVIDER	37.74	118.34	0	00:13	1.810	6.297
N124	DIVIDER	73.92	73.92	0	00:15	4.158	4.157
N123	DIVIDER	56.69	151.82	0	00:19	3.172	9.375
N129A	DIVIDER	114.13	266.27	0	00:34	5.852	18.040
N130A	DIVIDER	0.00	18.07	0	00:10	0.000	0.687
N146	DIVIDER	10.59	10.59	0	00:10	0.404	0.404
N7	DIVIDER	0.31	213.98	0	00:17	0.010	11.596
N21	DIVIDER	54.32	54.32	0	00:15	2.616	2.616
S17W	STORAGE	34.13	34.13	0	00:15	1.614	1.614
S17E	STORAGE	13.54	20.00	0	01:05	0.688	2.152
S17	STORAGE	42.97	46.14	0	00:16	1.837	3.983
S56	STORAGE	0.00	105.70	0	00:10	0.000	8.878
S57	STORAGE	0.00	3.94	0	00:10	0.000	1.055
S60	STORAGE	0.00	181.09	0	00:15	0.000	9.230
S58	STORAGE	0.00	30.40	0	00:10	0.000	4.380
S61	STORAGE	0.00	90.29	0	00:20	0.000	6.814
S138	STORAGE	0.00	201.18	0	00:15	0.000	11.935
PS2	STORAGE	0.00	222.24	0	00:15	0.000	9.143
PS3	STORAGE	0.00	460.31	0	00:19	0.000	38.069
PS4	STORAGE	215.32	297.03	0	00:35	7.487	42.406
PS5	STORAGE	17.17	236.08	0	00:15	1.212	12.749
PS6	STORAGE	60.80	97.09	0	01:05	3.132	15.423
PS7	STORAGE	20.37	193.13	0	00:47	0.966	35.054
PS1	STORAGE	32.07	189.69	0	00:17	1.699	13.137

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Node Surcharge Summary
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Surcharging occurs when water rises above the top of the highest conduit.

Node	Type	Hours Surcharged	Max. Height Above Crown Feet	Min. Depth Below Rim Feet
N10	JUNCTION	2.41	0.000	0.000
N100	JUNCTION	25.01	0.000	10.000
N101	JUNCTION	25.01	0.000	10.000
N102	JUNCTION	25.01	0.000	10.000
N105	JUNCTION	25.01	0.000	10.000
N109	JUNCTION	25.01	0.000	10.000

N110	JUNCTION	25.01	0.000	10.000
N12	JUNCTION	3.05	0.000	0.000
N13	JUNCTION	3.36	0.000	0.000
N18A	JUNCTION	0.54	0.000	0.000
N23	JUNCTION	0.24	0.000	0.000
N30B	JUNCTION	0.58	0.000	0.000
N31A	JUNCTION	0.87	0.000	0.000
N32	JUNCTION	0.71	0.000	0.000
N35	JUNCTION	25.01	0.000	10.000
N38A	JUNCTION	0.35	0.000	0.000
N39	JUNCTION	0.12	0.000	0.000
N57	JUNCTION	25.01	0.000	10.000
N58	JUNCTION	25.01	0.000	10.000
N60	JUNCTION	25.01	0.000	10.000
N61	JUNCTION	25.01	0.000	10.000
N68	JUNCTION	25.01	0.000	10.000
N82	JUNCTION	25.01	0.000	10.000
N83	JUNCTION	25.01	0.000	10.000
N84	JUNCTION	25.01	0.000	10.000
N87	JUNCTION	25.01	0.000	10.000
N88	JUNCTION	25.01	0.000	10.000
N89	JUNCTION	25.01	0.000	10.000
N90	JUNCTION	25.01	0.000	10.000
N91	JUNCTION	25.01	0.000	10.000
N93	JUNCTION	25.01	0.000	10.000
N99	JUNCTION	25.01	0.000	10.000
N138	JUNCTION	25.01	0.000	0.000
N10A	JUNCTION	1.66	0.000	0.000
N12A	JUNCTION	1.27	0.000	0.000
N41A	JUNCTION	1.18	0.000	0.000
N9	JUNCTION	0.62	0.000	0.000
N3	JUNCTION	1.30	0.000	0.000
N40A	JUNCTION	0.17	0.000	0.000
N40	JUNCTION	1.13	0.000	0.000
S17W	STORAGE	24.73	3.625	0.375
S56	STORAGE	25.01	0.967	1.033
S57	STORAGE	25.01	0.877	1.123
S60	STORAGE	25.01	1.048	0.952
S58	STORAGE	25.01	0.901	1.099
S61	STORAGE	25.01	1.282	0.718
S138	STORAGE	25.01	1.268	0.732

****
Node Flooding Summary
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Flooding refers to all water that overflows a node, whether it ponds or not.

Node	Hours Flooded	Maximum Rate CFS	Time of Max Occurrence days hr:min		Total Flood Volume Mgal	Maximum Ponded Volume acre-in
N10	2.41	109.64	0	01:11	3.464	0.00
N13	3.36	136.48	0	01:08	5.563	0.00
N18A	0.54	131.07	0	00:15	0.912	0.00
N23	0.24	41.57	0	00:17	0.170	0.00
N30B	0.58	44.79	0	00:36	0.408	0.00
N31A	0.87	42.48	0	00:44	0.657	0.00
N32	0.70	0.00	0	00:00	0.000	0.00
N38A	0.35	44.06	0	00:23	0.228	0.00
N39	0.12	0.00	0	00:00	0.000	0.00
N10A	1.65	0.00	0	00:00	0.000	0.00
N12A	1.27	35.25	0	01:01	0.592	0.00
N41A	1.18	138.37	0	00:43	2.456	0.00
N9	0.62	55.96	0	00:15	0.458	0.00
N3	1.30	162.49	0	00:36	3.169	0.00
N40A	0.16	0.34	0	01:05	0.001	0.00
N40	1.13	0.00	0	00:00	0.000	0.00

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Storage Volume Summary
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Storage Unit	Average Volume 1000 ft3	Avg Pcnt Full	Maximum Volume 1000 ft3	Max Pcnt Full	Time of Max Occurrence days hr:min	Maximum Outflow CFS
S17W	24.366	39	57.297	92	0 01:12	12.88
S17E	5.152	3	32.734	18	0 01:35	14.98
S17	214.933	39	268.422	49	0 04:26	7.56
S56	847.141	17	1186.946	23	1 01:00	0.00
S57	90.325	12	141.090	19	1 01:00	0.00
S60	954.244	21	1233.895	27	1 01:00	0.00
S58	400.309	14	585.611	20	1 01:00	0.00
S61	637.735	29	910.997	41	1 01:00	0.00
S138	1184.530	30	1595.653	40	1 01:00	0.00
PS2	19.017	6	125.679	42	0 00:31	165.48
PS3	239.387	12	713.110	36	0 01:15	245.75
PS4	164.788	16	441.214	43	0 01:11	242.10
PS5	123.059	13	336.107	34	0 01:19	63.87
PS6	52.736	14	156.010	41	0 01:32	78.45
PS7	20.861	13	54.645	35	0 00:50	191.31
PS1	25.679	7	119.302	33	0 00:39	157.43

****
Outfall Loading Summary
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Outfall Node	Flow Freq. Pcnt.	Avg. Flow CFS	Max. Flow CFS	Total Volume Mgal
OUT1	99.67	62.44	175.30	41.908
OUT2	99.67	85.66	166.36	57.487
OUT7	99.67	2.44	20.55	1.639
OUT8	99.67	0.81	6.65	0.545
OUT9	99.67	2.93	36.23	1.968
OUT10	99.67	0.85	14.19	0.573
OUT11	99.67	0.74	14.46	0.497
OUT12	99.63	2.05	32.60	1.378
OUT13	99.63	7.12	99.66	4.777
OUT14	99.63	1.01	16.58	0.677
OUT15	99.67	2.12	34.87	1.421
OUT16	99.67	42.84	365.57	28.749
OUT17	99.67	14.39	192.60	9.657
OUT18	99.40	20.47	191.33	13.704
OUT19	99.67	0.72	13.57	0.484
OUT20	99.67	253.01	580.10	169.804
OUT21	99.67	0.97	5.58	0.654
OUT22	99.67	3.43	29.87	2.301
OUT23	99.67	2.81	28.53	1.885
OUT24	99.67	0.83	9.18	0.560
OUT25	99.67	0.36	6.71	0.243
OUT27	99.67	0.30	3.97	0.202
OUT26	99.67	17.17	181.96	11.526
OUT28	99.63	0.84	13.09	0.561
System	99.65	526.33	1591.09	353.201

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Link Flow Summary
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Link	Type	Maximum Flow CFS	Time of Max Occurrence days hr:min	Maximum Velocity ft/sec	Max/ Full Flow	Max/ Full Depth

C100-10	DUMMY	14.19	0	00:10			
C10-10A	CONDUIT	167.01	0	01:19	0.96	1.00	1.00
C101-9	DUMMY	36.23	0	00:15			
C103-97	CONDUIT	27.06	0	01:48	1.03	0.01	0.07
C104-26	DUMMY	181.96	0	00:15			
C105-110	DUMMY	2.74	0	01:05			
C107-7	DUMMY	20.55	0	00:10			
C108-16	DUMMY	160.52	0	00:35			
C109-21	DUMMY	5.58	0	00:10			
PS3-10	CONDUIT	245.75	0	01:15	8.42	0.37	0.41
C11-2	CONDUIT	166.36	0	02:41	8.70	0.21	0.28
C12A-11	CONDUIT	151.01	0	02:37	0.80	0.98	0.98
C102-8	DUMMY	6.65	0	00:10			
C13-12	CONDUIT	112.04	0	01:01	0.81	1.00	1.00
C14-14A	CONDUIT	70.14	0	00:15	7.36	0.49	0.50
C14A-12	CONDUIT	44.36	0	00:40	1.77	0.01	0.06
C15-PS5	CONDUIT	218.91	0	00:15	19.17	0.47	0.48
C16-16A	CONDUIT	105.42	0	00:15	14.52	0.37	0.40
C16A-18	CONDUIT	104.21	0	00:16	6.05	0.53	0.72
C61-S61	DUMMY	90.29	0	00:20			
C17-17A	CONDUIT	26.71	0	00:10	7.33	0.08	0.15
C17A-11	CONDUIT	12.65	0	00:25	1.11	0.00	0.03
C18-18A	CONDUIT	124.37	0	00:16	8.79	0.18	0.25
C18A-PS7	CONDUIT	118.30	0	00:17	1.68	1.00	1.00
C19-13	CONDUIT	8.76	0	00:15	1.30	0.32	0.61
C20-20A	CONDUIT	41.32	0	00:25	6.70	0.29	0.34
C20A-12	CONDUIT	31.55	0	00:55	1.49	0.01	0.06
C66-17	DUMMY	192.60	0	00:20			
C21-21A	CONDUIT	54.24	0	00:15	8.08	0.55	0.53
C2-13	CONDUIT	244.87	0	01:09	12.59	0.37	0.41
C21A-20	CONDUIT	39.01	0	00:25	1.77	0.01	0.06
C23-25	CONDUIT	137.64	0	00:16	1.76	1.00	1.00
C24-17	CONDUIT	0.87	0	03:48	0.39	0.00	0.01
C25-PS1	CONDUIT	146.82	0	00:18	10.59	0.40	0.43
C26A-29	CONDUIT	157.42	0	00:39	9.98	0.50	0.50
C27-PS1	CONDUIT	17.55	0	00:10	9.89	0.59	0.55
C28-28A	CONDUIT	12.57	0	00:10	4.79	0.40	0.44
C28A-30	CONDUIT	12.48	0	00:10	10.04	0.14	0.25
C29-30	CONDUIT	180.38	0	00:36	10.26	0.46	0.47
C30-30A	CONDUIT	185.80	0	00:36	10.31	0.43	0.45
C30A-30B	CONDUIT	191.57	0	00:36	8.39	0.22	0.29
C30B-31	CONDUIT	146.75	0	00:43	1.08	1.00	1.00
C3-1	CONDUIT	115.67	0	00:31	1.55	1.00	1.00
C31-31A	CONDUIT	189.68	0	00:44	6.02	0.36	0.39
C31A-32	CONDUIT	147.12	0	00:48	1.11	1.00	1.00
C32-3	CONDUIT	161.56	0	01:05	1.50	0.70	0.86
C33-33A	CONDUIT	99.83	0	00:45	8.77	0.37	0.41
C33A-4	CONDUIT	93.26	0	01:00	1.02	0.32	0.62
C34-34A	CONDUIT	143.97	0	00:19	9.48	0.52	0.51
C34A-33	CONDUIT	99.68	0	00:45	0.80	0.46	0.71
C35-15	DUMMY	34.87	0	00:10			
C36-5	CONDUIT	211.93	0	00:24	10.80	0.49	0.49
C37-120	CONDUIT	11.18	0	00:25	5.40	0.04	0.13
C38-38A	CONDUIT	170.80	0	00:23	9.20	0.46	0.48
C39-39A	CONDUIT	135.52	0	01:54	14.98	0.21	0.28
C39A-98A	CONDUIT	135.52	0	01:57	1.26	0.08	0.35
C40-40A	CONDUIT	129.07	0	01:05	7.49	0.22	0.29
C40A-39	CONDUIT	128.71	0	01:48	1.01	1.00	1.00
C41-41A	CONDUIT	264.54	0	00:43	9.46	0.45	0.47
C41A-40	CONDUIT	126.15	0	00:36	1.29	1.00	1.00
C42-41	CHANNEL	259.92	0	00:43	3.42	0.02	0.20
C44A-43	CHANNEL	258.15	0	00:27	5.62	0.06	0.37
C45-44	CHANNEL	249.88	0	00:24	6.25	0.02	0.36
C46-46A	CONDUIT	223.49	0	00:17	14.84	0.18	0.25
C46A-45	CONDUIT	223.24	0	00:17	9.56	0.53	0.52
C47-46	CHANNEL	199.96	0	00:17	4.23	0.55	0.80
C48-47	CONDUIT	183.12	0	00:16	8.20	0.55	0.54
C49-48	CONDUIT	112.23	0	00:15	8.30	0.26	0.32
C50-49	CONDUIT	9.82	0	00:10	3.44	0.02	0.07
PS7-PS4	CONDUIT	191.23	0	00:52	11.83	0.34	0.38
C52-107	CONDUIT	20.55	0	00:10	15.99	0.38	0.43

C53-53A	CONDUIT	14.47	0	00:10	13.52	0.30	0.37
C53A-107	CONDUIT	8.60	0	00:40	0.90	0.11	0.36
C55-55A	CONDUIT	70.22	0	00:15	8.14	0.53	0.52
C5-5A	CONDUIT	313.99	0	00:18	9.80	0.50	0.50
C55A-56	CONDUIT	51.96	0	00:25	2.41	0.01	0.06
C56-S56	DUMMY	105.70	0	00:10			
C57-S57	DUMMY	3.94	0	00:10			
C58-S58	DUMMY	30.40	0	00:10			
C59-12	CONDUIT	32.60	0	00:20	4.55	0.05	0.11
C5A-1	CONDUIT	326.76	0	00:18	9.96	0.52	0.51
C60-S60	DUMMY	181.09	0	00:15			
C62-13	CONDUIT	99.66	0	00:15	8.07	0.49	0.49
C63-14	CONDUIT	16.58	0	00:11	6.09	0.35	0.41
C64-28	CONDUIT	13.09	0	00:10	5.52	0.09	0.21
C65-65A	CONDUIT	154.76	0	00:15	5.54	0.56	0.54
C65A-108	CONDUIT	110.57	0	00:40	2.58	0.03	0.11
C6-6A	CONDUIT	276.71	0	00:17	9.66	0.52	0.51
C67-67A	CONDUIT	191.56	0	00:24	10.03	0.47	0.48
C68-19	DUMMY	13.57	0	00:10			
C69-98	CONDUIT	100.58	0	01:30	1.73	0.05	0.15
C6A-5	CONDUIT	276.41	0	00:18	9.77	0.44	0.61
C70-70A	CONDUIT	100.63	0	00:19	8.17	0.27	0.35
C71-71A	CONDUIT	98.15	0	00:18	5.60	0.43	0.46
C72-72A	CONDUIT	94.90	0	00:17	10.79	0.43	0.46
C73-73A	CONDUIT	79.39	0	00:15	11.31	0.42	0.45
C74-74A	CONDUIT	12.81	0	00:10	5.44	0.29	0.37
C75-97	CONDUIT	5.28	0	02:20	0.71	0.00	0.02
C76A-42	CONDUIT	33.97	0	00:42	0.67	0.00	0.09
C77A-41	CHANNEL	2.71	0	01:10	3.55	0.00	0.04
C7-7A	CONDUIT	213.93	0	00:17	10.41	0.52	0.51
C78A-66	CONDUIT	51.55	0	00:43	2.08	0.01	0.06
C79-79A	CONDUIT	49.94	0	00:15	12.86	0.37	0.42
C7A-6	CONDUIT	261.42	0	00:17	9.99	0.42	0.60
C106A-67	CONDUIT	174.73	0	00:23	1.57	0.44	0.63
C82-109	DUMMY	4.44	0	00:10			
C83-109	DUMMY	0.29	0	01:05			
C84-109	DUMMY	1.84	0	01:05			
C85-85A	CONDUIT	13.59	0	00:10	5.85	0.47	0.48
C85A-92	CONDUIT	4.52	0	01:15	0.86	0.00	0.01
C86A-92	CONDUIT	5.63	0	01:15	1.10	0.00	0.01
C87-23	DUMMY	28.53	0	00:10			
C88-24	DUMMY	9.18	0	00:10			
C89-25	DUMMY	6.71	0	00:10			
C90-110	DUMMY	13.09	0	00:10			
C9-10	CONDUIT	36.57	0	00:17	0.33	1.00	1.00
C91-110	DUMMY	14.97	0	00:10			
C92-20	DUMMY	580.10	0	01:07			
C93-27	DUMMY	3.97	0	00:10			
C94-92	CONDUIT	51.51	0	01:54	1.68	0.01	0.08
C95-94	CONDUIT	52.10	0	01:31	1.15	0.03	0.12
C96-96A	CONDUIT	75.02	0	00:15	5.32	0.36	0.37
C97-81	CONDUIT	65.53	0	01:20	0.82	0.07	0.20
C98A-81	CONDUIT	220.46	0	02:28	1.60	0.16	0.34
C99-11	DUMMY	14.46	0	00:10			
C111A-7	CONDUIT	213.78	0	00:17	10.67	0.42	0.59
C111-111A	CONDUIT	213.83	0	00:16	10.49	0.55	0.54
C112-111	CONDUIT	160.67	0	00:17	21.16	0.47	0.48
C132A-12	CONDUIT	125.43	0	00:17	10.29	0.42	0.45
C131A-111	CONDUIT	20.74	0	00:15	6.34	0.07	0.18
C130A-137A	CONDUIT	16.92	0	00:12	6.59	0.54	0.52
C137A-132	CONDUIT	37.62	0	00:16	7.57	0.13	0.24
C126A-8	CONDUIT	40.66	0	00:40	7.93	0.14	0.25
PS2-127	CONDUIT	165.48	0	00:31	28.51	0.15	0.22
C127A-129A	CONDUIT	165.10	0	00:34	11.95	0.49	0.49
C128A-3	CONDUIT	266.46	0	00:37	3.01	0.07	0.22
C129A-128	CONDUIT	266.26	0	00:35	9.58	0.55	0.53
C134-133	CONDUIT	81.00	0	00:12	9.10	0.58	0.55
C135-134	CONDUIT	50.99	0	00:12	8.13	0.50	0.50
C113-23	CONDUIT	118.48	0	00:17	9.19	0.45	0.46
C114-113	CONDUIT	27.66	0	00:16	8.45	0.45	0.47
C115-113	CONDUIT	71.30	0	00:17	8.21	0.50	0.50
C117A-115	CONDUIT	34.26	0	00:16	7.07	0.11	0.23

C116A-115	CONDUIT	20.19	0	00:16	6.08	0.07	0.18
C118A-34	CONDUIT	96.68	0	00:19	9.58	0.32	0.39
C119A-118	CONDUIT	65.18	0	00:17	8.69	0.22	0.32
C120A-36	CONDUIT	181.86	0	00:24	11.03	0.16	0.27
C121A-120	CONDUIT	8.83	0	00:19	4.96	0.03	0.12
C122A-120	CONDUIT	77.85	0	00:22	9.32	0.26	0.35
C123A-38	CONDUIT	145.13	0	00:25	10.43	0.12	0.24
C124A-123	CONDUIT	66.20	0	00:22	8.99	0.22	0.32
C125A-123	CONDUIT	40.20	0	00:18	7.77	0.13	0.25
C136A-104	CONDUIT	19.05	0	01:13	0.76	0.01	0.07
C96A-95	CONDUIT	64.37	0	00:24	1.27	0.03	0.13
C38A-6	CONDUIT	94.49	0	01:25	0.90	0.75	0.80
C6-5	CONDUIT	252.21	0	05:04	1.75	0.16	0.34
C5-4	CONDUIT	280.32	0	04:59	1.90	0.17	0.35
C4-3	CONDUIT	306.80	0	01:14	1.95	0.18	0.37
C3-92	CONDUIT	462.81	0	01:27	3.84	0.12	0.29
C110-22	DUMMY	29.87	0	00:10			
C138-S138	DUMMY	201.18	0	00:15			
C139-5A	CONDUIT	16.13	0	00:11	1.35	0.00	0.03
C142-2	CONDUIT	15.11	0	00:15	4.75	0.51	0.51
C136-136A	CONDUIT	46.61	0	00:10	3.41	0.01	0.04
C77-77A	CONDUIT	4.54	0	00:10	4.43	0.28	0.36
C44-44A	CONDUIT	261.16	0	00:24	25.06	0.82	0.64
C44-44A_	CONDUIT	0.00	0	00:00	0.00	0.00	0.00
C44A_-44A	DUMMY	0.00	0	00:00			
C126-126A	CONDUIT	58.00	0	00:15	8.29	0.42	0.45
C127-127A	CONDUIT	165.48	0	00:31	9.50	0.41	0.44
C128-128A	CONDUIT	266.26	0	00:35	9.58	0.55	0.53
C129-129A	CONDUIT	56.63	0	00:16	8.46	0.56	0.53
C130-130A	CONDUIT	18.07	0	00:10	6.27	0.62	0.57
C137-137A	CONDUIT	28.62	0	00:10	7.01	0.61	0.56
C132-132A	CONDUIT	129.67	0	00:15	9.44	0.54	0.53
C131-131A	CONDUIT	24.96	0	00:10	6.81	0.53	0.52
C133-15	CONDUIT	115.92	0	00:16	9.46	0.53	0.52
C116-116A	CONDUIT	20.27	0	00:15	6.45	0.43	0.46
C117-117A	CONDUIT	34.76	0	00:15	7.37	0.49	0.49
C119-119A	CONDUIT	7.95	0	02:25	4.90	1.07	1.00
C118-118A	CONDUIT	98.57	0	00:16	9.55	0.53	0.52
C120-120A	CONDUIT	186.22	0	00:20	10.47	0.51	0.51
C121-121A	CONDUIT	11.99	0	00:11	5.70	0.41	0.45
C122-122A	CONDUIT	84.09	0	00:16	9.19	0.46	0.47
C124-124A	CONDUIT	73.38	0	00:15	8.89	0.53	0.52
C125-125A	CONDUIT	46.37	0	00:11	7.94	0.46	0.47
C123-123A	CONDUIT	151.68	0	00:20	9.82	0.52	0.52
C76-76A	CONDUIT	62.97	0	00:10	9.34	0.21	0.31
C43-43A	CONDUIT	258.12	0	00:27	9.27	0.54	0.53
C43A-42	CHANNEL	225.29	0	00:36	2.67	0.13	0.70
C145-145A	CONDUIT	19.35	0	00:20	10.09	0.36	0.41
C145A-103	CONDUIT	12.60	0	00:44	0.83	0.01	0.04
C73A-72	CONDUIT	77.83	0	00:17	1.70	0.03	0.11
C74A-72	CONDUIT	7.33	0	00:20	0.86	0.00	0.02
C72A-71	CONDUIT	94.79	0	00:18	2.99	0.01	0.08
C71A-70	CONDUIT	97.93	0	00:19	2.97	0.01	0.08
C70A-69	CONDUIT	98.80	0	00:22	2.56	0.02	0.10
C79A-144	CONDUIT	49.87	0	00:16	2.46	0.01	0.05
C144-144A	CONDUIT	57.34	0	00:16	6.69	0.47	0.48
C144A-78	CONDUIT	57.27	0	00:17	2.33	0.01	0.06
C78-78A	CONDUIT	63.84	0	00:17	8.11	0.42	0.44
C80A-106	CONDUIT	64.12	0	00:40	2.26	0.01	0.07
C106-106A	CONDUIT	176.14	0	00:20	17.43	0.44	0.46
C80-80A	CONDUIT	84.19	0	00:15	8.63	0.49	0.49
C146-146A	CONDUIT	10.31	0	00:11	5.45	0.64	0.58
C146A-114	CONDUIT	6.53	0	00:24	1.07	0.00	0.02
C98-98A	CONDUIT	113.02	0	01:28	1.16	0.09	0.24
C81-6	CONDUIT	226.76	0	05:15	0.30	0.18	0.36
C86-86A	CONDUIT	15.03	0	00:10	6.00	0.52	0.51
C67A-18	CONDUIT	191.33	0	00:25	1.33	0.88	0.94
C147-147A	CONDUIT	14.48	0	00:11	6.68	0.43	0.46
C147A-69	CONDUIT	10.19	0	00:17	1.24	0.00	0.02
C8A-PS2	CONDUIT	222.24	0	00:15	26.57	0.14	0.22
C8-8A	CONDUIT	213.03	0	00:15	10.53	0.55	0.53
C1-PS3	DUMMY	460.31	0	00:19			

PS4-2	CONDUIT	242.10	0	01:11	10.27	0.49	0.49
PS1-26A	CONDUIT	157.43	0	00:39	9.98	0.50	0.50
C10A-1	CONDUIT	175.30	0	02:58	11.21	0.21	0.28
S17W_out-S17E	CONDUIT	12.88	0	01:13	6.16	0.24	0.34
S17E_out-S17	CONDUIT	14.98	0	01:36	13.83	0.01	0.08
S17_out-16	CONDUIT	18.06	0	04:52	0.79	0.01	0.06
PS5-PS6	CONDUIT	63.87	0	01:19	8.06	0.59	0.57
PS6-PS7	CONDUIT	78.45	0	01:32	8.30	0.64	0.60
C12-12A	CONDUIT	190.21	0	01:01	16.19	0.26	0.33
C1	CONDUIT	61.62	0	00:11	5.88	0.08	0.19
C2	DUMMY	61.62	0	00:11			
C3	CONDUIT	0.00	0	00:00	0.00	0.00	0.00
C4	DUMMY	0.00	0	00:00			
C5	CONDUIT	0.00	0	00:00	0.00	0.00	0.00
C6	DUMMY	0.00	0	00:00			
C7	CONDUIT	0.00	0	00:00	0.00	0.00	0.00
C8	DUMMY	0.00	0	00:00			
C11	CONDUIT	0.00	0	00:00	0.00	0.00	0.00
C12	DUMMY	0.00	0	00:00			
C14	DUMMY	0.00	0	00:00			
C15	CONDUIT	0.00	0	00:00	0.00	0.00	0.00
C16	DUMMY	0.00	0	00:00			
C17	CONDUIT	0.00	0	00:00	0.00	0.00	0.00
C19	CONDUIT	0.00	0	00:00	0.00	0.00	0.00
C20	DUMMY	0.00	0	00:00			
C27	CONDUIT	0.00	0	00:00	0.00	0.00	0.00
C28	DUMMY	0.00	0	00:00			
C29	CONDUIT	0.00	0	00:00	0.00	0.00	0.00
C30	DUMMY	0.00	0	00:00			
C31	CONDUIT	0.00	0	00:00	0.00	0.00	0.00
C32	DUMMY	0.00	0	00:00			
C35	CONDUIT	0.00	0	00:00	0.00	0.00	0.00
C36	DUMMY	0.00	0	00:00			
C37	CONDUIT	0.00	0	00:00	0.00	0.00	0.00
C38	DUMMY	0.00	0	00:00			
C39	CONDUIT	0.00	0	00:00	0.00	0.00	0.00
C40	DUMMY	0.00	0	00:00			
C41	CONDUIT	0.00	0	00:00	0.00	0.00	0.00
C42	DUMMY	0.00	0	00:00			
C43	CONDUIT	0.00	0	00:00	0.00	0.00	0.00
C44	DUMMY	0.00	0	00:00			
C45	CONDUIT	0.00	0	00:00	0.00	0.00	0.00
C46	DUMMY	0.00	0	00:00			
C47	CONDUIT	0.00	0	00:00	0.00	0.00	0.00
C48	DUMMY	0.00	0	00:00			
C49	CONDUIT	0.00	0	00:00	0.00	0.00	0.00
C50	DUMMY	0.00	0	00:00			
C51	CONDUIT	0.00	0	00:00	0.00	0.00	0.00
C52	DUMMY	0.00	0	00:00			
C53	CONDUIT	0.00	0	00:00	0.00	0.00	0.00
C54	DUMMY	0.00	0	00:00			
C55	CONDUIT	0.00	0	00:00	0.00	0.00	0.00
C56	DUMMY	0.00	0	00:00			
C57	CONDUIT	0.00	0	00:00	0.00	0.00	0.00
C58	DUMMY	0.00	0	00:00			
C59	CONDUIT	0.00	0	00:00	0.00	0.00	0.00
C60	DUMMY	0.00	0	00:00			
C61	CONDUIT	0.00	0	00:00	0.00	0.00	0.00
C62	DUMMY	0.00	0	00:00			
C63	CONDUIT	0.00	0	00:00	0.00	0.00	0.00
C64	DUMMY	0.00	0	00:00			
C65	CONDUIT	0.00	0	00:00	0.00	0.00	0.00
C66	DUMMY	0.00	0	00:00			
PS2_out	ORIFICE	165.48	0	00:31			
PS3_out	ORIFICE	245.75	0	01:15			
PS4_out	ORIFICE	242.10	0	01:11			
PS5_out	ORIFICE	63.87	0	01:19			
PS6_out	ORIFICE	78.45	0	01:32			
PS7_out	ORIFICE	191.31	0	00:51			
PS1_out	ORIFICE	157.43	0	00:39			
S17W-S17W_out	DUMMY	12.88	0	01:13			
S17E-S17E_out	DUMMY	14.98	0	01:36			

S17-17_out DUMMY 7.56 0 04:26

****
Conduit Surcharge Summary
****

Conduit	Hours Full Both Ends	Hours Full Upstream	Hours Full Dnstream	Hours Above Full Normal Flow	Hours Capacity Limited
C100-10	0.01	0.01	0.01	25.01	0.01
C10-10A	1.38	2.14	1.65	1.65	2.14
C101-9	0.01	0.01	0.01	25.01	0.01
C104-26	0.01	0.01	0.01	25.01	0.01
C105-110	0.01	0.01	0.01	25.01	0.01
C107-7	0.01	0.01	0.01	25.01	0.01
C108-16	0.01	0.01	0.01	25.01	0.01
C109-21	0.01	0.01	0.01	25.01	0.01
C12A-11	0.01	1.27	0.01	0.01	1.27
C102-8	0.01	0.01	0.01	25.01	0.01
C13-12	0.01	3.35	0.25	3.04	3.35
C61-S61	0.01	0.01	0.01	25.01	0.01
C18A-PS7	0.39	0.53	0.47	0.01	0.53
C66-17	0.01	0.01	0.01	25.01	0.01
C23-25	0.16	0.23	0.18	0.18	0.23
C30B-31	0.26	0.57	0.34	0.01	0.57
C3-1	1.00	1.29	1.15	0.01	1.29
C31A-32	0.61	0.86	0.70	0.70	0.86
C35-15	0.01	0.01	0.01	25.01	0.01
C40A-39	0.01	0.15	0.12	0.01	0.15
C41A-40	1.08	1.17	1.13	0.01	1.17
C46A-45	0.01	0.01	0.01	0.08	0.01
C48-47	0.01	0.01	0.01	0.12	0.01
C5-5A	0.01	0.01	0.01	0.02	0.01
C56-S56	0.01	0.01	0.01	25.01	0.01
C57-S57	0.01	0.01	0.01	25.01	0.01
C58-S58	0.01	0.01	0.01	25.01	0.01
C5A-1	0.01	0.01	0.01	0.07	0.01
C60-S60	0.01	0.01	0.01	25.01	0.01
C65-65A	0.01	0.01	0.01	0.13	0.01
C6-6A	0.01	0.01	0.01	0.06	0.01
C68-19	0.01	0.01	0.01	25.01	0.01
C82-109	0.01	0.01	0.01	25.01	0.01
C83-109	0.01	0.01	0.01	25.01	0.01
C84-109	0.01	0.01	0.01	25.01	0.01
C87-23	0.01	0.01	0.01	25.01	0.01
C88-24	0.01	0.01	0.01	25.01	0.01
C89-25	0.01	0.01	0.01	25.01	0.01
C90-110	0.01	0.01	0.01	25.01	0.01
C9-10	0.45	0.61	0.54	0.54	0.61
C91-110	0.01	0.01	0.01	25.01	0.01
C92-20	0.01	0.01	0.01	25.01	0.01
C93-27	0.01	0.01	0.01	25.01	0.01
C99-11	0.01	0.01	0.01	25.01	0.01
C129A-128	0.01	0.01	0.01	0.33	0.01
C38A-6	0.01	0.34	0.01	0.01	0.34
C110-22	0.01	0.01	0.01	25.01	0.01
C138-S138	0.01	0.01	0.01	25.01	0.01
C142-2	0.01	0.01	0.01	0.02	0.01
C44A_-44A	0.01	0.01	0.01	25.01	0.01
C128-128A	0.01	0.01	0.01	0.33	0.01
C119-119A	2.32	2.43	2.32	2.46	2.43
C1-PS3	0.01	0.01	0.01	25.01	0.01
C2	0.01	0.01	0.01	25.01	0.01
C4	0.01	0.01	0.01	25.01	0.01
C6	0.01	0.01	0.01	25.01	0.01
C8	0.01	0.01	0.01	25.01	0.01
C12	0.01	0.01	0.01	25.01	0.01
C14	0.01	0.01	0.01	25.01	0.01
C16	0.01	0.01	0.01	25.01	0.01

C20	0.01	0.01	0.01	25.01	0.01
C28	0.01	0.01	0.01	25.01	0.01
C30	0.01	0.01	0.01	25.01	0.01
C32	0.01	0.01	0.01	25.01	0.01
C36	0.01	0.01	0.01	25.01	0.01
C38	0.01	0.01	0.01	25.01	0.01
C40	0.01	0.01	0.01	25.01	0.01
C42	0.01	0.01	0.01	25.01	0.01
C44	0.01	0.01	0.01	25.01	0.01
C46	0.01	0.01	0.01	25.01	0.01
C48	0.01	0.01	0.01	25.01	0.01
C50	0.01	0.01	0.01	25.01	0.01
C52	0.01	0.01	0.01	25.01	0.01
C54	0.01	0.01	0.01	25.01	0.01
C56	0.01	0.01	0.01	25.01	0.01
C58	0.01	0.01	0.01	25.01	0.01
C60	0.01	0.01	0.01	25.01	0.01
C62	0.01	0.01	0.01	25.01	0.01
C64	0.01	0.01	0.01	25.01	0.01
C66	0.01	0.01	0.01	25.01	0.01

```
Analysis begun on:  Wed Sep 17 12:45:28 2008
Analysis ended on:  Wed Sep 17 12:45:30 2008
Total elapsed time: 00:00:02
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EPA STORM WATER MANAGEMENT MODEL - VERSION 5.0 (Build 5.0.013)
--------------------------------------------------------------

"City of Brookings, SD: 100-yr 24-hr, Future Conditions with Improvements"

****************
Analysis Options
****************
Flow Units ............... CFS
Infiltration Method ...... CURVE_NUMBER
Flow Routing Method ...... KINWAVE
Starting Date ............ JAN-01-2007 00:00:00
Ending Date .............. JAN-02-2007 01:00:00
Antecedent Dry Days ...... 0.0
Report Time Step ......... 00:05:00
Wet Time Step ............ 00:05:00
Dry Time Step ............ 00:05:00
Routing Time Step ........ 30.00 sec


**************************        Volume         Depth
Runoff Quantity Continuity     acre-feet        inches
**************************     ---------       -------
Total Precipitation ......      4186.431         5.750
Evaporation Loss .........         0.000         0.000
Infiltration Loss ........      1422.010         1.953
Surface Runoff ...........      2598.768         3.569
Final Surface Storage ....       182.042         0.250
Continuity Error (%) .....        -0.391


**************************        Volume        Volume
Flow Routing Continuity        acre-feet      Mgallons
**************************     ---------     ---------
Dry Weather Inflow .......         0.000         0.000
Wet Weather Inflow .......      2597.604       846.468
Groundwater Inflow .......         0.000         0.000
RDII Inflow ..............         0.000         0.000
External Inflow ..........       202.464        65.976
External Outflow .........      2488.565       810.936
Internal Outflow .........        18.919         6.165
Evaporation Loss .........         0.000         0.000
Initial Stored Volume ....         0.000         0.000
Final Stored Volume ......       421.431       137.330
Continuity Error (%) .....        -4.602


*********************************
Highest Flow Instability Indexes
*********************************
Link C42-41 (3)
Link C41-41A (3)
Link C43A-42 (3)
Link C40A-39 (2)
Link C41A-40 (2)


*************************
Routing Time Step Summary
*************************
Minimum Time Step           :    30.00 sec
Average Time Step           :    30.00 sec
Maximum Time Step           :    30.00 sec
Percent in Steady State     :     0.00
Average Iterations per Step :     1.06


***************************
Subcatchment Runoff Summary
***************************
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Subcatchment	Total Precip in	Total Runon in	Total Evap in	Total Infil in	Total Runoff in	Total Runoff Mgal	Peak Runoff CFS	Runoff Coeff
BAS_1	5.750	0.000	0.000	1.748	3.882	2.667	83.940	0.675
BAS_10	5.750	0.000	0.000	1.599	4.043	4.226	129.465	0.703
BAS_100	5.750	0.000	0.000	1.810	3.837	1.448	27.229	0.667
BAS_101	5.750	0.000	0.000	2.755	2.740	1.324	11.069	0.477
BAS_102	5.750	0.000	0.000	1.976	3.626	4.125	67.375	0.631
BAS_103	5.750	0.000	0.000	1.936	3.716	1.796	37.050	0.646
BAS_104	5.750	0.000	0.000	1.865	3.814	1.015	24.186	0.663
BAS_105	5.750	0.000	0.000	1.714	3.970	1.154	25.657	0.690
BAS_106	5.750	0.000	0.000	2.983	2.502	0.741	6.390	0.435
BAS_107	5.750	0.000	0.000	2.954	2.430	4.915	25.326	0.423
BAS_108	5.750	0.000	0.000	2.660	2.662	10.315	88.382	0.463
BAS_109	5.750	0.000	0.000	2.905	2.320	10.770	46.245	0.403
BAS_11	5.750	0.000	0.000	1.155	4.568	9.142	190.154	0.794
BAS_110	5.750	0.000	0.000	2.740	2.576	11.010	85.853	0.448
BAS_111	5.750	0.000	0.000	2.753	2.637	0.745	5.989	0.459
BAS_112	5.750	0.000	0.000	2.805	2.540	10.310	70.473	0.442
BAS_114	5.750	0.000	0.000	2.558	2.944	15.308	185.577	0.512
BAS_115	5.750	0.000	0.000	2.958	2.507	2.736	20.824	0.436
BAS_116	5.750	0.000	0.000	2.913	2.625	9.310	107.944	0.457
BAS_117	5.750	0.000	0.000	2.653	2.814	1.574	16.256	0.489
BAS_118	5.750	0.000	0.000	1.996	3.434	14.688	177.788	0.597
BAS_119	5.750	0.000	0.000	1.469	4.201	18.219	341.722	0.731
BAS_121	5.750	0.000	0.000	1.678	3.995	0.846	16.978	0.695
BAS_122	5.750	0.000	0.000	2.045	3.585	0.613	11.882	0.624
BAS_124	5.750	0.000	0.000	0.887	4.891	1.262	32.291	0.851
BAS_125	5.750	0.000	0.000	2.384	3.196	0.625	9.898	0.556
BAS_126	5.750	0.000	0.000	2.983	1.920	5.302	10.601	0.334
BAS_13*	5.750	0.000	0.000	0.751	4.967	10.224	344.125	0.864
BAS_14	5.750	0.000	0.000	2.225	3.308	2.210	30.676	0.575
BAS_15	5.750	0.000	0.000	1.730	3.925	10.625	196.728	0.683
BAS_16	5.750	0.000	0.000	1.506	4.154	10.625	195.234	0.722
BAS_18	5.750	0.000	0.000	1.457	4.229	2.021	39.304	0.736
BAS_19	5.750	0.000	0.000	1.207	3.988	0.758	28.075	0.694
BAS_2	5.750	0.000	0.000	1.262	4.374	3.860	109.956	0.761
BAS_20	5.750	0.000	0.000	1.810	3.831	1.561	28.306	0.666
BAS_21	5.750	0.000	0.000	1.043	3.988	5.035	207.552	0.693
BAS_22	5.750	0.000	0.000	2.927	2.524	0.521	3.639	0.439
BAS_23	5.750	0.000	0.000	1.814	3.763	7.755	122.037	0.654
BAS_24	5.750	0.000	0.000	1.839	3.841	0.375	8.820	0.668
BAS_25	5.750	0.000	0.000	0.289	5.540	0.466	18.945	0.964
BAS_26	5.750	0.000	0.000	0.687	5.062	3.120	69.265	0.880
BAS_27	5.750	0.000	0.000	2.572	2.950	1.754	21.494	0.513
BAS_28	5.750	0.000	0.000	1.920	3.735	1.075	22.499	0.650
BAS_29	5.750	0.000	0.000	0.510	5.280	2.236	66.713	0.918
BAS_3	5.750	0.000	0.000	2.596	2.954	3.674	68.505	0.514
BAS_30	5.750	0.000	0.000	0.510	5.305	0.562	21.903	0.923
BAS_31	5.750	0.000	0.000	0.883	4.864	5.825	125.890	0.846
BAS_32	5.750	0.000	0.000	2.276	3.219	4.580	58.874	0.560
BAS_33	5.750	0.000	0.000	1.168	4.558	4.802	101.000	0.793
BAS_34	5.750	0.000	0.000	2.448	3.119	0.356	5.262	0.542
BAS_35	5.750	0.000	0.000	1.917	3.694	5.266	86.736	0.642
BAS_36	5.750	0.000	0.000	1.431	4.257	3.711	72.308	0.740
BAS_37	5.750	0.000	0.000	2.954	2.341	10.763	41.242	0.407
BAS_38	5.750	0.000	0.000	2.929	2.457	2.269	11.871	0.427
BAS_39	5.750	0.000	0.000	2.857	2.498	4.118	23.022	0.434
BAS_4	5.750	0.000	0.000	1.757	3.803	2.871	42.959	0.661
BAS_40	5.750	0.000	0.000	2.817	2.563	1.607	10.690	0.446
BAS_41	5.750	0.000	0.000	2.900	2.561	0.939	6.874	0.445
BAS_42	5.750	0.000	0.000	2.895	2.605	0.821	7.518	0.453
BAS_43	5.750	0.000	0.000	2.673	2.651	5.384	45.816	0.461
BAS_44	5.750	0.000	0.000	2.013	3.527	7.239	106.734	0.613
BAS_45	5.750	0.000	0.000	2.310	3.221	3.673	51.732	0.560
BAS_46	5.750	0.000	0.000	2.019	3.543	12.671	192.126	0.616
BAS_47	5.750	0.000	0.000	1.755	3.839	8.651	140.466	0.668
BAS_48	5.750	0.000	0.000	1.503	4.134	17.535	302.496	0.719
BAS_49	5.750	0.000	0.000	0.671	5.102	4.281	109.929	0.887
BAS_5	5.750	0.000	0.000	1.584	4.002	2.815	75.868	0.696

BAS_50	5.750	0.000	0.000	0.614	5.111	11.018	362.475	0.889
BAS_51	5.750	0.000	0.000	0.986	4.670	30.385	463.569	0.812
BAS_52	5.750	0.000	0.000	1.614	4.042	1.493	27.321	0.703
BAS_53	5.750	0.000	0.000	1.767	3.848	7.794	131.823	0.669
BAS_54	5.750	0.000	0.000	1.533	4.152	5.186	100.453	0.722
BAS_55	5.750	0.000	0.000	1.191	4.551	0.803	18.426	0.792
BAS_56	5.750	0.000	0.000	1.135	4.606	1.563	34.251	0.801
BAS_57	5.750	0.000	0.000	2.007	3.619	0.678	12.670	0.629
BAS_58	5.750	0.000	0.000	2.868	2.510	2.808	14.797	0.436
BAS_59	5.750	0.000	0.000	2.889	2.537	2.356	14.521	0.441
BAS_6	5.750	0.000	0.000	1.876	3.748	1.160	37.586	0.652
BAS_60	5.750	0.000	0.000	2.675	2.851	0.108	1.111	0.496
BAS_61	5.750	0.000	0.000	2.915	2.578	0.140	1.243	0.448
BAS_62	5.750	0.000	0.000	2.915	2.554	0.319	2.462	0.444
BAS_63	5.750	0.000	0.000	2.604	2.813	3.071	31.366	0.489
BAS_64	5.750	0.000	0.000	2.574	2.947	1.320	16.123	0.513
BAS_65	5.750	0.000	0.000	2.245	3.094	47.661	530.532	0.538
BAS_66	5.750	0.000	0.000	2.494	3.102	0.455	6.486	0.539
BAS_67	5.750	0.000	0.000	1.976	3.651	4.838	90.032	0.635
BAS_68	5.750	0.000	0.000	1.319	4.363	7.642	144.564	0.759
BAS_69	5.750	0.000	0.000	1.098	4.609	17.697	344.197	0.802
BAS_7	5.750	0.000	0.000	1.550	4.116	3.040	106.593	0.716
BAS_70	5.750	0.000	0.000	1.869	3.468	33.750	445.396	0.603
BAS_71**	5.750	0.000	0.000	1.947	3.508	15.697	244.189	0.610
BAS_72**	5.750	0.000	0.000	1.979	3.473	8.637	132.823	0.604
BAS_73	5.750	0.000	0.000	1.574	3.936	14.034	175.573	0.685
BAS_74	5.750	0.000	0.000	2.395	2.973	12.102	133.718	0.517
BAS_75	5.750	0.000	0.000	0.935	4.822	1.191	26.951	0.839
BAS_76	5.750	0.000	0.000	2.437	3.180	0.604	10.281	0.553
BAS_77	5.750	0.000	0.000	2.760	2.710	3.076	25.109	0.471
BAS_78	5.750	0.000	0.000	2.367	3.122	9.486	119.036	0.543
BAS_79	5.750	0.000	0.000	1.016	4.724	7.529	162.250	0.822
BAS_8	5.750	0.000	0.000	0.559	5.188	10.397	381.311	0.902
BAS_80	5.750	0.000	0.000	2.514	2.917	2.091	22.765	0.507
BAS_81	5.750	0.000	0.000	1.319	4.360	8.205	153.729	0.758
BAS_82	5.750	0.000	0.000	0.753	5.047	0.891	26.888	0.878
BAS_83	5.750	0.000	0.000	2.794	2.670	2.943	21.455	0.464
BAS_84	5.750	0.000	0.000	0.289	5.466	1.410	37.935	0.951
BAS_85	5.750	0.000	0.000	2.185	3.321	1.064	14.446	0.578
BAS_86	5.750	0.000	0.000	1.168	4.564	6.965	148.949	0.794
BAS_87	5.750	0.000	0.000	0.928	4.846	2.658	65.834	0.843
BAS_88	5.750	0.000	0.000	2.574	2.902	4.429	50.887	0.505
BAS_89	5.750	0.000	0.000	2.574	2.934	4.565	54.904	0.510
BAS_9	5.750	0.000	0.000	1.784	3.753	7.134	178.426	0.653
BAS_90	5.750	0.000	0.000	2.574	2.942	1.302	15.802	0.512
BAS_91	5.750	0.000	0.000	1.810	3.872	0.494	11.585	0.673
BAS_92	5.750	0.000	0.000	1.875	3.800	0.949	22.174	0.661
BAS_93	5.750	0.000	0.000	2.701	2.786	2.633	25.217	0.485
BAS_94	5.750	0.000	0.000	2.431	3.152	1.669	25.590	0.548
BAS_95	5.750	0.000	0.000	2.606	2.916	1.995	23.305	0.507
BAS_96	5.750	0.000	0.000	2.983	2.490	1.934	15.487	0.433
BAS_97	5.750	0.000	0.000	2.983	2.507	1.130	10.044	0.436
BAS_98	5.750	0.000	0.000	2.983	2.566	0.098	1.234	0.446
BAS_99	5.750	0.000	0.000	2.250	3.385	0.386	7.247	0.589
BAS_S17	5.750	0.000	0.000	0.745	5.042	3.382	92.868	0.877
BAS_S17E	5.750	0.000	0.000	1.108	4.605	1.313	26.142	0.801
BAS_S17W	5.750	0.000	0.000	1.108	4.622	3.075	64.972	0.804
BAS_120	5.750	0.000	0.000	0.510	5.285	2.483	72.856	0.919
BAS_12	5.750	0.000	0.000	1.793	3.786	24.570	387.394	0.658
BAS_146	5.750	0.000	0.000	1.865	3.807	1.406	31.744	0.662
BAS_153	5.750	0.000	0.000	1.866	3.802	2.323	50.834	0.661
BAS_147	5.750	0.000	0.000	2.201	3.412	2.372	43.721	0.593
BAS_148	5.750	0.000	0.000	1.702	3.934	9.786	172.503	0.684
BAS_129	5.750	0.000	0.000	1.865	3.754	4.200	70.586	0.653
BAS_128	5.750	0.000	0.000	1.662	4.006	3.622	69.414	0.697
BAS_127	5.750	0.000	0.000	1.864	3.823	0.021	0.576	0.665
BAS_142	5.750	0.000	0.000	1.216	4.508	5.202	109.266	0.784
BAS_143	5.750	0.000	0.000	1.567	4.146	0.867	21.900	0.721
BAS_145	5.750	0.000	0.000	2.012	3.583	6.578	106.281	0.623
BAS_144	5.750	0.000	0.000	1.619	4.023	10.355	184.502	0.700
BAS_149	5.750	0.000	0.000	1.533	4.154	3.587	70.546	0.722
BAS_150	5.750	0.000	0.000	2.149	3.443	3.441	58.480	0.599

BAS_151	5.750	0.000	0.000	2.179	3.391	6.234	97.638	0.590
BAS_123	5.750	0.000	0.000	0.916	4.816	5.322	108.679	0.838
BAS_133	5.750	0.000	0.000	1.723	3.881	4.026	66.638	0.675
BAS_132	5.750	0.000	0.000	1.894	3.723	2.234	37.362	0.647
BAS_131	5.750	0.000	0.000	1.332	4.389	1.954	42.294	0.763
BAS_130	5.750	0.000	0.000	2.167	3.418	3.109	51.379	0.594
BAS_134	5.750	0.000	0.000	1.232	4.493	3.135	66.113	0.781
BAS_135	5.750	0.000	0.000	1.464	4.247	5.881	131.102	0.739
BAS_138	5.750	0.000	0.000	1.809	3.765	10.488	163.709	0.655
BAS_137	5.750	0.000	0.000	1.665	4.037	0.877	21.767	0.702
BAS_136	5.750	0.000	0.000	1.750	3.822	12.526	192.473	0.665
BAS_141	5.750	0.000	0.000	1.765	3.906	4.126	87.216	0.679
BAS_140	5.750	0.000	0.000	1.748	3.856	8.492	140.593	0.671
BAS_139	5.750	0.000	0.000	1.822	3.774	6.537	106.823	0.656
BAS_152**	5.750	0.000	0.000	2.268	3.354	4.271	78.398	0.583
BAS_154	5.750	0.000	0.000	2.100	3.530	1.188	23.232	0.614
BAS_155	5.750	0.000	0.000	1.730	3.938	1.518	30.625	0.685
BAS_158	5.750	0.000	0.000	0.289	5.500	1.030	39.067	0.956
BAS_159	5.750	0.000	0.000	2.270	3.267	0.993	14.283	0.568
BAS_160	5.750	0.000	0.000	1.549	4.039	17.689	289.345	0.702
BAS_161	5.750	0.000	0.000	1.700	3.991	0.813	18.842	0.694
BAS_162	5.750	0.000	0.000	0.700	5.100	1.274	38.363	0.887
BAS_156*	5.750	0.000	0.000	1.510	4.184	1.908	38.722	0.728
BAS_157*	5.750	0.000	0.000	1.510	4.194	3.462	75.843	0.729
BAS_163	5.750	0.000	0.000	1.041	4.726	1.309	33.477	0.822
System	5.750	0.000	0.000	1.953	3.569	846.785	13185.741	0.621

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Node Depth Summary
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Node	Type	Average Depth Feet	Maximum Depth Feet	Maximum HGL Feet	Time of Max Occurrence days hr:min
N1	JUNCTION	8.22	10.97	1612.57	0 00:19
N10	JUNCTION	1.33	4.00	1604.70	0 00:18
N100	JUNCTION	0.00	0.00	1594.00	0 00:00
N101	JUNCTION	0.00	0.00	1608.00	0 00:00
N102	JUNCTION	0.00	0.00	1626.90	0 00:00
N103	JUNCTION	0.24	0.82	1634.42	0 00:15
N104	JUNCTION	0.13	0.55	1597.02	0 01:10
N105	JUNCTION	0.00	0.00	1611.55	0 00:00
N107	JUNCTION	0.26	1.21	1613.51	0 00:10
N108	JUNCTION	0.16	0.71	1616.37	0 00:40
N109	JUNCTION	0.00	0.00	1638.00	0 00:00
N11	JUNCTION	2.04	3.98	1597.98	0 01:23
N110	JUNCTION	0.00	0.00	1611.55	0 00:00
N13	JUNCTION	2.29	4.00	1604.70	0 01:21
N14	JUNCTION	0.59	2.66	1617.39	0 00:15
N14A	JUNCTION	0.59	2.66	1617.20	0 00:15
N15	JUNCTION	0.56	3.59	1623.81	0 00:14
N16	JUNCTION	1.00	1.92	1629.07	0 00:15
N17	JUNCTION	0.22	0.43	1606.43	0 00:10
N17A	JUNCTION	0.22	0.43	1605.23	0 00:10
N18	JUNCTION	1.55	2.50	1625.80	0 00:15
N18A	JUNCTION	1.70	3.81	1626.13	0 00:15
N19	JUNCTION	0.18	0.83	1604.83	0 00:10
N2	JUNCTION	1.47	2.95	1604.50	0 01:25
N20	JUNCTION	0.49	1.82	1614.54	0 00:39
N20A	JUNCTION	0.49	1.82	1614.29	0 00:39
N21A	JUNCTION	0.64	3.34	1630.12	0 00:10
N23	JUNCTION	0.90	3.14	1615.14	0 00:16
N24	JUNCTION	0.02	0.08	1632.08	0 01:05
N25	JUNCTION	0.92	4.18	1612.64	0 00:17
N26A	JUNCTION	0.79	3.42	1609.14	0 00:50
N28	JUNCTION	0.26	1.24	1609.24	0 00:10
N28A	JUNCTION	0.26	1.24	1608.92	0 00:10
N29	JUNCTION	0.80	3.51	1608.36	0 00:38

N30	JUNCTION	0.79	3.51	1607.90	0	00:38
N30A	JUNCTION	0.77	3.40	1606.10	0	00:36
N30B	JUNCTION	0.84	2.91	1605.05	0	00:36
N31	JUNCTION	0.87	3.69	1603.50	0	00:35
N31A	JUNCTION	1.43	4.30	1603.67	0	00:35
N32	JUNCTION	1.44	4.30	1601.54	0	00:39
N33	JUNCTION	0.98	4.13	1603.86	0	00:25
N33A	JUNCTION	0.83	3.39	1602.89	0	00:25
N34A	JUNCTION	0.98	4.53	1605.20	0	00:19
N35	JUNCTION	0.00	0.00	1643.80	0	00:00
N36	JUNCTION	1.08	4.09	1609.78	0	00:21
N37	JUNCTION	0.31	1.22	1646.18	0	00:15
N38	JUNCTION	0.94	3.90	1606.31	0	00:22
N38A	JUNCTION	0.90	3.91	1605.91	0	00:22
N39	JUNCTION	1.73	4.49	1615.38	0	00:54
N39A	JUNCTION	1.11	3.16	1611.41	0	00:55
N41	JUNCTION	0.90	3.19	1619.68	0	00:41
N42	JUNCTION	2.14	3.85	1625.28	0	00:36
N45	JUNCTION	1.05	3.21	1637.54	0	00:19
N46	JUNCTION	1.43	4.80	1641.74	0	00:15
N49	JUNCTION	0.33	1.74	1644.83	0	00:15
N5	JUNCTION	0.50	3.26	1617.06	0	00:18
N50	JUNCTION	0.05	0.35	1644.14	0	00:10
PS7_out	JUNCTION	1.22	2.60	1617.60	0	01:02
N52	JUNCTION	0.26	1.22	1616.42	0	00:10
N53	JUNCTION	0.24	1.07	1642.45	0	00:10
N53A	JUNCTION	0.24	1.07	1640.00	0	00:10
N55	JUNCTION	0.27	2.44	1630.76	0	00:10
N55A	JUNCTION	0.27	2.45	1630.45	0	00:10
N56	JUNCTION	0.05	0.34	1598.34	0	00:23
N57	JUNCTION	0.00	0.00	0.00	0	00:00
N58	JUNCTION	0.00	0.00	0.00	0	00:00
N59	JUNCTION	0.09	0.74	1602.04	0	00:20
N5A	JUNCTION	0.50	3.26	1616.51	0	00:18
N6	JUNCTION	0.50	3.29	1619.62	0	00:18
N60	JUNCTION	0.00	0.00	0.00	0	00:00
N61	JUNCTION	0.00	0.00	0.00	0	00:00
N62	JUNCTION	0.58	3.07	1629.23	0	00:15
N63	JUNCTION	0.33	1.82	1642.18	0	00:20
N64	JUNCTION	0.28	1.26	1608.19	0	00:10
N65A	JUNCTION	0.57	3.55	1639.70	0	00:19
N66	JUNCTION	0.08	0.43	1622.43	0	00:40
N67	JUNCTION	0.59	3.18	1624.88	0	00:35
N68	JUNCTION	0.00	0.00	1660.00	0	00:00
N69	JUNCTION	0.37	1.46	1627.64	0	00:20
N6A	JUNCTION	0.50	3.28	1619.28	0	00:18
N70	JUNCTION	0.71	2.55	1633.61	0	00:18
N71	JUNCTION	0.90	3.48	1638.18	0	00:17
N72	JUNCTION	0.90	3.48	1640.88	0	00:16
N73	JUNCTION	0.66	3.10	1642.80	0	00:15
N74	JUNCTION	0.59	1.48	1642.55	0	00:10
N75	JUNCTION	0.04	0.28	1656.28	0	00:15
N77	JUNCTION	0.51	1.48	1637.91	0	01:05
N78	JUNCTION	0.41	3.00	1650.09	0	00:21
N79	JUNCTION	0.42	2.42	1655.72	0	00:20
N7A	JUNCTION	0.55	3.35	1623.35	0	00:17
N80	JUNCTION	0.42	3.20	1652.48	0	00:15
N82	JUNCTION	0.00	0.00	1638.00	0	00:00
N83	JUNCTION	0.00	0.00	1638.00	0	00:00
N84	JUNCTION	0.00	0.00	1638.00	0	00:00
N85	JUNCTION	0.49	1.70	1645.38	0	00:10
N85A	JUNCTION	0.49	1.68	1645.09	0	00:10
N86	JUNCTION	0.44	1.83	1650.21	0	00:10
N87	JUNCTION	0.00	0.00	1599.00	0	00:00
N88	JUNCTION	0.00	0.00	1630.00	0	00:00
N89	JUNCTION	0.00	0.00	1618.00	0	00:00
N90	JUNCTION	0.00	0.00	1611.55	0	00:00
N91	JUNCTION	0.00	0.00	1611.55	0	00:00
N92	JUNCTION	1.08	2.20	1577.20	0	00:52
N93	JUNCTION	0.00	0.00	1630.00	0	00:00
N94	JUNCTION	0.26	0.94	1593.11	0	01:24
N95	JUNCTION	0.23	1.11	1600.24	0	00:21

N96	JUNCTION	0.41	2.08	1602.68	0	00:15
N97	JUNCTION	0.66	1.79	1604.92	0	00:15
N98	JUNCTION	0.61	1.65	1607.65	0	01:25
N99	JUNCTION	0.00	0.00	1596.00	0	00:00
N111A	JUNCTION	0.57	4.00	1627.09	0	00:15
N131	JUNCTION	0.49	2.28	1634.27	0	00:10
N112	JUNCTION	0.90	4.08	1637.79	0	00:16
N126	JUNCTION	0.60	3.02	1694.02	0	00:15
N127	JUNCTION	0.42	2.38	1637.89	0	00:41
N135	JUNCTION	0.73	3.15	1637.47	0	00:10
N113	JUNCTION	0.57	2.96	1618.50	0	00:16
N116	JUNCTION	0.47	2.02	1627.09	0	00:10
N117	JUNCTION	0.60	2.69	1626.87	0	00:15
N114	JUNCTION	0.55	2.13	1624.88	0	00:15
N115	JUNCTION	0.51	1.97	1622.34	0	00:16
N120	JUNCTION	0.86	4.18	1625.31	0	00:19
N121	JUNCTION	0.30	1.62	1637.71	0	00:10
N122	JUNCTION	0.88	3.67	1644.40	0	00:15
N125	JUNCTION	0.57	2.86	1640.61	0	00:10
N136	JUNCTION	0.07	0.38	1600.28	0	00:10
N96A	JUNCTION	0.41	2.07	1602.17	0	00:15
OUT6	JUNCTION	4.00	6.98	1605.21	0	03:55
OUT4	JUNCTION	1.64	3.35	1600.71	0	00:29
OUT3	JUNCTION	1.69	3.70	1600.80	0	00:37
OUT5	JUNCTION	1.62	4.08	1602.25	0	00:23
N138	JUNCTION	0.00	0.00	0.00	0	00:00
N139	JUNCTION	0.04	0.22	1614.53	0	00:10
N142	JUNCTION	0.21	1.55	1603.29	0	00:15
N136A	JUNCTION	0.12	0.65	1599.91	0	00:10
N77A	JUNCTION	0.51	1.48	1637.48	0	01:05
N44A_	JUNCTION	0.04	1.51	1626.29	0	00:26
N44A	JUNCTION	1.31	3.33	1628.11	0	00:19
N126A	JUNCTION	0.60	3.02	1693.74	0	00:15
N127A	JUNCTION	0.91	3.97	1639.19	0	00:41
N128A	JUNCTION	0.61	3.45	1621.50	0	00:37
N137A	JUNCTION	0.48	2.58	1656.37	0	00:10
N132A	JUNCTION	0.91	4.15	1646.83	0	00:15
N131A	JUNCTION	0.48	2.27	1633.91	0	00:10
N116A	JUNCTION	0.47	2.02	1625.43	0	00:12
N117A	JUNCTION	0.60	2.68	1625.97	0	00:15
N118A	JUNCTION	0.76	4.31	1617.98	0	00:17
N119A	JUNCTION	0.90	2.75	1627.78	0	00:11
N120A	JUNCTION	1.09	4.18	1623.61	0	00:19
N121A	JUNCTION	0.30	1.57	1635.54	0	00:11
N122A	JUNCTION	0.87	3.65	1641.93	0	00:15
N123A	JUNCTION	0.93	3.63	1621.91	0	00:20
N125A	JUNCTION	0.56	2.80	1638.00	0	00:11
N124A	JUNCTION	0.80	3.84	1644.96	0	00:15
N43	JUNCTION	1.31	4.00	1626.87	0	00:28
N43A	JUNCTION	2.14	4.00	1626.74	0	00:28
N76A	JUNCTION	0.54	1.78	1633.63	0	00:10
N145	JUNCTION	0.22	1.58	1641.58	0	00:15
N145A	JUNCTION	0.22	1.58	1638.03	0	00:15
N73A	JUNCTION	0.65	3.09	1641.29	0	00:15
N74A	JUNCTION	0.59	1.47	1642.12	0	00:10
N72A	JUNCTION	0.89	3.48	1639.56	0	00:16
N71A	JUNCTION	0.90	3.47	1637.77	0	00:17
N70A	JUNCTION	0.71	2.55	1632.59	0	00:18
N144	JUNCTION	0.42	3.37	1652.76	0	00:20
N144A	JUNCTION	0.42	3.36	1652.09	0	00:21
N79A	JUNCTION	0.42	2.42	1653.91	0	00:20
N78A	JUNCTION	0.41	3.00	1649.35	0	00:21
N80A	JUNCTION	0.42	3.20	1650.64	0	00:15
N106	JUNCTION	0.57	3.17	1628.30	0	00:35
N106A	JUNCTION	0.57	3.17	1626.81	0	00:35
N146A	JUNCTION	0.31	2.00	1637.75	0	00:11
N81	JUNCTION	3.91	8.84	1610.31	0	01:47
N98A	JUNCTION	1.15	2.99	1608.89	0	00:59
N86A	JUNCTION	0.44	1.80	1649.20	0	00:10
N67A	JUNCTION	0.59	3.18	1624.57	0	00:35
N147A	JUNCTION	0.58	1.57	1634.78	0	00:10
N147	JUNCTION	0.58	1.61	1637.12	0	00:10

PS2_out	JUNCTION	0.22	1.21	1638.72	0	00:41
N8A	JUNCTION	0.41	3.34	1645.67	0	00:14
PS3_out	JUNCTION	0.89	3.25	1604.25	0	01:20
PS4_out	JUNCTION	1.47	2.95	1604.95	0	01:25
PS1_out	JUNCTION	0.79	3.42	1609.42	0	00:50
N10A	JUNCTION	1.32	3.90	1600.28	0	01:18
S17E_out	JUNCTION	0.85	1.05	1641.05	0	01:09
S17_out	JUNCTION	0.48	0.50	1630.50	0	02:32
PS5_out	JUNCTION	1.30	2.93	1618.93	0	01:47
PS6_out	JUNCTION	1.45	3.11	1618.61	0	00:43
N4	JUNCTION	0.18	2.69	1627.72	0	00:11
N22	JUNCTION	0.00	0.00	1606.00	0	00:00
N26	JUNCTION	0.07	0.72	1640.72	0	00:32
N51	JUNCTION	0.00	0.35	1623.65	0	00:17
N54	JUNCTION	0.02	0.91	1602.51	0	00:41
N140	JUNCTION	0.00	0.19	1600.86	0	00:19
N141	JUNCTION	0.01	2.11	1639.05	0	00:18
N143	JUNCTION	0.00	0.47	1634.80	0	00:18
N148	JUNCTION	0.00	0.55	1638.09	0	00:17
N149	JUNCTION	0.00	0.18	1614.14	0	00:43
N150	JUNCTION	0.00	0.00	1613.67	0	00:00
N151	JUNCTION	0.00	0.05	1610.94	0	00:44
N152	JUNCTION	0.00	0.85	1637.00	0	00:16
N153	JUNCTION	0.00	0.00	1631.85	0	00:00
N154	JUNCTION	0.00	0.52	1642.85	0	00:15
N155	JUNCTION	0.01	0.92	1601.62	0	00:18
N156	JUNCTION	0.00	0.42	1623.51	0	00:16
N157	JUNCTION	0.00	0.16	1642.84	0	00:15
N158	JUNCTION	0.00	0.51	1658.44	0	00:10
N159	JUNCTION	0.00	0.54	1654.33	0	00:10
N160	JUNCTION	0.01	0.55	1620.57	0	00:15
N161	JUNCTION	0.00	0.67	1618.72	0	00:38
N162	JUNCTION	0.00	0.81	1629.10	0	00:13
N163	JUNCTION	0.00	0.38	1614.05	0	00:16
N164	JUNCTION	0.00	0.21	1620.43	0	00:14
N165	JUNCTION	0.00	0.00	1641.12	0	00:00
N166	JUNCTION	0.00	0.21	1618.49	0	00:20
N167	JUNCTION	1.00	1.00	1619.71	0	00:00
N168	JUNCTION	0.00	0.34	1654.13	0	00:11
N169	JUNCTION	0.00	0.49	1636.24	0	00:11
N170	JUNCTION	0.00	0.11	1620.11	0	00:17
N171	JUNCTION	0.00	0.29	1627.07	0	00:10
N172	JUNCTION	0.00	0.05	1597.22	0	01:12
N173	JUNCTION	0.00	0.00	1594.00	0	00:00
OUT1	OUTFALL	0.89	3.06	1599.08	0	01:17
OUT2	OUTFALL	1.48	3.26	1596.86	0	01:22
OUT7	OUTFALL	0.00	0.00	1612.30	0	00:00
OUT8	OUTFALL	0.00	0.00	1626.90	0	00:00
OUT9	OUTFALL	0.00	0.00	1608.00	0	00:00
OUT10	OUTFALL	0.00	0.00	1594.00	0	00:00
OUT11	OUTFALL	0.00	0.00	1596.00	0	00:00
OUT12	OUTFALL	0.09	0.73	1601.11	0	00:20
OUT13	OUTFALL	0.58	3.06	1628.22	0	00:15
OUT14	OUTFALL	0.33	1.82	1641.18	0	00:20
OUT15	OUTFALL	0.00	0.00	1643.80	0	00:00
OUT16	OUTFALL	0.00	0.00	1615.66	0	00:00
OUT17	OUTFALL	0.00	0.00	1622.00	0	00:00
OUT18	OUTFALL	0.46	1.95	1622.52	0	00:36
OUT19	OUTFALL	0.00	0.00	1660.00	0	00:00
OUT20	OUTFALL	0.00	0.00	1575.00	0	00:00
OUT21	OUTFALL	0.00	0.00	1638.00	0	00:00
OUT22	OUTFALL	0.00	0.00	1611.55	0	00:00
OUT23	OUTFALL	0.00	0.00	1599.00	0	00:00
OUT24	OUTFALL	0.00	0.00	1630.00	0	00:00
OUT25	OUTFALL	0.00	0.00	1618.00	0	00:00
OUT27	OUTFALL	0.00	0.00	1630.00	0	00:00
OUT26	OUTFALL	0.00	0.00	1596.47	0	00:00
OUT28	OUTFALL	0.27	1.25	1607.21	0	00:10
N44	DIVIDER	1.07	3.33	1630.87	0	00:19
N119	DIVIDER	0.91	2.72	1628.61	0	00:10
N27	DIVIDER	0.40	2.00	1612.00	0	00:10
S17W_out	DIVIDER	2.32	3.00	1644.00	0	00:18

N16A	DIVIDER	1.55	2.50	1627.10	0	00:14
N3	DIVIDER	1.26	4.00	1618.87	0	00:33
N34	DIVIDER	0.72	3.50	1608.89	0	00:17
N47	DIVIDER	1.43	4.80	1642.34	0	00:15
N46A	DIVIDER	0.46	3.00	1639.17	0	00:17
N48	DIVIDER	0.53	3.50	1645.26	0	00:13
N41A	DIVIDER	1.56	4.00	1620.26	0	00:39
N40	DIVIDER	1.56	4.00	1617.96	0	00:41
N40A	DIVIDER	1.74	4.50	1618.17	0	00:43
N65	DIVIDER	0.57	4.00	1640.60	0	00:13
N76	DIVIDER	0.54	1.77	1635.47	0	00:10
N8	DIVIDER	0.58	4.00	1646.74	0	00:14
N111	DIVIDER	0.73	4.00	1627.32	0	00:14
N9	DIVIDER	0.79	4.00	1604.75	0	00:13
N132	DIVIDER	0.55	4.00	1646.95	0	00:14
N130	DIVIDER	0.39	2.50	1660.77	0	00:10
N137	DIVIDER	0.47	3.00	1657.32	0	00:10
N128	DIVIDER	0.61	4.00	1622.71	0	00:34
N129	DIVIDER	0.74	4.00	1630.12	0	00:10
N134	DIVIDER	0.87	4.50	1635.62	0	00:10
N118	DIVIDER	0.77	5.00	1620.19	0	00:14
N133	DIVIDER	0.87	4.00	1632.29	0	00:12
N124	DIVIDER	0.81	4.50	1647.73	0	00:15
N123	DIVIDER	0.75	4.00	1626.14	0	00:17
N129A	DIVIDER	0.92	4.00	1624.02	0	00:33
N130A	DIVIDER	0.38	2.50	1660.43	0	00:10
N146	DIVIDER	0.32	2.00	1638.99	0	00:09
N7	DIVIDER	0.55	4.00	1624.89	0	00:16
N21	DIVIDER	0.65	4.00	1631.01	0	00:10
N12	DIVIDER	2.28	4.00	1602.00	0	01:11
N12A	DIVIDER	2.05	4.00	1601.17	0	01:11
S17W	STORAGE	4.92	8.00	1649.00	0	00:27
S17E	STORAGE	7.70	8.15	1648.15	0	01:09
S17	STORAGE	6.81	7.00	1637.00	0	02:31
S56	STORAGE	1.22	1.44	1.44	1	01:00
S57	STORAGE	1.16	1.41	1.41	1	01:00
S60	STORAGE	1.30	1.47	1.47	1	01:00
S58	STORAGE	1.19	1.42	1.42	1	01:00
S61	STORAGE	1.57	1.88	1.88	1	01:00
S138	STORAGE	1.57	1.82	1.82	1	01:00
PS2	STORAGE	0.46	3.98	1641.49	0	00:40
PS3	STORAGE	0.85	3.99	1604.99	0	01:20
PS4	STORAGE	1.40	3.99	1605.99	0	01:24
PS5	STORAGE	1.20	3.99	1619.99	0	01:47
PS6	STORAGE	1.28	4.00	1619.50	0	00:43
PS7	STORAGE	1.33	4.00	1619.00	0	01:02
PS1	STORAGE	0.71	4.76	1610.76	0	00:50

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Node InFlow Summary
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Node	Type	Maximum Lateral Inflow CFS	Maximum Total Inflow CFS	Time of Max Occurrence days	hr:min	Lateral Inflow Volume Mgal	Total Inflow Volume Mgal
N1	JUNCTION	228.49	1087.12	0	00:23	9.394	80.187
N10	JUNCTION	0.00	713.70	0	01:09	0.000	86.171
N100	JUNCTION	25.66	25.66	0	00:10	1.153	1.153
N101	JUNCTION	67.38	67.38	0	00:10	4.123	4.123
N102	JUNCTION	11.07	11.07	0	01:05	1.324	1.324
N103	JUNCTION	133.72	134.94	0	00:15	12.093	13.209
N104	JUNCTION	344.20	352.72	0	00:15	17.693	22.310
N105	JUNCTION	15.49	15.49	0	01:05	1.933	1.932
N107	JUNCTION	0.00	46.86	0	00:18	0.000	3.260
N108	JUNCTION	148.95	357.45	0	00:35	6.964	24.866
N109	JUNCTION	0.00	16.32	0	01:05	0.000	1.613
N11	JUNCTION	91.84	783.97	0	01:22	11.745	176.876
N110	JUNCTION	0.00	50.33	0	00:10	0.000	5.513

N13	JUNCTION	0.00	518.22	0	01:21	0.000	127.068
N14	JUNCTION	131.82	131.82	0	00:15	7.791	7.791
N14A	JUNCTION	0.00	131.50	0	00:15	0.000	7.790
N15	JUNCTION	196.73	437.32	0	00:14	10.622	23.890
N16	JUNCTION	195.23	205.14	0	00:15	10.621	53.467
N17	JUNCTION	46.25	46.25	0	00:10	10.759	11.502
N17A	JUNCTION	0.00	45.67	0	00:10	0.000	11.502
N18	JUNCTION	39.30	239.49	0	00:17	2.021	55.433
N18A	JUNCTION	234.78	471.10	0	00:15	6.594	62.020
N19	JUNCTION	16.98	16.98	0	00:10	0.846	0.846
N2	JUNCTION	0.00	513.15	0	01:24	0.000	126.228
N20	JUNCTION	25.33	94.95	0	00:39	4.912	10.201
N20A	JUNCTION	0.00	94.95	0	00:39	0.000	10.200
N21A	JUNCTION	0.00	102.17	0	00:10	0.000	5.185
N23	JUNCTION	122.04	345.00	0	00:16	7.751	21.162
N24	JUNCTION	6.39	6.39	0	01:05	0.740	0.740
N25	JUNCTION	18.95	362.74	0	00:17	0.466	21.624
N26A	JUNCTION	0.00	279.05	0	00:50	0.000	26.754
N28	JUNCTION	22.50	22.50	0	00:10	1.075	1.075
N28A	JUNCTION	0.00	22.43	0	00:10	0.000	1.074
N29	JUNCTION	66.71	315.14	0	00:38	2.236	28.987
N30	JUNCTION	0.00	330.18	0	00:35	0.000	30.060
N30A	JUNCTION	21.90	341.76	0	00:35	0.562	30.617
N30B	JUNCTION	0.00	341.70	0	00:36	0.000	30.615
N31	JUNCTION	125.89	455.12	0	00:35	5.824	36.430
N31A	JUNCTION	0.00	454.87	0	00:35	0.000	36.424
N32	JUNCTION	72.99	495.59	0	00:37	5.898	42.313
N33	JUNCTION	1.24	264.46	0	00:25	0.140	14.362
N33A	JUNCTION	0.00	264.46	0	00:25	0.000	14.362
N34A	JUNCTION	5.26	324.46	0	00:19	0.356	14.171
N35	JUNCTION	65.83	65.83	0	00:20	2.658	2.658
N36	JUNCTION	86.74	423.47	0	00:21	5.264	30.632
N37	JUNCTION	27.32	27.32	0	00:15	1.492	1.492
N38	JUNCTION	72.31	350.97	0	00:22	3.710	22.849
N38A	JUNCTION	0.00	351.10	0	00:22	0.000	22.846
N39	JUNCTION	41.24	601.75	0	00:55	10.753	79.164
N39A	JUNCTION	0.00	601.75	0	00:55	0.000	79.161
N41	JUNCTION	20.22	563.11	0	00:41	3.873	66.285
N42	JUNCTION	68.84	549.28	0	00:36	9.494	60.736
N45	JUNCTION	117.56	565.05	0	00:19	7.914	35.276
N46	JUNCTION	51.73	443.64	0	00:18	3.671	27.359
N49	JUNCTION	192.13	209.86	0	00:15	12.666	13.468
N5	JUNCTION	75.87	623.14	0	00:18	2.814	32.240
N50	JUNCTION	18.43	18.43	0	00:10	0.803	0.803
PS7_out	JUNCTION	1.71	464.91	0	01:02	1.152	103.632
N52	JUNCTION	37.05	37.05	0	00:10	1.795	1.795
N53	JUNCTION	27.23	27.23	0	00:10	1.448	1.448
N53A	JUNCTION	0.00	27.19	0	00:10	0.000	1.448
N55	JUNCTION	129.47	129.47	0	00:10	4.225	4.225
N55A	JUNCTION	0.00	130.15	0	00:10	0.000	4.225
N56	JUNCTION	185.58	204.69	0	00:19	15.300	19.661
N57	JUNCTION	20.82	20.82	0	01:05	2.735	2.735
N58	JUNCTION	118.98	118.98	0	01:05	10.879	10.879
N59	JUNCTION	72.86	72.86	0	00:20	2.482	2.482
N5A	JUNCTION	0.00	622.71	0	00:18	0.000	32.237
N6	JUNCTION	37.59	534.50	0	00:18	1.160	27.915
N60	JUNCTION	341.72	341.72	0	00:15	18.214	18.213
N61	JUNCTION	177.79	177.79	0	00:15	14.679	14.678
N62	JUNCTION	190.15	190.15	0	00:15	9.140	9.140
N63	JUNCTION	32.29	32.29	0	00:20	1.262	1.262
N64	JUNCTION	23.23	23.23	0	00:10	1.188	1.188
N65A	JUNCTION	0.00	312.62	0	00:19	0.000	17.545
N66	JUNCTION	362.48	373.25	0	00:20	11.016	17.571
N67	JUNCTION	37.94	400.94	0	00:35	1.410	26.815
N68	JUNCTION	26.89	26.89	0	00:20	0.891	0.891
N69	JUNCTION	175.57	387.34	0	00:20	14.026	31.537
N6A	JUNCTION	0.00	531.63	0	00:18	0.000	27.914
N70	JUNCTION	10.28	196.14	0	00:18	0.604	14.450
N71	JUNCTION	9.90	189.68	0	00:17	0.625	13.857
N72	JUNCTION	22.76	182.97	0	00:16	2.090	13.239
N73	JUNCTION	153.73	153.73	0	00:15	8.202	8.202
N74	JUNCTION	21.45	21.45	0	00:10	2.941	2.941

N75	JUNCTION	26.95	26.95	0	00:15	1.191	1.191
N77	JUNCTION	14.39	14.39	0	01:05	1.758	1.758
N78	JUNCTION	14.28	130.71	0	00:21	0.994	6.336
N79	JUNCTION	109.93	109.93	0	00:20	4.280	4.280
N7A	JUNCTION	106.59	516.14	0	00:17	3.039	26.762
N80	JUNCTION	162.25	162.25	0	00:15	7.528	7.528
N82	JUNCTION	7.25	7.25	0	00:10	0.386	0.386
N83	JUNCTION	1.23	1.23	0	01:05	0.098	0.098
N84	JUNCTION	10.04	10.04	0	01:05	1.130	1.129
N85	JUNCTION	23.31	23.31	0	00:10	1.995	1.994
N85A	JUNCTION	0.00	23.04	0	00:10	0.000	1.994
N86	JUNCTION	25.59	25.59	0	00:10	1.668	1.668
N87	JUNCTION	50.89	50.89	0	00:10	4.427	4.426
N88	JUNCTION	15.80	15.80	0	00:10	1.301	1.301
N89	JUNCTION	11.58	11.58	0	00:10	0.494	0.494
N90	JUNCTION	22.17	22.17	0	00:10	0.949	0.949
N91	JUNCTION	25.22	25.22	0	00:10	2.632	2.631
N92	JUNCTION	571.53	1691.48	0	00:55	52.189	373.407
N93	JUNCTION	6.49	6.49	0	00:10	0.455	0.455
N94	JUNCTION	10.60	150.94	0	01:24	5.294	19.007
N95	JUNCTION	90.03	188.49	0	00:21	4.837	12.532
N96	JUNCTION	144.56	144.56	0	00:15	7.639	7.639
N97	JUNCTION	244.19	244.19	0	00:15	15.688	34.170
N98	JUNCTION	132.82	289.96	0	01:25	8.632	42.999
N99	JUNCTION	24.19	24.19	0	00:10	1.015	1.015
N111A	JUNCTION	0.00	415.10	0	00:16	0.000	23.708
N131	JUNCTION	43.72	43.72	0	00:10	2.371	2.371
N112	JUNCTION	70.59	307.71	0	00:16	4.198	17.708
N126	JUNCTION	109.27	109.27	0	00:15	5.201	5.201
N127	JUNCTION	0.00	262.25	0	00:41	0.000	16.545
N135	JUNCTION	97.64	97.64	0	00:10	6.231	6.231
N113	JUNCTION	42.29	229.44	0	00:16	1.954	13.414
N116	JUNCTION	37.36	37.36	0	00:10	2.233	2.233
N117	JUNCTION	66.64	66.64	0	00:15	4.024	4.024
N114	JUNCTION	51.38	51.77	0	00:15	3.108	3.938
N115	JUNCTION	38.36	139.46	0	00:16	1.274	7.526
N120	JUNCTION	192.47	363.68	0	00:19	12.520	25.401
N121	JUNCTION	21.77	21.77	0	00:10	0.877	0.877
N122	JUNCTION	163.71	163.71	0	00:15	10.483	10.483
N125	JUNCTION	87.22	87.22	0	00:10	4.125	4.125
N136	JUNCTION	78.40	78.40	0	00:10	4.271	4.271
N96A	JUNCTION	0.00	143.98	0	00:15	0.000	7.639
OUT6	JUNCTION	1.11	735.98	0	03:23	0.108	212.647
OUT4	JUNCTION	0.00	881.05	0	00:45	0.000	257.173
OUT3	JUNCTION	2.46	1360.33	0	00:44	0.319	299.641
OUT5	JUNCTION	0.00	817.80	0	03:19	0.000	243.221
N138	JUNCTION	387.39	387.39	0	00:15	24.559	24.559
N139	JUNCTION	30.62	30.62	0	00:10	1.518	1.518
N142	JUNCTION	28.08	28.08	0	00:15	0.758	0.758
N136A	JUNCTION	0.00	77.74	0	00:10	0.000	4.270
N77A	JUNCTION	0.00	14.35	0	01:05	0.000	1.758
N44A_	JUNCTION	0.00	144.72	0	00:26	0.000	1.874
N44A	JUNCTION	0.00	464.36	0	00:26	0.000	41.524
N126A	JUNCTION	0.00	109.16	0	00:15	0.000	5.200
N127A	JUNCTION	0.00	262.25	0	00:41	0.000	16.544
N128A	JUNCTION	0.00	526.04	0	00:37	0.000	34.778
N137A	JUNCTION	0.00	81.39	0	00:11	0.000	3.731
N132A	JUNCTION	0.00	247.03	0	00:15	0.000	13.513
N131A	JUNCTION	0.00	43.40	0	00:10	0.000	2.371
N116A	JUNCTION	0.00	37.29	0	00:12	0.000	2.232
N117A	JUNCTION	0.00	66.35	0	00:15	0.000	4.023
N118A	JUNCTION	0.00	193.65	0	00:17	0.000	9.017
N119A	JUNCTION	0.00	128.67	0	00:11	0.000	5.882
N120A	JUNCTION	0.00	363.55	0	00:19	0.000	25.397
N121A	JUNCTION	0.00	20.93	0	00:11	0.000	0.877
N122A	JUNCTION	0.00	162.31	0	00:15	0.000	10.479
N123A	JUNCTION	0.00	329.58	0	00:20	0.000	19.161
N125A	JUNCTION	0.00	84.81	0	00:11	0.000	4.124
N124A	JUNCTION	0.00	143.83	0	00:15	0.000	8.485
N43	JUNCTION	0.00	461.67	0	00:28	0.000	41.498
N43A	JUNCTION	0.00	461.67	0	00:28	0.000	41.496
N76A	JUNCTION	0.00	119.66	0	00:10	0.000	9.478

N145	JUNCTION	39.07	39.07	0	00:15	1.032	1.032
N145A	JUNCTION	0.00	39.08	0	00:15	0.000	1.032
N73A	JUNCTION	0.00	153.07	0	00:15	0.000	8.200
N74A	JUNCTION	0.00	21.29	0	00:10	0.000	2.940
N72A	JUNCTION	0.00	183.00	0	00:16	0.000	13.236
N71A	JUNCTION	0.00	189.30	0	00:17	0.000	13.852
N70A	JUNCTION	0.00	196.09	0	00:18	0.000	14.445
N144	JUNCTION	14.45	121.20	0	00:20	1.064	5.343
N144A	JUNCTION	0.00	121.05	0	00:21	0.000	5.343
N79A	JUNCTION	0.00	109.65	0	00:20	0.000	4.280
N78A	JUNCTION	0.00	130.63	0	00:21	0.000	6.336
N80A	JUNCTION	0.00	161.86	0	00:15	0.000	7.528
N106	JUNCTION	289.35	368.99	0	00:35	17.697	25.411
N106A	JUNCTION	0.00	368.88	0	00:35	0.000	25.410
N146A	JUNCTION	0.00	18.74	0	00:10	0.000	0.814
N81	JUNCTION	445.40	1017.51	0	01:47	33.727	190.106
N98A	JUNCTION	0.00	835.81	0	00:59	0.000	122.102
N86A	JUNCTION	0.00	25.23	0	00:10	0.000	1.668
N67A	JUNCTION	0.00	400.90	0	00:35	0.000	26.814
N147A	JUNCTION	0.00	24.30	0	00:10	0.000	3.073
N147	JUNCTION	25.11	25.11	0	00:10	3.074	3.074
PS2_out	JUNCTION	0.00	262.25	0	00:41	0.000	16.545
N8A	JUNCTION	21.90	442.72	0	00:15	0.867	16.614
PS3_out	JUNCTION	0.00	667.19	0	01:20	0.000	78.996
PS4_out	JUNCTION	14.85	510.85	0	01:25	10.000	125.477
PS1_out	JUNCTION	0.00	279.05	0	00:50	0.000	26.755
N10A	JUNCTION	70.47	743.87	0	01:17	10.301	96.377
S17E_out	JUNCTION	0.00	73.03	0	01:09	0.000	32.791
S17_out	JUNCTION	25.03	66.70	0	02:32	16.856	43.408
PS5_out	JUNCTION	0.00	106.21	0	01:47	0.000	25.991
PS6_out	JUNCTION	11.28	449.44	0	00:43	7.596	100.822
N4	JUNCTION	0.00	121.22	0	00:11	0.000	2.998
N22	JUNCTION	0.00	0.00	0	00:00	0.000	0.000
N26	JUNCTION	0.00	6.59	0	00:32	0.000	0.352
N51	JUNCTION	0.00	5.51	0	00:17	0.000	0.009
N54	JUNCTION	0.00	20.50	0	00:41	0.000	0.099
N140	JUNCTION	0.00	4.07	0	00:19	0.000	0.008
N141	JUNCTION	0.00	37.36	0	00:18	0.000	0.038
N143	JUNCTION	0.00	17.65	0	00:18	0.000	0.014
N148	JUNCTION	0.00	14.52	0	00:17	0.000	0.022
N149	JUNCTION	0.00	2.26	0	00:43	0.000	0.004
N150	JUNCTION	0.00	0.00	0	00:00	0.000	0.000
N151	JUNCTION	0.00	0.20	0	00:44	0.000	0.005
N152	JUNCTION	0.00	19.68	0	00:16	0.000	0.031
N153	JUNCTION	0.00	0.00	0	00:00	0.000	0.000
N154	JUNCTION	0.00	23.99	0	00:15	0.000	0.036
N155	JUNCTION	0.00	10.22	0	00:18	0.000	0.036
N156	JUNCTION	0.00	17.42	0	00:16	0.000	0.021
N157	JUNCTION	0.00	2.43	0	00:15	0.000	0.001
N158	JUNCTION	0.00	2.61	0	00:10	0.000	0.002
N159	JUNCTION	0.00	3.30	0	00:10	0.000	0.002
N160	JUNCTION	0.00	4.22	0	00:15	0.000	0.011
N161	JUNCTION	0.00	24.03	0	00:38	0.000	0.018
N162	JUNCTION	0.00	9.89	0	00:13	0.000	0.018
N163	JUNCTION	0.00	2.15	0	00:16	0.000	0.002
N164	JUNCTION	0.00	3.50	0	00:14	0.000	0.011
N165	JUNCTION	0.00	0.00	0	00:00	0.000	0.000
N166	JUNCTION	0.00	4.27	0	00:20	0.000	0.007
N167	JUNCTION	0.00	6.22	0	00:36	0.000	0.007
N168	JUNCTION	0.00	1.26	0	00:11	0.000	0.002
N169	JUNCTION	0.00	2.14	0	00:11	0.000	0.003
N170	JUNCTION	0.00	2.02	0	00:17	0.000	0.001
N171	JUNCTION	0.00	1.09	0	00:10	0.000	0.002
N172	JUNCTION	0.00	0.94	0	01:12	0.000	0.001
N173	JUNCTION	0.00	0.00	0	00:00	0.000	0.000
OUT1	OUTFALL	0.00	743.87	0	01:17	0.000	96.376
OUT2	OUTFALL	0.00	783.96	0	01:22	0.000	176.868
OUT7	OUTFALL	0.00	46.86	0	00:18	0.000	3.260
OUT8	OUTFALL	0.00	11.07	0	01:05	0.000	1.324
OUT9	OUTFALL	0.00	67.38	0	00:10	0.000	4.123
OUT10	OUTFALL	0.00	25.66	0	00:10	0.000	1.153
OUT11	OUTFALL	0.00	24.19	0	00:10	0.000	1.015

OUT12	OUTFALL	0.00	72.64	0	00:20	0.000	2.482
OUT13	OUTFALL	0.00	189.60	0	00:15	0.000	9.137
OUT14	OUTFALL	0.00	32.23	0	00:20	0.000	1.261
OUT15	OUTFALL	0.00	65.83	0	00:20	0.000	2.658
OUT16	OUTFALL	463.57	821.01	0	00:35	30.374	55.240
OUT17	OUTFALL	0.00	373.25	0	00:20	0.000	17.571
OUT18	OUTFALL	0.00	400.52	0	00:36	0.000	26.809
OUT19	OUTFALL	0.00	26.89	0	00:20	0.000	0.891
OUT20	OUTFALL	0.00	1691.48	0	00:55	0.000	373.407
OUT21	OUTFALL	0.00	16.32	0	01:05	0.000	1.613
OUT22	OUTFALL	0.00	50.33	0	00:10	0.000	5.513
OUT23	OUTFALL	0.00	50.89	0	00:10	0.000	4.426
OUT24	OUTFALL	0.00	15.80	0	00:10	0.000	1.301
OUT25	OUTFALL	0.00	11.58	0	00:10	0.000	0.494
OUT27	OUTFALL	0.00	6.49	0	00:10	0.000	0.455
OUT26	OUTFALL	0.00	352.72	0	00:15	0.000	22.310
OUT28	OUTFALL	0.00	22.84	0	00:10	0.000	1.188
N44	DIVIDER	46.16	464.38	0	00:26	5.874	41.524
N119	DIVIDER	131.10	131.10	0	00:10	5.881	5.880
N27	DIVIDER	30.31	30.31	0	00:10	2.129	2.129
S17W_out	DIVIDER	45.11	59.32	0	00:27	30.378	32.641
N16A	DIVIDER	0.00	204.60	0	00:15	0.000	53.462
N3	DIVIDER	68.51	549.94	0	00:38	3.673	38.465
N34	DIVIDER	101.00	283.33	0	00:17	4.802	13.810
N47	DIVIDER	34.25	427.31	0	00:17	1.563	23.690
N46A	DIVIDER	0.00	444.93	0	00:18	0.000	27.358
N48	DIVIDER	140.47	349.62	0	00:15	8.648	22.114
N41A	DIVIDER	0.00	563.09	0	00:41	0.000	66.283
N40	DIVIDER	14.52	572.55	0	00:43	2.354	68.587
N40A	DIVIDER	0.00	572.45	0	00:43	0.000	68.584
N65	DIVIDER	302.50	302.50	0	00:15	17.528	17.528
N76	DIVIDER	119.04	119.04	0	00:10	9.481	9.481
N8	DIVIDER	381.31	412.22	0	00:15	10.395	15.726
N111	DIVIDER	69.41	402.96	0	00:16	3.622	23.695
N9	DIVIDER	178.43	178.43	0	00:15	7.132	7.131
N132	DIVIDER	172.50	243.55	0	00:15	9.782	13.513
N130	DIVIDER	31.74	31.74	0	00:10	1.406	1.406
N137	DIVIDER	50.83	50.83	0	00:10	2.322	2.322
N128	DIVIDER	0.00	518.94	0	00:37	0.000	34.770
N129	DIVIDER	106.28	106.28	0	00:10	6.575	6.575
N134	DIVIDER	58.48	150.76	0	00:11	3.440	9.668
N118	DIVIDER	66.11	186.95	0	00:15	3.135	9.019
N133	DIVIDER	70.55	223.87	0	00:12	3.586	13.261
N124	DIVIDER	140.59	140.59	0	00:15	8.488	8.488
N123	DIVIDER	106.82	293.82	0	00:18	6.535	19.161
N129A	DIVIDER	216.02	492.04	0	00:35	11.661	34.770
N130A	DIVIDER	0.00	33.41	0	00:10	0.000	1.406
N146	DIVIDER	18.84	18.84	0	00:10	0.813	0.813
N7	DIVIDER	0.58	414.50	0	00:17	0.021	23.725
N21	DIVIDER	100.45	100.45	0	00:10	5.185	5.185
N12	DIVIDER	88.38	719.59	0	01:12	10.307	154.814
N12A	DIVIDER	0.00	724.43	0	01:15	0.000	154.812
S17W	STORAGE	64.97	64.97	0	00:15	3.074	3.074
S17E	STORAGE	26.14	83.18	0	00:35	1.313	33.978
S17	STORAGE	92.87	112.82	0	00:20	3.382	36.169
S56	STORAGE	0.00	204.69	0	00:19	0.000	19.661
S57	STORAGE	0.00	20.82	0	01:05	0.000	2.735
S60	STORAGE	0.00	341.72	0	00:15	0.000	18.213
S58	STORAGE	0.00	118.98	0	01:05	0.000	10.879
S61	STORAGE	0.00	177.79	0	00:15	0.000	14.678
S138	STORAGE	0.00	387.39	0	00:15	0.000	24.559
PS2	STORAGE	0.00	442.15	0	00:15	0.000	16.613
PS3	STORAGE	0.00	1087.12	0	00:23	0.000	80.187
PS4	STORAGE	413.20	678.81	0	00:35	13.683	117.198
PS5	STORAGE	32.43	466.14	0	00:15	2.729	26.617
PS6	STORAGE	118.27	614.04	0	00:18	5.935	93.817
PS7	STORAGE	38.72	474.71	0	00:43	1.908	102.720
PS1	STORAGE	69.26	450.31	0	00:17	3.120	26.867

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Node Surcharge Summary

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Surcharging occurs when water rises above the top of the highest conduit.

Node	Type	Hours Surcharged	Max. Height Above Crown Feet	Min. Depth Below Rim Feet
N10	JUNCTION	0.03	0.000	0.000
N100	JUNCTION	25.01	0.000	10.000
N101	JUNCTION	25.01	0.000	10.000
N102	JUNCTION	25.01	0.000	10.000
N105	JUNCTION	25.01	0.000	10.000
N109	JUNCTION	25.01	0.000	10.000
N110	JUNCTION	25.01	0.000	10.000
N35	JUNCTION	25.01	0.000	10.000
N57	JUNCTION	25.01	0.000	10.000
N58	JUNCTION	25.01	0.000	10.000
N60	JUNCTION	25.01	0.000	10.000
N61	JUNCTION	25.01	0.000	10.000
N68	JUNCTION	25.01	0.000	10.000
N82	JUNCTION	25.01	0.000	10.000
N83	JUNCTION	25.01	0.000	10.000
N84	JUNCTION	25.01	0.000	10.000
N87	JUNCTION	25.01	0.000	10.000
N88	JUNCTION	25.01	0.000	10.000
N89	JUNCTION	25.01	0.000	10.000
N90	JUNCTION	25.01	0.000	10.000
N91	JUNCTION	25.01	0.000	10.000
N93	JUNCTION	25.01	0.000	10.000
N99	JUNCTION	25.01	0.000	10.000
N138	JUNCTION	25.01	0.000	0.000
N27	DIVIDER	0.01	0.000	0.000
N3	DIVIDER	0.09	0.000	0.000
N48	DIVIDER	0.07	0.000	0.000
N41A	DIVIDER	0.07	0.000	0.000
N40	DIVIDER	0.04	0.000	0.000
N40A	DIVIDER	0.02	0.000	0.000
N65	DIVIDER	0.09	0.000	0.000
N9	DIVIDER	0.09	0.000	0.000
N130	DIVIDER	0.03	0.000	0.000
N137	DIVIDER	0.03	0.000	0.000
N128	DIVIDER	0.07	0.000	0.000
N129	DIVIDER	0.09	0.000	0.000
N134	DIVIDER	0.08	0.000	0.000
N124	DIVIDER	0.01	0.000	0.000
N130A	DIVIDER	0.02	0.000	0.000
N146	DIVIDER	0.08	0.000	0.000
N7	DIVIDER	0.03	0.000	0.000
N21	DIVIDER	0.09	0.000	0.000
N12	DIVIDER	0.07	0.000	0.000
N12A	DIVIDER	0.03	0.000	0.000
S17W	STORAGE	24.80	4.000	0.000
S17E	STORAGE	24.77	5.146	0.354
S17	STORAGE	23.68	1.000	0.000
S56	STORAGE	25.01	1.439	0.561
S57	STORAGE	25.01	1.412	0.588
S60	STORAGE	25.01	1.472	0.528
S58	STORAGE	25.01	1.419	0.581
S61	STORAGE	25.01	1.882	0.118
S138	STORAGE	25.01	1.819	0.181
PS6	STORAGE	0.04	0.000	0.000
PS7	STORAGE	0.07	0.000	0.000

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Node Flooding Summary
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Flooding refers to all water that overflows a node, whether it ponds or not.

	Total	Maximum

Node	Hours Flooded	Maximum Rate CFS	Time of Max Occurrence days hr:min	Flood Volume Mgal	Ponded Volume acre-in
N10	0.03	0.00	0 00:00	0.000	0.00
N27	0.01	0.00	0 00:00	0.000	0.00
N3	0.09	0.00	0 00:00	0.000	0.00
N48	0.07	0.00	0 00:00	0.000	0.00
N41A	0.06	0.00	0 00:00	0.000	0.00
N40	0.04	0.00	0 00:00	0.000	0.00
N40A	0.02	0.00	0 00:00	0.000	0.00
N65	0.09	0.00	0 00:00	0.000	0.00
N9	0.09	0.00	0 00:00	0.000	0.00
N130	0.03	0.00	0 00:00	0.000	0.00
N137	0.03	0.00	0 00:00	0.000	0.00
N128	0.07	0.00	0 00:00	0.000	0.00
N129	0.09	0.00	0 00:00	0.000	0.00
N134	0.08	0.00	0 00:00	0.000	0.00
N124	0.01	0.00	0 00:00	0.000	0.00
N130A	0.02	0.00	0 00:00	0.000	0.00
N146	0.08	0.00	0 00:00	0.000	0.00
N7	0.03	0.00	0 00:00	0.000	0.00
N21	0.09	0.00	0 00:00	0.000	0.00
N12	0.07	0.00	0 00:00	0.000	0.00
N12A	0.03	0.00	0 00:00	0.000	0.00
S17W	1.00	45.11	0 00:35	0.652	0.00
S17	22.49	25.03	0 02:32	5.506	0.00
PS6	0.04	11.28	0 00:43	0.005	0.00
PS7	0.07	1.71	0 01:02	0.002	0.00

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Storage Volume Summary
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Storage Unit	Average Volume 1000 ft3	Avg Pcnt Full	Maximum Volume 1000 ft3	Max Pcnt Full	Time of Max Occurrence days hr:min	Maximum Outflow CFS
S17W	27.690	44	62.566	100	0 00:27	14.21
S17E	157.883	86	171.192	94	0 01:09	73.03
S17	527.140	96	549.202	100	0 02:31	41.67
S56	1964.567	39	2628.471	52	1 01:00	0.00
S57	259.393	35	365.581	50	1 01:00	0.00
S60	1940.406	43	2434.933	54	1 01:00	0.00
S58	1075.572	37	1454.404	50	1 01:00	0.00
S61	1431.151	65	1962.297	89	1 01:00	0.00
S138	2528.689	64	3283.262	83	1 01:00	0.00
PS2	31.736	11	296.818	99	0 00:40	262.25
PS3	405.138	21	1964.376	100	0 01:20	667.19
PS4	338.967	33	1018.473	100	0 01:24	496.00
PS5	284.242	29	977.025	100	0 01:47	106.21
PS6	114.365	30	381.321	100	0 00:43	438.16
PS7	45.910	29	156.293	100	0 01:02	463.20
PS1	47.710	13	345.007	95	0 00:50	279.05

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Outfall Loading Summary
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Outfall Node	Flow Freq. Pcnt.	Avg. Flow CFS	Max. Flow CFS	Total Volume Mgal
OUT1	99.67	143.60	743.87	96.376
OUT2	99.67	263.54	783.96	176.868
OUT7	99.67	4.86	46.86	3.260
OUT8	99.67	1.97	11.07	1.324
OUT9	99.67	6.14	67.38	4.123

OUT10	99.67	1.72	25.66	1.153
OUT11	99.67	1.51	24.19	1.015
OUT12	99.63	3.70	72.64	2.482
OUT13	99.67	13.61	189.60	9.137
OUT14	99.63	1.88	32.23	1.261
OUT15	99.67	3.96	65.83	2.658
OUT16	99.67	82.30	821.01	55.240
OUT17	99.67	26.18	373.25	17.571
OUT18	99.57	39.98	400.52	26.809
OUT19	99.67	1.33	26.89	0.891
OUT20	99.67	556.37	1691.48	373.407
OUT21	99.67	2.40	16.32	1.613
OUT22	99.67	8.21	50.33	5.513
OUT23	99.67	6.60	50.89	4.426
OUT24	99.67	1.94	15.80	1.301
OUT25	99.67	0.74	11.58	0.494
OUT27	99.67	0.68	6.49	0.455
OUT26	99.67	33.24	352.72	22.310
OUT28	99.63	1.77	22.84	1.188
System	99.66	1208.24	5010.13	810.876

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Link Flow Summary
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Link	Type	Maximum Flow CFS	Time of Max Occurrence days	hr:min	Maximum Velocity ft/sec	Max/ Full Flow	Max/ Full Depth
C100-10	DUMMY	25.66	0	00:10			
C10-10A	CONDUIT	706.75	0	01:18	3.99	0.95	0.97
C101-9	DUMMY	67.38	0	00:10			
C103-97	CONDUIT	56.64	0	01:54	1.28	0.03	0.12
C104-26	DUMMY	352.72	0	00:15			
C105-110	DUMMY	15.49	0	01:05			
C107-7	DUMMY	46.86	0	00:18			
C108-16	DUMMY	357.45	0	00:35			
C109-21	DUMMY	16.32	0	01:05			
PS3-10	CONDUIT	667.19	0	01:20	11.42	1.00	0.81
C11-2	CONDUIT	783.96	0	01:22	14.15	1.00	0.81
C12A-11	CONDUIT	713.82	0	01:23	3.57	0.99	0.99
C102-8	DUMMY	11.07	0	01:05			
C13-12	CONDUIT	517.83	0	01:29	3.51	1.00	1.00
C14-14A	CONDUIT	131.50	0	00:15	8.39	0.92	0.76
C14A-12	CONDUIT	93.84	0	00:40	2.28	0.02	0.10
C15-PS5	CONDUIT	434.93	0	00:15	23.17	0.93	0.78
C16-16A	CONDUIT	204.60	0	00:15	17.78	0.71	0.64
C16A-18	CONDUIT	196.96	0	00:15	7.20	1.00	1.00
C61-S61	DUMMY	177.79	0	00:15			
C17-17A	CONDUIT	45.67	0	00:10	8.94	0.13	0.21
C17A-11	CONDUIT	33.16	0	01:10	1.44	0.01	0.06
C18-18A	CONDUIT	239.21	0	00:17	12.72	0.46	0.47
C18A-PS6	CONDUIT	459.02	0	00:17	6.80	0.88	0.94
C19-13	CONDUIT	16.79	0	00:11	4.57	0.14	0.41
C20-20A	CONDUIT	94.95	0	00:39	8.70	0.66	0.61
C20A-12	CONDUIT	91.35	0	01:16	2.25	0.02	0.10
C66-17	DUMMY	373.25	0	00:20			
C21-21A	CONDUIT	101.08	0	00:10	9.08	1.02	0.92
C2-13	CONDUIT	513.15	0	01:24	17.55	0.67	0.61
C21A-20	CONDUIT	80.17	0	00:39	2.34	0.02	0.09
C23-25	CONDUIT	344.74	0	00:17	6.64	0.56	0.79
C24-17	CONDUIT	4.15	0	01:55	0.75	0.00	0.01
C25-PS1	CONDUIT	362.71	0	00:17	13.37	0.99	0.83
C26A-29	CONDUIT	279.05	0	00:50	11.65	0.89	0.76
C27-PS1	CONDUIT	30.67	0	00:10	10.91	1.04	0.88
C28-28A	CONDUIT	22.43	0	00:10	5.51	0.71	0.62
C28A-30	CONDUIT	22.44	0	00:10	11.86	0.25	0.34
C29-30	CONDUIT	315.14	0	00:38	11.96	0.80	0.70
C30-30A	CONDUIT	330.11	0	00:36	12.13	0.77	0.68

C30A-30B	CONDUIT	341.70	0	00:36	10.09	0.39	0.42
C30B-31	CONDUIT	339.94	0	00:40	3.79	0.52	0.73
C3-1	CONDUIT	514.07	0	00:40	6.42	1.00	1.00
C31-31A	CONDUIT	454.87	0	00:35	7.72	0.85	0.74
C31A-32	CONDUIT	452.75	0	00:39	4.25	0.69	0.86
C32-3	CONDUIT	495.61	0	00:37	6.05	0.48	0.74
C33-33A	CONDUIT	264.46	0	00:25	11.59	0.98	0.82
C33A-4	CONDUIT	257.21	0	00:29	3.85	0.20	0.51
C34-34A	CONDUIT	317.23	0	00:19	12.56	1.14	0.90
C34A-33	CONDUIT	263.99	0	00:25	2.83	0.28	0.57
C35-15	DUMMY	65.83	0	00:20			
C36-5	CONDUIT	422.12	0	00:23	13.02	0.98	0.82
C37-120	CONDUIT	21.84	0	00:25	6.43	0.07	0.18
C38-38A	CONDUIT	351.10	0	00:22	10.67	0.95	0.78
C39-39A	CONDUIT	601.75	0	00:55	23.80	0.95	0.79
C39A-98A	CONDUIT	601.70	0	00:56	5.58	0.08	0.35
C40-40A	CONDUIT	572.45	0	00:43	11.78	0.98	0.81
C40A-39	CONDUIT	568.30	0	00:54	4.27	0.99	1.00
C41-41A	CONDUIT	563.09	0	00:41	11.75	0.96	0.80
C41A-40	CONDUIT	560.66	0	00:41	5.61	1.00	1.00
C42-41	CHANNEL	541.77	0	00:40	4.30	0.04	0.25
C44A-43	CHANNEL	461.67	0	00:28	6.42	0.10	0.46
C45-44	CHANNEL	440.62	0	00:26	6.93	0.04	0.48
C46-46A	CONDUIT	444.93	0	00:18	18.84	0.35	0.39
C46A-45	CONDUIT	453.73	0	00:19	12.24	1.08	0.91
C47-46	CHANNEL	365.93	0	00:15	5.16	1.00	1.00
C48-47	CONDUIT	379.57	0	00:17	10.39	1.15	0.92
C49-48	CONDUIT	209.15	0	00:15	10.07	0.49	0.50
C50-49	CONDUIT	18.50	0	00:10	4.38	0.04	0.10
PS7-PS4	CONDUIT	464.91	0	01:06	15.53	0.74	0.65
C52-107	CONDUIT	36.79	0	00:10	18.48	0.68	0.61
C53-53A	CONDUIT	27.19	0	00:10	15.94	0.56	0.53
C53A-107	CONDUIT	21.80	0	00:21	3.23	0.06	0.29
C55-55A	CONDUIT	130.15	0	00:10	9.70	0.99	0.81
C5-5A	CONDUIT	622.71	0	00:18	11.94	0.99	0.81
C55A-56	CONDUIT	99.73	0	00:23	3.15	0.02	0.08
C56-S56	DUMMY	204.69	0	00:19			
C57-S57	DUMMY	20.82	0	01:05			
C58-S58	DUMMY	118.98	0	01:05			
C59-12	CONDUIT	72.64	0	00:20	6.20	0.10	0.18
C5A-1	CONDUIT	621.50	0	00:19	12.05	0.99	0.81
C60-S60	DUMMY	341.72	0	00:15			
C62-13	CONDUIT	189.60	0	00:15	9.21	0.93	0.77
C63-14	CONDUIT	32.23	0	00:20	7.19	0.68	0.61
C64-28	CONDUIT	22.84	0	00:10	5.56	0.71	0.62
C65-65A	CONDUIT	305.27	0	00:19	6.85	1.10	0.93
C65A-108	CONDUIT	235.79	0	00:40	3.36	0.05	0.18
C6-6A	CONDUIT	531.63	0	00:18	11.56	0.99	0.82
C67-67A	CONDUIT	400.90	0	00:35	12.59	0.98	0.80
C68-19	DUMMY	26.89	0	00:20			
C69-98	CONDUIT	257.55	0	01:25	2.47	0.12	0.27
C6A-5	CONDUIT	527.83	0	00:18	12.27	0.84	0.90
C70-70A	CONDUIT	196.09	0	00:18	9.75	0.52	0.51
C71-71A	CONDUIT	189.30	0	00:17	6.51	0.83	0.69
C72-72A	CONDUIT	183.00	0	00:16	12.53	0.83	0.70
C73-73A	CONDUIT	153.07	0	00:15	13.17	0.82	0.69
C74-74A	CONDUIT	21.29	0	00:10	6.21	0.49	0.49
C75-97	CONDUIT	12.03	0	01:50	1.03	0.00	0.04
C76A-42	CONDUIT	85.37	0	00:25	2.20	0.00	0.08
C77A-41	CHANNEL	13.98	0	01:09	5.19	0.00	0.09
C7-7A	CONDUIT	432.36	0	00:17	13.15	1.05	0.91
C78A-66	CONDUIT	117.48	0	00:40	2.86	0.02	0.11
C79-79A	CONDUIT	109.65	0	00:20	15.48	0.82	0.69
C7A-6	CONDUIT	508.59	0	00:18	12.76	0.83	0.89
C106A-67	CONDUIT	368.29	0	00:35	5.41	0.21	0.41
C82-109	DUMMY	7.25	0	00:10			
C83-109	DUMMY	1.23	0	01:05			
C84-109	DUMMY	10.04	0	01:05			
C85-85A	CONDUIT	23.04	0	00:10	6.60	0.79	0.67
C85A-92	CONDUIT	13.18	0	01:37	1.31	0.00	0.03
C86A-92	CONDUIT	17.83	0	01:15	1.74	0.00	0.03
C87-23	DUMMY	50.89	0	00:10			

C88-24	DUMMY	15.80	0	00:10			
C89-25	DUMMY	11.58	0	00:10			
C90-110	DUMMY	22.17	0	00:10			
C9-10	CONDUIT	162.55	0	00:18	1.31	1.00	1.00
C91-110	DUMMY	25.22	0	00:10			
C92-20	DUMMY	1691.48	0	00:55			
C93-27	DUMMY	6.49	0	00:10			
C94-92	CONDUIT	146.93	0	01:38	2.54	0.04	0.14
C95-94	CONDUIT	142.18	0	01:24	1.75	0.09	0.22
C96-96A	CONDUIT	143.98	0	00:15	6.35	0.69	0.56
C97-81	CONDUIT	141.67	0	01:15	1.08	0.15	0.32
C98A-81	CONDUIT	794.20	0	01:49	2.61	0.58	0.71
C99-11	DUMMY	24.19	0	00:10			
C111A-7	CONDUIT	413.93	0	00:17	13.28	0.80	0.88
C111-111A	CONDUIT	398.63	0	00:15	12.54	1.03	1.00
C112-111	CONDUIT	305.99	0	00:17	24.38	0.90	0.74
C132A-12	CONDUIT	241.08	0	00:16	12.00	0.80	0.67
C131A-111	CONDUIT	37.34	0	00:14	7.47	0.12	0.24
C130A-137A	CONDUIT	31.19	0	00:11	7.49	1.00	0.86
C137A-132	CONDUIT	71.09	0	00:15	8.91	0.24	0.33
C126A-8	CONDUIT	94.83	0	00:40	10.06	0.32	0.38
PS2-127	CONDUIT	262.25	0	00:41	33.27	0.24	0.30
C127A-129A	CONDUIT	262.09	0	00:43	13.22	0.78	0.66
C128A-3	CONDUIT	518.89	0	00:38	3.95	0.14	0.32
C129A-128	CONDUIT	516.37	0	00:37	11.72	1.07	0.92
C134-133	CONDUIT	147.42	0	00:15	10.22	1.06	0.93
C135-134	CONDUIT	94.96	0	00:12	9.25	0.93	0.77
C113-23	CONDUIT	229.07	0	00:17	11.09	0.86	0.74
C114-113	CONDUIT	51.61	0	00:16	9.73	0.85	0.71
C115-113	CONDUIT	138.80	0	00:17	10.12	0.97	0.79
C117A-115	CONDUIT	65.69	0	00:16	8.54	0.22	0.32
C116A-115	CONDUIT	37.23	0	00:14	7.27	0.12	0.24
C118A-34	CONDUIT	187.46	0	00:18	11.30	0.63	0.57
C119A-118	CONDUIT	121.53	0	00:15	10.17	0.41	0.44
C120A-36	CONDUIT	358.72	0	00:22	13.25	0.31	0.38
C121A-120	CONDUIT	16.41	0	00:20	5.94	0.05	0.16
C122A-120	CONDUIT	151.82	0	00:20	11.00	0.51	0.50
C123A-38	CONDUIT	292.32	0	00:22	12.63	0.25	0.34
C124A-123	CONDUIT	127.98	0	00:21	10.55	0.43	0.45
C125A-123	CONDUIT	75.14	0	00:17	9.07	0.25	0.34
C136A-104	CONDUIT	57.94	0	01:10	1.21	0.03	0.13
C96A-95	CONDUIT	129.35	0	00:22	1.63	0.06	0.20
C38A-6	CONDUIT	279.26	0	00:47	3.10	0.50	0.66
C6-5	CONDUIT	735.97	0	03:23	2.59	0.47	0.64
C5-4	CONDUIT	817.34	0	03:22	2.81	0.49	0.66
C4-3	CONDUIT	880.83	0	00:46	2.87	0.53	0.69
C3-92	CONDUIT	1337.25	0	00:52	5.68	0.36	0.55
C110-22	DUMMY	50.33	0	00:10			
C138-S138	DUMMY	387.39	0	00:15			
C139-5	CONDUIT	29.99	0	00:11	1.39	0.01	0.05
C142-2	CONDUIT	28.00	0	00:15	5.39	0.94	0.77
C136-136A	CONDUIT	77.74	0	00:10	4.17	0.01	0.05
C77-77A	CONDUIT	14.35	0	01:05	5.77	0.90	0.74
C44-44A	CONDUIT	319.64	0	00:19	25.78	1.00	1.00
C44-44A_	CONDUIT	144.72	0	00:26	21.57	0.58	0.50
C44A_-44A	DUMMY	144.72	0	00:26			
C126-126A	CONDUIT	109.16	0	00:15	9.61	0.79	0.67
C127-127A	CONDUIT	262.25	0	00:41	11.02	0.64	0.59
C128-128A	CONDUIT	510.41	0	00:37	11.43	1.05	0.93
C129-129A	CONDUIT	108.78	0	00:15	9.60	1.07	0.91
C130-130A	CONDUIT	30.79	0	00:10	6.81	1.06	0.99
C137-137A	CONDUIT	48.73	0	00:10	7.68	1.04	0.93
C132-132A	CONDUIT	244.98	0	00:15	11.29	1.02	0.92
C131-131A	CONDUIT	43.40	0	00:10	7.62	0.92	0.75
C133-15	CONDUIT	241.76	0	00:14	11.65	1.10	0.90
C116-116A	CONDUIT	37.29	0	00:12	7.43	0.79	0.67
C117-117A	CONDUIT	66.35	0	00:15	8.43	0.93	0.76
C119-119A	CONDUIT	7.96	0	04:35	4.91	1.07	1.00
C118-118A	CONDUIT	192.17	0	00:17	10.93	1.04	0.91
C120-120A	CONDUIT	363.55	0	00:19	12.43	1.00	0.84
C121-121A	CONDUIT	20.93	0	00:11	6.50	0.72	0.63
C122-122A	CONDUIT	162.31	0	00:15	10.63	0.88	0.73

C124-124A	CONDUIT	143.83	0	00:15	10.13	1.03	0.88
C125-125A	CONDUIT	84.81	0	00:11	9.11	0.83	0.70
C123-123A	CONDUIT	325.30	0	00:20	12.63	1.12	0.91
C76-76A	CONDUIT	119.66	0	00:10	11.15	0.41	0.44
C43-43A	CONDUIT	461.67	0	00:28	10.99	0.97	0.80
C43A-42	CHANNEL	435.30	0	00:36	2.53	0.25	0.78
C145-145A	CONDUIT	39.08	0	00:15	11.98	0.73	0.63
C145A-103	CONDUIT	25.63	0	00:40	1.10	0.01	0.07
C73A-72	CONDUIT	151.21	0	00:16	2.19	0.05	0.17
C74A-72	CONDUIT	20.59	0	01:08	1.19	0.01	0.04
C72A-71	CONDUIT	182.95	0	00:17	3.87	0.03	0.12
C71A-70	CONDUIT	188.93	0	00:18	3.83	0.03	0.12
C70A-69	CONDUIT	194.42	0	00:20	3.33	0.04	0.14
C79A-144	CONDUIT	109.62	0	00:20	3.36	0.01	0.08
C144-144A	CONDUIT	121.05	0	00:21	8.00	0.99	0.84
C144A-78	CONDUIT	120.94	0	00:21	3.13	0.02	0.10
C78-78A	CONDUIT	130.63	0	00:21	9.69	0.85	0.75
C80A-106	CONDUIT	151.13	0	00:39	3.17	0.03	0.12
C106-106A	CONDUIT	368.88	0	00:35	21.14	0.93	0.79
C80-80A	CONDUIT	161.86	0	00:15	10.14	0.93	0.80
C146-146A	CONDUIT	17.18	0	00:14	6.02	1.07	1.00
C146A-114	CONDUIT	13.52	0	00:40	1.37	0.00	0.03
C98-98A	CONDUIT	289.98	0	01:26	1.65	0.22	0.41
C81-6	CONDUIT	677.16	0	03:55	0.46	0.54	0.69
C86-86A	CONDUIT	25.23	0	00:10	6.70	0.87	0.72
C67A-18	CONDUIT	400.52	0	00:36	4.79	0.42	0.65
C147-147A	CONDUIT	24.30	0	00:10	7.55	0.72	0.63
C147A-69	CONDUIT	22.22	0	01:07	1.62	0.00	0.03
C8A-PS2	CONDUIT	442.15	0	00:15	33.81	0.29	0.34
C8-8A	CONDUIT	404.16	0	00:14	12.81	1.04	0.92
C1-PS3	DUMMY	1087.12	0	00:23			
PS4-2	CONDUIT	510.85	0	01:25	14.44	0.89	0.74
PS1-26A	CONDUIT	279.05	0	00:50	11.65	0.89	0.76
C10A-1	CONDUIT	743.87	0	01:17	17.36	0.90	0.77
S17W_out-S17E	CONDUIT	56.83	0	02:16	8.63	1.08	1.00
S17E_out-S17	CONDUIT	73.03	0	01:09	22.12	0.07	0.17
S17_out-16	CONDUIT	66.70	0	06:53	1.32	0.03	0.12
PS5-PS6	CONDUIT	106.21	0	01:47	9.07	0.98	0.84
PS6-PS7	CONDUIT	449.45	0	00:44	12.55	0.96	0.78
C12-12A	CONDUIT	724.29	0	01:15	24.67	1.01	0.91
C1	CONDUIT	121.22	0	00:11	7.15	0.16	0.27
C2	DUMMY	121.22	0	00:11			
C3	CONDUIT	0.00	0	00:00	0.00	0.00	0.06
C4	DUMMY	0.00	0	00:00			
C5	CONDUIT	6.59	0	00:32	5.09	0.13	0.24
C6	DUMMY	6.59	0	00:32			
C7	CONDUIT	5.51	0	00:17	5.02	0.03	0.10
C8	DUMMY	5.51	0	00:17			
C9	CONDUIT	20.50	0	00:41	7.37	0.04	0.17
C10	DUMMY	20.50	0	00:41			
C11	CONDUIT	4.07	0	00:19	5.13	0.01	0.04
C12	DUMMY	4.07	0	00:19			
C14	DUMMY	37.36	0	00:18			
C15	CONDUIT	17.65	0	00:18	8.27	0.08	0.15
C16	DUMMY	17.65	0	00:18			
C17	CONDUIT	14.52	0	00:17	8.84	0.09	0.12
C19	CONDUIT	37.36	0	00:18	11.03	0.37	0.40
C20	DUMMY	14.52	0	00:17			
C21	CONDUIT	2.26	0	00:43	2.65	0.00	0.03
C22	DUMMY	2.26	0	00:43			
C23	DUMMY	0.00	0	00:00			
C24	CONDUIT	0.00	0	00:00	0.00	0.00	0.00
C25	CONDUIT	0.20	0	00:44	0.62	0.00	0.01
C26	DUMMY	0.20	0	00:44			
C27	CONDUIT	19.68	0	00:16	5.02	0.14	0.21
C28	DUMMY	19.68	0	00:16			
C29	CONDUIT	0.00	0	00:00	0.00	0.00	0.00
C30	DUMMY	0.00	0	00:00			
C31	CONDUIT	23.99	0	00:15	5.00	0.06	0.13
C32	DUMMY	23.99	0	00:15			
C33	CONDUIT	10.22	0	00:18	1.24	0.06	0.17
C34	DUMMY	10.22	0	00:18			

C35	CONDUIT	17.42	0	00:16	4.33	0.05	0.11
C36	DUMMY	17.42	0	00:16			
C37	CONDUIT	2.43	0	00:15	3.15	0.01	0.04
C38	DUMMY	2.43	0	00:15			
C39	CONDUIT	2.61	0	00:10	6.14	0.09	0.19
C40	DUMMY	2.61	0	00:10			
C41	CONDUIT	3.30	0	00:10	7.16	0.07	0.17
C42	DUMMY	3.30	0	00:10			
C43	CONDUIT	4.22	0	00:15	11.00	0.04	0.11
C44	DUMMY	4.22	0	00:15			
C45	CONDUIT	24.03	0	00:38	10.96	0.10	0.17
C46	DUMMY	24.03	0	00:38			
C47	CONDUIT	9.89	0	00:13	11.52	0.07	0.18
C48	DUMMY	9.89	0	00:13			
C49	CONDUIT	2.15	0	00:16	7.88	0.01	0.07
C50	DUMMY	2.15	0	00:16			
C51	CONDUIT	3.50	0	00:14	5.50	0.02	0.04
C52	DUMMY	3.50	0	00:14			
C53	CONDUIT	0.00	0	00:00	0.00	0.00	0.04
C54	DUMMY	0.00	0	00:00			
C55	CONDUIT	4.27	0	00:20	5.48	0.01	0.04
C56	DUMMY	4.27	0	00:20			
C57	CONDUIT	6.22	0	00:36	5.44	0.03	0.07
C58	DUMMY	6.22	0	00:36			
C59	CONDUIT	1.26	0	00:11	8.55	0.04	0.10
C60	DUMMY	1.26	0	00:11			
C61	CONDUIT	2.14	0	00:11	6.25	0.13	0.25
C62	DUMMY	2.14	0	00:11			
C63	CONDUIT	2.02	0	00:17	3.67	0.00	0.02
C64	DUMMY	2.02	0	00:17			
C65	CONDUIT	1.09	0	00:10	5.72	0.01	0.07
C66	DUMMY	1.09	0	00:10			
C67	CONDUIT	0.94	0	01:12	2.14	0.00	0.01
C68	DUMMY	0.94	0	01:12			
C69	CONDUIT	0.00	0	00:00	0.00	0.00	0.03
C70	DUMMY	0.00	0	00:00			
PS2_out	ORIFICE	262.25	0	00:41			
PS3_out	ORIFICE	667.19	0	01:20			
PS4_out	ORIFICE	496.00	0	01:25			
PS5_out	ORIFICE	106.21	0	01:47			
PS6_out	ORIFICE	438.16	0	00:43			
PS7_out	ORIFICE	463.20	0	01:02			
PS1_out	ORIFICE	279.05	0	00:50			
S17W-S17W_out	DUMMY	14.21	0	00:27			
S17E-S17E_out	DUMMY	73.03	0	01:09			
S17-17_out	DUMMY	41.67	0	02:32			

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Conduit Surcharge Summary
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Conduit	Hours Full: Both Ends	Hours Full: Upstream	Hours Full: Dnstream	Hours Above Full Normal Flow	Hours Capacity Limited
C100-10	0.01	0.01	0.01	25.01	0.01
C101-9	0.01	0.01	0.01	25.01	0.01
C104-26	0.01	0.01	0.01	25.01	0.01
C105-110	0.01	0.01	0.01	25.01	0.01
C107-7	0.01	0.01	0.01	25.01	0.01
C108-16	0.01	0.01	0.01	25.01	0.01
C109-21	0.01	0.01	0.01	25.01	0.01
PS3-10	0.01	0.01	0.01	2.29	0.01
C11-2	0.01	0.01	0.01	3.60	0.01
C12A-11	0.01	0.03	0.01	0.01	0.03
C102-8	0.01	0.01	0.01	25.01	0.01
C14-14A	0.01	0.01	0.01	0.99	0.01
C16A-18	0.03	0.05	0.05	0.05	0.05
C61-S61	0.01	0.01	0.01	25.01	0.01
C66-17	0.01	0.01	0.01	25.01	0.01

C21-21A	0.01	0.09	0.01	0.09	0.09
C27-PS1	0.01	0.01	0.01	0.01	0.01
C28-28A	0.01	0.01	0.01	0.17	0.01
C3-1	0.02	0.09	0.05	0.01	0.09
C31-31A	0.01	0.01	0.01	1.28	0.01
C34-34A	0.01	0.03	0.01	0.03	0.03
C35-15	0.01	0.01	0.01	25.01	0.01
C38-38A	0.01	0.01	0.01	1.04	0.01
C40-40A	0.01	0.01	0.01	1.51	0.01
C40A-39	0.01	0.02	0.01	0.01	0.02
C41-41A	0.01	0.01	0.01	1.45	0.01
C41A-40	0.03	0.06	0.04	0.04	0.06
C46A-45	0.01	0.03	0.01	1.02	0.03
C47-46	0.06	0.07	0.06	0.01	0.07
C48-47	0.01	0.07	0.01	1.03	0.07
C5-5A	0.01	0.01	0.01	0.99	0.01
C56-S56	0.01	0.01	0.01	25.01	0.01
C57-S57	0.01	0.01	0.01	25.01	0.01
C58-S58	0.01	0.01	0.01	25.01	0.01
C5A-1	0.01	0.01	0.01	0.99	0.01
C60-S60	0.01	0.01	0.01	25.01	0.01
C62-13	0.01	0.01	0.01	0.99	0.01
C64-28	0.01	0.01	0.01	0.16	0.01
C65-65A	0.01	0.09	0.01	1.09	0.09
C6-6A	0.01	0.01	0.01	1.01	0.01
C68-19	0.01	0.01	0.01	25.01	0.01
C70-70A	0.01	0.01	0.01	0.07	0.01
C71-71A	0.01	0.01	0.01	1.02	0.01
C7-7A	0.01	0.03	0.01	0.03	0.03
C82-109	0.01	0.01	0.01	25.01	0.01
C83-109	0.01	0.01	0.01	25.01	0.01
C84-109	0.01	0.01	0.01	25.01	0.01
C87-23	0.01	0.01	0.01	25.01	0.01
C88-24	0.01	0.01	0.01	25.01	0.01
C89-25	0.01	0.01	0.01	25.01	0.01
C90-110	0.01	0.01	0.01	25.01	0.01
C9-10	0.01	0.09	0.03	0.03	0.09
C91-110	0.01	0.01	0.01	25.01	0.01
C92-20	0.01	0.01	0.01	25.01	0.01
C93-27	0.01	0.01	0.01	25.01	0.01
C96-96A	0.01	0.01	0.01	0.53	0.01
C99-11	0.01	0.01	0.01	25.01	0.01
C111-111A	0.01	0.07	0.01	0.07	0.07
C130A-137A	0.01	0.02	0.01	0.01	0.02
C129A-128	0.01	0.07	0.01	1.35	0.07
C134-133	0.01	0.08	0.01	0.09	0.08
C110-22	0.01	0.01	0.01	25.01	0.01
C138-S138	0.01	0.01	0.01	25.01	0.01
C142-2	0.01	0.01	0.01	0.42	0.01
C44-44A	1.01	1.01	1.02	0.01	1.01
C44A_-44A	0.01	0.01	0.01	25.01	0.01
C128-128A	0.01	0.07	0.01	1.36	0.07
C129-129A	0.01	0.09	0.01	0.06	0.09
C130-130A	0.01	0.03	0.01	0.04	0.03
C137-137A	0.01	0.03	0.01	0.04	0.03
C132-132A	0.01	0.03	0.01	0.02	0.03
C133-15	0.01	0.05	0.01	0.04	0.05
C119-119A	4.49	6.01	4.49	6.02	6.01
C118-118A	0.01	0.04	0.01	0.05	0.04
C124-124A	0.01	0.01	0.01	0.02	0.01
C123-123A	0.01	0.05	0.01	0.05	0.05
C146-146A	0.03	0.08	0.03	0.06	0.08
C8-8A	0.01	0.10	0.01	0.10	0.10
C1-PS3	0.01	0.01	0.01	25.01	0.01
C10A-1	0.01	0.01	0.01	2.25	0.01
S17W_out-S17E	1.87	3.11	1.87	1.24	3.11
C12-12A	0.01	0.07	0.01	0.05	0.07
C2	0.01	0.01	0.01	25.01	0.01
C4	0.01	0.01	0.01	25.01	0.01
C6	0.01	0.01	0.01	25.01	0.01
C8	0.01	0.01	0.01	25.01	0.01
C10	0.01	0.01	0.01	25.01	0.01

C12	0.01	0.01	0.01	25.01	0.01
C14	0.01	0.01	0.01	25.01	0.01
C16	0.01	0.01	0.01	25.01	0.01
C20	0.01	0.01	0.01	25.01	0.01
C22	0.01	0.01	0.01	25.01	0.01
C23	0.01	0.01	0.01	25.01	0.01
C26	0.01	0.01	0.01	25.01	0.01
C28	0.01	0.01	0.01	25.01	0.01
C30	0.01	0.01	0.01	25.01	0.01
C32	0.01	0.01	0.01	25.01	0.01
C34	0.01	0.01	0.01	25.01	0.01
C36	0.01	0.01	0.01	25.01	0.01
C38	0.01	0.01	0.01	25.01	0.01
C40	0.01	0.01	0.01	25.01	0.01
C42	0.01	0.01	0.01	25.01	0.01
C44	0.01	0.01	0.01	25.01	0.01
C46	0.01	0.01	0.01	25.01	0.01
C48	0.01	0.01	0.01	25.01	0.01
C50	0.01	0.01	0.01	25.01	0.01
C52	0.01	0.01	0.01	25.01	0.01
C54	0.01	0.01	0.01	25.01	0.01
C56	0.01	0.01	0.01	25.01	0.01
C58	0.01	0.01	0.01	25.01	0.01
C60	0.01	0.01	0.01	25.01	0.01
C62	0.01	0.01	0.01	25.01	0.01
C64	0.01	0.01	0.01	25.01	0.01
C66	0.01	0.01	0.01	25.01	0.01
C68	0.01	0.01	0.01	25.01	0.01
C70	0.01	0.01	0.01	25.01	0.01

```
Analysis begun on:  Wed Sep 17 12:43:57 2008
Analysis ended on:  Wed Sep 17 12:43:58 2008
Total elapsed time: 00:00:01
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EPA STORM WATER MANAGEMENT MODEL - VERSION 5.0 (Build 5.0.013)
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"City of Brookings, SD: 5-yr 24-hr, Future Conditions with Improvements"

****************
Analysis Options
****************
Flow Units ............... CFS
Infiltration Method ...... CURVE_NUMBER
Flow Routing Method ...... KINWAVE
Starting Date ............ JAN-01-2007 00:00:00
Ending Date .............. JAN-02-2007 01:00:00
Antecedent Dry Days ...... 0.0
Report Time Step ......... 00:05:00
Wet Time Step ............ 00:05:00
Dry Time Step ............ 00:05:00
Routing Time Step ........ 30.00 sec


**************************        Volume         Depth
Runoff Quantity Continuity     acre-feet        inches
**************************     ---------       -------
Total Precipitation ......      2460.894         3.380
Evaporation Loss .........         0.000         0.000
Infiltration Loss ........      1078.008         1.481
Surface Runoff ...........      1241.495         1.705
Final Surface Storage ....       150.155         0.206
Continuity Error (%) .....        -0.356


**************************        Volume        Volume
Flow Routing Continuity        acre-feet      Mgallons
**************************     ---------     ---------
Dry Weather Inflow .......         0.000         0.000
Wet Weather Inflow .......      1240.718       404.307
Groundwater Inflow .......         0.000         0.000
RDII Inflow ..............         0.000         0.000
External Inflow ..........         0.000         0.000
External Outflow .........      1082.383       352.711
Internal Outflow .........         0.000         0.000
Evaporation Loss .........         0.000         0.000
Initial Stored Volume ....         0.000         0.000
Final Stored Volume ......       243.583        79.375
Continuity Error (%) .....        -6.871


*********************************
Highest Flow Instability Indexes
*********************************
Link C42-41 (2)
Link C40A-39 (2)
Link C41-41A (2)
Link C43A-42 (2)
Link C41A-40 (2)


*************************
Routing Time Step Summary
*************************
Minimum Time Step           :    30.00 sec
Average Time Step           :    30.00 sec
Maximum Time Step           :    30.00 sec
Percent in Steady State     :     0.00
Average Iterations per Step :     1.05


***************************
Subcatchment Runoff Summary
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Subcatchment	Total Precip in	Total Runon in	Total Evap in	Total Infil in	Total Runoff in	Total Runoff Mgal	Peak Runoff CFS	Runoff Coeff
BAS_1	3.380	0.000	0.000	1.279	1.986	1.364	44.725	0.587
BAS_10	3.380	0.000	0.000	1.170	2.104	2.200	70.269	0.622
BAS_100	3.380	0.000	0.000	1.397	1.878	0.709	14.438	0.556
BAS_101	3.380	0.000	0.000	2.030	1.129	0.545	6.650	0.334
BAS_102	3.380	0.000	0.000	1.509	1.731	1.970	36.228	0.512
BAS_103	3.380	0.000	0.000	1.482	1.796	0.868	20.709	0.531
BAS_104	3.380	0.000	0.000	1.435	1.870	0.498	14.461	0.553
BAS_105	3.380	0.000	0.000	1.332	1.972	0.573	14.194	0.583
BAS_106	3.380	0.000	0.000	2.181	0.965	0.286	1.155	0.286
BAS_107	3.380	0.000	0.000	2.162	0.913	1.847	7.762	0.270
BAS_108	3.380	0.000	0.000	1.966	1.068	4.140	46.756	0.316
BAS_109	3.380	0.000	0.000	2.129	0.838	3.892	27.120	0.248
BAS_11	3.380	0.000	0.000	0.945	2.389	4.781	100.126	0.707
BAS_110	3.380	0.000	0.000	2.019	1.010	4.318	47.005	0.299
BAS_111	3.380	0.000	0.000	2.029	1.053	0.297	3.426	0.312
BAS_112	3.380	0.000	0.000	2.063	0.986	4.004	40.502	0.292
BAS_114	3.380	0.000	0.000	1.899	1.266	6.583	105.694	0.375
BAS_115	3.380	0.000	0.000	2.165	0.968	1.057	3.942	0.286
BAS_116	3.380	0.000	0.000	2.135	1.051	3.726	24.552	0.311
BAS_117	3.380	0.000	0.000	1.962	1.176	0.658	9.334	0.348
BAS_118	3.380	0.000	0.000	1.521	1.595	6.820	90.291	0.472
BAS_119	3.380	0.000	0.000	1.164	2.129	9.234	181.091	0.630
BAS_121	3.380	0.000	0.000	1.308	1.987	0.421	9.036	0.588
BAS_122	3.380	0.000	0.000	1.556	1.707	0.292	6.638	0.505
BAS_124	3.380	0.000	0.000	0.751	2.625	0.677	16.689	0.777
BAS_125	3.380	0.000	0.000	1.783	1.441	0.282	5.784	0.426
BAS_126	3.380	0.000	0.000	2.181	0.603	1.665	6.134	0.178
BAS_13*	3.380	0.000	0.000	0.549	2.786	5.735	177.711	0.824
BAS_14	3.380	0.000	0.000	1.676	1.513	1.010	16.506	0.448
BAS_15	3.380	0.000	0.000	1.343	1.938	5.246	104.792	0.573
BAS_16	3.380	0.000	0.000	1.190	2.096	5.362	103.168	0.620
BAS_18	3.380	0.000	0.000	1.156	2.149	1.027	21.101	0.636
BAS_19	3.380	0.000	0.000	0.883	2.237	0.425	15.165	0.662
BAS_2	3.380	0.000	0.000	0.923	2.350	2.074	56.011	0.695
BAS_20	3.380	0.000	0.000	1.397	1.873	0.763	14.949	0.554
BAS_21	3.380	0.000	0.000	0.763	2.304	2.909	113.783	0.682
BAS_22	3.380	0.000	0.000	2.144	0.979	0.202	1.081	0.290
BAS_23	3.380	0.000	0.000	1.399	1.824	3.760	63.565	0.540
BAS_24	3.380	0.000	0.000	1.417	1.886	0.184	5.159	0.558
BAS_25	3.380	0.000	0.000	0.271	3.153	0.265	9.339	0.933
BAS_26	3.380	0.000	0.000	0.599	2.757	1.700	32.066	0.816
BAS_27	3.380	0.000	0.000	1.908	1.272	0.756	12.544	0.376
BAS_28	3.380	0.000	0.000	1.472	1.810	0.521	12.612	0.535
BAS_29	3.380	0.000	0.000	0.458	2.926	1.240	29.622	0.866
BAS_3	3.380	0.000	0.000	1.900	1.303	1.621	41.778	0.386
BAS_30	3.380	0.000	0.000	0.459	2.957	0.313	10.500	0.875
BAS_31	3.380	0.000	0.000	0.748	2.605	3.120	64.517	0.771
BAS_32	3.380	0.000	0.000	1.709	1.450	2.064	32.134	0.429
BAS_33	3.380	0.000	0.000	0.954	2.382	2.509	53.394	0.705
BAS_34	3.380	0.000	0.000	1.825	1.389	0.158	3.092	0.411
BAS_35	3.380	0.000	0.000	1.469	1.778	2.535	47.359	0.526
BAS_36	3.380	0.000	0.000	1.138	2.168	1.890	38.690	0.642
BAS_37	3.380	0.000	0.000	2.162	0.851	3.914	17.492	0.252
BAS_38	3.380	0.000	0.000	2.146	0.932	0.860	4.702	0.276
BAS_39	3.380	0.000	0.000	2.098	0.959	1.580	13.654	0.284
BAS_4	3.380	0.000	0.000	1.360	1.852	1.398	21.792	0.548
BAS_40	3.380	0.000	0.000	2.071	1.003	0.629	6.274	0.297
BAS_41	3.380	0.000	0.000	2.126	1.005	0.368	2.428	0.297
BAS_42	3.380	0.000	0.000	2.123	1.036	0.326	2.164	0.307
BAS_43	3.380	0.000	0.000	1.975	1.061	2.155	24.408	0.314
BAS_44	3.380	0.000	0.000	1.533	1.661	3.410	56.489	0.492
BAS_45	3.380	0.000	0.000	1.733	1.453	1.658	27.651	0.430
BAS_46	3.380	0.000	0.000	1.537	1.674	5.985	103.511	0.495
BAS_47	3.380	0.000	0.000	1.359	1.877	4.230	73.346	0.555
BAS_48	3.380	0.000	0.000	1.187	2.082	8.833	156.014	0.616
BAS_49	3.380	0.000	0.000	0.587	2.786	2.337	49.951	0.824
BAS_5	3.380	0.000	0.000	1.159	2.075	1.460	39.382	0.614

BAS_50	3.380	0.000	0.000	0.449	2.893	6.237	184.031	0.856
BAS_51	3.380	0.000	0.000	0.822	2.467	16.047	227.399	0.730
BAS_52	3.380	0.000	0.000	1.264	2.018	0.745	14.679	0.597
BAS_53	3.380	0.000	0.000	1.367	1.883	3.815	70.285	0.557
BAS_54	3.380	0.000	0.000	1.208	2.095	2.617	54.316	0.620
BAS_55	3.380	0.000	0.000	0.971	2.377	0.420	9.822	0.703
BAS_56	3.380	0.000	0.000	0.931	2.416	0.820	18.114	0.715
BAS_57	3.380	0.000	0.000	1.530	1.728	0.324	6.914	0.511
BAS_58	3.380	0.000	0.000	2.105	0.967	1.082	8.884	0.286
BAS_59	3.380	0.000	0.000	2.119	0.987	0.917	6.639	0.292
BAS_6	3.380	0.000	0.000	1.372	1.888	0.584	20.653	0.558
BAS_60	3.380	0.000	0.000	1.977	1.205	0.046	0.671	0.357
BAS_61	3.380	0.000	0.000	2.136	1.018	0.055	0.316	0.301
BAS_62	3.380	0.000	0.000	2.137	1.000	0.125	0.727	0.296
BAS_63	3.380	0.000	0.000	1.929	1.173	1.280	17.050	0.347
BAS_64	3.380	0.000	0.000	1.909	1.270	0.569	9.413	0.376
BAS_65	3.380	0.000	0.000	1.688	1.361	20.973	265.912	0.403
BAS_66	3.380	0.000	0.000	1.856	1.379	0.202	3.969	0.408
BAS_67	3.380	0.000	0.000	1.509	1.750	2.319	48.769	0.518
BAS_68	3.380	0.000	0.000	1.060	2.243	3.929	75.391	0.664
BAS_69	3.380	0.000	0.000	0.904	2.419	9.289	176.962	0.716
BAS_7	3.380	0.000	0.000	1.134	2.158	1.594	57.186	0.638
BAS_70	3.380	0.000	0.000	1.411	1.644	15.999	218.624	0.486
BAS_71**	3.380	0.000	0.000	1.467	1.668	7.464	122.339	0.494
BAS_72**	3.380	0.000	0.000	1.490	1.642	4.084	66.511	0.486
BAS_73	3.380	0.000	0.000	1.235	1.942	6.925	86.905	0.575
BAS_74	3.380	0.000	0.000	1.789	1.280	5.208	70.649	0.379
BAS_75	3.380	0.000	0.000	0.786	2.573	0.636	13.936	0.761
BAS_76	3.380	0.000	0.000	1.817	1.433	0.272	5.706	0.424
BAS_77	3.380	0.000	0.000	2.033	1.107	1.256	15.044	0.327
BAS_78	3.380	0.000	0.000	1.771	1.385	4.207	62.856	0.410
BAS_79	3.380	0.000	0.000	0.845	2.502	3.987	84.553	0.740
BAS_8	3.380	0.000	0.000	0.409	2.949	5.909	200.700	0.872
BAS_80	3.380	0.000	0.000	1.869	1.244	0.891	12.056	0.368
BAS_81	3.380	0.000	0.000	1.060	2.241	4.217	79.910	0.663
BAS_82	3.380	0.000	0.000	0.650	2.743	0.484	13.573	0.812
BAS_83	3.380	0.000	0.000	2.056	1.079	1.190	12.945	0.319
BAS_84	3.380	0.000	0.000	0.271	3.093	0.798	17.424	0.915
BAS_85	3.380	0.000	0.000	1.649	1.520	0.487	7.777	0.450
BAS_86	3.380	0.000	0.000	0.954	2.386	3.641	78.943	0.706
BAS_87	3.380	0.000	0.000	0.781	2.591	1.421	34.874	0.767
BAS_88	3.380	0.000	0.000	1.909	1.236	1.887	28.529	0.366
BAS_89	3.380	0.000	0.000	1.909	1.260	1.960	31.666	0.373
BAS_9	3.380	0.000	0.000	1.306	1.893	3.598	92.940	0.560
BAS_90	3.380	0.000	0.000	1.909	1.266	0.560	9.178	0.374
BAS_91	3.380	0.000	0.000	1.398	1.907	0.243	6.708	0.564
BAS_92	3.380	0.000	0.000	1.442	1.859	0.464	13.087	0.550
BAS_93	3.380	0.000	0.000	1.994	1.159	1.096	14.973	0.343
BAS_94	3.380	0.000	0.000	1.814	1.412	0.748	15.276	0.418
BAS_95	3.380	0.000	0.000	1.931	1.249	0.855	13.781	0.370
BAS_96	3.380	0.000	0.000	2.181	0.957	0.743	2.735	0.283
BAS_97	3.380	0.000	0.000	2.181	0.969	0.437	1.836	0.287
BAS_98	3.380	0.000	0.000	2.193	1.004	0.038	0.292	0.297
BAS_99	3.380	0.000	0.000	1.693	1.574	0.180	4.440	0.466
BAS_S17	3.380	0.000	0.000	0.644	2.738	1.836	42.966	0.810
BAS_S17E	3.380	0.000	0.000	0.911	2.416	0.689	13.540	0.715
BAS_S17W	3.380	0.000	0.000	0.912	2.428	1.615	34.134	0.718
BAS_120	3.380	0.000	0.000	0.458	2.933	1.378	32.648	0.868
BAS_12	3.380	0.000	0.000	1.384	1.840	11.943	201.180	0.544
BAS_146	3.380	0.000	0.000	1.435	1.861	0.687	18.248	0.551
BAS_153	3.380	0.000	0.000	1.435	1.857	1.134	28.737	0.549
BAS_147	3.380	0.000	0.000	1.660	1.590	1.105	25.195	0.470
BAS_148	3.380	0.000	0.000	1.323	1.944	4.834	92.619	0.575
BAS_129	3.380	0.000	0.000	1.434	1.819	2.035	38.512	0.538
BAS_128	3.380	0.000	0.000	1.296	1.994	1.803	36.728	0.590
BAS_127	3.380	0.000	0.000	1.434	1.873	0.010	0.310	0.554
BAS_142	3.380	0.000	0.000	0.988	2.346	2.707	58.080	0.694
BAS_143	3.380	0.000	0.000	1.233	2.097	0.438	12.555	0.620
BAS_145	3.380	0.000	0.000	1.533	1.702	3.125	56.788	0.504
BAS_144	3.380	0.000	0.000	1.267	2.005	5.161	97.975	0.593
BAS_149	3.380	0.000	0.000	1.208	2.097	1.810	37.744	0.620
BAS_150	3.380	0.000	0.000	1.625	1.608	1.606	31.870	0.476

BAS_151	3.380	0.000	0.000	1.645	1.571	2.887	52.161	0.465
BAS_123	3.380	0.000	0.000	0.772	2.570	2.841	55.451	0.760
BAS_133	3.380	0.000	0.000	1.337	1.906	1.978	34.883	0.564
BAS_132	3.380	0.000	0.000	1.453	1.798	1.079	20.346	0.532
BAS_131	3.380	0.000	0.000	1.070	2.262	1.007	22.364	0.669
BAS_130	3.380	0.000	0.000	1.637	1.590	1.446	27.846	0.470
BAS_134	3.380	0.000	0.000	1.000	2.335	1.630	35.227	0.691
BAS_135	3.380	0.000	0.000	1.161	2.163	2.995	70.558	0.640
BAS_138	3.380	0.000	0.000	1.395	1.825	5.086	84.911	0.540
BAS_137	3.380	0.000	0.000	1.299	2.022	0.439	12.593	0.598
BAS_136	3.380	0.000	0.000	1.355	1.865	6.112	98.375	0.552
BAS_141	3.380	0.000	0.000	1.367	1.927	2.035	47.693	0.570
BAS_140	3.380	0.000	0.000	1.354	1.889	4.160	73.922	0.559
BAS_139	3.380	0.000	0.000	1.405	1.832	3.174	56.687	0.542
BAS_152**	3.380	0.000	0.000	1.705	1.552	1.977	47.300	0.459
BAS_154	3.380	0.000	0.000	1.593	1.670	0.562	13.269	0.494
BAS_155	3.380	0.000	0.000	1.343	1.948	0.751	16.415	0.576
BAS_158	3.380	0.000	0.000	0.271	3.101	0.581	19.410	0.917
BAS_159	3.380	0.000	0.000	1.705	1.481	0.450	7.306	0.438
BAS_160	3.380	0.000	0.000	1.216	2.008	8.794	143.722	0.594
BAS_161	3.380	0.000	0.000	1.323	1.987	0.405	10.588	0.588
BAS_162	3.380	0.000	0.000	0.610	2.783	0.695	17.911	0.823
BAS_156*	3.380	0.000	0.000	1.193	2.118	0.966	20.372	0.626
BAS_157*	3.380	0.000	0.000	1.193	2.125	1.754	40.764	0.629
BAS_163	3.380	0.000	0.000	0.864	2.504	0.694	18.331	0.741
System	3.380	0.000	0.000	1.481	1.705	404.530	6887.493	0.504

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Node Depth Summary
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Node	Type	Average Depth Feet	Maximum Depth Feet	Maximum HGL Feet	Time of Max Occurrence days hr:min
N1	JUNCTION	8.23	11.30	1612.90	0 00:21
N10	JUNCTION	2.04	3.96	1604.66	0 00:21
N100	JUNCTION	0.00	0.00	1594.00	0 00:00
N101	JUNCTION	0.00	0.00	1608.00	0 00:00
N102	JUNCTION	0.00	0.00	1626.90	0 00:00
N103	JUNCTION	0.15	0.56	1634.16	0 00:15
N104	JUNCTION	0.09	0.28	1596.75	0 01:13
N105	JUNCTION	0.00	0.00	1611.55	0 00:00
N107	JUNCTION	0.19	0.86	1613.16	0 00:10
N108	JUNCTION	0.11	0.45	1616.11	0 00:40
N109	JUNCTION	0.00	0.00	1638.00	0 00:00
N11	JUNCTION	2.23	3.10	1597.10	0 01:24
N110	JUNCTION	0.00	0.00	1611.55	0 00:00
N12	JUNCTION	1.33	2.26	1600.26	0 01:11
N13	JUNCTION	1.27	1.75	1602.45	0 04:13
N14	JUNCTION	0.60	2.83	1617.56	0 00:15
N14A	JUNCTION	0.60	2.83	1617.37	0 00:15
N15	JUNCTION	0.71	3.14	1623.36	0 00:16
N16	JUNCTION	0.27	1.19	1628.34	0 00:15
N16A	JUNCTION	0.49	1.79	1626.39	0 00:15
N17	JUNCTION	0.12	0.31	1606.31	0 00:10
N17A	JUNCTION	0.12	0.30	1605.10	0 00:10
N18	JUNCTION	0.49	1.78	1625.08	0 00:16
N18A	JUNCTION	0.82	3.18	1625.50	0 00:15
N19	JUNCTION	0.12	0.61	1604.61	0 00:10
N2	JUNCTION	1.52	2.16	1603.71	0 04:14
N20	JUNCTION	0.30	1.03	1613.75	0 00:25
N20A	JUNCTION	0.30	1.03	1613.50	0 00:25
N21	JUNCTION	0.48	2.28	1630.39	0 00:15
N21A	JUNCTION	0.48	2.28	1630.06	0 00:15
N23	JUNCTION	0.65	2.53	1614.53	0 00:17
N24	JUNCTION	0.01	0.03	1632.03	0 01:05
N25	JUNCTION	0.82	3.55	1612.01	0 00:18
N26A	JUNCTION	0.90	2.43	1608.15	0 01:21

N27	JUNCTION	0.28	1.12	1611.12	0	00:10
N28	JUNCTION	0.26	1.35	1609.35	0	00:10
N28A	JUNCTION	0.26	1.34	1609.02	0	00:10
N29	JUNCTION	0.90	2.43	1607.28	0	01:21
N30	JUNCTION	0.86	1.99	1606.38	0	00:35
N30A	JUNCTION	0.86	1.99	1604.69	0	00:36
N30B	JUNCTION	0.60	1.48	1603.62	0	00:35
N31	JUNCTION	0.92	3.19	1603.00	0	00:35
N31A	JUNCTION	1.11	3.19	1602.56	0	00:35
N32	JUNCTION	1.10	2.62	1599.86	0	00:40
N33	JUNCTION	0.72	3.00	1602.73	0	00:25
N33A	JUNCTION	0.62	2.99	1602.49	0	00:25
N34A	JUNCTION	0.72	3.33	1604.00	0	00:19
N35	JUNCTION	0.00	0.00	1643.80	0	00:00
N36	JUNCTION	0.92	3.97	1609.66	0	00:23
N37	JUNCTION	0.23	0.90	1645.86	0	00:15
N38	JUNCTION	0.79	3.36	1605.77	0	00:24
N38A	JUNCTION	0.59	3.36	1605.36	0	00:24
N39	JUNCTION	1.08	2.51	1613.40	0	00:59
N39A	JUNCTION	0.74	1.69	1609.94	0	00:59
N40	JUNCTION	0.88	3.13	1617.09	0	00:45
N40A	JUNCTION	1.09	3.13	1616.80	0	00:45
N41	JUNCTION	0.84	3.12	1619.61	0	00:42
N41A	JUNCTION	0.87	3.12	1619.38	0	00:42
N42	JUNCTION	1.70	3.47	1624.90	0	00:36
N45	JUNCTION	0.78	2.62	1636.95	0	00:18
N46	JUNCTION	0.99	3.86	1640.80	0	00:17
N47	JUNCTION	0.99	3.86	1641.40	0	00:16
N48	JUNCTION	0.34	1.90	1643.66	0	00:15
N49	JUNCTION	0.21	1.13	1644.22	0	00:15
N50	JUNCTION	0.04	0.24	1644.03	0	00:10
PS7_out	JUNCTION	1.13	2.60	1617.60	0	01:55
N52	JUNCTION	0.19	0.86	1616.06	0	00:10
N53	JUNCTION	0.19	0.87	1642.25	0	00:10
N53A	JUNCTION	0.19	0.87	1639.80	0	00:10
N55A	JUNCTION	0.22	2.10	1630.10	0	00:16
N56	JUNCTION	0.04	0.23	1598.23	0	00:25
N57	JUNCTION	0.00	0.00	0.00	0	00:00
N58	JUNCTION	0.00	0.00	0.00	0	00:00
N59	JUNCTION	0.07	0.45	1601.75	0	00:20
N60	JUNCTION	0.00	0.00	0.00	0	00:00
N61	JUNCTION	0.00	0.00	0.00	0	00:00
N62	JUNCTION	0.62	3.23	1629.39	0	00:15
N63	JUNCTION	0.25	1.23	1641.59	0	00:10
N64	JUNCTION	0.28	1.39	1608.32	0	00:10
N65	JUNCTION	0.77	3.59	1640.19	0	00:15
N65A	JUNCTION	0.77	3.56	1639.71	0	00:16
N66	JUNCTION	0.06	0.26	1622.26	0	00:43
N67	JUNCTION	0.30	1.47	1623.17	0	00:22
N68	JUNCTION	0.00	0.00	1660.00	0	00:00
N69	JUNCTION	0.24	0.97	1627.15	0	00:21
N6A	JUNCTION	0.51	3.38	1619.38	0	00:17
N70	JUNCTION	0.49	1.83	1632.89	0	00:19
N71	JUNCTION	0.68	2.66	1637.36	0	00:17
N72	JUNCTION	0.45	1.86	1639.26	0	00:17
N73	JUNCTION	0.53	2.44	1642.14	0	00:15
N74	JUNCTION	0.40	1.12	1642.19	0	00:10
N75	JUNCTION	0.03	0.19	1656.19	0	00:15
N76	JUNCTION	0.55	2.11	1635.81	0	00:15
N78	JUNCTION	0.27	1.75	1648.84	0	00:16
N79	JUNCTION	0.32	1.48	1654.78	0	00:15
N7A	JUNCTION	0.56	3.11	1623.11	0	00:19
N80	JUNCTION	0.38	1.99	1651.27	0	00:15
N82	JUNCTION	0.00	0.00	1638.00	0	00:00
N83	JUNCTION	0.00	0.00	1638.00	0	00:00
N84	JUNCTION	0.00	0.00	1638.00	0	00:00
N85A	JUNCTION	0.37	1.75	1645.16	0	00:10
N86	JUNCTION	0.32	1.38	1649.76	0	00:10
N87	JUNCTION	0.00	0.00	1599.00	0	00:00
N88	JUNCTION	0.00	0.00	1630.00	0	00:00
N89	JUNCTION	0.00	0.00	1618.00	0	00:00
N90	JUNCTION	0.00	0.00	1611.55	0	00:00

N91	JUNCTION	0.00	0.00	1611.55	0	00:00
N92	JUNCTION	0.70	1.24	1576.24	0	00:58
N93	JUNCTION	0.00	0.00	1630.00	0	00:00
N94	JUNCTION	0.18	0.51	1592.68	0	01:31
N95	JUNCTION	0.16	0.72	1599.85	0	00:22
N96	JUNCTION	0.30	1.36	1601.96	0	00:15
N97	JUNCTION	0.44	1.20	1604.33	0	00:20
N98	JUNCTION	0.41	0.94	1606.94	0	01:26
N99	JUNCTION	0.00	0.00	1596.00	0	00:00
N111A	JUNCTION	0.52	3.26	1626.35	0	00:18
N111	JUNCTION	0.57	3.26	1626.58	0	00:18
N131	JUNCTION	0.37	1.80	1633.79	0	00:10
N112	JUNCTION	0.66	2.74	1636.45	0	00:17
N137	JUNCTION	0.36	2.04	1656.36	0	00:10
N126	JUNCTION	0.48	2.42	1693.42	0	00:15
N127	JUNCTION	0.86	2.72	1638.23	0	01:09
N128	JUNCTION	0.74	3.28	1621.99	0	00:19
N129	JUNCTION	0.55	2.36	1628.48	0	00:15
N133	JUNCTION	0.72	3.19	1631.48	0	00:13
N134	JUNCTION	0.64	2.71	1633.83	0	00:11
N135	JUNCTION	0.51	2.03	1636.35	0	00:10
N113	JUNCTION	0.44	2.53	1618.07	0	00:17
N116	JUNCTION	0.36	1.55	1626.62	0	00:15
N117	JUNCTION	0.46	1.92	1626.10	0	00:15
N114	JUNCTION	0.42	1.61	1624.36	0	00:15
N115	JUNCTION	0.37	1.37	1621.74	0	00:16
N118	JUNCTION	0.61	3.20	1618.39	0	00:15
N119	JUNCTION	0.43	1.98	1627.87	0	00:10
N120	JUNCTION	0.63	3.22	1624.35	0	00:20
N122	JUNCTION	0.41	2.46	1643.19	0	00:15
N123	JUNCTION	0.64	2.59	1624.73	0	00:19
N125	JUNCTION	0.41	1.93	1639.68	0	00:10
N136	JUNCTION	0.05	0.28	1600.18	0	00:10
N96A	JUNCTION	0.30	1.36	1601.46	0	00:15
OUT6	JUNCTION	2.54	3.83	1602.06	0	04:40
OUT4	JUNCTION	1.07	2.42	1599.78	0	00:31
OUT3	JUNCTION	1.11	2.25	1599.35	0	00:37
OUT5	JUNCTION	1.09	3.95	1602.12	0	00:25
N138	JUNCTION	0.00	0.00	0.00	0	00:00
N139	JUNCTION	0.02	0.12	1614.43	0	00:10
N136A	JUNCTION	0.08	0.48	1599.74	0	00:10
N77A	JUNCTION	0.39	1.06	1637.06	0	00:10
N44A_	JUNCTION	0.00	0.00	1624.78	0	00:00
N44A	JUNCTION	1.00	2.48	1627.26	0	00:24
N126A	JUNCTION	0.48	2.42	1693.14	0	00:15
N127A	JUNCTION	0.86	2.72	1637.94	0	01:09
N128A	JUNCTION	0.65	2.78	1620.83	0	00:19
N129A	JUNCTION	0.77	3.28	1623.30	0	00:18
N130A	JUNCTION	0.30	2.00	1659.93	0	00:10
N137A	JUNCTION	0.36	2.03	1655.82	0	00:10
N132A	JUNCTION	0.66	3.02	1645.70	0	00:14
N131A	JUNCTION	0.36	1.79	1633.43	0	00:10
N116A	JUNCTION	0.36	1.54	1624.95	0	00:15
N117A	JUNCTION	0.45	1.92	1625.21	0	00:15
N118A	JUNCTION	0.60	3.20	1616.87	0	00:16
N119A	JUNCTION	0.43	1.99	1627.02	0	00:10
N120A	JUNCTION	0.92	3.43	1622.86	0	00:20
N121A	JUNCTION	0.25	1.56	1635.53	0	00:12
N122A	JUNCTION	0.59	2.44	1640.72	0	00:16
N123A	JUNCTION	0.79	3.03	1621.31	0	00:20
N125A	JUNCTION	0.41	1.90	1637.10	0	00:11
N124A	JUNCTION	0.63	3.08	1644.20	0	00:17
N43	JUNCTION	1.00	2.47	1625.34	0	00:27
N43A	JUNCTION	1.69	3.55	1626.29	0	00:27
N76A	JUNCTION	0.55	2.11	1633.94	0	00:15
N145	JUNCTION	0.19	1.18	1641.18	0	00:20
N145A	JUNCTION	0.19	1.18	1637.63	0	00:20
N73A	JUNCTION	0.52	2.44	1640.64	0	00:15
N74A	JUNCTION	0.39	1.11	1641.76	0	00:10
N72A	JUNCTION	0.45	1.86	1637.94	0	00:17
N71A	JUNCTION	0.68	2.66	1636.96	0	00:18
N70A	JUNCTION	0.49	1.83	1631.87	0	00:19

N144	JUNCTION	0.28	1.91	1651.30	0	00:16
N144A	JUNCTION	0.28	1.91	1650.64	0	00:16
N79A	JUNCTION	0.32	1.48	1652.97	0	00:15
N78A	JUNCTION	0.27	1.75	1648.10	0	00:17
N80A	JUNCTION	0.37	1.97	1649.41	0	00:15
N106	JUNCTION	0.49	1.98	1627.11	0	00:20
N106A	JUNCTION	0.49	1.98	1625.62	0	00:20
N146A	JUNCTION	0.23	1.17	1636.92	0	00:11
N146	JUNCTION	0.23	1.19	1638.18	0	00:10
N81	JUNCTION	2.53	5.05	1606.52	0	01:51
N98A	JUNCTION	0.77	1.84	1607.74	0	01:00
N86A	JUNCTION	0.31	1.37	1648.77	0	00:10
N67A	JUNCTION	0.33	1.47	1622.86	0	00:22
N147A	JUNCTION	0.38	1.15	1634.36	0	00:11
N147	JUNCTION	0.38	1.17	1636.68	0	00:10
PS2_out	JUNCTION	0.40	1.15	1638.66	0	01:09
N8A	JUNCTION	0.33	2.46	1644.79	0	00:15
PS3_out	JUNCTION	1.89	2.82	1603.82	0	03:40
PS4_out	JUNCTION	1.51	2.16	1604.16	0	04:14
PS1_out	JUNCTION	0.90	2.43	1608.43	0	01:21
N10A	JUNCTION	1.93	2.59	1598.97	0	00:48
S17W_out	JUNCTION	0.37	1.01	1642.01	0	01:13
S17E_out	JUNCTION	0.21	0.49	1640.49	0	01:36
S17_out	JUNCTION	0.08	0.13	1630.13	0	04:26
PS5_out	JUNCTION	1.12	1.18	1617.18	0	12:32
PS6_out	JUNCTION	1.08	2.63	1618.13	0	01:14
N12A	JUNCTION	2.24	3.11	1600.28	0	01:11
N4	JUNCTION	0.00	0.24	1642.57	0	00:16
N22	JUNCTION	0.01	0.36	1601.96	0	00:24
N26	JUNCTION	0.00	0.50	1658.43	0	00:10
N51	JUNCTION	0.00	0.51	1620.51	0	00:18
N54	JUNCTION	0.00	0.35	1616.35	0	00:18
N140	JUNCTION	0.00	0.24	1613.49	0	00:18
N141	JUNCTION	0.00	0.35	1634.32	0	00:12
N143	JUNCTION	0.01	0.71	1601.41	0	00:17
N148	JUNCTION	0.00	0.52	1643.20	0	00:17
N149	JUNCTION	0.00	0.17	1601.72	0	00:15
N150	JUNCTION	0.00	0.37	1641.49	0	00:16
N151	JUNCTION	0.00	0.00	1636.00	0	00:00
N152	JUNCTION	0.00	0.15	1634.48	0	00:18
N153	JUNCTION	0.00	0.18	1628.18	0	00:15
N154	JUNCTION	0.00	0.09	1600.76	0	00:19
N155	JUNCTION	7.72	8.30	1609.90	0	00:20
N156	JUNCTION	0.00	0.56	1643.97	0	00:10
OUT1	OUTFALL	1.81	2.54	1598.56	0	00:48
OUT2	OUTFALL	1.50	2.29	1595.89	0	01:21
OUT7	OUTFALL	0.00	0.00	1612.30	0	00:00
OUT8	OUTFALL	0.00	0.00	1626.90	0	00:00
OUT9	OUTFALL	0.00	0.00	1608.00	0	00:00
OUT10	OUTFALL	0.00	0.00	1594.00	0	00:00
OUT11	OUTFALL	0.00	0.00	1596.00	0	00:00
OUT12	OUTFALL	0.07	0.45	1600.83	0	00:20
OUT13	OUTFALL	0.61	3.21	1628.37	0	00:15
OUT14	OUTFALL	0.25	1.23	1640.59	0	00:11
OUT15	OUTFALL	0.00	0.00	1643.80	0	00:00
OUT16	OUTFALL	0.00	0.00	1615.66	0	00:00
OUT17	OUTFALL	0.00	0.00	1622.00	0	00:00
OUT18	OUTFALL	0.33	1.33	1621.90	0	00:23
OUT19	OUTFALL	0.00	0.00	1660.00	0	00:00
OUT20	OUTFALL	0.00	0.00	1575.00	0	00:00
OUT21	OUTFALL	0.00	0.00	1638.00	0	00:00
OUT22	OUTFALL	0.00	0.00	1611.55	0	00:00
OUT23	OUTFALL	0.00	0.00	1599.00	0	00:00
OUT24	OUTFALL	0.00	0.00	1630.00	0	00:00
OUT25	OUTFALL	0.00	0.00	1618.00	0	00:00
OUT27	OUTFALL	0.00	0.00	1630.00	0	00:00
OUT26	OUTFALL	0.00	0.00	1596.47	0	00:00
OUT28	OUTFALL	0.28	1.37	1607.33	0	00:10
N44	DIVIDER	0.78	2.25	1629.79	0	00:24
N8	DIVIDER	0.45	3.00	1645.74	0	00:15
N3	DIVIDER	0.84	2.10	1616.97	0	00:20
N130	DIVIDER	0.30	2.00	1660.27	0	00:09

N7	DIVIDER	0.56	3.75	1624.64	0	00:15
N6	DIVIDER	0.51	4.00	1620.33	0	00:16
N5	DIVIDER	0.50	4.00	1617.80	0	00:17
N121	DIVIDER	0.25	1.75	1637.84	0	00:09
N9	DIVIDER	0.97	4.00	1604.75	0	00:14
N132	DIVIDER	0.45	3.50	1646.45	0	00:14
N142	DIVIDER	0.23	2.00	1603.74	0	00:14
N124	DIVIDER	0.63	3.50	1646.73	0	00:14
N77	DIVIDER	0.39	1.25	1637.68	0	00:10
N46A	DIVIDER	0.45	2.50	1638.67	0	00:16
N55	DIVIDER	0.23	2.50	1630.82	0	00:12
N34	DIVIDER	0.50	3.50	1608.89	0	00:17
N5A	DIVIDER	0.52	4.00	1617.25	0	00:16
N85	DIVIDER	0.37	1.75	1645.43	0	00:09
S17W	STORAGE	4.58	7.63	1648.63	0	01:12
S17E	STORAGE	0.72	2.55	1642.55	0	01:35
S17	STORAGE	4.43	5.03	1635.03	0	04:26
S56	STORAGE	0.80	0.97	0.97	1	01:00
S57	STORAGE	0.67	0.88	0.88	1	01:00
S60	STORAGE	0.91	1.05	1.05	1	01:00
S58	STORAGE	0.72	0.90	0.90	1	01:00
S61	STORAGE	1.05	1.28	1.28	1	01:00
S138	STORAGE	1.07	1.27	1.27	1	01:00
PS2	STORAGE	0.58	3.96	1641.47	0	01:09
PS3	STORAGE	1.98	3.98	1604.98	0	03:39
PS4	STORAGE	1.96	3.99	1605.99	0	04:14
PS5	STORAGE	3.51	3.97	1619.97	0	12:32
PS6	STORAGE	0.95	3.98	1619.48	0	01:14
PS7	STORAGE	1.04	3.89	1618.89	0	01:54
PS1	STORAGE	1.01	4.94	1610.94	0	01:21

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Node InFlow Summary
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Node	Type	Maximum Lateral Inflow CFS	Maximum Total Inflow CFS	Time of Max Occurrence days	hr:min	Lateral Inflow Volume Mgal	Total Inflow Volume Mgal
N1	JUNCTION	120.38	563.41	0	00:21	4.833	40.532
N10	JUNCTION	0.00	114.18	0	00:36	0.000	42.042
N100	JUNCTION	14.19	14.19	0	00:10	0.573	0.573
N101	JUNCTION	36.23	36.23	0	00:15	1.969	1.968
N102	JUNCTION	6.65	6.65	0	00:10	0.545	0.545
N103	JUNCTION	70.65	71.01	0	00:15	5.203	5.844
N104	JUNCTION	176.96	181.96	0	00:15	9.285	11.526
N105	JUNCTION	2.74	2.74	0	01:05	0.742	0.742
N107	JUNCTION	0.00	23.95	0	00:17	0.000	1.588
N108	JUNCTION	78.94	160.52	0	00:35	3.640	12.706
N109	JUNCTION	0.00	5.58	0	00:10	0.000	0.654
N11	JUNCTION	50.43	140.33	0	01:21	4.610	50.723
N110	JUNCTION	0.00	29.87	0	00:10	0.000	2.301
N12	JUNCTION	46.76	125.84	0	01:11	4.135	42.173
N13	JUNCTION	0.00	69.04	0	04:11	0.000	29.723
N14	JUNCTION	70.29	70.29	0	00:15	3.813	3.813
N14A	JUNCTION	0.00	70.12	0	00:15	0.000	3.813
N15	JUNCTION	104.79	218.93	0	00:15	5.243	11.535
N16	JUNCTION	103.17	103.17	0	00:15	5.359	7.818
N16A	JUNCTION	0.00	102.78	0	00:15	0.000	7.817
N17	JUNCTION	27.12	27.12	0	00:10	3.886	4.167
N17A	JUNCTION	0.00	26.71	0	00:10	0.000	4.166
N18	JUNCTION	21.10	122.00	0	00:16	1.027	8.841
N18A	JUNCTION	128.73	247.25	0	00:15	3.671	12.511
N19	JUNCTION	9.04	9.04	0	00:10	0.421	0.421
N2	JUNCTION	0.00	68.30	0	04:13	0.000	29.304
N20	JUNCTION	7.76	41.70	0	00:25	1.844	4.534
N20A	JUNCTION	0.00	41.71	0	00:25	0.000	4.534
N21	JUNCTION	54.32	54.32	0	00:15	2.616	2.616
N21A	JUNCTION	0.00	54.27	0	00:15	0.000	2.615

N23	JUNCTION	63.56	179.46	0	00:17	3.757	10.369
N24	JUNCTION	1.16	1.16	0	01:05	0.285	0.285
N25	JUNCTION	9.34	188.36	0	00:18	0.266	10.631
N26A	JUNCTION	0.00	69.57	0	01:21	0.000	13.119
N27	JUNCTION	17.70	17.70	0	00:10	0.940	0.940
N28	JUNCTION	12.61	12.61	0	00:10	0.521	0.521
N28A	JUNCTION	0.00	12.56	0	00:10	0.000	0.521
N29	JUNCTION	29.62	82.01	0	00:35	1.240	14.357
N30	JUNCTION	0.00	87.63	0	00:35	0.000	14.876
N30A	JUNCTION	10.50	93.49	0	00:35	0.314	15.186
N30B	JUNCTION	0.00	93.47	0	00:35	0.000	15.184
N31	JUNCTION	64.52	142.57	0	00:35	3.119	18.292
N31A	JUNCTION	0.00	142.46	0	00:35	0.000	18.288
N32	JUNCTION	38.76	157.58	0	00:37	2.631	20.908
N33	JUNCTION	0.32	130.14	0	00:25	0.055	7.368
N33A	JUNCTION	0.00	130.12	0	00:25	0.000	7.368
N34A	JUNCTION	3.09	163.07	0	00:19	0.158	7.285
N35	JUNCTION	34.87	34.87	0	00:10	1.421	1.421
N36	JUNCTION	47.36	213.24	0	00:23	2.533	14.911
N37	JUNCTION	14.68	14.68	0	00:15	0.745	0.745
N38	JUNCTION	38.69	172.46	0	00:24	1.889	11.243
N38A	JUNCTION	0.00	172.39	0	00:24	0.000	11.242
N39	JUNCTION	17.49	267.50	0	00:59	3.908	34.084
N39A	JUNCTION	0.00	267.12	0	00:59	0.000	34.081
N40	JUNCTION	6.64	273.57	0	00:45	0.916	30.319
N40A	JUNCTION	0.00	273.57	0	00:45	0.000	30.318
N41	JUNCTION	10.98	273.09	0	00:42	1.488	29.451
N41A	JUNCTION	0.00	273.07	0	00:42	0.000	29.450
N42	JUNCTION	38.06	279.11	0	00:36	3.731	27.324
N45	JUNCTION	62.52	280.11	0	00:18	3.732	16.827
N46	JUNCTION	27.65	223.46	0	00:17	1.656	13.098
N47	JUNCTION	18.11	200.36	0	00:16	0.820	11.445
N48	JUNCTION	73.35	185.54	0	00:15	4.228	10.626
N49	JUNCTION	103.51	112.93	0	00:15	5.981	6.400
N50	JUNCTION	9.82	9.82	0	00:10	0.419	0.419
PS7_out	JUNCTION	0.00	98.75	0	01:55	0.000	22.669
N52	JUNCTION	20.71	20.71	0	00:10	0.868	0.868
N53	JUNCTION	14.44	14.44	0	00:10	0.708	0.708
N53A	JUNCTION	0.00	14.48	0	00:10	0.000	0.708
N55A	JUNCTION	0.00	71.28	0	00:15	0.000	2.200
N56	JUNCTION	105.69	105.70	0	00:10	6.578	8.879
N57	JUNCTION	3.94	3.94	0	00:10	1.055	1.055
N58	JUNCTION	30.40	30.40	0	00:10	4.381	4.380
N59	JUNCTION	32.65	32.65	0	00:20	1.378	1.378
N60	JUNCTION	181.09	181.09	0	00:15	9.230	9.230
N61	JUNCTION	90.29	90.29	0	00:20	6.815	6.814
N62	JUNCTION	100.13	100.13	0	00:15	4.779	4.779
N63	JUNCTION	16.69	16.69	0	00:10	0.677	0.677
N64	JUNCTION	13.27	13.27	0	00:10	0.562	0.562
N65	JUNCTION	156.01	156.01	0	00:15	8.828	8.828
N65A	JUNCTION	0.00	154.56	0	00:16	0.000	8.824
N66	JUNCTION	184.03	192.60	0	00:20	6.235	9.657
N67	JUNCTION	17.42	191.07	0	00:22	0.798	13.711
N68	JUNCTION	13.57	13.57	0	00:10	0.484	0.484
N69	JUNCTION	86.91	193.91	0	00:21	6.920	15.011
N6A	JUNCTION	0.00	283.15	0	00:17	0.000	13.785
N70	JUNCTION	5.71	100.78	0	00:19	0.272	6.844
N71	JUNCTION	5.78	98.40	0	00:17	0.282	6.579
N72	JUNCTION	12.06	95.01	0	00:17	0.891	6.301
N73	JUNCTION	79.91	79.91	0	00:15	4.215	4.215
N74	JUNCTION	12.95	12.95	0	00:10	1.188	1.188
N75	JUNCTION	13.94	13.94	0	00:15	0.636	0.636
N76	JUNCTION	62.86	62.86	0	00:15	4.204	4.203
N78	JUNCTION	7.31	63.85	0	00:16	0.451	3.273
N79	JUNCTION	49.95	49.95	0	00:15	2.337	2.337
N7A	JUNCTION	57.19	262.98	0	00:17	1.593	13.198
N80	JUNCTION	84.55	84.55	0	00:15	3.986	3.986
N82	JUNCTION	4.44	4.44	0	00:10	0.180	0.180
N83	JUNCTION	0.29	0.29	0	01:05	0.038	0.038
N84	JUNCTION	1.84	1.84	0	01:05	0.436	0.436
N85A	JUNCTION	0.00	13.65	0	00:10	0.000	0.854
N86	JUNCTION	15.28	15.28	0	00:10	0.747	0.747

N87	JUNCTION	28.53	28.53	0	00:10	1.885	1.885
N88	JUNCTION	9.18	9.18	0	00:10	0.560	0.560
N89	JUNCTION	6.71	6.71	0	00:10	0.243	0.243
N90	JUNCTION	13.09	13.09	0	00:10	0.464	0.464
N91	JUNCTION	14.97	14.97	0	00:10	1.095	1.095
N92	JUNCTION	289.00	650.12	0	00:59	22.911	172.080
N93	JUNCTION	3.97	3.97	0	00:10	0.202	0.202
N94	JUNCTION	6.13	53.58	0	01:31	1.661	8.663
N95	JUNCTION	48.77	91.52	0	00:22	2.318	6.285
N96	JUNCTION	75.39	75.39	0	00:15	3.927	3.927
N97	JUNCTION	122.34	123.25	0	00:20	7.459	16.550
N98	JUNCTION	66.51	113.06	0	01:26	4.081	20.865
N99	JUNCTION	14.46	14.46	0	00:10	0.497	0.497
N111A	JUNCTION	0.00	212.90	0	00:18	0.000	11.593
N111	JUNCTION	36.73	212.78	0	00:18	1.802	11.594
N131	JUNCTION	25.19	25.19	0	00:10	1.104	1.104
N112	JUNCTION	38.51	162.70	0	00:17	2.034	8.689
N137	JUNCTION	28.74	28.74	0	00:10	1.134	1.134
N126	JUNCTION	58.08	58.08	0	00:15	2.706	2.706
N127	JUNCTION	0.00	80.96	0	01:09	0.000	9.060
N128	JUNCTION	0.00	190.99	0	00:19	0.000	18.016
N129	JUNCTION	56.79	56.79	0	00:15	3.123	3.123
N133	JUNCTION	37.74	118.33	0	00:13	1.810	6.297
N134	JUNCTION	31.87	81.52	0	00:11	1.606	4.490
N135	JUNCTION	52.16	52.16	0	00:10	2.886	2.886
N113	JUNCTION	22.36	118.90	0	00:17	1.007	6.614
N116	JUNCTION	20.35	20.35	0	00:15	1.078	1.078
N117	JUNCTION	34.88	34.88	0	00:15	1.976	1.976
N114	JUNCTION	27.85	27.85	0	00:15	1.445	1.863
N115	JUNCTION	17.91	71.71	0	00:16	0.695	3.747
N118	JUNCTION	35.23	99.48	0	00:15	1.629	4.624
N119	JUNCTION	70.56	70.56	0	00:10	2.994	2.994
N120	JUNCTION	98.38	186.30	0	00:20	6.108	12.396
N122	JUNCTION	84.91	84.91	0	00:15	5.082	5.082
N123	JUNCTION	56.69	152.79	0	00:19	3.172	9.376
N125	JUNCTION	47.69	47.69	0	00:10	2.034	2.034
N136	JUNCTION	47.30	47.30	0	00:10	1.976	1.976
N96A	JUNCTION	0.00	75.02	0	00:15	0.000	3.927
OUT6	JUNCTION	0.67	266.52	0	04:30	0.046	96.915
OUT4	JUNCTION	0.00	385.69	0	00:43	0.000	118.847
OUT3	JUNCTION	0.73	539.47	0	00:42	0.125	139.759
OUT5	JUNCTION	0.00	296.31	0	04:21	0.000	111.783
N138	JUNCTION	0.00	0.00	0	00:00	0.000	0.000
N139	JUNCTION	16.41	16.41	0	00:10	0.751	0.751
N136A	JUNCTION	0.00	46.61	0	00:10	0.000	1.976
N77A	JUNCTION	0.00	4.69	0	00:10	0.000	0.694
N44A_	JUNCTION	0.00	0.00	0	00:00	0.000	0.000
N44A	JUNCTION	0.00	261.74	0	00:24	0.000	19.275
N126A	JUNCTION	0.00	58.02	0	00:15	0.000	2.706
N127A	JUNCTION	0.00	80.96	0	01:09	0.000	9.059
N128A	JUNCTION	0.00	190.98	0	00:19	0.000	18.015
N129A	JUNCTION	114.13	191.04	0	00:18	5.852	18.019
N130A	JUNCTION	0.00	18.16	0	00:10	0.000	0.687
N137A	JUNCTION	0.00	43.75	0	00:12	0.000	1.821
N132A	JUNCTION	0.00	130.85	0	00:17	0.000	6.658
N131A	JUNCTION	0.00	24.99	0	00:10	0.000	1.104
N116A	JUNCTION	0.00	20.28	0	00:15	0.000	1.078
N117A	JUNCTION	0.00	34.76	0	00:15	0.000	1.976
N118A	JUNCTION	0.00	99.26	0	00:16	0.000	4.623
N119A	JUNCTION	0.00	70.74	0	00:10	0.000	2.992
N120A	JUNCTION	0.00	186.13	0	00:20	0.000	12.393
N121A	JUNCTION	0.00	12.86	0	00:12	0.000	0.440
N122A	JUNCTION	0.00	84.06	0	00:16	0.000	5.081
N123A	JUNCTION	0.00	152.31	0	00:20	0.000	9.369
N125A	JUNCTION	0.00	46.37	0	00:11	0.000	2.033
N124A	JUNCTION	0.00	76.35	0	00:17	0.000	4.157
N43	JUNCTION	0.00	258.69	0	00:27	0.000	19.256
N43A	JUNCTION	0.00	258.71	0	00:27	0.000	19.255
N76A	JUNCTION	0.00	62.83	0	00:15	0.000	4.202
N145	JUNCTION	19.41	19.41	0	00:20	0.583	0.583
N145A	JUNCTION	0.00	19.34	0	00:20	0.000	0.583
N73A	JUNCTION	0.00	79.65	0	00:15	0.000	4.214

N74A	JUNCTION	0.00	12.81	0	00:10	0.000	1.188
N72A	JUNCTION	0.00	94.96	0	00:17	0.000	6.300
N71A	JUNCTION	0.00	98.29	0	00:18	0.000	6.576
N70A	JUNCTION	0.00	100.69	0	00:19	0.000	6.841
N144	JUNCTION	7.78	57.39	0	00:16	0.487	2.823
N144A	JUNCTION	0.00	57.34	0	00:16	0.000	2.823
N79A	JUNCTION	0.00	49.94	0	00:15	0.000	2.336
N78A	JUNCTION	0.00	63.84	0	00:17	0.000	3.273
N80A	JUNCTION	0.00	83.91	0	00:15	0.000	3.985
N106	JUNCTION	143.72	175.06	0	00:20	8.800	12.917
N106A	JUNCTION	0.00	175.15	0	00:20	0.000	12.917
N146A	JUNCTION	0.00	10.31	0	00:11	0.000	0.404
N146	JUNCTION	10.59	10.59	0	00:10	0.404	0.404
N81	JUNCTION	218.62	388.35	0	01:51	15.985	87.409
N98A	JUNCTION	0.00	365.72	0	01:00	0.000	54.906
N86A	JUNCTION	0.00	15.02	0	00:10	0.000	0.747
N67A	JUNCTION	0.00	191.04	0	00:22	0.000	13.710
N147A	JUNCTION	0.00	14.48	0	00:11	0.000	1.254
N147	JUNCTION	15.04	15.04	0	00:10	1.255	1.255
PS2_out	JUNCTION	0.00	80.96	0	01:09	0.000	9.061
N8A	JUNCTION	12.55	227.37	0	00:15	0.438	9.147
PS3_out	JUNCTION	0.00	93.60	0	03:40	0.000	38.426
PS4_out	JUNCTION	0.00	67.73	0	04:14	0.000	28.881
PS1_out	JUNCTION	0.00	69.57	0	01:21	0.000	13.120
N10A	JUNCTION	40.50	115.14	0	00:48	3.999	45.936
S17W_out	JUNCTION	0.00	12.88	0	01:13	0.000	1.464
S17E_out	JUNCTION	0.00	14.98	0	01:36	0.000	2.147
S17_out	JUNCTION	0.00	7.56	0	04:26	0.000	2.504
PS5_out	JUNCTION	0.00	10.40	0	12:32	0.000	6.518
PS6_out	JUNCTION	0.00	105.56	0	01:14	0.000	21.837
N12A	JUNCTION	0.00	125.83	0	01:11	0.000	42.172
N4	JUNCTION	0.00	5.83	0	00:16	0.000	0.012
N22	JUNCTION	0.00	2.99	0	00:24	0.000	0.028
N26	JUNCTION	0.00	2.16	0	00:10	0.000	0.002
N51	JUNCTION	0.00	5.75	0	00:18	0.000	0.008
N54	JUNCTION	0.00	9.35	0	00:18	0.000	0.012
N140	JUNCTION	0.00	5.89	0	00:18	0.000	0.005
N141	JUNCTION	0.00	0.93	0	00:12	0.000	0.001
N143	JUNCTION	0.00	2.04	0	00:17	0.000	0.009
N148	JUNCTION	0.00	3.92	0	00:17	0.000	0.006
N149	JUNCTION	0.00	0.22	0	00:15	0.000	0.000
N150	JUNCTION	0.00	1.69	0	00:16	0.000	0.002
N151	JUNCTION	0.00	0.00	0	00:00	0.000	0.000
N152	JUNCTION	0.00	2.92	0	00:18	0.000	0.003
N153	JUNCTION	0.00	1.72	0	00:15	0.000	0.002
N154	JUNCTION	0.00	0.84	0	00:19	0.000	0.002
N155	JUNCTION	0.00	23.76	0	00:20	0.000	0.035
N156	JUNCTION	0.00	2.45	0	00:10	0.000	0.002
OUT1	OUTFALL	0.00	115.14	0	00:48	0.000	45.935
OUT2	OUTFALL	0.00	140.33	0	01:21	0.000	50.721
OUT7	OUTFALL	0.00	23.95	0	00:17	0.000	1.588
OUT8	OUTFALL	0.00	6.65	0	00:10	0.000	0.545
OUT9	OUTFALL	0.00	36.23	0	00:15	0.000	1.968
OUT10	OUTFALL	0.00	14.19	0	00:10	0.000	0.573
OUT11	OUTFALL	0.00	14.46	0	00:10	0.000	0.497
OUT12	OUTFALL	0.00	32.60	0	00:20	0.000	1.378
OUT13	OUTFALL	0.00	99.67	0	00:15	0.000	4.778
OUT14	OUTFALL	0.00	16.58	0	00:11	0.000	0.677
OUT15	OUTFALL	0.00	34.87	0	00:10	0.000	1.421
OUT16	OUTFALL	227.40	365.57	0	00:35	16.039	28.744
OUT17	OUTFALL	0.00	192.60	0	00:20	0.000	9.657
OUT18	OUTFALL	0.00	191.01	0	00:23	0.000	13.706
OUT19	OUTFALL	0.00	13.57	0	00:10	0.000	0.484
OUT20	OUTFALL	0.00	650.12	0	00:59	0.000	172.080
OUT21	OUTFALL	0.00	5.58	0	00:10	0.000	0.654
OUT22	OUTFALL	0.00	29.87	0	00:10	0.000	2.301
OUT23	OUTFALL	0.00	28.53	0	00:10	0.000	1.885
OUT24	OUTFALL	0.00	9.18	0	00:10	0.000	0.560
OUT25	OUTFALL	0.00	6.71	0	00:10	0.000	0.243
OUT27	OUTFALL	0.00	3.97	0	00:10	0.000	0.202
OUT26	OUTFALL	0.00	181.96	0	00:15	0.000	11.526
OUT28	OUTFALL	0.00	13.03	0	00:10	0.000	0.562

N44	DIVIDER	25.93	261.78	0	00:24	2.360	19.275
N8	DIVIDER	200.70	212.79	0	00:15	5.908	8.702
N3	DIVIDER	41.78	202.86	0	00:22	1.620	19.640
N130	DIVIDER	18.25	18.25	0	00:10	0.687	0.687
N7	DIVIDER	0.31	212.72	0	00:18	0.010	11.601
N6	DIVIDER	20.65	277.36	0	00:17	0.584	13.778
N5	DIVIDER	39.38	319.48	0	00:18	1.459	15.240
N121	DIVIDER	12.59	12.59	0	00:10	0.439	0.439
N9	DIVIDER	92.94	92.94	0	00:15	3.596	3.596
N132	DIVIDER	92.62	130.28	0	00:15	4.832	6.654
N142	DIVIDER	15.17	15.17	0	00:15	0.425	0.425
N124	DIVIDER	73.92	73.92	0	00:15	4.158	4.157
N77	DIVIDER	4.59	4.59	0	00:10	0.694	0.694
N46A	DIVIDER	0.00	223.49	0	00:17	0.000	13.098
N55	DIVIDER	70.27	70.27	0	00:15	2.199	2.199
N34	DIVIDER	53.39	145.46	0	00:18	2.509	7.126
N5A	DIVIDER	0.00	339.19	0	00:18	0.000	15.992
N85	DIVIDER	13.78	13.78	0	00:10	0.854	0.854
S17W	STORAGE	34.13	34.13	0	00:15	1.614	1.614
S17E	STORAGE	13.54	20.00	0	01:05	0.688	2.152
S17	STORAGE	42.97	46.14	0	00:16	1.837	3.983
S56	STORAGE	0.00	105.70	0	00:10	0.000	8.879
S57	STORAGE	0.00	3.94	0	00:10	0.000	1.055
S60	STORAGE	0.00	181.09	0	00:15	0.000	9.230
S58	STORAGE	0.00	30.40	0	00:10	0.000	4.380
S61	STORAGE	0.00	90.29	0	00:20	0.000	6.814
S138	STORAGE	201.18	201.18	0	00:15	11.936	11.935
PS2	STORAGE	0.00	226.38	0	00:15	0.000	9.147
PS3	STORAGE	0.00	563.41	0	00:21	0.000	40.532
PS4	STORAGE	215.32	216.61	0	00:15	7.487	30.129
PS5	STORAGE	17.17	235.72	0	00:15	1.212	12.745
PS6	STORAGE	60.80	300.30	0	00:18	3.132	22.170
PS7	STORAGE	20.37	113.86	0	01:05	0.966	22.800
PS1	STORAGE	32.07	230.20	0	00:18	1.699	13.263

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Node Surcharge Summary
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Surcharging occurs when water rises above the top of the highest conduit.

Node	Type	Hours Surcharged	Max. Height Above Crown Feet	Min. Depth Below Rim Feet
N100	JUNCTION	25.01	0.000	10.000
N101	JUNCTION	25.01	0.000	10.000
N102	JUNCTION	25.01	0.000	10.000
N105	JUNCTION	25.01	0.000	10.000
N109	JUNCTION	25.01	0.000	10.000
N110	JUNCTION	25.01	0.000	10.000
N35	JUNCTION	25.01	0.000	10.000
N57	JUNCTION	25.01	0.000	10.000
N58	JUNCTION	25.01	0.000	10.000
N60	JUNCTION	25.01	0.000	10.000
N61	JUNCTION	25.01	0.000	10.000
N68	JUNCTION	25.01	0.000	10.000
N82	JUNCTION	25.01	0.000	10.000
N83	JUNCTION	25.01	0.000	10.000
N84	JUNCTION	25.01	0.000	10.000
N87	JUNCTION	25.01	0.000	10.000
N88	JUNCTION	25.01	0.000	10.000
N89	JUNCTION	25.01	0.000	10.000
N90	JUNCTION	25.01	0.000	10.000
N91	JUNCTION	25.01	0.000	10.000
N93	JUNCTION	25.01	0.000	10.000
N99	JUNCTION	25.01	0.000	10.000
N138	JUNCTION	25.01	0.000	0.000
N130	DIVIDER	0.05	0.000	0.000
N7	DIVIDER	0.07	0.000	0.000
N6	DIVIDER	0.07	0.000	0.000

N5	DIVIDER	0.04	0.000	0.000
N121	DIVIDER	0.04	0.000	0.000
N9	DIVIDER	0.05	0.000	0.000
N142	DIVIDER	0.03	0.000	0.000
N124	DIVIDER	0.04	0.000	0.000
N77	DIVIDER	0.01	0.000	0.000
N55	DIVIDER	0.07	0.000	0.000
N5A	DIVIDER	0.09	0.000	0.000
N85	DIVIDER	0.06	0.000	0.000
S17W	STORAGE	24.73	3.625	0.375
S56	STORAGE	25.01	0.967	1.033
S57	STORAGE	25.01	0.877	1.123
S60	STORAGE	25.01	1.048	0.952
S58	STORAGE	25.01	0.901	1.099
S61	STORAGE	25.01	1.282	0.718
S138	STORAGE	25.01	1.268	0.732
PS2	STORAGE	1.31	0.960	0.040
PS3	STORAGE	7.07	0.975	0.025
PS4	STORAGE	4.00	0.491	0.009
PS5	STORAGE	18.66	0.472	0.028
PS6	STORAGE	1.02	0.535	0.025
PS7	STORAGE	1.32	0.389	0.111

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Node Flooding Summary
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Flooding refers to all water that overflows a node, whether it ponds or not.

Node	Hours Flooded	Maximum Rate CFS	Time of Max Occurrence days hr:min	Total Flood Volume Mgal	Maximum Ponded Volume acre-in
N130	0.05	0.00	0 00:00	0.000	0.00
N7	0.07	0.00	0 00:00	0.000	0.00
N6	0.07	0.00	0 00:00	0.000	0.00
N5	0.04	0.00	0 00:00	0.000	0.00
N121	0.04	0.00	0 00:00	0.000	0.00
N9	0.05	0.00	0 00:00	0.000	0.00
N142	0.03	0.00	0 00:00	0.000	0.00
N124	0.04	0.00	0 00:00	0.000	0.00
N77	0.01	0.00	0 00:00	0.000	0.00
N55	0.07	0.00	0 00:00	0.000	0.00
N5A	0.09	0.00	0 00:00	0.000	0.00
N85	0.06	0.00	0 00:00	0.000	0.00

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Storage Volume Summary
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Storage Unit	Average Volume 1000 ft3	Avg Pcnt Full	Maximum Volume 1000 ft3	Max Pcnt Full	Time of Max Occurrence days hr:min	Maximum Outflow CFS
S17W	24.366	39	57.297	92	0 01:12	12.88
S17E	5.152	3	32.734	18	0 01:35	14.98
S17	214.933	39	268.422	49	0 04:26	7.56
S56	847.252	17	1187.057	23	1 01:00	0.00
S57	90.325	12	141.090	19	1 01:00	0.00
S60	954.244	21	1233.895	27	1 01:00	0.00
S58	400.309	14	585.611	20	1 01:00	0.00
S61	637.735	29	910.997	41	1 01:00	0.00
S138	1184.530	30	1595.653	40	1 01:00	0.00
PS2	40.531	14	295.108	99	0 01:09	80.96
PS3	955.490	49	1954.541	99	0 03:39	93.60
PS4	485.014	48	1018.489	100	0 04:14	67.73
PS5	854.707	87	973.563	99	0 12:32	10.40
PS6	84.857	22	378.724	99	0 01:14	105.56

PS7	36.073	23	151.111	97	0	01:54	98.75
PS1	68.905	19	359.469	99	0	01:21	69.57

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Outfall Loading Summary
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Outfall Node	Flow Freq. Pcnt.	Avg. Flow CFS	Max. Flow CFS	Total Volume Mgal
OUT1	99.67	68.44	115.14	45.935
OUT2	99.67	75.58	140.33	50.721
OUT7	99.67	2.37	23.95	1.588
OUT8	99.67	0.81	6.65	0.545
OUT9	99.67	2.93	36.23	1.968
OUT10	99.67	0.85	14.19	0.573
OUT11	99.67	0.74	14.46	0.497
OUT12	99.63	2.05	32.60	1.378
OUT13	99.67	7.12	99.67	4.778
OUT14	99.63	1.01	16.58	0.677
OUT15	99.67	2.12	34.87	1.421
OUT16	99.67	42.83	365.57	28.744
OUT17	99.67	14.39	192.60	9.657
OUT18	99.53	20.45	191.01	13.706
OUT19	99.67	0.72	13.57	0.484
OUT20	99.67	256.40	650.12	172.080
OUT21	99.67	0.97	5.58	0.654
OUT22	99.67	3.43	29.87	2.301
OUT23	99.67	2.81	28.53	1.885
OUT24	99.67	0.83	9.18	0.560
OUT25	99.67	0.36	6.71	0.243
OUT27	99.67	0.30	3.97	0.202
OUT26	99.67	17.17	181.96	11.526
OUT28	99.63	0.84	13.03	0.562
System	99.66	525.53	1711.64	352.684

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Link Flow Summary
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Link	Type	Maximum Flow CFS	Time of Max Occurrence days	hr:min	Maximum Velocity ft/sec	Max/ Full Flow	Max/ Full Depth
C100-10	DUMMY	14.19	0	00:10			
C10-10A	CONDUIT	105.27	0	00:48	2.79	0.92	0.96
C101-9	DUMMY	36.23	0	00:15			
C103-97	CONDUIT	27.06	0	01:48	1.03	0.01	0.07
C104-26	DUMMY	181.96	0	00:15			
C105-110	DUMMY	2.74	0	01:05			
C107-7	DUMMY	23.95	0	00:17			
C108-16	DUMMY	160.52	0	00:35			
C109-21	DUMMY	5.58	0	00:10			
PS3-10	CONDUIT	93.60	0	03:40	8.31	0.94	0.80
C11-2	CONDUIT	140.33	0	01:21	11.25	0.75	0.60
C12A-11	CONDUIT	124.75	0	01:24	2.50	0.81	0.91
C102-8	DUMMY	6.65	0	00:10			
C13-12	CONDUIT	69.01	0	04:30	1.63	0.28	0.58
C14-14A	CONDUIT	70.12	0	00:15	8.44	0.99	0.81
C14A-12	CONDUIT	44.44	0	00:40	1.78	0.01	0.06
C15-PS5	CONDUIT	218.55	0	00:15	19.27	0.94	0.81
C16-16A	CONDUIT	102.78	0	00:15	14.40	0.36	0.40
C16A-18	CONDUIT	101.62	0	00:16	6.02	0.98	0.99
C61-S61	DUMMY	90.29	0	00:20			
C17-17A	CONDUIT	26.71	0	00:10	7.33	0.08	0.15
C17A-11	CONDUIT	12.65	0	00:25	1.11	0.00	0.03

C18-18A	CONDUIT	121.85	0	00:16	10.12	0.23	0.30
C18A-PS7	CONDUIT	239.02	0	00:18	5.84	0.81	0.91
C19-13	CONDUIT	8.95	0	00:11	3.86	0.07	0.30
C20-20A	CONDUIT	41.71	0	00:25	6.72	0.29	0.34
C20A-12	CONDUIT	31.62	0	00:55	1.49	0.01	0.06
C66-17	DUMMY	192.60	0	00:20			
C21-21A	CONDUIT	54.27	0	00:15	8.19	0.76	0.65
C2-13	CONDUIT	68.30	0	04:13	11.14	0.62	0.58
C21A-20	CONDUIT	39.36	0	00:25	1.82	0.01	0.06
C23-25	CONDUIT	179.20	0	00:18	5.63	0.29	0.59
C24-17	CONDUIT	0.87	0	03:48	0.39	0.00	0.01
C25-PS1	CONDUIT	188.16	0	00:19	6.34	0.85	0.71
C26A-29	CONDUIT	69.57	0	01:21	8.18	0.95	0.81
C27-PS1	CONDUIT	17.55	0	00:10	9.89	0.59	0.55
C28-28A	CONDUIT	12.56	0	00:10	5.64	0.79	0.67
C28A-30	CONDUIT	12.54	0	00:10	7.12	0.58	0.55
C29-30	CONDUIT	81.98	0	00:35	8.51	0.48	0.48
C30-30A	CONDUIT	87.58	0	00:36	7.78	0.62	0.57
C30A-30B	CONDUIT	93.47	0	00:35	8.33	0.22	0.28
C30B-31	CONDUIT	92.46	0	00:40	2.62	0.14	0.37
C3-1	CONDUIT	182.00	0	00:41	4.05	0.92	0.96
C31-31A	CONDUIT	142.46	0	00:35	6.87	0.95	0.80
C31A-32	CONDUIT	141.32	0	00:40	3.18	0.22	0.52
C32-3	CONDUIT	157.58	0	00:37	4.52	0.15	0.45
C33-33A	CONDUIT	130.12	0	00:25	9.66	0.85	0.75
C33A-4	CONDUIT	124.51	0	00:31	3.24	0.10	0.37
C34-34A	CONDUIT	160.58	0	00:19	10.54	1.11	0.91
C34A-33	CONDUIT	130.04	0	00:25	2.42	0.14	0.41
C35-15	DUMMY	34.87	0	00:10			
C36-5	CONDUIT	212.25	0	00:25	10.83	0.91	0.79
C37-120	CONDUIT	11.18	0	00:25	5.40	0.04	0.13
C38-38A	CONDUIT	172.39	0	00:24	10.27	0.74	0.67
C39-39A	CONDUIT	267.12	0	00:59	16.68	0.58	0.50
C39A-98A	CONDUIT	266.72	0	01:00	4.55	0.03	0.25
C40-40A	CONDUIT	273.57	0	00:45	11.64	0.94	0.78
C40A-39	CONDUIT	260.76	0	00:59	2.81	0.56	0.78
C41-41A	CONDUIT	273.07	0	00:42	11.66	0.93	0.78
C41A-40	CONDUIT	271.64	0	00:45	3.29	0.89	0.95
C42-41	CHANNEL	268.46	0	00:42	3.45	0.02	0.21
C44A-43	CHANNEL	258.69	0	00:27	5.62	0.06	0.37
C45-44	CHANNEL	250.48	0	00:24	6.25	0.02	0.36
C46-46A	CONDUIT	223.49	0	00:17	14.84	0.18	0.25
C46A-45	CONDUIT	219.95	0	00:16	11.75	1.00	1.00
C47-46	CHANNEL	199.96	0	00:17	4.23	0.55	0.80
C48-47	CONDUIT	183.12	0	00:16	8.20	0.55	0.54
C49-48	CONDUIT	112.23	0	00:15	8.30	0.26	0.32
C50-49	CONDUIT	9.82	0	00:10	3.44	0.02	0.07
PS7-PS4	CONDUIT	98.75	0	01:56	10.85	0.84	0.74
C52-107	CONDUIT	20.55	0	00:10	15.99	0.38	0.43
C53-53A	CONDUIT	14.48	0	00:10	13.58	0.64	0.58
C53A-107	CONDUIT	11.48	0	00:23	2.85	0.03	0.21
C55-55A	CONDUIT	69.65	0	00:16	8.39	1.02	0.92
C5-5A	CONDUIT	323.05	0	00:20	12.24	1.03	0.92
C55A-56	CONDUIT	52.10	0	00:25	2.42	0.01	0.06
C56-S56	DUMMY	105.70	0	00:10			
C57-S57	DUMMY	3.94	0	00:10			
C58-S58	DUMMY	30.40	0	00:10			
C59-12	CONDUIT	32.60	0	00:20	4.55	0.05	0.11
C5A-1	CONDUIT	354.40	0	00:21	13.05	1.13	0.92
C60-S60	DUMMY	181.09	0	00:15			
C62-13	CONDUIT	99.67	0	00:15	9.25	0.98	0.80
C63-14	CONDUIT	16.58	0	00:11	6.09	0.35	0.41
C64-28	CONDUIT	13.03	0	00:10	5.72	0.81	0.68
C65-65A	CONDUIT	154.56	0	00:16	5.75	0.97	0.79
C65A-108	CONDUIT	110.66	0	00:40	2.59	0.03	0.11
C6-6A	CONDUIT	276.07	0	00:17	11.69	1.03	0.92
C67-67A	CONDUIT	191.04	0	00:22	7.86	0.32	0.37
C68-19	DUMMY	13.57	0	00:10			
C69-98	CONDUIT	100.67	0	01:30	1.73	0.05	0.15
C6A-5	CONDUIT	282.29	0	00:18	11.18	0.78	0.87
C70-70A	CONDUIT	100.69	0	00:19	7.42	0.69	0.61
C71-71A	CONDUIT	98.29	0	00:18	5.55	0.78	0.66

C72-72A	CONDUIT	94.96	0	00:17	10.30	0.68	0.56
C73-73A	CONDUIT	79.65	0	00:15	11.18	0.83	0.69
C74-74A	CONDUIT	12.81	0	00:10	5.44	0.29	0.37
C75-97	CONDUIT	5.28	0	02:20	0.71	0.00	0.02
C76A-42	CONDUIT	45.05	0	00:25	2.00	0.00	0.06
C77A-41	CHANNEL	2.71	0	01:10	3.55	0.00	0.04
C7-7A	CONDUIT	216.79	0	00:19	10.21	1.05	0.90
C78A-66	CONDUIT	51.55	0	00:43	2.08	0.01	0.06
C79-79A	CONDUIT	49.94	0	00:15	12.86	0.37	0.42
C7A-6	CONDUIT	262.13	0	00:17	11.45	0.74	0.84
C106A-67	CONDUIT	174.81	0	00:22	4.15	0.10	0.27
C82-109	DUMMY	4.44	0	00:10			
C83-109	DUMMY	0.29	0	01:05			
C84-109	DUMMY	1.84	0	01:05			
C85-85A	CONDUIT	11.61	0	00:12	5.40	1.04	1.00
C85A-92	CONDUIT	4.52	0	01:15	0.86	0.00	0.01
C86A-92	CONDUIT	5.64	0	01:15	1.10	0.00	0.01
C87-23	DUMMY	28.53	0	00:10			
C88-24	DUMMY	9.18	0	00:10			
C89-25	DUMMY	6.71	0	00:10			
C90-110	DUMMY	13.09	0	00:10			
C9-10	CONDUIT	87.34	0	00:21	1.16	0.98	0.98
C91-110	DUMMY	14.97	0	00:10			
C92-20	DUMMY	650.12	0	00:59			
C93-27	DUMMY	3.97	0	00:10			
C94-92	CONDUIT	51.51	0	01:54	1.68	0.01	0.08
C95-94	CONDUIT	52.10	0	01:31	1.15	0.03	0.12
C96-96A	CONDUIT	75.02	0	00:15	5.32	0.36	0.37
C97-81	CONDUIT	65.52	0	01:20	0.82	0.07	0.20
C98A-81	CONDUIT	285.32	0	01:53	1.81	0.21	0.39
C99-11	DUMMY	14.46	0	00:10			
C111A-7	CONDUIT	212.52	0	00:18	11.43	0.77	0.86
C111-111A	CONDUIT	212.90	0	00:18	10.89	0.97	0.81
C112-111	CONDUIT	162.35	0	00:18	21.19	0.65	0.59
C132A-12	CONDUIT	127.96	0	00:17	10.38	0.43	0.45
C131A-111	CONDUIT	20.65	0	00:15	6.32	0.07	0.18
C130A-137A	CONDUIT	17.29	0	00:12	6.70	0.74	0.64
C137A-132	CONDUIT	38.23	0	00:16	7.60	0.13	0.24
C126A-8	CONDUIT	40.56	0	00:40	7.92	0.14	0.25
PS2-127	CONDUIT	80.96	0	01:09	27.26	0.18	0.29
C127A-129A	CONDUIT	80.94	0	01:12	9.82	0.24	0.33
C128A-3	CONDUIT	187.54	0	00:23	2.64	0.05	0.17
C129A-128	CONDUIT	190.99	0	00:19	10.58	0.97	0.82
C134-133	CONDUIT	80.93	0	00:13	9.01	0.80	0.67
C135-134	CONDUIT	50.99	0	00:12	8.13	0.50	0.50
C113-23	CONDUIT	118.71	0	00:17	9.44	0.82	0.72
C114-113	CONDUIT	27.73	0	00:16	8.41	0.74	0.64
C115-113	CONDUIT	71.42	0	00:17	8.44	0.97	0.98
C117A-115	CONDUIT	34.29	0	00:16	7.08	0.11	0.23
C116A-115	CONDUIT	20.23	0	00:16	6.08	0.07	0.18
C118A-34	CONDUIT	97.20	0	00:18	9.18	0.08	0.19
C119A-118	CONDUIT	65.03	0	00:16	8.70	0.22	0.32
C120A-36	CONDUIT	182.50	0	00:24	11.33	0.61	0.56
C121A-120	CONDUIT	8.97	0	00:19	4.97	0.03	0.12
C122A-120	CONDUIT	78.34	0	00:22	9.34	0.26	0.35
C123A-38	CONDUIT	146.50	0	00:25	10.85	0.49	0.49
C124A-123	CONDUIT	66.77	0	00:22	9.01	0.22	0.32
C125A-123	CONDUIT	40.20	0	00:18	7.77	0.13	0.25
C136A-104	CONDUIT	19.05	0	01:13	0.76	0.01	0.07
C96A-95	CONDUIT	64.37	0	00:24	1.27	0.03	0.13
C38A-6	CONDUIT	124.63	0	00:47	2.39	0.22	0.41
C6-5	CONDUIT	266.52	0	04:30	1.79	0.17	0.35
C5-4	CONDUIT	296.30	0	04:25	1.94	0.18	0.36
C4-3	CONDUIT	385.48	0	00:44	2.13	0.23	0.42
C3-92	CONDUIT	510.28	0	00:58	3.99	0.14	0.31
C110-22	DUMMY	29.87	0	00:10			
C138-S138	DUMMY	0.00	0	00:00			
C139-5A	CONDUIT	16.13	0	00:11	1.35	0.00	0.03
C142-2	CONDUIT	15.19	0	00:15	5.46	1.02	0.92
C136-136A	CONDUIT	46.61	0	00:10	3.41	0.01	0.04
C77-77A	CONDUIT	4.69	0	00:10	4.36	1.03	0.87
C44-44A	CONDUIT	261.74	0	00:24	25.06	0.82	0.64

C44-44A_	CONDUIT	0.00	0	00:00	0.00	0.00	0.00
C44A_-44A	DUMMY	0.00	0	00:00			
C126-126A	CONDUIT	58.02	0	00:15	8.18	0.82	0.69
C127-127A	CONDUIT	80.96	0	01:09	8.91	0.80	0.68
C128-128A	CONDUIT	190.98	0	00:19	10.58	0.95	0.79
C129-129A	CONDUIT	56.65	0	00:16	8.41	0.80	0.67
C130-130A	CONDUIT	16.91	0	00:11	5.88	1.06	1.00
C137-137A	CONDUIT	28.60	0	00:10	6.76	0.99	0.80
C132-132A	CONDUIT	128.78	0	00:14	9.53	1.03	0.93
C131-131A	CONDUIT	24.99	0	00:10	6.70	0.86	0.71
C133-15	CONDUIT	115.90	0	00:16	10.07	0.83	0.70
C116-116A	CONDUIT	20.28	0	00:15	6.42	0.70	0.62
C117-117A	CONDUIT	34.76	0	00:15	7.32	0.74	0.64
C119-119A	CONDUIT	70.74	0	00:10	8.72	0.24	0.33
C118-118A	CONDUIT	99.26	0	00:16	9.28	0.98	0.80
C120-120A	CONDUIT	186.13	0	00:20	10.52	0.95	0.80
C121-121A	CONDUIT	11.93	0	00:12	5.51	1.07	0.91
C122-122A	CONDUIT	84.06	0	00:16	8.64	0.96	0.81
C124-124A	CONDUIT	75.04	0	00:17	8.65	1.05	0.91
C125-125A	CONDUIT	46.37	0	00:11	7.94	0.46	0.47
C123-123A	CONDUIT	152.31	0	00:20	8.92	0.75	0.65
C76-76A	CONDUIT	62.83	0	00:15	5.94	0.84	0.70
C43-43A	CONDUIT	258.71	0	00:27	9.07	0.65	0.59
C43A-42	CHANNEL	225.47	0	00:36	2.66	0.13	0.70
C145-145A	CONDUIT	19.34	0	00:20	10.09	0.65	0.59
C145A-103	CONDUIT	12.57	0	00:44	0.83	0.01	0.04
C73A-72	CONDUIT	77.93	0	00:17	1.70	0.03	0.11
C74A-72	CONDUIT	7.33	0	00:20	0.86	0.00	0.02
C72A-71	CONDUIT	94.93	0	00:17	2.99	0.01	0.08
C71A-70	CONDUIT	98.02	0	00:19	2.96	0.01	0.08
C70A-69	CONDUIT	99.04	0	00:21	2.56	0.02	0.10
C79A-144	CONDUIT	49.87	0	00:16	2.46	0.01	0.05
C144-144A	CONDUIT	57.34	0	00:16	6.69	0.47	0.48
C144A-78	CONDUIT	57.27	0	00:17	2.33	0.01	0.06
C78-78A	CONDUIT	63.84	0	00:17	8.11	0.42	0.44
C80A-106	CONDUIT	64.11	0	00:40	2.26	0.01	0.07
C106-106A	CONDUIT	175.15	0	00:20	18.08	0.70	0.57
C80-80A	CONDUIT	83.91	0	00:15	6.78	0.96	0.79
C146-146A	CONDUIT	10.31	0	00:11	5.45	0.64	0.58
C146A-114	CONDUIT	6.53	0	00:24	1.07	0.00	0.02
C98-98A	CONDUIT	113.02	0	01:28	1.16	0.09	0.24
C81-6	CONDUIT	243.49	0	04:40	0.31	0.47	0.63
C86-86A	CONDUIT	15.02	0	00:10	5.97	0.69	0.61
C67A-18	CONDUIT	191.01	0	00:23	3.87	0.20	0.44
C147-147A	CONDUIT	14.48	0	00:11	6.68	0.43	0.46
C147A-69	CONDUIT	10.19	0	00:17	1.24	0.00	0.02
C8A-PS2	CONDUIT	226.38	0	00:15	28.02	0.27	0.34
C8-8A	CONDUIT	212.49	0	00:15	10.92	1.03	0.91
C1-PS3	DUMMY	563.41	0	00:21			
PS4-2	CONDUIT	67.73	0	04:14	8.96	0.81	0.72
PS1-26A	CONDUIT	69.57	0	01:21	8.18	0.95	0.81
C10A-1	CONDUIT	115.14	0	00:48	13.67	0.73	0.64
S17W_out-S17E	CONDUIT	12.88	0	01:13	6.16	0.24	0.34
S17E_out-S17	CONDUIT	14.98	0	01:36	13.83	0.01	0.08
S17_out-16	CONDUIT	7.51	0	05:05	0.56	0.00	0.03
PS5-PS6	CONDUIT	10.40	0	12:33	5.42	0.65	0.59
PS6-PS7	CONDUIT	105.56	0	01:14	8.93	0.86	0.75
C12-12A	CONDUIT	125.83	0	01:11	15.92	0.86	0.75
C1	CONDUIT	5.83	0	00:16	3.51	0.03	0.08
C2	DUMMY	5.83	0	00:16			
C3	CONDUIT	2.99	0	00:24	3.92	0.02	0.13
C4	DUMMY	2.99	0	00:24			
C5	CONDUIT	2.16	0	00:10	5.45	0.14	0.24
C6	DUMMY	2.16	0	00:10			
C7	CONDUIT	5.75	0	00:18	9.24	0.06	0.14
C8	DUMMY	5.75	0	00:18			
C9	CONDUIT	9.35	0	00:18	5.15	0.03	0.09
C10	DUMMY	9.35	0	00:18			
C11	CONDUIT	5.89	0	00:18	3.67	0.02	0.06
C12	DUMMY	5.89	0	00:18			
C13	CONDUIT	0.93	0	00:12	7.40	0.09	0.17
C14	DUMMY	0.93	0	00:12			

C15	CONDUIT	2.04	0	00:17	1.06	0.02	0.14
C16	DUMMY	2.04	0	00:17			
C17	CONDUIT	3.92	0	00:17	3.35	0.08	0.11
C18	DUMMY	3.92	0	00:17			
C19	CONDUIT	0.22	0	00:15	3.22	0.02	0.08
C20	DUMMY	0.22	0	00:15			
C21	CONDUIT	1.69	0	00:16	7.97	0.02	0.10
C22	DUMMY	1.69	0	00:16			
C23	DUMMY	0.00	0	00:00			
C24	CONDUIT	0.00	0	00:00	0.00	0.00	0.03
C25	CONDUIT	2.92	0	00:18	4.43	0.01	0.05
C26	DUMMY	2.92	0	00:18			
C27	CONDUIT	1.72	0	00:15	3.02	0.03	0.07
C28	DUMMY	1.72	0	00:15			
C29	CONDUIT	0.84	0	00:19	3.26	0.01	0.02
C30	DUMMY	0.84	0	00:19			
C31	CONDUIT	23.76	0	00:20	9.27	0.08	0.12
C32	DUMMY	23.76	0	00:20			
C33	CONDUIT	2.45	0	00:10	5.30	0.22	0.31
C34	DUMMY	2.45	0	00:10			
PS2_out	ORIFICE	80.96	0	01:09			
PS3_out	ORIFICE	93.60	0	03:40			
PS4_out	ORIFICE	67.73	0	04:14			
PS5_out	ORIFICE	10.40	0	12:32			
PS6_out	ORIFICE	105.56	0	01:14			
PS7_out	ORIFICE	98.75	0	01:55			
PS1_out	ORIFICE	69.57	0	01:21			
S17W-S17W_out	DUMMY	12.88	0	01:13			
S17E-S17E_out	DUMMY	14.98	0	01:36			
S17-17_out	DUMMY	7.56	0	04:26			

****
Conduit Surcharge Summary
****

Conduit	Hours Full: Both Ends	Hours Full: Upstream	Hours Full: Dnstream	Hours Above Full Normal Flow	Hours Capacity Limited
C100-10	0.01	0.01	0.01	25.01	0.01
C101-9	0.01	0.01	0.01	25.01	0.01
C104-26	0.01	0.01	0.01	25.01	0.01
C105-110	0.01	0.01	0.01	25.01	0.01
C107-7	0.01	0.01	0.01	25.01	0.01
C108-16	0.01	0.01	0.01	25.01	0.01
C109-21	0.01	0.01	0.01	25.01	0.01
C102-8	0.01	0.01	0.01	25.01	0.01
C61-S61	0.01	0.01	0.01	25.01	0.01
C66-17	0.01	0.01	0.01	25.01	0.01
C25-PS1	0.01	0.01	0.01	0.47	0.01
C30-30A	0.01	0.01	0.01	1.70	0.01
C3-1	0.01	0.07	0.01	0.01	0.07
C34-34A	0.01	0.03	0.01	0.03	0.03
C35-15	0.01	0.01	0.01	25.01	0.01
C39-39A	0.01	0.01	0.01	0.41	0.01
C46A-45	0.03	0.04	0.03	0.03	0.04
C48-47	0.01	0.01	0.01	0.12	0.01
C55-55A	0.01	0.07	0.01	0.06	0.07
C5-5A	0.01	0.04	0.01	0.03	0.04
C56-S56	0.01	0.01	0.01	25.01	0.01
C57-S57	0.01	0.01	0.01	25.01	0.01
C58-S58	0.01	0.01	0.01	25.01	0.01
C5A-1	0.01	0.09	0.01	0.08	0.09
C60-S60	0.01	0.01	0.01	25.01	0.01
C65-65A	0.01	0.01	0.01	0.57	0.01
C6-6A	0.01	0.07	0.01	0.07	0.07
C68-19	0.01	0.01	0.01	25.01	0.01
C70-70A	0.01	0.01	0.01	0.98	0.01
C71-71A	0.01	0.01	0.01	0.46	0.01
C7-7A	0.01	0.07	0.01	0.54	0.07

C82-109	0.01	0.01	0.01	25.01	0.01
C83-109	0.01	0.01	0.01	25.01	0.01
C84-109	0.01	0.01	0.01	25.01	0.01
C85-85A	0.04	0.06	0.04	0.07	0.06
C87-23	0.01	0.01	0.01	25.01	0.01
C88-24	0.01	0.01	0.01	25.01	0.01
C89-25	0.01	0.01	0.01	25.01	0.01
C90-110	0.01	0.01	0.01	25.01	0.01
C9-10	0.01	0.05	0.01	0.01	0.05
C91-110	0.01	0.01	0.01	25.01	0.01
C92-20	0.01	0.01	0.01	25.01	0.01
C93-27	0.01	0.01	0.01	25.01	0.01
C99-11	0.01	0.01	0.01	25.01	0.01
C110-22	0.01	0.01	0.01	25.01	0.01
C138-S138	0.01	0.01	0.01	25.01	0.01
C142-2	0.01	0.03	0.01	0.02	0.03
C77-77A	0.01	0.01	0.01	0.01	0.01
C44A_-44A	0.01	0.01	0.01	25.01	0.01
C130-130A	0.03	0.05	0.03	0.03	0.05
C132-132A	0.01	0.05	0.01	0.05	0.05
C121-121A	0.01	0.04	0.01	0.03	0.04
C124-124A	0.01	0.04	0.01	0.04	0.04
C123-123A	0.01	0.01	0.01	0.38	0.01
C76-76A	0.01	0.01	0.01	0.28	0.01
C80-80A	0.01	0.01	0.01	1.13	0.01
C8-8A	0.01	0.10	0.01	0.09	0.10
C1-PS3	0.01	0.01	0.01	25.01	0.01
C2	0.01	0.01	0.01	25.01	0.01
C4	0.01	0.01	0.01	25.01	0.01
C6	0.01	0.01	0.01	25.01	0.01
C8	0.01	0.01	0.01	25.01	0.01
C10	0.01	0.01	0.01	25.01	0.01
C12	0.01	0.01	0.01	25.01	0.01
C14	0.01	0.01	0.01	25.01	0.01
C16	0.01	0.01	0.01	25.01	0.01
C18	0.01	0.01	0.01	25.01	0.01
C20	0.01	0.01	0.01	25.01	0.01
C22	0.01	0.01	0.01	25.01	0.01
C23	0.01	0.01	0.01	25.01	0.01
C26	0.01	0.01	0.01	25.01	0.01
C28	0.01	0.01	0.01	25.01	0.01
C30	0.01	0.01	0.01	25.01	0.01
C32	0.01	0.01	0.01	25.01	0.01
C34	0.01	0.01	0.01	25.01	0.01

Analysis begun on: Wed Sep 17 12:41:12 2008
Analysis ended on: Wed Sep 17 12:41:14 2008
Total elapsed time: 00:00:02

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EPA STORM WATER MANAGEMENT MODEL - VERSION 5.0 (Build 5.0.013)
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"City of Brookings, SD: 100-yr 24-hr, Existing Conditions"

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Analysis Options
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Flow Units ............... CFS
Infiltration Method ...... CURVE_NUMBER
Flow Routing Method ...... KINWAVE
Starting Date ............ JAN-01-2007 00:00:00
Ending Date .............. JAN-02-2007 01:00:00
Antecedent Dry Days ...... 0.0
Report Time Step ......... 00:05:00
Wet Time Step ............ 00:05:00
Dry Time Step ............ 00:05:00
Routing Time Step ........ 30.00 sec


**************************        Volume         Depth
Runoff Quantity Continuity     acre-feet        inches
**************************     ---------       -------
Total Precipitation ......      4197.835         5.750
Evaporation Loss .........         0.000         0.000
Infiltration Loss ........      1424.784         1.952
Surface Runoff ...........      2607.708         3.572
Final Surface Storage ....       181.554         0.249
Continuity Error (%) .....        -0.386


**************************        Volume        Volume
Flow Routing Continuity        acre-feet      Mgallons
**************************     ---------     ---------
Dry Weather Inflow .......         0.000         0.000
Wet Weather Inflow .......      2606.483       849.361
Groundwater Inflow .......         0.000         0.000
RDII Inflow ..............         0.000         0.000
External Inflow ..........         0.000         0.000
External Outflow .........      1415.520       461.268
Internal Outflow .........       944.484       307.774
Evaporation Loss .........         0.000         0.000
Initial Stored Volume ....         0.000         0.000
Final Stored Volume ......       384.758       125.379
Continuity Error (%) .....        -5.305


*********************************
Highest Flow Instability Indexes
*********************************
Link C42-41 (3)
Link C22-22A (3)
Link C85A-92 (3)
Link C4-4A (3)
Link C13-12 (3)


*************************
Routing Time Step Summary
*************************
Minimum Time Step           :    30.00 sec
Average Time Step           :    30.00 sec
Maximum Time Step           :    30.00 sec
Percent in Steady State     :     0.00
Average Iterations per Step :     1.07


***************************
Subcatchment Runoff Summary
***************************
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Subcatchment	Total Precip in	Total Runon in	Total Evap in	Total Infil in	Total Runoff in	Total Runoff Mgal	Peak Runoff CFS	Runoff Coeff
BAS_1	5.750	0.000	0.000	1.748	3.882	2.667	83.940	0.675
BAS_10	5.750	0.000	0.000	1.599	4.043	4.226	129.465	0.703
BAS_100	5.750	0.000	0.000	1.810	3.837	1.448	27.229	0.667
BAS_101	5.750	0.000	0.000	2.755	2.740	1.324	11.069	0.477
BAS_102	5.750	0.000	0.000	1.976	3.626	4.125	67.375	0.631
BAS_103	5.750	0.000	0.000	1.936	3.716	1.796	37.050	0.646
BAS_104	5.750	0.000	0.000	1.865	3.814	1.015	24.186	0.663
BAS_105	5.750	0.000	0.000	1.714	3.970	1.154	25.657	0.690
BAS_106	5.750	0.000	0.000	2.983	2.502	0.741	6.390	0.435
BAS_107	5.750	0.000	0.000	2.954	2.430	4.915	25.326	0.423
BAS_108	5.750	0.000	0.000	2.660	2.662	10.315	88.382	0.463
BAS_109	5.750	0.000	0.000	2.905	2.320	10.770	46.245	0.403
BAS_11	5.750	0.000	0.000	1.155	4.568	9.142	190.154	0.794
BAS_110	5.750	0.000	0.000	2.740	2.576	11.010	85.853	0.448
BAS_111	5.750	0.000	0.000	2.753	2.637	0.745	5.989	0.459
BAS_112	5.750	0.000	0.000	2.805	2.540	10.310	70.473	0.442
BAS_114	5.750	0.000	0.000	2.558	2.944	15.308	185.577	0.512
BAS_115	5.750	0.000	0.000	2.958	2.507	2.736	20.824	0.436
BAS_116	5.750	0.000	0.000	2.913	2.625	9.310	107.944	0.457
BAS_117	5.750	0.000	0.000	2.653	2.814	1.574	16.256	0.489
BAS_118	5.750	0.000	0.000	1.996	3.434	14.688	177.788	0.597
BAS_119	5.750	0.000	0.000	1.469	4.201	18.219	341.722	0.731
BAS_121	5.750	0.000	0.000	1.678	3.995	0.846	16.978	0.695
BAS_122	5.750	0.000	0.000	2.045	3.585	0.613	11.882	0.624
BAS_124	5.750	0.000	0.000	0.887	4.891	1.262	32.291	0.851
BAS_125	5.750	0.000	0.000	2.384	3.196	0.625	9.898	0.556
BAS_126	5.750	0.000	0.000	2.983	1.920	5.302	10.601	0.334
BAS_13	5.750	0.000	0.000	0.897	4.764	19.003	493.622	0.829
BAS_14	5.750	0.000	0.000	2.225	3.308	2.210	30.676	0.575
BAS_15	5.750	0.000	0.000	1.730	3.925	10.625	196.728	0.683
BAS_16	5.750	0.000	0.000	1.506	4.154	10.625	195.234	0.722
BAS_18	5.750	0.000	0.000	1.457	4.229	2.021	39.304	0.736
BAS_19	5.750	0.000	0.000	1.207	3.988	0.758	28.075	0.694
BAS_2	5.750	0.000	0.000	1.262	4.374	3.860	109.956	0.761
BAS_20	5.750	0.000	0.000	1.810	3.831	1.561	28.306	0.666
BAS_21	5.750	0.000	0.000	1.043	3.988	5.035	207.552	0.693
BAS_22	5.750	0.000	0.000	2.961	2.486	0.513	3.546	0.432
BAS_23	5.750	0.000	0.000	1.814	3.763	7.755	122.037	0.654
BAS_24	5.750	0.000	0.000	1.839	3.841	0.375	8.820	0.668
BAS_25	5.750	0.000	0.000	0.289	5.540	0.466	18.945	0.964
BAS_26	5.750	0.000	0.000	0.687	5.062	3.120	69.265	0.880
BAS_27	5.750	0.000	0.000	2.572	2.950	1.754	21.494	0.513
BAS_28	5.750	0.000	0.000	1.920	3.735	1.075	22.499	0.650
BAS_29	5.750	0.000	0.000	0.510	5.280	2.236	66.713	0.918
BAS_3	5.750	0.000	0.000	2.596	2.954	3.674	68.505	0.514
BAS_30	5.750	0.000	0.000	0.510	5.305	0.562	21.903	0.923
BAS_31	5.750	0.000	0.000	0.883	4.864	5.825	125.890	0.846
BAS_32	5.750	0.000	0.000	2.276	3.219	4.580	58.874	0.560
BAS_33	5.750	0.000	0.000	1.168	4.558	4.802	101.000	0.793
BAS_34	5.750	0.000	0.000	2.448	3.119	0.356	5.262	0.542
BAS_35	5.750	0.000	0.000	1.917	3.694	5.266	86.736	0.642
BAS_36	5.750	0.000	0.000	1.431	4.257	3.711	72.308	0.740
BAS_37	5.750	0.000	0.000	2.954	2.341	10.763	41.242	0.407
BAS_38	5.750	0.000	0.000	2.929	2.457	2.269	11.871	0.427
BAS_39	5.750	0.000	0.000	2.922	2.415	3.980	17.575	0.420
BAS_4	5.750	0.000	0.000	1.757	3.803	2.871	42.959	0.661
BAS_40	5.750	0.000	0.000	2.817	2.563	1.607	10.690	0.446
BAS_41	5.750	0.000	0.000	2.900	2.561	0.939	6.874	0.445
BAS_42	5.750	0.000	0.000	2.895	2.605	0.821	7.518	0.453
BAS_43	5.750	0.000	0.000	2.728	2.579	5.238	41.214	0.448
BAS_44	5.750	0.000	0.000	2.013	3.527	7.239	106.734	0.613
BAS_45	5.750	0.000	0.000	2.310	3.221	3.673	51.732	0.560
BAS_46	5.750	0.000	0.000	2.019	3.543	12.671	192.126	0.616
BAS_47	5.750	0.000	0.000	1.755	3.839	8.651	140.466	0.668
BAS_48	5.750	0.000	0.000	1.503	4.134	17.535	302.496	0.719
BAS_49	5.750	0.000	0.000	0.671	5.102	4.281	109.929	0.887
BAS_5	5.750	0.000	0.000	1.584	4.002	2.815	75.868	0.696

BAS_50	5.750	0.000	0.000	0.614	5.111	11.018	362.475	0.889
BAS_51	5.750	0.000	0.000	0.986	4.670	30.385	463.569	0.812
BAS_52	5.750	0.000	0.000	1.614	4.042	1.493	27.321	0.703
BAS_53	5.750	0.000	0.000	1.767	3.848	7.794	131.823	0.669
BAS_54	5.750	0.000	0.000	1.533	4.152	5.186	100.453	0.722
BAS_55	5.750	0.000	0.000	1.191	4.551	0.803	18.426	0.792
BAS_56	5.750	0.000	0.000	1.135	4.606	1.563	34.251	0.801
BAS_57	5.750	0.000	0.000	2.007	3.619	0.678	12.670	0.629
BAS_58	5.750	0.000	0.000	2.868	2.510	2.808	14.797	0.436
BAS_59	5.750	0.000	0.000	2.889	2.537	2.356	14.521	0.441
BAS_6	5.750	0.000	0.000	1.876	3.748	1.160	37.586	0.652
BAS_60	5.750	0.000	0.000	2.675	2.851	0.108	1.111	0.496
BAS_61	5.750	0.000	0.000	2.915	2.578	0.140	1.243	0.448
BAS_62	5.750	0.000	0.000	2.915	2.554	0.319	2.462	0.444
BAS_63	5.750	0.000	0.000	2.604	2.813	3.071	31.366	0.489
BAS_64	5.750	0.000	0.000	2.574	2.947	1.320	16.123	0.513
BAS_65	5.750	0.000	0.000	2.245	3.094	47.661	530.532	0.538
BAS_66	5.750	0.000	0.000	2.494	3.102	0.455	6.486	0.539
BAS_67	5.750	0.000	0.000	1.976	3.651	4.838	90.032	0.635
BAS_68	5.750	0.000	0.000	1.319	4.363	7.642	144.564	0.759
BAS_69	5.750	0.000	0.000	1.098	4.609	17.697	344.197	0.802
BAS_7	5.750	0.000	0.000	1.550	4.116	3.040	106.593	0.716
BAS_70	5.750	0.000	0.000	1.870	3.493	33.989	462.162	0.607
BAS_71**	5.750	0.000	0.000	1.947	3.508	15.697	244.189	0.610
BAS_72**	5.750	0.000	0.000	1.979	3.473	8.637	132.823	0.604
BAS_73	5.750	0.000	0.000	1.574	3.936	14.034	175.573	0.685
BAS_74	5.750	0.000	0.000	2.395	2.973	12.095	133.649	0.517
BAS_75	5.750	0.000	0.000	0.935	4.822	1.191	26.951	0.839
BAS_76	5.750	0.000	0.000	2.437	3.180	0.604	10.281	0.553
BAS_77	5.750	0.000	0.000	2.760	2.710	3.076	25.109	0.471
BAS_78	5.750	0.000	0.000	2.367	3.122	9.486	119.036	0.543
BAS_79	5.750	0.000	0.000	1.016	4.724	7.529	162.250	0.822
BAS_8	5.750	0.000	0.000	0.559	5.188	10.397	381.311	0.902
BAS_80	5.750	0.000	0.000	2.514	2.917	2.091	22.765	0.507
BAS_81	5.750	0.000	0.000	1.319	4.360	8.205	153.729	0.758
BAS_82	5.750	0.000	0.000	0.753	5.047	0.891	26.888	0.878
BAS_83	5.750	0.000	0.000	2.794	2.670	2.943	21.455	0.464
BAS_84	5.750	0.000	0.000	0.289	5.466	1.410	37.935	0.951
BAS_85	5.750	0.000	0.000	2.185	3.321	1.064	14.446	0.578
BAS_86	5.750	0.000	0.000	1.168	4.564	6.965	148.949	0.794
BAS_87	5.750	0.000	0.000	0.928	4.846	2.658	65.834	0.843
BAS_88	5.750	0.000	0.000	2.574	2.902	4.429	50.887	0.505
BAS_89	5.750	0.000	0.000	2.574	2.934	4.565	54.904	0.510
BAS_9	5.750	0.000	0.000	1.784	3.753	7.134	178.426	0.653
BAS_90	5.750	0.000	0.000	2.574	2.942	1.302	15.802	0.512
BAS_91	5.750	0.000	0.000	1.810	3.872	0.494	11.585	0.673
BAS_92	5.750	0.000	0.000	1.875	3.800	0.949	22.174	0.661
BAS_93	5.750	0.000	0.000	2.701	2.786	2.633	25.217	0.485
BAS_94	5.750	0.000	0.000	2.431	3.152	1.669	25.590	0.548
BAS_95	5.750	0.000	0.000	2.606	2.916	1.995	23.305	0.507
BAS_96	5.750	0.000	0.000	2.983	2.490	1.934	15.487	0.433
BAS_97	5.750	0.000	0.000	2.983	2.507	1.130	10.044	0.436
BAS_98	5.750	0.000	0.000	2.983	2.566	0.098	1.234	0.446
BAS_99	5.750	0.000	0.000	2.250	3.385	0.386	7.247	0.589
BAS_S17	5.750	0.000	0.000	0.745	5.042	3.382	92.868	0.877
BAS_S17E	5.750	0.000	0.000	1.108	4.605	1.313	26.142	0.801
BAS_S17W	5.750	0.000	0.000	1.108	4.622	3.075	64.972	0.804
BAS_120	5.750	0.000	0.000	0.510	5.276	2.478	72.359	0.918
BAS_12	5.750	0.000	0.000	1.793	3.786	24.570	387.394	0.658
BAS_146	5.750	0.000	0.000	1.865	3.807	1.406	31.744	0.662
BAS_153	5.750	0.000	0.000	1.866	3.802	2.323	50.834	0.661
BAS_147	5.750	0.000	0.000	2.201	3.412	2.372	43.721	0.593
BAS_148	5.750	0.000	0.000	1.702	3.934	9.786	172.503	0.684
BAS_129	5.750	0.000	0.000	1.865	3.754	4.200	70.586	0.653
BAS_128	5.750	0.000	0.000	1.662	4.006	3.622	69.414	0.697
BAS_127	5.750	0.000	0.000	1.864	3.823	0.021	0.576	0.665
BAS_142	5.750	0.000	0.000	1.216	4.508	5.202	109.266	0.784
BAS_143	5.750	0.000	0.000	1.567	4.146	0.867	21.900	0.721
BAS_145	5.750	0.000	0.000	2.012	3.583	6.578	106.281	0.623
BAS_144	5.750	0.000	0.000	1.619	4.023	10.355	184.502	0.700
BAS_149	5.750	0.000	0.000	1.533	4.154	3.587	70.546	0.722
BAS_150	5.750	0.000	0.000	2.149	3.443	3.441	58.480	0.599

BAS_151	5.750	0.000	0.000	2.179	3.391	6.234	97.638	0.590
BAS_123	5.750	0.000	0.000	0.916	4.816	5.322	108.679	0.838
BAS_133	5.750	0.000	0.000	1.723	3.881	4.026	66.638	0.675
BAS_132	5.750	0.000	0.000	1.894	3.723	2.234	37.362	0.647
BAS_131	5.750	0.000	0.000	1.332	4.389	1.954	42.294	0.763
BAS_130	5.750	0.000	0.000	2.167	3.418	3.109	51.379	0.594
BAS_134	5.750	0.000	0.000	1.232	4.493	3.135	66.113	0.781
BAS_135	5.750	0.000	0.000	1.464	4.247	5.881	131.102	0.739
BAS_138	5.750	0.000	0.000	1.809	3.765	10.488	163.709	0.655
BAS_137	5.750	0.000	0.000	1.665	4.037	0.877	21.767	0.702
BAS_136	5.750	0.000	0.000	1.750	3.822	12.526	192.473	0.665
BAS_141	5.750	0.000	0.000	1.765	3.906	4.126	87.216	0.679
BAS_140	5.750	0.000	0.000	1.748	3.856	8.492	140.593	0.671
BAS_139	5.750	0.000	0.000	1.822	3.774	6.537	106.823	0.656
BAS_152**	5.750	0.000	0.000	2.268	3.354	4.271	78.398	0.583
BAS_154	5.750	0.000	0.000	2.100	3.530	1.188	23.232	0.614
BAS_155	5.750	0.000	0.000	1.730	3.938	1.518	30.625	0.685
BAS_158	5.750	0.000	0.000	0.289	5.540	1.038	40.099	0.963
BAS_159	5.750	0.000	0.000	2.271	3.280	0.997	14.918	0.570
BAS_160	5.750	0.000	0.000	1.551	4.070	17.824	296.916	0.708
BAS_161	5.750	0.000	0.000	1.700	3.992	0.813	18.946	0.694
BAS_162	5.750	0.000	0.000	0.700	5.100	1.274	38.363	0.887
BAS_163	5.750	0.000	0.000	3.120	2.642	0.732	32.867	0.459
System	5.750	0.000	0.000	1.952	3.572	849.697	13237.112	0.621

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Node Depth Summary
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Node	Type	Average Depth Feet	Maximum Depth Feet	Maximum HGL Feet	Time of Max Occurrence days hr:min
N1	JUNCTION	2.96	3.00	1604.60	0 00:06
N10	JUNCTION	2.02	3.00	1603.70	0 00:12
N100	JUNCTION	0.00	0.00	1594.00	0 00:00
N101	JUNCTION	0.00	0.00	1608.00	0 00:00
N102	JUNCTION	0.00	0.00	1626.90	0 00:00
N103	JUNCTION	0.24	0.82	1634.42	0 00:15
N104	JUNCTION	0.13	0.55	1597.02	0 01:10
N105	JUNCTION	0.00	0.00	1611.55	0 00:00
N107	JUNCTION	0.26	1.21	1613.51	0 00:10
N108	JUNCTION	0.15	0.38	1616.04	0 01:45
N109	JUNCTION	0.00	0.00	1638.00	0 00:00
N11	JUNCTION	1.16	1.72	1595.72	0 00:10
N110	JUNCTION	0.00	0.00	1611.55	0 00:00
N12	JUNCTION	9.96	10.00	1608.00	0 00:06
N13	JUNCTION	1.61	2.00	1602.70	0 00:06
N14	JUNCTION	0.86	3.50	1618.23	0 00:08
N14A	JUNCTION	0.85	3.50	1618.04	0 00:08
N15	JUNCTION	1.15	4.00	1624.22	0 00:07
N15A	JUNCTION	1.14	3.00	1622.30	0 00:08
N16	JUNCTION	0.42	1.86	1629.01	0 00:15
N16A	JUNCTION	1.01	3.00	1627.60	0 00:06
N17	JUNCTION	0.22	0.43	1606.43	0 00:10
N17A	JUNCTION	0.22	0.43	1605.23	0 00:10
N18	JUNCTION	0.65	1.00	1624.30	0 00:07
N18A	JUNCTION	1.12	4.00	1626.32	0 00:08
N19	JUNCTION	0.18	0.83	1604.83	0 00:10
N2	JUNCTION	2.14	3.00	1604.55	0 00:06
N20	JUNCTION	0.43	0.87	1613.59	0 01:05
N20A	JUNCTION	0.43	0.87	1613.34	0 01:05
N21	JUNCTION	1.12	2.00	1629.01	0 00:05
N21A	JUNCTION	1.11	2.00	1628.78	0 00:06
N22	JUNCTION	1.23	3.00	1618.30	0 00:08
N23	JUNCTION	0.89	2.82	1614.82	0 00:13
N24	JUNCTION	0.02	0.08	1632.08	0 01:05
N25	JUNCTION	3.07	5.00	1613.46	0 00:08
N25A	JUNCTION	3.07	5.00	1613.34	0 00:10

N25B	JUNCTION	0.96	2.00	1610.00	0	00:09
N26	JUNCTION	3.90	4.00	1610.00	0	00:06
N26A	JUNCTION	1.91	2.00	1607.89	0	00:06
N27	JUNCTION	0.48	2.00	1612.00	0	00:08
N28	JUNCTION	0.37	2.00	1610.00	0	00:09
N28A	JUNCTION	0.78	2.21	1609.89	0	00:17
N29	JUNCTION	1.19	2.50	1608.04	0	00:08
N3	JUNCTION	1.01	2.02	1616.89	0	00:35
N30	JUNCTION	2.91	4.68	1610.03	0	00:17
N30A	JUNCTION	2.91	4.67	1608.67	0	00:18
N30B	JUNCTION	0.75	1.72	1605.17	0	00:15
N31	JUNCTION	1.11	4.00	1604.00	0	00:09
N31A	JUNCTION	1.58	3.06	1601.91	0	01:19
N32	JUNCTION	1.58	3.04	1601.54	0	01:21
N33	JUNCTION	1.26	3.21	1602.94	0	01:29
N33A	JUNCTION	1.26	3.21	1602.71	0	01:29
N34	JUNCTION	0.93	6.00	1611.39	0	00:08
N34A	JUNCTION	0.91	2.50	1603.17	0	00:09
N35	JUNCTION	0.00	0.00	1643.80	0	00:00
N36	JUNCTION	1.35	4.00	1609.69	0	00:15
N37	JUNCTION	0.31	1.22	1646.18	0	00:15
N38	JUNCTION	1.22	3.62	1606.03	0	00:35
N38A	JUNCTION	1.22	3.62	1605.62	0	00:35
N39	JUNCTION	1.31	1.60	1612.49	0	08:32
N39A	JUNCTION	0.94	1.23	1609.48	0	01:05
N4	JUNCTION	1.14	3.00	1614.82	0	00:09
N40	JUNCTION	1.95	3.00	1616.96	0	00:28
N40A	JUNCTION	1.95	3.00	1616.67	0	00:31
N41	JUNCTION	2.39	4.52	1621.01	0	00:23
N41A	JUNCTION	1.92	3.00	1619.26	0	00:23
N42	JUNCTION	2.13	3.54	1624.97	0	00:43
N45	JUNCTION	1.02	2.30	1636.63	0	00:15
N46	JUNCTION	1.10	4.78	1641.72	0	00:17
N46A	JUNCTION	0.94	5.00	1641.17	0	00:09
N47	JUNCTION	1.10	4.80	1642.34	0	00:17
N48	JUNCTION	0.53	3.50	1645.26	0	00:13
N49	JUNCTION	0.33	1.74	1644.83	0	00:15
N4A	JUNCTION	1.17	2.50	1614.02	0	00:17
N5	JUNCTION	0.88	2.50	1618.10	0	00:09
N50	JUNCTION	0.05	0.35	1644.14	0	00:10
N51	JUNCTION	1.65	3.00	1613.00	0	00:11
N52	JUNCTION	0.26	1.22	1616.42	0	00:10
N53	JUNCTION	0.27	1.50	1642.88	0	00:09
N53A	JUNCTION	0.27	1.50	1640.43	0	00:10
N54	JUNCTION	1.17	3.00	1619.00	0	00:10
N54A	JUNCTION	1.17	3.00	1618.50	0	00:10
N55	JUNCTION	0.47	1.92	1630.24	0	00:06
N55A	JUNCTION	0.47	1.92	1629.92	0	00:06
N56	JUNCTION	0.05	0.16	1598.16	0	01:15
N57	JUNCTION	0.00	0.00	0.00	0	00:00
N58	JUNCTION	0.00	0.00	0.00	0	00:00
N59	JUNCTION	0.09	0.73	1602.03	0	00:20
N5A	JUNCTION	0.88	2.50	1617.55	0	00:09
N6	JUNCTION	0.61	1.23	1619.28	0	00:10
N60	JUNCTION	0.00	0.00	0.00	0	00:00
N61	JUNCTION	0.00	0.00	0.00	0	00:00
N62	JUNCTION	0.83	4.00	1630.16	0	00:08
N63	JUNCTION	0.33	1.82	1642.18	0	00:20
N64	JUNCTION	0.28	1.26	1608.19	0	00:10
N65	JUNCTION	1.49	4.50	1641.10	0	00:07
N65A	JUNCTION	1.48	4.50	1640.65	0	00:07
N66	JUNCTION	0.08	0.40	1622.40	0	00:44
N67	JUNCTION	0.75	3.90	1625.60	0	00:09
N68	JUNCTION	0.00	0.00	1660.00	0	00:00
N69	JUNCTION	0.36	1.16	1627.34	0	00:20
N6A	JUNCTION	1.29	3.50	1621.00	0	00:06
N7	JUNCTION	0.58	0.69	1621.32	0	00:20
N70	JUNCTION	0.81	1.95	1633.01	0	00:35
N71	JUNCTION	1.38	4.00	1638.70	0	00:10
N72	JUNCTION	0.63	1.88	1639.28	0	01:06
N73	JUNCTION	0.76	3.00	1642.70	0	00:08
N74	JUNCTION	0.59	1.48	1642.55	0	00:10

N75	JUNCTION	0.04	0.28	1656.28	0	00:15
N76	JUNCTION	1.14	3.00	1637.00	0	00:07
N77	JUNCTION	0.00	0.00	1636.43	0	00:00
N78	JUNCTION	0.70	4.00	1651.09	0	00:11
N79	JUNCTION	0.42	2.42	1655.72	0	00:20
N7A	JUNCTION	2.39	3.75	1623.75	0	00:06
N8	JUNCTION	0.72	6.00	1648.74	0	00:08
N80	JUNCTION	1.19	2.50	1651.78	0	00:05
N82	JUNCTION	0.00	0.00	1638.00	0	00:00
N83	JUNCTION	0.00	0.00	1638.00	0	00:00
N84	JUNCTION	0.00	0.00	1638.00	0	00:00
N85	JUNCTION	0.61	1.50	1645.18	0	00:07
N85A	JUNCTION	0.61	1.50	1644.91	0	00:07
N86	JUNCTION	0.52	1.50	1649.88	0	00:06
N87	JUNCTION	0.00	0.00	1599.00	0	00:00
N88	JUNCTION	0.00	0.00	1630.00	0	00:00
N89	JUNCTION	0.00	0.00	1618.00	0	00:00
N9	JUNCTION	1.10	3.00	1603.75	0	00:08
N90	JUNCTION	0.00	0.00	1611.55	0	00:00
N91	JUNCTION	0.00	0.00	1611.55	0	00:00
N92	JUNCTION	0.88	1.29	1576.29	0	01:28
N93	JUNCTION	0.00	0.00	1630.00	0	00:00
N94	JUNCTION	0.26	0.94	1593.11	0	01:24
N95	JUNCTION	0.23	1.11	1600.24	0	00:21
N96	JUNCTION	0.41	2.08	1602.68	0	00:15
N97	JUNCTION	0.66	1.79	1604.92	0	00:15
N98	JUNCTION	0.59	1.32	1607.32	0	01:27
N99	JUNCTION	0.00	0.00	1596.00	0	00:00
N111A	JUNCTION	1.44	2.50	1625.59	0	00:06
N111	JUNCTION	0.91	6.00	1629.32	0	00:08
N131	JUNCTION	0.58	1.75	1633.74	0	00:06
N112	JUNCTION	0.79	2.15	1635.86	0	00:15
N132	JUNCTION	1.13	6.00	1648.95	0	00:07
N130	JUNCTION	0.43	2.00	1660.27	0	00:08
N137	JUNCTION	1.25	1.25	1655.57	0	00:05
N126	JUNCTION	0.67	3.50	1694.50	0	00:08
N8A	JUNCTION	1.32	3.81	1646.14	0	00:08
N127	JUNCTION	1.41	5.30	1640.81	0	00:08
N128	JUNCTION	1.16	3.50	1622.21	0	00:08
N129	JUNCTION	0.83	3.00	1629.12	0	00:07
N133	JUNCTION	1.07	4.00	1632.29	0	00:08
N134	JUNCTION	0.97	3.50	1634.62	0	00:08
N135	JUNCTION	0.77	3.50	1637.82	0	00:09
N113	JUNCTION	0.72	3.00	1618.54	0	00:09
N116	JUNCTION	0.55	2.00	1627.07	0	00:07
N117	JUNCTION	0.76	1.75	1625.93	0	00:06
N114	JUNCTION	0.75	4.00	1626.75	0	00:07
N115	JUNCTION	0.58	6.00	1626.37	0	00:09
N118	JUNCTION	0.78	6.00	1621.19	0	00:13
N119	JUNCTION	0.88	1.50	1627.39	0	00:05
N120	JUNCTION	1.43	6.00	1627.13	0	00:08
N121	JUNCTION	0.38	1.00	1637.09	0	00:06
N122	JUNCTION	1.19	1.50	1642.23	0	00:05
N123	JUNCTION	1.35	6.00	1628.14	0	00:10
N124	JUNCTION	0.93	3.00	1646.23	0	00:07
N125	JUNCTION	0.69	2.00	1639.75	0	00:06
N136	JUNCTION	0.07	0.38	1600.28	0	00:10
N96A	JUNCTION	0.41	2.07	1602.17	0	00:15
OUT6	JUNCTION	3.32	4.00	1602.23	0	02:48
OUT4	JUNCTION	1.36	1.82	1599.18	0	01:24
OUT3	JUNCTION	1.36	1.82	1598.92	0	01:25
OUT5	JUNCTION	1.47	3.95	1602.12	0	00:18
N138	JUNCTION	0.00	0.00	0.00	0	00:00
N139	JUNCTION	0.04	0.22	1615.78	0	00:10
N142	JUNCTION	0.30	2.00	1603.74	0	00:08
N136A	JUNCTION	0.12	0.65	1599.91	0	00:10
N77A	JUNCTION	0.13	0.35	1636.35	0	01:05
N44A_	JUNCTION	0.00	0.00	1624.78	0	00:00
N44A	JUNCTION	1.27	2.48	1627.26	0	00:23
N126A	JUNCTION	0.66	3.50	1694.22	0	00:09
N127A	JUNCTION	1.05	4.00	1639.22	0	00:08
N128A	JUNCTION	1.12	3.02	1621.07	0	00:09

N129A	JUNCTION	1.31	6.00	1626.02	0	00:08
N130A	JUNCTION	0.43	2.00	1659.93	0	00:08
N137A	JUNCTION	1.25	1.46	1655.78	0	01:07
N132A	JUNCTION	1.01	3.50	1646.18	0	00:08
N131A	JUNCTION	0.58	1.75	1633.39	0	00:07
N116A	JUNCTION	0.55	2.00	1625.41	0	00:08
N117A	JUNCTION	0.75	1.75	1625.04	0	00:07
N118A	JUNCTION	0.77	3.05	1616.72	0	00:16
N119A	JUNCTION	0.87	1.50	1626.53	0	00:06
N120A	JUNCTION	1.34	4.00	1623.43	0	00:09
N121A	JUNCTION	0.38	1.00	1634.97	0	00:07
N122A	JUNCTION	1.19	1.50	1639.78	0	00:06
N123A	JUNCTION	1.25	4.00	1622.28	0	00:12
N125A	JUNCTION	0.69	2.00	1637.20	0	00:07
N124A	JUNCTION	0.93	3.00	1644.12	0	00:08
N43	JUNCTION	1.26	2.48	1625.35	0	00:26
N43A	JUNCTION	2.12	3.56	1626.30	0	00:26
N76A	JUNCTION	1.14	3.00	1634.85	0	00:07
N145	JUNCTION	0.24	2.00	1642.00	0	00:11
N145A	JUNCTION	0.24	2.00	1638.45	0	00:13
N73A	JUNCTION	0.75	3.00	1641.20	0	00:08
N74A	JUNCTION	0.59	1.47	1642.12	0	00:10
N72A	JUNCTION	0.63	1.88	1637.96	0	01:06
N71A	JUNCTION	1.38	4.00	1638.30	0	00:10
N70A	JUNCTION	0.81	1.94	1631.98	0	00:35
N22A	JUNCTION	1.04	2.00	1617.06	0	00:09
N144	JUNCTION	0.50	4.00	1653.39	0	00:10
N144A	JUNCTION	0.48	3.33	1652.06	0	00:12
N79A	JUNCTION	0.42	2.42	1653.91	0	00:20
N78A	JUNCTION	0.69	4.00	1650.35	0	00:12
N80A	JUNCTION	1.19	2.50	1651.68	0	00:07
N106	JUNCTION	0.67	4.00	1629.13	0	00:12
N106A	JUNCTION	0.66	3.50	1627.14	0	00:12
N146A	JUNCTION	0.31	2.00	1637.75	0	00:11
N146	JUNCTION	0.32	2.00	1638.99	0	00:09
N81	JUNCTION	3.25	4.00	1605.47	0	00:10
N98A	JUNCTION	1.02	1.71	1607.61	0	01:26
N86A	JUNCTION	0.52	1.50	1648.90	0	00:07
N67A	JUNCTION	2.25	3.00	1624.50	0	00:07
N147A	JUNCTION	0.58	1.57	1634.78	0	00:10
N147	JUNCTION	0.58	1.61	1637.12	0	00:10
N10A	JUNCTION	3.99	4.00	1600.38	0	00:06
S17W_out	JUNCTION	0.47	1.06	1642.06	0	00:27
S17E_out	JUNCTION	0.27	0.59	1640.59	0	01:25
S17_out	JUNCTION	0.13	0.24	1630.24	0	03:25
N12A	JUNCTION	1.49	1.50	1598.67	0	00:06
OUT1	OUTFALL	1.49	1.50	1597.52	0	00:06
OUT2	OUTFALL	1.16	1.71	1595.31	0	00:10
OUT7	OUTFALL	0.00	0.00	1612.30	0	00:00
OUT8	OUTFALL	0.00	0.00	1626.90	0	00:00
OUT9	OUTFALL	0.00	0.00	1608.00	0	00:00
OUT10	OUTFALL	0.00	0.00	1594.00	0	00:00
OUT11	OUTFALL	0.00	0.00	1596.00	0	00:00
OUT12	OUTFALL	0.09	0.73	1601.11	0	00:20
OUT13	OUTFALL	0.83	4.00	1629.16	0	00:08
OUT14	OUTFALL	0.33	1.82	1641.18	0	00:20
OUT15	OUTFALL	0.00	0.00	1643.80	0	00:00
OUT16	OUTFALL	0.00	0.00	1615.66	0	00:00
OUT17	OUTFALL	0.00	0.00	1622.00	0	00:00
OUT18	OUTFALL	2.26	3.00	1624.50	0	00:11
OUT19	OUTFALL	0.00	0.00	1660.00	0	00:00
OUT20	OUTFALL	0.00	0.00	1575.00	0	00:00
OUT21	OUTFALL	0.00	0.00	1638.00	0	00:00
OUT22	OUTFALL	0.00	0.00	1611.55	0	00:00
OUT23	OUTFALL	0.00	0.00	1599.00	0	00:00
OUT24	OUTFALL	0.00	0.00	1630.00	0	00:00
OUT25	OUTFALL	0.00	0.00	1618.00	0	00:00
OUT27	OUTFALL	0.00	0.00	1630.00	0	00:00
OUT26	OUTFALL	0.00	0.00	1596.47	0	00:00
OUT28	OUTFALL	0.27	1.25	1607.21	0	00:10
N44	DIVIDER	1.02	2.22	1629.76	0	00:24
S17W	STORAGE	4.92	8.00	1649.00	0	00:27

S17E	STORAGE	1.12	4.26	1644.26	0	01:25
S17	STORAGE	4.87	5.77	1635.77	0	03:25
S56	STORAGE	1.17	1.39	1.39	1	01:00
S57	STORAGE	1.16	1.41	1.41	1	01:00
S60	STORAGE	1.30	1.47	1.47	1	01:00
S58	STORAGE	1.19	1.42	1.42	1	01:00
S61	STORAGE	1.57	1.88	1.88	1	01:00
S138	STORAGE	1.57	1.82	1.82	1	01:00

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Node InFlow Summary
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Node	Type	Maximum Lateral Inflow CFS	Maximum Total Inflow CFS	Time of Max Occurrence days	hr:min	Lateral Inflow Volume Mgal	Total Inflow Volume Mgal
N1	JUNCTION	228.49	388.79	0	00:35	9.394	48.883
N10	JUNCTION	0.00	113.01	0	00:12	0.000	23.802
N100	JUNCTION	25.66	25.66	0	00:10	1.153	1.153
N101	JUNCTION	67.38	67.38	0	00:10	4.123	4.123
N102	JUNCTION	11.07	11.07	0	01:05	1.324	1.324
N103	JUNCTION	133.65	136.45	0	00:15	12.086	13.173
N104	JUNCTION	344.20	352.72	0	00:15	17.693	22.310
N105	JUNCTION	15.49	15.49	0	01:05	1.933	1.932
N107	JUNCTION	0.00	44.34	0	00:19	0.000	3.249
N108	JUNCTION	148.95	200.57	0	00:35	6.964	20.474
N109	JUNCTION	0.00	16.32	0	01:05	0.000	1.613
N11	JUNCTION	91.84	92.01	0	00:10	11.745	32.757
N110	JUNCTION	0.00	50.33	0	00:10	0.000	5.513
N12	JUNCTION	88.38	201.62	0	01:05	10.307	53.291
N13	JUNCTION	0.00	64.95	0	00:11	0.000	28.030
N14	JUNCTION	131.82	131.82	0	00:15	7.791	7.791
N14A	JUNCTION	0.00	76.67	0	00:44	0.000	7.304
N15	JUNCTION	196.73	304.25	0	00:12	10.622	22.606
N15A	JUNCTION	0.00	105.24	0	01:41	0.000	17.678
N16	JUNCTION	195.23	195.23	0	00:15	10.621	15.988
N16A	JUNCTION	0.00	194.76	0	00:15	0.000	15.987
N17	JUNCTION	46.25	46.25	0	00:10	10.759	11.502
N17A	JUNCTION	0.00	45.67	0	00:10	0.000	11.502
N18	JUNCTION	39.30	74.30	0	00:15	2.021	14.026
N18A	JUNCTION	234.78	309.01	0	00:15	6.594	20.618
N19	JUNCTION	16.98	16.98	0	00:10	0.846	0.846
N2	JUNCTION	493.62	693.71	0	00:20	18.998	59.058
N20	JUNCTION	25.33	32.30	0	01:05	4.912	7.608
N20A	JUNCTION	0.00	32.26	0	01:05	0.000	7.608
N21	JUNCTION	100.45	100.45	0	00:10	5.185	5.185
N21A	JUNCTION	0.00	7.83	0	04:09	0.000	2.692
N22	JUNCTION	30.68	116.16	0	00:15	2.722	20.404
N23	JUNCTION	122.04	222.77	0	00:15	7.751	18.769
N24	JUNCTION	6.39	6.39	0	01:05	0.740	0.740
N25	JUNCTION	18.95	239.57	0	00:16	0.466	19.231
N25A	JUNCTION	0.00	30.38	0	00:09	0.000	11.591
N25B	JUNCTION	0.00	50.18	0	00:17	0.000	13.702
N26	JUNCTION	69.26	117.54	0	00:20	3.120	16.813
N26A	JUNCTION	0.00	10.81	0	18:59	0.000	6.719
N27	JUNCTION	30.31	30.31	0	00:10	2.129	2.129
N28	JUNCTION	22.50	22.50	0	00:10	1.075	1.075
N28A	JUNCTION	0.00	16.90	0	00:17	0.000	1.061
N29	JUNCTION	66.71	76.74	0	00:20	2.236	8.951
N3	JUNCTION	68.51	179.26	0	00:35	3.673	27.474
N30	JUNCTION	0.00	47.42	0	00:17	0.000	9.426
N30A	JUNCTION	21.90	68.51	0	00:15	0.562	9.983
N30B	JUNCTION	0.00	68.40	0	00:15	0.000	9.980
N31	JUNCTION	125.89	187.54	0	00:21	5.824	15.796
N31A	JUNCTION	0.00	81.93	0	01:19	0.000	13.724
N32	JUNCTION	72.99	122.96	0	00:35	5.898	19.647
N33	JUNCTION	1.24	54.54	0	01:29	0.140	8.962
N33A	JUNCTION	0.00	54.53	0	01:29	0.000	8.961

N34	JUNCTION	101.00	169.02	0	00:15	4.802	10.817
N34A	JUNCTION	5.26	55.64	0	01:25	0.356	8.780
N35	JUNCTION	65.83	65.83	0	00:20	2.658	2.658
N36	JUNCTION	86.74	179.79	0	00:15	5.264	22.340
N37	JUNCTION	27.32	27.32	0	00:15	1.492	1.492
N38	JUNCTION	72.31	160.85	0	00:35	3.710	19.393
N38A	JUNCTION	0.00	160.74	0	00:35	0.000	19.390
N39	JUNCTION	41.24	130.60	0	01:05	10.753	52.465
N39A	JUNCTION	0.00	130.52	0	01:05	0.000	52.461
N4	JUNCTION	11.88	61.07	0	00:10	0.613	17.094
N40	JUNCTION	14.52	102.93	0	01:05	2.354	43.074
N40A	JUNCTION	0.00	93.96	0	00:29	0.000	41.924
N41	JUNCTION	20.22	351.61	0	01:07	3.873	60.409
N41A	JUNCTION	0.00	92.67	0	08:09	0.000	40.791
N42	JUNCTION	55.79	321.06	0	00:44	9.210	54.865
N45	JUNCTION	117.56	264.46	0	00:15	7.914	31.108
N46	JUNCTION	51.73	432.76	0	00:17	3.671	27.335
N46A	JUNCTION	0.00	432.53	0	00:17	0.000	27.334
N47	JUNCTION	34.25	412.79	0	00:17	1.563	23.668
N48	JUNCTION	140.47	349.62	0	00:15	8.648	22.114
N49	JUNCTION	192.13	209.86	0	00:15	12.666	13.468
N4A	JUNCTION	0.00	60.37	0	00:10	0.000	17.090
N5	JUNCTION	75.87	88.85	0	00:15	2.814	10.602
N50	JUNCTION	18.43	18.43	0	00:10	0.803	0.803
N51	JUNCTION	0.00	275.10	0	00:19	0.000	41.431
N52	JUNCTION	37.05	37.05	0	00:10	1.795	1.795
N53	JUNCTION	27.23	27.23	0	00:10	1.448	1.448
N53A	JUNCTION	0.00	24.02	0	00:16	0.000	1.437
N54	JUNCTION	108.68	310.34	0	00:15	5.321	25.550
N54A	JUNCTION	0.00	215.99	0	00:10	0.000	24.357
N55	JUNCTION	129.47	129.47	0	00:10	4.225	4.225
N55A	JUNCTION	0.00	26.77	0	01:11	0.000	3.112
N56	JUNCTION	185.58	187.71	0	00:10	15.300	18.477
N57	JUNCTION	20.82	20.82	0	01:05	2.735	2.735
N58	JUNCTION	118.98	118.98	0	01:05	10.879	10.879
N59	JUNCTION	72.36	72.36	0	00:20	2.478	2.478
N5A	JUNCTION	0.00	87.99	0	00:11	0.000	11.970
N6	JUNCTION	37.59	49.06	0	00:10	1.160	8.347
N60	JUNCTION	341.72	341.72	0	00:15	18.214	18.213
N61	JUNCTION	177.79	177.79	0	00:15	14.679	14.678
N62	JUNCTION	190.15	190.15	0	00:15	9.140	9.140
N63	JUNCTION	32.29	32.29	0	00:20	1.262	1.262
N64	JUNCTION	23.23	23.23	0	00:10	1.188	1.188
N65	JUNCTION	302.50	302.50	0	00:15	17.528	17.528
N65A	JUNCTION	0.00	85.05	0	01:38	0.000	13.321
N66	JUNCTION	362.48	374.29	0	00:15	11.016	17.345
N67	JUNCTION	37.94	289.27	0	00:23	1.410	23.067
N68	JUNCTION	26.89	26.89	0	00:20	0.891	0.891
N69	JUNCTION	175.57	262.58	0	00:20	14.026	28.953
N6A	JUNCTION	0.00	48.72	0	00:10	0.000	8.346
N7	JUNCTION	0.58	17.48	0	00:20	0.021	8.777
N70	JUNCTION	10.28	73.27	0	00:35	0.604	11.865
N71	JUNCTION	9.90	102.26	0	01:05	0.625	12.427
N72	JUNCTION	22.76	95.91	0	01:06	2.090	11.806
N73	JUNCTION	153.73	153.73	0	00:15	8.202	8.202
N74	JUNCTION	21.45	21.45	0	00:10	2.941	2.941
N75	JUNCTION	26.95	26.95	0	00:15	1.191	1.191
N76	JUNCTION	119.04	119.04	0	00:10	9.481	9.481
N77	JUNCTION	14.39	14.39	0	01:05	1.758	1.758
N78	JUNCTION	14.92	111.09	0	00:12	0.997	6.122
N79	JUNCTION	109.93	109.93	0	00:20	4.280	4.280
N7A	JUNCTION	106.59	123.96	0	00:10	3.039	11.814
N8	JUNCTION	381.31	406.57	0	00:15	10.395	15.310
N80	JUNCTION	162.25	162.25	0	00:15	7.528	7.528
N82	JUNCTION	7.25	7.25	0	00:10	0.386	0.386
N83	JUNCTION	1.23	1.23	0	01:05	0.098	0.098
N84	JUNCTION	10.04	10.04	0	01:05	1.130	1.129
N85	JUNCTION	23.31	23.31	0	00:10	1.995	1.994
N85A	JUNCTION	0.00	7.99	0	02:02	0.000	1.705
N86	JUNCTION	25.59	25.59	0	00:10	1.668	1.668
N87	JUNCTION	50.89	50.89	0	00:10	4.427	4.426
N88	JUNCTION	15.80	15.80	0	00:10	1.301	1.301

N89	JUNCTION	11.58	11.58	0	00:10	0.494	0.494
N9	JUNCTION	178.43	178.43	0	00:15	7.132	7.131
N90	JUNCTION	22.17	22.17	0	00:10	0.949	0.949
N91	JUNCTION	25.22	25.22	0	00:10	2.632	2.631
N92	JUNCTION	571.53	898.65	0	01:05	52.189	275.507
N93	JUNCTION	6.49	6.49	0	00:10	0.455	0.455
N94	JUNCTION	10.60	150.94	0	01:24	5.294	19.007
N95	JUNCTION	90.03	188.49	0	00:21	4.837	12.532
N96	JUNCTION	144.56	144.56	0	00:15	7.639	7.639
N97	JUNCTION	244.19	244.19	0	00:15	15.688	34.171
N98	JUNCTION	132.82	199.23	0	01:27	8.632	39.512
N99	JUNCTION	24.19	24.19	0	00:10	1.015	1.015
N111A	JUNCTION	0.00	121.53	0	00:08	0.000	17.208
N111	JUNCTION	69.41	217.96	0	00:15	3.622	19.047
N131	JUNCTION	43.72	43.72	0	00:10	2.371	2.371
N112	JUNCTION	70.59	140.37	0	00:15	4.198	13.550
N132	JUNCTION	172.50	184.79	0	00:15	9.782	11.209
N130	JUNCTION	31.74	31.74	0	00:10	1.406	1.406
N137	JUNCTION	50.83	50.83	0	00:10	2.322	2.322
N126	JUNCTION	109.27	109.27	0	00:15	5.201	5.201
N8A	JUNCTION	21.90	224.93	0	00:08	0.867	14.100
N127	JUNCTION	0.00	209.45	0	00:44	0.000	14.103
N128	JUNCTION	0.00	150.52	0	01:35	0.000	23.792
N129	JUNCTION	106.28	106.28	0	00:10	6.575	6.575
N133	JUNCTION	70.55	141.69	0	00:10	3.586	12.532
N134	JUNCTION	58.48	135.18	0	00:10	3.440	9.601
N135	JUNCTION	97.64	97.64	0	00:10	6.231	6.231
N113	JUNCTION	42.29	110.83	0	00:10	1.954	11.130
N116	JUNCTION	37.36	37.36	0	00:10	2.233	2.233
N117	JUNCTION	66.64	66.64	0	00:15	4.024	4.024
N114	JUNCTION	51.38	51.40	0	00:10	3.108	3.935
N115	JUNCTION	38.36	65.54	0	00:20	1.274	6.051
N118	JUNCTION	66.11	72.36	0	00:15	3.135	6.021
N119	JUNCTION	131.10	131.10	0	00:10	5.881	5.880
N120	JUNCTION	192.47	209.69	0	00:15	12.520	18.666
N121	JUNCTION	21.77	21.77	0	00:10	0.877	0.877
N122	JUNCTION	163.71	163.71	0	00:15	10.483	10.483
N123	JUNCTION	106.82	156.53	0	00:15	6.535	16.524
N124	JUNCTION	140.59	140.59	0	00:15	8.488	8.488
N125	JUNCTION	87.22	87.22	0	00:10	4.125	4.125
N136	JUNCTION	78.40	78.40	0	00:10	4.271	4.271
N96A	JUNCTION	0.00	143.98	0	00:15	0.000	7.639
OUT6	JUNCTION	1.11	333.21	0	02:48	0.108	152.203
OUT4	JUNCTION	0.00	434.35	0	01:24	0.000	183.020
OUT3	JUNCTION	2.46	544.06	0	01:12	0.319	202.825
OUT5	JUNCTION	0.00	401.09	0	02:48	0.000	174.481
N138	JUNCTION	387.39	387.39	0	00:15	24.559	24.559
N139	JUNCTION	30.62	30.62	0	00:10	1.518	1.518
N142	JUNCTION	28.08	28.08	0	00:15	0.758	0.758
N136A	JUNCTION	0.00	77.74	0	00:10	0.000	4.270
N77A	JUNCTION	0.00	14.39	0	01:05	0.000	1.758
N44A_	JUNCTION	0.00	0.00	0	00:00	0.000	0.000
N44A	JUNCTION	0.00	263.28	0	00:23	0.000	37.122
N126A	JUNCTION	0.00	75.99	0	00:44	0.000	4.820
N127A	JUNCTION	0.00	107.14	0	01:19	0.000	11.425
N128A	JUNCTION	0.00	148.42	0	00:09	0.000	23.786
N129A	JUNCTION	211.41	356.01	0	00:15	11.083	28.453
N130A	JUNCTION	0.00	16.65	0	01:06	0.000	1.291
N137A	JUNCTION	0.00	16.70	0	01:07	0.000	1.424
N132A	JUNCTION	0.00	75.96	0	01:19	0.000	9.351
N131A	JUNCTION	0.00	12.00	0	01:32	0.000	1.876
N116A	JUNCTION	0.00	17.27	0	01:15	0.000	1.961
N117A	JUNCTION	0.00	12.01	0	02:51	0.000	2.816
N118A	JUNCTION	0.00	74.67	0	00:16	0.000	6.019
N119A	JUNCTION	0.00	7.96	0	04:35	0.000	2.884
N120A	JUNCTION	0.00	107.79	0	01:15	0.000	17.083
N121A	JUNCTION	0.00	2.71	0	01:42	0.000	0.538
N122A	JUNCTION	0.00	8.03	0	13:02	0.000	4.103
N123A	JUNCTION	0.00	109.63	0	01:22	0.000	15.690
N125A	JUNCTION	0.00	17.25	0	01:41	0.000	2.878
N124A	JUNCTION	0.00	50.44	0	01:25	0.000	7.081
N43	JUNCTION	0.00	262.04	0	00:26	0.000	37.095

N43A	JUNCTION	0.00	262.05	0	00:26	0.000	37.094
N76A	JUNCTION	0.00	42.82	0	01:26	0.000	8.475
N145	JUNCTION	40.10	40.10	0	00:15	1.038	1.038
N145A	JUNCTION	0.00	31.48	0	00:23	0.000	1.002
N73A	JUNCTION	0.00	67.79	0	00:08	0.000	6.767
N74A	JUNCTION	0.00	21.29	0	00:10	0.000	2.940
N72A	JUNCTION	0.00	95.91	0	01:06	0.000	11.805
N71A	JUNCTION	0.00	66.90	0	01:36	0.000	11.267
N70A	JUNCTION	0.00	73.22	0	00:35	0.000	11.863
N22A	JUNCTION	0.00	53.41	0	03:46	0.000	16.485
N144	JUNCTION	14.45	121.20	0	00:20	1.064	5.343
N144A	JUNCTION	0.00	98.02	0	00:12	0.000	5.126
N79A	JUNCTION	0.00	109.65	0	00:20	0.000	4.280
N78A	JUNCTION	0.00	108.17	0	00:13	0.000	6.115
N80A	JUNCTION	0.00	14.61	0	03:20	0.000	3.948
N106	JUNCTION	296.92	298.96	0	00:15	17.817	21.787
N106A	JUNCTION	0.00	251.65	0	00:12	0.000	21.663
N146A	JUNCTION	0.00	17.22	0	00:10	0.000	0.811
N146	JUNCTION	18.95	18.95	0	00:10	0.813	0.813
N81	JUNCTION	462.16	514.51	0	02:17	33.966	159.812
N98A	JUNCTION	0.00	324.22	0	01:26	0.000	91.916
N86A	JUNCTION	0.00	7.87	0	01:41	0.000	1.352
N67A	JUNCTION	0.00	143.45	0	01:22	0.000	20.089
N147A	JUNCTION	0.00	24.30	0	00:10	0.000	3.073
N147	JUNCTION	25.11	25.11	0	00:10	3.074	3.074
N10A	JUNCTION	70.47	148.05	0	00:48	10.301	34.018
S17W_out	JUNCTION	0.00	14.21	0	00:27	0.000	2.268
S17E_out	JUNCTION	0.00	21.29	0	01:25	0.000	3.568
S17_out	JUNCTION	0.00	20.08	0	03:25	0.000	5.424
N12A	JUNCTION	0.00	14.77	0	00:06	0.000	9.908
OUT1	OUTFALL	0.00	11.51	0	00:06	0.000	7.721
OUT2	OUTFALL	0.00	91.55	0	00:10	0.000	32.756
OUT7	OUTFALL	0.00	44.34	0	00:19	0.000	3.249
OUT8	OUTFALL	0.00	11.07	0	01:05	0.000	1.324
OUT9	OUTFALL	0.00	67.38	0	00:10	0.000	4.123
OUT10	OUTFALL	0.00	25.66	0	00:10	0.000	1.153
OUT11	OUTFALL	0.00	24.19	0	00:10	0.000	1.015
OUT12	OUTFALL	0.00	72.16	0	00:20	0.000	2.478
OUT13	OUTFALL	0.00	107.51	0	01:06	0.000	7.933
OUT14	OUTFALL	0.00	32.23	0	00:20	0.000	1.261
OUT15	OUTFALL	0.00	65.83	0	00:20	0.000	2.658
OUT16	OUTFALL	463.57	664.14	0	00:35	30.374	50.847
OUT17	OUTFALL	0.00	374.29	0	00:15	0.000	17.345
OUT18	OUTFALL	0.00	33.61	0	00:11	0.000	13.673
OUT19	OUTFALL	0.00	26.89	0	00:20	0.000	0.891
OUT20	OUTFALL	0.00	898.65	0	01:05	0.000	275.507
OUT21	OUTFALL	0.00	16.32	0	01:05	0.000	1.613
OUT22	OUTFALL	0.00	50.33	0	00:10	0.000	5.513
OUT23	OUTFALL	0.00	50.89	0	00:10	0.000	4.426
OUT24	OUTFALL	0.00	15.80	0	00:10	0.000	1.301
OUT25	OUTFALL	0.00	11.58	0	00:10	0.000	0.494
OUT27	OUTFALL	0.00	6.49	0	00:10	0.000	0.455
OUT26	OUTFALL	0.00	352.72	0	00:15	0.000	22.310
OUT28	OUTFALL	0.00	22.84	0	00:10	0.000	1.188
N44	DIVIDER	46.16	263.31	0	00:23	5.874	37.123
S17W	STORAGE	64.97	64.97	0	00:15	3.074	3.074
S17E	STORAGE	26.14	38.07	0	00:35	1.313	3.580
S17	STORAGE	92.87	102.33	0	00:20	3.382	6.950
S56	STORAGE	0.00	187.71	0	00:10	0.000	18.477
S57	STORAGE	0.00	20.82	0	01:05	0.000	2.735
S60	STORAGE	0.00	341.72	0	00:15	0.000	18.213
S58	STORAGE	0.00	118.98	0	01:05	0.000	10.879
S61	STORAGE	0.00	177.79	0	00:15	0.000	14.678
S138	STORAGE	0.00	387.39	0	00:15	0.000	24.559

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Node Surcharge Summary
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Surcharging occurs when water rises above the top of the highest conduit.

Node	Type	Hours Surcharged	Max. Height Above Crown Feet	Min. Depth Below Rim Feet
N1	JUNCTION	24.41	0.000	0.000
N10	JUNCTION	0.47	0.000	0.000
N100	JUNCTION	25.01	0.000	10.000
N101	JUNCTION	25.01	0.000	10.000
N102	JUNCTION	25.01	0.000	10.000
N105	JUNCTION	25.01	0.000	10.000
N109	JUNCTION	25.01	0.000	10.000
N110	JUNCTION	25.01	0.000	10.000
N12	JUNCTION	24.92	6.000	0.000
N14	JUNCTION	1.00	0.000	0.000
N15	JUNCTION	1.77	0.000	0.000
N15A	JUNCTION	1.55	0.000	0.000
N16A	JUNCTION	4.48	0.000	0.000
N18A	JUNCTION	0.28	0.000	0.000
N2	JUNCTION	13.12	0.000	0.000
N21	JUNCTION	4.47	0.000	0.000
N22	JUNCTION	3.91	0.000	0.000
N25	JUNCTION	6.33	0.000	0.000
N25A	JUNCTION	6.32	0.000	0.000
N26	JUNCTION	24.14	0.000	0.000
N27	JUNCTION	0.15	0.000	0.000
N28	JUNCTION	0.17	0.000	0.000
N29	JUNCTION	1.02	0.000	0.000
N31	JUNCTION	1.16	0.000	0.000
N34	JUNCTION	1.28	0.000	0.000
N35	JUNCTION	25.01	0.000	10.000
N4	JUNCTION	0.16	0.000	0.000
N40	JUNCTION	8.05	0.000	0.000
N41	JUNCTION	7.77	0.000	0.000
N41A	JUNCTION	7.77	0.000	0.000
N46A	JUNCTION	1.27	0.000	0.000
N47	JUNCTION	0.02	0.000	0.000
N48	JUNCTION	0.07	0.000	0.000
N5	JUNCTION	0.42	0.000	0.000
N51	JUNCTION	1.13	0.000	0.000
N53	JUNCTION	0.15	0.000	0.000
N54	JUNCTION	0.66	0.000	0.000
N54A	JUNCTION	0.65	0.000	0.000
N55	JUNCTION	1.08	0.000	0.000
N57	JUNCTION	25.01	0.000	10.000
N58	JUNCTION	25.01	0.000	10.000
N60	JUNCTION	25.01	0.000	10.000
N61	JUNCTION	25.01	0.000	10.000
N62	JUNCTION	1.00	0.000	0.000
N65	JUNCTION	1.55	0.000	0.000
N65A	JUNCTION	1.50	0.000	5.500
N67	JUNCTION	1.22	0.000	0.000
N68	JUNCTION	25.01	0.000	10.000
N6A	JUNCTION	6.05	0.000	0.000
N71	JUNCTION	1.48	0.000	0.000
N73	JUNCTION	1.14	0.000	0.000
N76	JUNCTION	1.44	0.000	0.000
N77	JUNCTION	25.01	0.000	10.000
N78	JUNCTION	0.17	0.000	0.000
N7A	JUNCTION	14.63	0.000	0.000
N8	JUNCTION	0.98	0.000	0.000
N80	JUNCTION	3.20	0.000	0.000
N82	JUNCTION	25.01	0.000	10.000
N83	JUNCTION	25.01	0.000	10.000
N84	JUNCTION	25.01	0.000	10.000
N85	JUNCTION	2.19	0.000	0.000
N86	JUNCTION	1.63	0.000	0.000
N87	JUNCTION	25.01	0.000	10.000
N88	JUNCTION	25.01	0.000	10.000
N89	JUNCTION	25.01	0.000	10.000
N9	JUNCTION	0.51	0.000	0.000
N90	JUNCTION	25.01	0.000	10.000
N91	JUNCTION	25.01	0.000	10.000

N93	JUNCTION	25.01	0.000	10.000
N99	JUNCTION	25.01	0.000	10.000
N111A	JUNCTION	12.38	0.000	0.000
N111	JUNCTION	1.34	0.000	0.000
N131	JUNCTION	1.50	0.000	0.000
N132	JUNCTION	1.25	0.000	0.000
N130	JUNCTION	0.99	0.000	0.000
N137	JUNCTION	24.93	0.000	0.000
N126	JUNCTION	0.71	0.000	0.000
N127	JUNCTION	1.22	0.000	0.000
N128	JUNCTION	1.51	0.000	0.000
N129	JUNCTION	1.10	0.000	0.000
N133	JUNCTION	1.09	0.000	0.000
N134	JUNCTION	1.08	0.000	0.000
N135	JUNCTION	0.18	0.000	0.000
N113	JUNCTION	0.90	0.000	0.000
N116	JUNCTION	1.13	0.000	0.000
N117	JUNCTION	3.00	0.000	0.000
N114	JUNCTION	1.42	0.000	0.000
N115	JUNCTION	0.55	0.000	0.000
N118	JUNCTION	0.07	0.000	0.000
N119	JUNCTION	6.02	0.000	0.000
N120	JUNCTION	1.16	0.000	0.000
N121	JUNCTION	1.60	0.000	0.000
N122	JUNCTION	12.94	0.000	0.000
N123	JUNCTION	1.20	0.000	0.000
N124	JUNCTION	1.31	0.000	0.000
N125	JUNCTION	1.58	0.000	0.000
OUT6	JUNCTION	7.63	0.000	6.000
N138	JUNCTION	25.01	0.000	0.000
N142	JUNCTION	0.43	0.000	0.000
N129A	JUNCTION	1.49	0.000	0.000
N145	JUNCTION	0.23	0.000	0.000
N71A	JUNCTION	1.43	0.000	0.000
N144	JUNCTION	0.48	0.000	0.000
N78A	JUNCTION	0.01	0.000	0.000
N106	JUNCTION	0.19	0.000	0.000
N146	JUNCTION	0.09	0.000	0.000
N81	JUNCTION	9.19	0.000	0.000
N67A	JUNCTION	6.28	0.000	0.000
N10A	JUNCTION	24.92	1.300	0.000
S17W	STORAGE	24.80	4.000	0.000
S17E	STORAGE	2.35	1.263	4.237
S56	STORAGE	25.01	1.395	0.605
S57	STORAGE	25.01	1.412	0.588
S60	STORAGE	25.01	1.472	0.528
S58	STORAGE	25.01	1.419	0.581
S61	STORAGE	25.01	1.882	0.118
S138	STORAGE	25.01	1.819	0.181

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Node Flooding Summary
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Flooding refers to all water that overflows a node, whether it ponds or not.

Node	Hours Flooded	Maximum Rate CFS	Time of Max Occurrence days	hr:min	Total Flood Volume Mgal	Maximum Ponded Volume acre-in
N1	24.41	362.95	0	00:35	31.719	0.00
N10	0.47	0.00	0	00:00	0.000	0.00
N12	24.92	186.67	0	01:05	43.383	0.00
N14	1.00	59.91	0	00:15	0.521	0.00
N15	1.77	214.94	0	00:12	4.955	0.00
N15A	1.55	0.00	0	00:00	0.000	0.00
N16A	4.48	159.11	0	00:15	3.991	0.00
N18A	0.28	106.85	0	00:15	0.502	0.00
N2	13.12	645.31	0	00:20	31.879	0.00
N21	4.47	93.15	0	00:10	2.494	0.00

N22	3.91	66.48	0	00:15	3.928	0.00
N25	6.33	211.28	0	00:16	7.649	0.00
N25A	6.32	0.00	0	00:00	0.000	0.00
N26	24.14	107.50	0	00:20	10.127	0.00
N27	0.15	9.01	0	00:10	0.016	0.00
N28	0.17	6.41	0	00:10	0.014	0.00
N29	1.02	45.68	0	00:20	0.584	0.00
N31	1.16	110.78	0	00:21	2.071	0.00
N34	1.28	119.83	0	00:16	2.400	0.00
N4	0.16	3.00	0	00:11	0.006	0.00
N40	8.05	13.23	0	01:05	1.153	0.00
N41	7.77	263.17	0	01:07	19.618	0.00
N41A	7.77	0.00	0	00:00	0.000	0.00
N46A	1.27	284.33	0	00:18	4.140	0.00
N47	0.02	9.12	0	00:17	0.004	0.00
N48	0.07	16.86	0	00:15	0.018	0.00
N5	0.42	30.34	0	00:15	0.151	0.00
N51	1.13	89.77	0	00:19	2.267	0.00
N53	0.15	4.55	0	00:10	0.011	0.00
N54	0.66	94.23	0	00:15	1.191	0.00
N54A	0.65	0.00	0	00:00	0.000	0.00
N55	1.08	103.78	0	00:10	1.114	0.00
N62	1.00	87.73	0	00:15	1.208	0.00
N65	1.55	220.97	0	00:15	4.211	0.00
N67	1.22	152.39	0	00:23	2.979	0.00
N6A	6.05	35.54	0	00:10	0.557	0.00
N71	1.48	39.25	0	01:05	1.161	0.00
N73	1.14	89.35	0	00:15	1.436	0.00
N76	1.44	78.82	0	00:10	1.008	0.00
N78	0.17	8.05	0	00:12	0.012	0.00
N7A	14.63	111.88	0	00:10	4.629	0.00
N8	0.98	228.49	0	00:15	2.181	0.00
N80	3.20	148.30	0	00:15	3.595	0.00
N85	2.19	15.55	0	00:10	0.291	0.00
N86	1.63	17.80	0	00:10	0.317	0.00
N9	0.51	89.82	0	00:15	0.582	0.00
N111A	12.38	101.83	0	00:09	8.451	0.00
N111	1.34	101.73	0	00:15	1.841	0.00
N131	1.50	31.99	0	00:10	0.496	0.00
N132	1.25	113.23	0	00:15	1.861	0.00
N130	0.99	15.39	0	00:10	0.115	0.00
N137	24.93	50.12	0	00:10	2.190	0.00
N126	0.71	38.51	0	00:15	0.385	0.00
N127	1.22	103.68	0	00:44	2.681	0.00
N128	1.51	7.89	0	01:36	0.008	0.00
N129	1.10	58.96	0	00:10	0.655	0.00
N133	1.09	40.07	0	00:10	0.575	0.00
N134	1.08	60.86	0	00:10	0.660	0.00
N135	0.18	25.97	0	00:10	0.074	0.00
N113	0.90	23.36	0	00:11	0.272	0.00
N116	1.13	21.38	0	00:10	0.273	0.00
N117	3.00	54.99	0	00:15	1.210	0.00
N114	1.42	30.49	0	00:10	0.664	0.00
N115	0.55	17.40	0	00:20	0.151	0.00
N118	0.07	1.00	0	00:15	0.001	0.00
N119	6.02	123.07	0	00:10	3.000	0.00
N120	1.16	108.00	0	00:15	1.584	0.00
N121	1.60	19.01	0	00:10	0.340	0.00
N122	12.94	155.30	0	00:15	6.382	0.00
N123	1.20	54.92	0	00:15	0.838	0.00
N124	1.31	92.45	0	00:15	1.409	0.00
N125	1.58	70.60	0	00:10	1.250	0.00
N142	0.43	13.07	0	00:15	0.068	0.00
N129A	1.49	212.49	0	00:15	4.666	0.00
N145	0.23	10.29	0	00:15	0.038	0.00
N71A	1.43	0.00	0	00:00	0.000	0.00
N144	0.48	28.14	0	00:20	0.220	0.00
N78A	0.01	0.00	0	00:00	0.000	0.00
N106	0.19	46.02	0	00:15	0.124	0.00
N146	0.09	2.74	0	00:10	0.003	0.00
N81	9.19	252.98	0	02:17	31.738	0.00
N67A	6.28	106.53	0	01:22	6.508	0.00

N10A	24.92	136.54	0	00:48	26.297	0.00
S17W	1.00	45.11	0	00:35	0.652	0.00

****
Storage Volume Summary
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Storage Unit	Average Volume 1000 ft3	Avg Pcnt Full	Maximum Volume 1000 ft3	Max Pcnt Full	Time of Max Occurrence days hr:min	Maximum Outflow CFS
S17W	27.690	44	62.566	100	0 00:27	14.21
S17E	10.924	6	66.819	37	0 01:25	21.29
S17	258.352	47	363.657	66	0 03:25	20.08
S56	1810.220	36	2470.221	49	1 01:00	0.00
S57	259.393	35	365.581	50	1 01:00	0.00
S60	1940.406	43	2434.933	54	1 01:00	0.00
S58	1075.572	37	1454.404	50	1 01:00	0.00
S61	1431.151	65	1962.297	89	1 01:00	0.00
S138	2528.689	64	3283.262	83	1 01:00	0.00

****
Outfall Loading Summary
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Outfall Node	Flow Freq. Pcnt.	Avg. Flow CFS	Max. Flow CFS	Total Volume Mgal
OUT1	99.67	11.50	11.51	7.721
OUT2	99.67	48.81	91.55	32.756
OUT7	99.67	4.84	44.34	3.249
OUT8	99.67	1.97	11.07	1.324
OUT9	99.67	6.14	67.38	4.123
OUT10	99.67	1.72	25.66	1.153
OUT11	99.67	1.51	24.19	1.015
OUT12	99.63	3.69	72.16	2.478
OUT13	99.67	11.82	107.51	7.933
OUT14	99.63	1.88	32.23	1.261
OUT15	99.67	3.96	65.83	2.658
OUT16	99.67	75.76	664.14	50.847
OUT17	99.67	25.84	374.29	17.345
OUT18	99.50	20.41	33.61	13.673
OUT19	99.67	1.33	26.89	0.891
OUT20	99.67	410.51	898.65	275.507
OUT21	99.67	2.40	16.32	1.613
OUT22	99.67	8.21	50.33	5.513
OUT23	99.67	6.60	50.89	4.426
OUT24	99.67	1.94	15.80	1.301
OUT25	99.67	0.74	11.58	0.494
OUT27	99.67	0.68	6.49	0.455
OUT26	99.67	33.24	352.72	22.310
OUT28	99.63	1.77	22.84	1.188
System	99.66	687.28	2602.85	461.234

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Link Flow Summary
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Link	Type	Maximum Flow CFS	Time of Max Occurrence days hr:min	Maximum Velocity ft/sec	Max/ Full Flow	Max/ Full Depth
C100-10	DUMMY	25.66	0 00:10			
C10-10A	CONDUIT	111.59	0 00:46	2.98	0.98	0.98

C101-9	DUMMY	67.38	0	00:10			
C103-97	CONDUIT	56.59	0	01:54	1.28	0.03	0.12
C104-26	DUMMY	352.72	0	00:15			
C105-110	DUMMY	15.49	0	01:05			
C107-7	DUMMY	44.34	0	00:19			
C108-16	DUMMY	200.57	0	00:35			
C109-21	DUMMY	16.32	0	01:05			
C1-10	CONDUIT	27.64	1	00:20	9.36	1.08	1.00
C11-2	CONDUIT	91.55	0	00:10	10.16	0.49	0.45
C12A-11	CONDUIT	14.77	0	19:03	0.62	0.01	0.06
C102-8	DUMMY	11.07	0	01:05			
C13-12	CONDUIT	58.98	0	01:10	1.60	0.24	0.53
C14-14A	CONDUIT	76.67	0	00:44	8.46	1.08	1.00
C14A-12	CONDUIT	78.00	0	01:10	2.20	0.02	0.09
C15-15A	CONDUIT	105.24	0	01:41	9.00	1.20	1.00
C15A-22	CONDUIT	97.07	0	01:43	4.42	0.48	0.71
C16-16A	CONDUIT	194.76	0	00:15	17.52	0.68	0.62
C16A-18	CONDUIT	34.99	0	00:07	4.38	1.00	1.00
C61-S61	DUMMY	177.79	0	00:15			
C17-17A	CONDUIT	45.67	0	00:10	8.94	0.13	0.21
C17A-11	CONDUIT	33.16	0	01:10	1.44	0.01	0.06
C18-18A	CONDUIT	74.24	0	00:15	8.48	0.14	0.22
C18A-54	CONDUIT	201.66	0	00:12	5.32	1.00	1.00
C19-13	CONDUIT	16.79	0	00:11	4.57	0.14	0.41
C20-20A	CONDUIT	32.26	0	01:05	6.16	0.22	0.29
C20A-12	CONDUIT	28.32	0	01:35	1.35	0.01	0.05
C66-17	DUMMY	374.29	0	00:15			
C21-21A	CONDUIT	7.83	0	04:09	2.69	1.07	1.00
C2-13	CONDUIT	51.82	0	12:58	8.79	1.08	1.00
C21A-20	CONDUIT	7.42	0	04:34	0.88	0.00	0.02
C22A-4	CONDUIT	52.25	0	03:46	5.30	0.16	0.42
C23-25	CONDUIT	221.02	0	00:16	5.94	0.36	0.65
C24-17	CONDUIT	4.15	0	01:55	0.75	0.00	0.01
C25-25A	CONDUIT	30.38	0	00:09	1.69	1.08	1.00
C25A-25B	CHANNEL	30.22	0	06:31	2.78	0.07	0.32
C25B-26	CHANNEL	50.03	0	00:17	3.46	0.10	0.38
C26-26A	CONDUIT	10.81	0	18:59	3.69	1.08	1.00
C26A-29	CONDUIT	10.44	0	19:00	1.70	0.13	0.46
C27-25B	CONDUIT	22.06	0	00:17	7.77	1.05	1.00
C28-28A	CONDUIT	16.90	0	00:17	5.83	1.06	1.00
C28A-30	CONDUIT	16.68	0	00:17	6.15	0.10	0.41
C29-30	CONDUIT	34.35	0	01:09	2.50	1.12	1.00
C30-30A	CONDUIT	47.23	0	00:18	3.84	0.71	0.88
C30A-30B	CONDUIT	68.40	0	00:15	7.30	0.48	0.49
C30B-31	CONDUIT	64.80	0	00:23	2.74	0.08	0.27
C3-1	CONDUIT	179.17	0	01:08	4.01	0.90	0.96
C31-31A	CONDUIT	81.93	0	01:19	4.31	1.07	1.00
C31A-32	CONDUIT	80.80	0	01:21	1.52	0.30	0.60
C32-3	CONDUIT	122.92	0	00:35	9.93	0.04	0.24
C33-33A	CONDUIT	54.53	0	01:29	5.05	0.98	0.80
C33A-4	CONDUIT	54.11	0	01:32	2.60	0.04	0.25
C34-34A	CONDUIT	53.55	0	01:25	7.98	1.09	1.00
C34A-33	CONDUIT	53.70	0	01:29	1.93	0.06	0.27
C35-15	DUMMY	65.83	0	00:20			
C36-5	CONDUIT	177.45	0	00:18	10.80	0.96	0.79
C37-120	CONDUIT	21.84	0	00:25	6.43	0.07	0.18
C38-38A	CONDUIT	160.74	0	00:35	10.56	0.87	0.72
C39-39A	CONDUIT	130.52	0	01:05	13.53	0.28	0.32
C39A-98A	CONDUIT	130.31	0	01:06	3.78	0.02	0.18
C40-40A	CONDUIT	93.96	0	00:29	8.85	1.05	1.00
C40A-39	CONDUIT	91.19	0	08:32	2.10	0.19	0.50
C41-41A	CONDUIT	92.67	0	08:09	8.87	1.05	1.00
C41A-40	CONDUIT	90.60	0	08:10	2.50	0.30	0.59
C42-41	CHANNEL	319.68	0	00:50	3.55	0.02	0.22
C44A-43	CHANNEL	262.04	0	00:26	5.57	0.06	0.37
C4-4A	CONDUIT	60.37	0	00:10	6.78	1.04	1.00
C45-44	CHANNEL	238.94	0	00:24	5.87	0.02	0.36
C46-46A	CONDUIT	432.53	0	00:17	18.65	0.34	0.39
C46A-45	CHANNEL	146.90	0	00:10	8.36	1.00	1.00
C47-46	CHANNEL	391.38	0	00:17	6.30	0.99	1.00
C48-47	CONDUIT	379.57	0	00:17	10.39	1.15	0.92
C49-48	CONDUIT	209.15	0	00:15	10.07	0.49	0.50

C4A-51	CONDUIT	59.12	0	00:19	3.52	0.33	0.60
C50-49	CONDUIT	18.50	0	00:10	4.38	0.04	0.10
C51-2	CONDUIT	185.22	0	00:18	4.90	1.00	1.00
C52-107	CONDUIT	36.79	0	00:10	18.48	0.68	0.61
C53-53A	CONDUIT	24.02	0	00:16	14.60	1.06	1.00
C53A-107	CONDUIT	20.64	0	00:23	3.17	0.06	0.28
C54-54A	CONDUIT	215.99	0	00:10	5.54	1.00	1.00
C54A-51	CONDUIT	216.12	0	00:50	6.48	0.81	0.91
C55-55A	CONDUIT	26.77	0	01:11	6.65	1.05	1.00
C5-5A	CONDUIT	62.51	0	00:27	6.83	1.08	1.00
C55A-56	CONDUIT	27.55	0	01:15	1.91	0.00	0.04
C56-S56	DUMMY	187.71	0	00:10			
C57-S57	DUMMY	20.82	0	01:05			
C58-S58	DUMMY	118.98	0	01:05			
C59-12	CONDUIT	72.16	0	00:20	6.18	0.10	0.18
C5A-1	CONDUIT	84.36	0	00:18	5.49	0.29	0.55
C60-S60	DUMMY	341.72	0	00:15			
C62-13	CONDUIT	107.51	0	01:06	9.41	1.06	1.00
C63-14	CONDUIT	32.23	0	00:20	7.19	0.68	0.61
C64-28	CONDUIT	22.84	0	00:10	5.56	0.71	0.62
C65-65A	CONDUIT	85.05	0	01:38	5.87	1.06	1.00
C65A-108	CONDUIT	82.82	0	01:45	2.23	0.02	0.09
C6-6A	CONDUIT	48.72	0	00:10	8.13	0.26	0.35
C67-67A	CONDUIT	143.45	0	01:22	6.30	1.05	1.00
C68-19	DUMMY	26.89	0	00:20			
C69-98	CONDUIT	169.79	0	01:37	2.03	0.08	0.22
C6A-5	CONDUIT	12.99	0	00:07	3.71	1.00	1.00
C70-70A	CONDUIT	73.22	0	00:35	7.56	0.75	0.65
C71-71A	CONDUIT	66.90	0	01:36	5.84	1.06	1.00
C72-72A	CONDUIT	95.91	0	01:06	10.32	0.69	0.56
C73-73A	CONDUIT	67.79	0	00:08	10.42	1.07	1.00
C74-74A	CONDUIT	21.29	0	00:10	6.21	0.49	0.49
C75-97	CONDUIT	12.03	0	01:50	1.03	0.00	0.04
C76A-42	CONDUIT	40.86	0	01:36	1.74	0.00	0.06
C77A-41	CHANNEL	13.99	0	01:08	5.19	0.00	0.09
C7-7A	CONDUIT	17.48	0	00:20	4.36	0.10	0.18
C78A-66	CONDUIT	101.69	0	00:44	2.69	0.02	0.10
C79-79A	CONDUIT	109.65	0	00:20	15.48	0.82	0.69
C7A-6	CONDUIT	11.47	0	00:07	3.06	1.00	1.00
C106A-67	CONDUIT	251.65	0	00:23	4.77	0.14	0.33
C82-109	DUMMY	7.25	0	00:10			
C8-8A	CONDUIT	210.43	0	00:43	8.90	1.19	1.00
C83-109	DUMMY	1.23	0	01:05			
C84-109	DUMMY	10.04	0	01:05			
C85-85A	CONDUIT	7.99	0	02:02	4.83	1.08	1.00
C85A-92	CONDUIT	7.18	0	03:15	1.01	0.00	0.02
C86A-92	CONDUIT	7.49	0	02:00	1.18	0.00	0.02
C87-23	DUMMY	50.89	0	00:10			
C88-24	DUMMY	15.80	0	00:10			
C89-25	DUMMY	11.58	0	00:10			
C90-110	DUMMY	22.17	0	00:10			
C9-10	CONDUIT	87.36	0	00:12	0.93	1.00	1.00
C91-110	DUMMY	25.22	0	00:10			
C92-20	DUMMY	898.65	0	01:05			
C93-27	DUMMY	6.49	0	00:10			
C94-92	CONDUIT	146.93	0	01:38	2.54	0.04	0.14
C95-94	CONDUIT	142.18	0	01:24	1.75	0.09	0.22
C96-96A	CONDUIT	143.98	0	00:15	6.35	0.69	0.56
C97-81	CONDUIT	142.01	0	01:15	1.08	0.15	0.32
C98A-81	CONDUIT	309.38	0	02:23	1.77	0.22	0.41
C99-11	DUMMY	24.19	0	00:10			
C111A-7	CONDUIT	16.91	0	00:07	4.84	1.00	1.00
C111-111A	CONDUIT	121.53	0	00:08	7.79	1.05	1.00
C112-111	CONDUIT	140.26	0	00:15	20.43	0.56	0.54
C132A-12	CONDUIT	72.60	0	01:21	8.88	0.24	0.33
C131A-111	CONDUIT	11.52	0	01:36	5.17	0.04	0.13
C130A-137A	CONDUIT	16.50	0	01:07	6.26	0.75	0.64
C137A-132	CONDUIT	16.74	0	01:09	6.20	0.05	0.16
C126A-8	CONDUIT	71.58	0	01:09	10.02	0.24	0.33
C8A-127	CONDUIT	209.45	0	00:44	8.28	0.39	0.69
C127A-129A	CONDUIT	103.66	0	01:21	10.75	0.31	0.38
C128A-3	CONDUIT	146.28	0	01:39	2.40	0.04	0.15

C129A-128	CONDUIT	150.52	0	01:35	8.61	1.06	1.00
C134-133	CONDUIT	76.94	0	01:12	8.76	1.08	1.00
C135-134	CONDUIT	76.97	0	00:20	8.86	1.08	1.00
C113-23	CONDUIT	100.90	0	00:13	9.26	1.15	0.97
C114-113	CONDUIT	22.24	0	01:33	7.79	1.08	1.00
C115-113	CONDUIT	48.03	0	00:10	7.42	1.00	1.00
C117A-115	CONDUIT	11.70	0	02:52	5.15	0.04	0.13
C116A-115	CONDUIT	16.73	0	01:16	5.81	0.06	0.16
C118A-34	CONDUIT	72.20	0	00:17	8.81	0.24	0.33
C119A-118	CONDUIT	7.88	0	04:37	4.58	0.03	0.11
C120A-36	CONDUIT	105.20	0	01:18	9.83	0.35	0.41
C121A-120	CONDUIT	2.61	0	01:46	3.37	0.01	0.07
C122A-120	CONDUIT	7.86	0	13:03	4.57	0.03	0.11
C123A-38	CONDUIT	104.63	0	01:25	9.82	0.35	0.41
C124A-123	CONDUIT	48.79	0	01:27	7.98	0.16	0.27
C125A-123	CONDUIT	16.33	0	01:43	5.81	0.05	0.16
C136A-104	CONDUIT	57.94	0	01:10	1.21	0.03	0.13
C96A-95	CONDUIT	129.35	0	00:22	1.63	0.06	0.20
C38A-6	CONDUIT	150.36	0	01:10	2.47	0.27	0.46
C6-5	CONDUIT	333.19	0	02:48	1.94	0.21	0.40
C5-4	CONDUIT	400.16	0	02:52	2.17	0.24	0.43
C4-3	CONDUIT	433.95	0	01:25	2.23	0.26	0.46
C3-92	CONDUIT	545.00	0	01:28	4.06	0.15	0.32
C110-22	DUMMY	50.33	0	00:10			
C138-S138	DUMMY	387.39	0	00:15			
C139-5A	CONDUIT	29.99	0	00:11	1.39	0.01	0.05
C142-2	CONDUIT	16.02	0	00:27	5.45	1.08	1.00
C136-136A	CONDUIT	77.74	0	00:10	4.17	0.01	0.05
C77-77A	DUMMY	14.39	0	01:05			
C44-44A	CONDUIT	263.28	0	00:23	25.06	0.82	0.65
C44-44A_	CONDUIT	0.00	0	00:00	0.00	0.00	0.00
C44A_-44A	DUMMY	0.00	0	00:00			
C126-126A	CONDUIT	75.99	0	00:44	8.40	1.08	1.00
C127-127A	CONDUIT	107.14	0	01:19	9.20	1.06	1.00
C128-128A	CONDUIT	148.42	0	00:09	8.59	1.04	0.93
C129-129A	CONDUIT	50.97	0	01:15	8.02	1.08	1.00
C130-130A	CONDUIT	16.65	0	01:06	5.90	1.04	1.00
C137-137A	CONDUIT	0.20	0	00:06	0.16	1.00	1.00
C132-132A	CONDUIT	75.96	0	01:19	8.42	1.08	1.00
C131-131A	CONDUIT	12.00	0	01:32	5.38	1.07	1.00
C133-15	CONDUIT	109.63	0	01:15	9.80	1.08	1.00
C116-116A	CONDUIT	17.27	0	01:15	6.01	1.08	1.00
C117-117A	CONDUIT	12.01	0	02:51	5.42	1.07	1.00
C119-119A	CONDUIT	7.96	0	04:35	4.91	1.07	1.00
C118-118A	CONDUIT	74.67	0	00:16	8.64	1.05	0.91
C120-120A	CONDUIT	107.79	0	01:15	9.42	1.06	1.00
C121-121A	CONDUIT	2.71	0	01:42	3.80	1.08	1.00
C122-122A	CONDUIT	8.03	0	13:02	4.92	1.08	1.00
C124-124A	CONDUIT	50.44	0	01:25	7.81	1.07	1.00
C125-125A	CONDUIT	17.25	0	01:41	6.00	1.08	1.00
C123-123A	CONDUIT	109.63	0	01:22	9.46	1.08	1.00
C76-76A	CONDUIT	42.82	0	01:26	6.57	1.07	1.00
C43-43A	CONDUIT	262.05	0	00:26	9.11	0.66	0.60
C43A-42	CHANNEL	253.45	0	00:43	2.53	0.15	0.71
C145-145A	CONDUIT	31.48	0	00:23	11.00	1.06	1.00
C145A-103	CONDUIT	24.35	0	00:41	1.08	0.01	0.06
C73A-72	CONDUIT	65.67	0	01:16	1.60	0.02	0.10
C74A-72	CONDUIT	20.59	0	01:08	1.19	0.01	0.04
C72A-71	CONDUIT	95.89	0	01:07	3.00	0.01	0.08
C71A-70	CONDUIT	65.95	0	01:37	2.17	0.01	0.05
C70A-69	CONDUIT	73.06	0	00:37	2.26	0.01	0.08
C22-22A	CONDUIT	53.41	0	03:46	9.02	1.08	1.00
C79A-144	CONDUIT	109.62	0	00:20	3.36	0.01	0.08
C144-144A	CONDUIT	98.02	0	00:12	7.74	1.06	1.00
C144A-78	CONDUIT	96.95	0	00:12	2.90	0.02	0.08
C78-78A	CONDUIT	108.17	0	00:13	9.61	1.05	1.00
C80A-106	CONDUIT	14.10	0	03:27	1.26	0.00	0.03
C106-106A	CONDUIT	251.65	0	00:12	19.31	1.00	1.00
C80-80A	CONDUIT	14.61	0	03:20	1.64	1.08	1.00
C146-146A	CONDUIT	17.22	0	00:10	6.02	1.07	1.00
C146A-114	CONDUIT	13.60	0	00:40	1.38	0.00	0.03
C98-98A	CONDUIT	199.22	0	01:28	1.43	0.15	0.33

C81-6	CONDUIT	261.53	0	02:48	0.32	1.00	1.00
C86-86A	CONDUIT	7.87	0	01:41	4.89	1.06	1.00
C67A-18	CONDUIT	33.61	0	00:11	0.21	1.00	1.00
C147-147A	CONDUIT	24.30	0	00:10	7.55	0.72	0.63
C147A-69	CONDUIT	22.22	0	01:07	1.62	0.00	0.03
C10A-1	CONDUIT	11.51	0	00:06	6.51	1.00	1.00
S17_out-16	CONDUIT	20.01	0	03:50	0.83	0.01	0.06
S17E_out-S17	CONDUIT	21.29	0	01:25	15.22	0.02	0.10
S17W_out-S17E	CONDUIT	14.21	0	00:28	6.33	0.27	0.35
C12-12A	CONDUIT	14.77	0	00:06	8.36	1.00	1.00
S17W-S17W_out	DUMMY	14.21	0	00:27			
S17E-S17E_out	DUMMY	21.29	0	01:25			
S17-S17_out	DUMMY	20.08	0	03:25			

****
Conduit Surcharge Summary
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Conduit	Hours Full Both Ends	Hours Full Upstream	Hours Full Dnstream	Hours Above Full Normal Flow	Hours Capacity Limited
C100-10	0.01	0.01	0.01	25.01	0.01
C101-9	0.01	0.01	0.01	25.01	0.01
C104-26	0.01	0.01	0.01	25.01	0.01
C105-110	0.01	0.01	0.01	25.01	0.01
C107-7	0.01	0.01	0.01	25.01	0.01
C108-16	0.01	0.01	0.01	25.01	0.01
C109-21	0.01	0.01	0.01	25.01	0.01
C1-10	24.23	24.40	24.23	0.17	24.40
C102-8	0.01	0.01	0.01	25.01	0.01
C14-14A	0.63	0.99	0.63	1.00	0.99
C15-15A	1.55	1.77	1.55	0.21	1.77
C16A-18	4.46	4.47	4.47	4.47	4.47
C61-S61	0.01	0.01	0.01	25.01	0.01
C18A-54	0.22	0.28	0.23	0.23	0.28
C66-17	0.01	0.01	0.01	25.01	0.01
C21-21A	4.06	4.46	4.06	4.47	4.46
C2-13	12.88	13.11	12.88	24.47	13.11
C25-25A	6.29	6.33	6.32	6.42	6.33
C26-26A	18.88	24.13	18.88	24.14	24.13
C27-25B	0.11	0.14	0.11	0.04	0.14
C28-28A	0.13	0.16	0.13	0.17	0.16
C29-30	1.01	1.02	1.02	24.23	1.02
C31-31A	1.13	1.15	1.13	3.39	1.15
C34-34A	1.25	1.27	1.27	0.03	1.27
C35-15	0.01	0.01	0.01	25.01	0.01
C40-40A	8.00	8.04	8.01	8.06	8.04
C41-41A	7.76	7.76	7.77	7.78	7.76
C4-4A	0.01	0.15	0.01	8.05	0.15
C46A-45	1.26	1.27	1.26	1.26	1.27
C47-46	0.01	0.01	0.01	0.01	0.01
C48-47	0.01	0.07	0.01	1.03	0.07
C51-2	1.00	1.12	1.04	1.04	1.12
C53-53A	0.11	0.14	0.11	0.15	0.14
C54-54A	0.65	0.65	0.65	0.65	0.65
C55-55A	1.07	1.08	1.08	0.01	1.08
C5-5A	0.30	0.42	0.30	1.08	0.42
C56-S56	0.01	0.01	0.01	25.01	0.01
C57-S57	0.01	0.01	0.01	25.01	0.01
C58-S58	0.01	0.01	0.01	25.01	0.01
C60-S60	0.01	0.01	0.01	25.01	0.01
C62-13	0.97	0.99	0.97	0.99	0.99
C64-28	0.01	0.01	0.01	0.16	0.01
C65-65A	1.50	1.54	1.50	1.56	1.54
C67-67A	1.20	1.21	1.21	3.93	1.21
C68-19	0.01	0.01	0.01	25.01	0.01
C6A-5	6.03	6.04	6.04	6.04	6.04
C70-70A	0.01	0.01	0.01	1.88	0.01
C71-71A	1.43	1.48	1.43	1.48	1.48

C73-73A	1.10	1.13	1.10	0.04	1.13
C7A-6	14.62	14.63	14.63	14.63	14.63
C82-109	0.01	0.01	0.01	25.01	0.01
C8-8A	0.57	0.97	0.57	1.24	0.97
C83-109	0.01	0.01	0.01	25.01	0.01
C84-109	0.01	0.01	0.01	25.01	0.01
C85-85A	1.92	2.18	1.92	2.19	2.18
C87-23	0.01	0.01	0.01	25.01	0.01
C88-24	0.01	0.01	0.01	25.01	0.01
C89-25	0.01	0.01	0.01	25.01	0.01
C90-110	0.01	0.01	0.01	25.01	0.01
C9-10	0.43	0.50	0.47	0.01	0.50
C91-110	0.01	0.01	0.01	25.01	0.01
C92-20	0.01	0.01	0.01	25.01	0.01
C93-27	0.01	0.01	0.01	25.01	0.01
C96-96A	0.01	0.01	0.01	0.53	0.01
C99-11	0.01	0.01	0.01	25.01	0.01
C111A-7	12.36	12.37	12.37	0.01	12.37
C111-111A	1.33	1.33	1.33	2.81	1.33
C129A-128	1.44	1.48	1.44	3.20	1.48
C134-133	1.02	1.07	1.03	0.05	1.07
C135-134	0.15	0.17	0.17	0.19	0.17
C113-23	0.01	0.89	0.01	0.93	0.89
C114-113	1.38	1.41	1.40	0.04	1.41
C115-113	0.52	0.54	0.53	0.53	0.54
C110-22	0.01	0.01	0.01	25.01	0.01
C138-S138	0.01	0.01	0.01	25.01	0.01
C142-2	0.32	0.42	0.32	0.42	0.42
C77-77A	0.01	0.01	0.01	25.01	0.01
C44A_-44A	0.01	0.01	0.01	25.01	0.01
C126-126A	0.59	0.70	0.59	0.70	0.70
C127-127A	1.18	1.21	1.18	0.04	1.21
C128-128A	0.01	0.06	0.01	3.21	0.06
C129-129A	1.06	1.09	1.08	0.04	1.09
C130-130A	0.97	0.98	0.97	0.03	0.98
C137-137A	24.92	24.93	24.92	24.92	24.93
C132-132A	1.18	1.24	1.18	1.25	1.24
C131-131A	1.43	1.49	1.43	0.07	1.49
C133-15	1.02	1.08	1.03	0.06	1.08
C116-116A	1.09	1.12	1.10	1.13	1.12
C117-117A	2.73	2.99	2.73	0.28	2.99
C119-119A	4.49	6.01	4.49	6.02	6.01
C118-118A	0.01	0.06	0.01	0.06	0.06
C120-120A	1.10	1.15	1.10	1.16	1.15
C121-121A	1.58	1.59	1.59	1.63	1.59
C122-122A	12.92	12.93	12.93	0.06	12.93
C124-124A	1.27	1.30	1.27	0.05	1.30
C125-125A	1.55	1.57	1.57	0.03	1.57
C123-123A	1.16	1.19	1.17	0.06	1.19
C76-76A	1.32	1.43	1.32	0.13	1.43
C145-145A	0.17	0.22	0.17	0.04	0.22
C22-22A	3.62	3.90	3.62	12.14	3.90
C144-144A	0.44	0.47	0.45	0.48	0.47
C78-78A	0.01	0.16	0.01	0.14	0.16
C106-106A	0.17	0.18	0.18	0.01	0.18
C80-80A	3.17	3.19	3.20	7.20	3.19
C146-146A	0.03	0.08	0.03	0.06	0.08
C81-6	6.55	9.18	7.58	0.01	9.18
C86-86A	1.56	1.62	1.56	0.07	1.62
C67A-18	6.20	6.27	6.26	6.26	6.27
C10A-1	24.92	24.92	24.92	24.92	24.92
C12-12A	24.92	24.92	24.92	24.92	24.92

Analysis begun on: Wed Sep 17 12:42:47 2008
Analysis ended on: Wed Sep 17 12:42:48 2008
Total elapsed time: 00:00:01

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EPA STORM WATER MANAGEMENT MODEL - VERSION 5.0 (Build 5.0.013)
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"City of Brookings, SD: 5-yr 24-hr, Future Conditions"

****************
Analysis Options
****************
Flow Units ............... CFS
Infiltration Method ...... CURVE_NUMBER
Flow Routing Method ...... KINWAVE
Starting Date ............ JAN-01-2007 00:00:00
Ending Date .............. JAN-02-2007 01:00:00
Antecedent Dry Days ...... 0.0
Report Time Step ......... 00:05:00
Wet Time Step ............ 00:05:00
Dry Time Step ............ 00:05:00
Routing Time Step ........ 30.00 sec


**************************        Volume         Depth
Runoff Quantity Continuity     acre-feet        inches
**************************     ---------       -------
Total Precipitation ......      2467.597         3.380
Evaporation Loss .........         0.000         0.000
Infiltration Loss ........      1079.315         1.478
Surface Runoff ...........      1247.213         1.708
Final Surface Storage ....       149.732         0.205
Continuity Error (%) .....        -0.351


**************************        Volume        Volume
Flow Routing Continuity        acre-feet      Mgallons
**************************     ---------     ---------
Dry Weather Inflow .......         0.000         0.000
Wet Weather Inflow .......      1246.394       406.156
Groundwater Inflow .......         0.000         0.000
RDII Inflow ..............         0.000         0.000
External Inflow ..........         0.000         0.000
External Outflow .........       800.904       260.987
Internal Outflow .........       319.557       104.132
Evaporation Loss .........         0.000         0.000
Initial Stored Volume ....         0.000         0.000
Final Stored Volume ......       211.684        68.980
Continuity Error (%) .....        -6.880


*********************************
Highest Flow Instability Indexes
*********************************
Link C40-40A (10)
Link C40A-39 (9)
Link C39-39A (9)
Link C39A-98A (8)
Link C13-12 (3)


*************************
Routing Time Step Summary
*************************
Minimum Time Step           :    30.00 sec
Average Time Step           :    30.00 sec
Maximum Time Step           :    30.00 sec
Percent in Steady State     :     0.00
Average Iterations per Step :     1.05


***************************
Subcatchment Runoff Summary
***************************
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Subcatchment	Total Precip in	Total Runon in	Total Evap in	Total Infil in	Total Runoff in	Total Runoff Mgal	Peak Runoff CFS	Runoff Coeff
BAS_1	3.380	0.000	0.000	1.279	1.986	1.364	44.725	0.587
BAS_10	3.380	0.000	0.000	1.170	2.104	2.200	70.269	0.622
BAS_100	3.380	0.000	0.000	1.397	1.878	0.709	14.438	0.556
BAS_101	3.380	0.000	0.000	2.030	1.129	0.545	6.650	0.334
BAS_102	3.380	0.000	0.000	1.509	1.731	1.970	36.228	0.512
BAS_103	3.380	0.000	0.000	1.482	1.796	0.868	20.709	0.531
BAS_104	3.380	0.000	0.000	1.435	1.870	0.498	14.461	0.553
BAS_105	3.380	0.000	0.000	1.332	1.972	0.573	14.194	0.583
BAS_106	3.380	0.000	0.000	2.181	0.965	0.286	1.155	0.286
BAS_107	3.380	0.000	0.000	2.162	0.913	1.847	7.762	0.270
BAS_108	3.380	0.000	0.000	1.966	1.068	4.140	46.756	0.316
BAS_109	3.380	0.000	0.000	2.129	0.838	3.892	27.120	0.248
BAS_11	3.380	0.000	0.000	0.945	2.389	4.781	100.126	0.707
BAS_110	3.380	0.000	0.000	2.019	1.010	4.318	47.005	0.299
BAS_111	3.380	0.000	0.000	2.029	1.053	0.297	3.426	0.312
BAS_112	3.380	0.000	0.000	2.063	0.986	4.004	40.502	0.292
BAS_114	3.380	0.000	0.000	1.899	1.266	6.583	105.694	0.375
BAS_115	3.380	0.000	0.000	2.165	0.968	1.057	3.942	0.286
BAS_116	3.380	0.000	0.000	2.135	1.051	3.726	24.552	0.311
BAS_117	3.380	0.000	0.000	1.962	1.176	0.658	9.334	0.348
BAS_118	3.380	0.000	0.000	1.521	1.595	6.820	90.291	0.472
BAS_119	3.380	0.000	0.000	1.164	2.129	9.234	181.091	0.630
BAS_121	3.380	0.000	0.000	1.308	1.987	0.421	9.036	0.588
BAS_122	3.380	0.000	0.000	1.556	1.707	0.292	6.638	0.505
BAS_124	3.380	0.000	0.000	0.751	2.625	0.677	16.689	0.777
BAS_125	3.380	0.000	0.000	1.783	1.441	0.282	5.784	0.426
BAS_126	3.380	0.000	0.000	2.181	0.603	1.665	6.134	0.178
BAS_13	3.380	0.000	0.000	0.656	2.639	10.525	254.386	0.781
BAS_14	3.380	0.000	0.000	1.676	1.513	1.010	16.506	0.448
BAS_15	3.380	0.000	0.000	1.343	1.938	5.246	104.792	0.573
BAS_16	3.380	0.000	0.000	1.190	2.096	5.362	103.168	0.620
BAS_18	3.380	0.000	0.000	1.156	2.149	1.027	21.101	0.636
BAS_19	3.380	0.000	0.000	0.883	2.237	0.425	15.165	0.662
BAS_2	3.380	0.000	0.000	0.923	2.350	2.074	56.011	0.695
BAS_20	3.380	0.000	0.000	1.397	1.873	0.763	14.949	0.554
BAS_21	3.380	0.000	0.000	0.763	2.304	2.909	113.783	0.682
BAS_22	3.380	0.000	0.000	2.176	0.945	0.195	0.605	0.280
BAS_23	3.380	0.000	0.000	1.399	1.824	3.760	63.565	0.540
BAS_24	3.380	0.000	0.000	1.417	1.886	0.184	5.159	0.558
BAS_25	3.380	0.000	0.000	0.271	3.153	0.265	9.339	0.933
BAS_26	3.380	0.000	0.000	0.599	2.757	1.700	32.066	0.816
BAS_27	3.380	0.000	0.000	1.908	1.272	0.756	12.544	0.376
BAS_28	3.380	0.000	0.000	1.472	1.810	0.521	12.612	0.535
BAS_29	3.380	0.000	0.000	0.458	2.926	1.240	29.622	0.866
BAS_3	3.380	0.000	0.000	1.900	1.303	1.621	41.778	0.386
BAS_30	3.380	0.000	0.000	0.459	2.957	0.313	10.500	0.875
BAS_31	3.380	0.000	0.000	0.748	2.605	3.120	64.517	0.771
BAS_32	3.380	0.000	0.000	1.709	1.450	2.064	32.134	0.429
BAS_33	3.380	0.000	0.000	0.954	2.382	2.509	53.394	0.705
BAS_34	3.380	0.000	0.000	1.825	1.389	0.158	3.092	0.411
BAS_35	3.380	0.000	0.000	1.469	1.778	2.535	47.359	0.526
BAS_36	3.380	0.000	0.000	1.138	2.168	1.890	38.690	0.642
BAS_37	3.380	0.000	0.000	2.162	0.851	3.914	17.492	0.252
BAS_38	3.380	0.000	0.000	2.146	0.932	0.860	4.702	0.276
BAS_39	3.380	0.000	0.000	2.141	0.902	1.486	8.851	0.267
BAS_4	3.380	0.000	0.000	1.360	1.852	1.398	21.792	0.548
BAS_40	3.380	0.000	0.000	2.071	1.003	0.629	6.274	0.297
BAS_41	3.380	0.000	0.000	2.126	1.005	0.368	2.428	0.297
BAS_42	3.380	0.000	0.000	2.123	1.036	0.326	2.164	0.307
BAS_43	3.380	0.000	0.000	2.012	1.012	2.056	22.352	0.299
BAS_44	3.380	0.000	0.000	1.533	1.661	3.410	56.489	0.492
BAS_45	3.380	0.000	0.000	1.733	1.453	1.658	27.651	0.430
BAS_46	3.380	0.000	0.000	1.537	1.674	5.985	103.511	0.495
BAS_47	3.380	0.000	0.000	1.359	1.877	4.230	73.346	0.555
BAS_48	3.380	0.000	0.000	1.187	2.082	8.833	156.014	0.616
BAS_49	3.380	0.000	0.000	0.587	2.786	2.337	49.951	0.824
BAS_5	3.380	0.000	0.000	1.159	2.075	1.460	39.382	0.614

BAS_50	3.380	0.000	0.000	0.449	2.893	6.237	184.031	0.856
BAS_51	3.380	0.000	0.000	0.822	2.467	16.047	227.399	0.730
BAS_52	3.380	0.000	0.000	1.264	2.018	0.745	14.679	0.597
BAS_53	3.380	0.000	0.000	1.367	1.883	3.815	70.285	0.557
BAS_54	3.380	0.000	0.000	1.208	2.095	2.617	54.316	0.620
BAS_55	3.380	0.000	0.000	0.971	2.377	0.420	9.822	0.703
BAS_56	3.380	0.000	0.000	0.931	2.416	0.820	18.114	0.715
BAS_57	3.380	0.000	0.000	1.530	1.728	0.324	6.914	0.511
BAS_58	3.380	0.000	0.000	2.105	0.967	1.082	8.884	0.286
BAS_59	3.380	0.000	0.000	2.119	0.987	0.917	6.639	0.292
BAS_6	3.380	0.000	0.000	1.372	1.888	0.584	20.653	0.558
BAS_60	3.380	0.000	0.000	1.977	1.205	0.046	0.671	0.357
BAS_61	3.380	0.000	0.000	2.136	1.018	0.055	0.316	0.301
BAS_62	3.380	0.000	0.000	2.137	1.000	0.125	0.727	0.296
BAS_63	3.380	0.000	0.000	1.929	1.173	1.280	17.050	0.347
BAS_64	3.380	0.000	0.000	1.909	1.270	0.569	9.413	0.376
BAS_65	3.380	0.000	0.000	1.688	1.361	20.973	265.912	0.403
BAS_66	3.380	0.000	0.000	1.856	1.379	0.202	3.969	0.408
BAS_67	3.380	0.000	0.000	1.509	1.750	2.319	48.769	0.518
BAS_68	3.380	0.000	0.000	1.060	2.243	3.929	75.391	0.664
BAS_69	3.380	0.000	0.000	0.904	2.419	9.289	176.962	0.716
BAS_7	3.380	0.000	0.000	1.134	2.158	1.594	57.186	0.638
BAS_70	3.380	0.000	0.000	1.411	1.660	16.157	229.157	0.491
BAS_71**	3.380	0.000	0.000	1.467	1.668	7.464	122.339	0.494
BAS_72**	3.380	0.000	0.000	1.490	1.642	4.084	66.511	0.486
BAS_73	3.380	0.000	0.000	1.235	1.942	6.925	86.905	0.575
BAS_74	3.380	0.000	0.000	1.789	1.280	5.205	70.617	0.379
BAS_75	3.380	0.000	0.000	0.786	2.573	0.636	13.936	0.761
BAS_76	3.380	0.000	0.000	1.817	1.433	0.272	5.706	0.424
BAS_77	3.380	0.000	0.000	2.033	1.107	1.256	15.044	0.327
BAS_78	3.380	0.000	0.000	1.771	1.385	4.207	62.856	0.410
BAS_79	3.380	0.000	0.000	0.845	2.502	3.987	84.553	0.740
BAS_8	3.380	0.000	0.000	0.409	2.949	5.909	200.700	0.872
BAS_80	3.380	0.000	0.000	1.869	1.244	0.891	12.056	0.368
BAS_81	3.380	0.000	0.000	1.060	2.241	4.217	79.910	0.663
BAS_82	3.380	0.000	0.000	0.650	2.743	0.484	13.573	0.812
BAS_83	3.380	0.000	0.000	2.056	1.079	1.190	12.945	0.319
BAS_84	3.380	0.000	0.000	0.271	3.093	0.798	17.424	0.915
BAS_85	3.380	0.000	0.000	1.649	1.520	0.487	7.777	0.450
BAS_86	3.380	0.000	0.000	0.954	2.386	3.641	78.943	0.706
BAS_87	3.380	0.000	0.000	0.781	2.591	1.421	34.874	0.767
BAS_88	3.380	0.000	0.000	1.909	1.236	1.887	28.529	0.366
BAS_89	3.380	0.000	0.000	1.909	1.260	1.960	31.666	0.373
BAS_9	3.380	0.000	0.000	1.306	1.893	3.598	92.940	0.560
BAS_90	3.380	0.000	0.000	1.909	1.266	0.560	9.178	0.374
BAS_91	3.380	0.000	0.000	1.398	1.907	0.243	6.708	0.564
BAS_92	3.380	0.000	0.000	1.442	1.859	0.464	13.087	0.550
BAS_93	3.380	0.000	0.000	1.994	1.159	1.096	14.973	0.343
BAS_94	3.380	0.000	0.000	1.814	1.412	0.748	15.276	0.418
BAS_95	3.380	0.000	0.000	1.931	1.249	0.855	13.781	0.370
BAS_96	3.380	0.000	0.000	2.181	0.957	0.743	2.735	0.283
BAS_97	3.380	0.000	0.000	2.181	0.969	0.437	1.836	0.287
BAS_98	3.380	0.000	0.000	2.193	1.004	0.038	0.292	0.297
BAS_99	3.380	0.000	0.000	1.693	1.574	0.180	4.440	0.466
BAS_S17	3.380	0.000	0.000	0.644	2.738	1.836	42.966	0.810
BAS_S17E	3.380	0.000	0.000	0.911	2.416	0.689	13.540	0.715
BAS_S17W	3.380	0.000	0.000	0.912	2.428	1.615	34.134	0.718
BAS_120	3.380	0.000	0.000	0.458	2.924	1.373	31.982	0.865
BAS_12	3.380	0.000	0.000	1.384	1.840	11.943	201.180	0.544
BAS_146	3.380	0.000	0.000	1.435	1.861	0.687	18.248	0.551
BAS_153	3.380	0.000	0.000	1.435	1.857	1.134	28.737	0.549
BAS_147	3.380	0.000	0.000	1.660	1.590	1.105	25.195	0.470
BAS_148	3.380	0.000	0.000	1.323	1.944	4.834	92.619	0.575
BAS_129	3.380	0.000	0.000	1.434	1.819	2.035	38.512	0.538
BAS_128	3.380	0.000	0.000	1.296	1.994	1.803	36.728	0.590
BAS_127	3.380	0.000	0.000	1.434	1.873	0.010	0.310	0.554
BAS_142	3.380	0.000	0.000	0.988	2.346	2.707	58.080	0.694
BAS_143	3.380	0.000	0.000	1.233	2.097	0.438	12.555	0.620
BAS_145	3.380	0.000	0.000	1.533	1.702	3.125	56.788	0.504
BAS_144	3.380	0.000	0.000	1.267	2.005	5.161	97.975	0.593
BAS_149	3.380	0.000	0.000	1.208	2.097	1.810	37.744	0.620
BAS_150	3.380	0.000	0.000	1.625	1.608	1.606	31.870	0.476

BAS_151	3.380	0.000	0.000	1.645	1.571	2.887	52.161	0.465
BAS_123	3.380	0.000	0.000	0.772	2.570	2.841	55.451	0.760
BAS_133	3.380	0.000	0.000	1.337	1.906	1.978	34.883	0.564
BAS_132	3.380	0.000	0.000	1.453	1.798	1.079	20.346	0.532
BAS_131	3.380	0.000	0.000	1.070	2.262	1.007	22.364	0.669
BAS_130	3.380	0.000	0.000	1.637	1.590	1.446	27.846	0.470
BAS_134	3.380	0.000	0.000	1.000	2.335	1.630	35.227	0.691
BAS_135	3.380	0.000	0.000	1.161	2.163	2.995	70.558	0.640
BAS_138	3.380	0.000	0.000	1.395	1.825	5.086	84.911	0.540
BAS_137	3.380	0.000	0.000	1.299	2.022	0.439	12.593	0.598
BAS_136	3.380	0.000	0.000	1.355	1.865	6.112	98.375	0.552
BAS_141	3.380	0.000	0.000	1.367	1.927	2.035	47.693	0.570
BAS_140	3.380	0.000	0.000	1.354	1.889	4.160	73.922	0.559
BAS_139	3.380	0.000	0.000	1.405	1.832	3.174	56.687	0.542
BAS_152**	3.380	0.000	0.000	1.705	1.552	1.977	47.300	0.459
BAS_154	3.380	0.000	0.000	1.593	1.670	0.562	13.269	0.494
BAS_155	3.380	0.000	0.000	1.343	1.948	0.751	16.415	0.576
BAS_158	3.380	0.000	0.000	0.271	3.148	0.590	19.871	0.931
BAS_159	3.380	0.000	0.000	1.707	1.494	0.454	8.040	0.442
BAS_160	3.380	0.000	0.000	1.220	2.037	8.923	152.165	0.603
BAS_161	3.380	0.000	0.000	1.323	1.988	0.405	10.673	0.588
BAS_162	3.380	0.000	0.000	0.610	2.783	0.695	17.911	0.823
BAS_163	3.380	0.000	0.000	1.945	1.424	0.395	18.047	0.421
System	3.380	0.000	0.000	1.478	1.708	406.393	6902.212	0.505

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Node Depth Summary
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Node	Type	Average Depth Feet	Maximum Depth Feet	Maximum HGL Feet	Time of Max Occurrence days	hr:min
N1	JUNCTION	2.19	3.00	1604.60	0	00:06
N10	JUNCTION	1.67	2.98	1603.68	0	00:21
N100	JUNCTION	0.00	0.00	1594.00	0	00:00
N101	JUNCTION	0.00	0.00	1608.00	0	00:00
N102	JUNCTION	0.00	0.00	1626.90	0	00:00
N103	JUNCTION	0.15	0.56	1634.16	0	00:15
N104	JUNCTION	0.09	0.28	1596.75	0	01:13
N105	JUNCTION	0.00	0.00	1611.55	0	00:00
N107	JUNCTION	0.19	0.86	1613.16	0	00:10
N108	JUNCTION	0.11	0.37	1616.03	0	01:10
N109	JUNCTION	0.00	0.00	1638.00	0	00:00
N11	JUNCTION	0.85	1.19	1595.19	0	00:10
N110	JUNCTION	0.00	0.00	1611.55	0	00:00
N12	JUNCTION	9.96	10.00	1608.00	0	00:07
N13	JUNCTION	1.31	2.00	1602.70	0	00:07
N14	JUNCTION	0.60	2.83	1617.56	0	00:15
N14A	JUNCTION	0.60	2.83	1617.37	0	00:15
N15	JUNCTION	0.82	4.00	1624.22	0	00:09
N15A	JUNCTION	0.83	3.00	1622.30	0	00:10
N16	JUNCTION	0.27	1.19	1628.34	0	00:15
N16A	JUNCTION	0.57	3.00	1627.60	0	00:07
N17	JUNCTION	0.12	0.31	1606.31	0	00:10
N17A	JUNCTION	0.12	0.30	1605.10	0	00:10
N18	JUNCTION	0.48	1.00	1624.30	0	00:09
N18A	JUNCTION	0.84	2.89	1625.21	0	00:15
N19	JUNCTION	0.12	0.61	1604.61	0	00:10
N2	JUNCTION	1.60	3.00	1604.55	0	00:07
N20	JUNCTION	0.27	0.46	1613.18	0	02:35
N20A	JUNCTION	0.27	0.46	1612.93	0	02:35
N21	JUNCTION	0.85	2.00	1629.01	0	00:06
N21A	JUNCTION	0.85	2.00	1628.78	0	00:06
N22	JUNCTION	0.87	3.00	1618.30	0	00:10
N23	JUNCTION	0.65	2.51	1614.51	0	00:15
N24	JUNCTION	0.01	0.03	1632.03	0	01:05
N25	JUNCTION	2.29	5.00	1613.46	0	00:09
N25A	JUNCTION	2.29	5.00	1613.34	0	00:11

N25B	JUNCTION	0.75	1.45	1609.45	0	00:12
N26	JUNCTION	2.63	4.00	1610.00	0	00:07
N26A	JUNCTION	1.61	2.00	1607.89	0	00:08
N27	JUNCTION	0.32	1.41	1611.41	0	00:10
N28	JUNCTION	0.26	1.35	1609.35	0	00:10
N28A	JUNCTION	0.61	1.98	1609.66	0	00:10
N29	JUNCTION	1.10	2.50	1608.04	0	00:10
N3	JUNCTION	0.81	1.91	1616.78	0	00:21
N30	JUNCTION	2.64	4.61	1609.96	0	00:13
N30A	JUNCTION	2.64	4.60	1608.60	0	00:13
N30B	JUNCTION	0.65	1.51	1604.96	0	00:14
N31	JUNCTION	0.93	4.00	1604.00	0	00:14
N31A	JUNCTION	1.38	3.05	1601.90	0	00:15
N32	JUNCTION	1.38	3.01	1601.51	0	00:53
N33	JUNCTION	0.99	3.12	1602.85	0	01:12
N33A	JUNCTION	0.99	3.11	1602.61	0	01:13
N34	JUNCTION	0.73	6.00	1611.39	0	00:10
N34A	JUNCTION	0.70	2.50	1603.17	0	00:12
N35	JUNCTION	0.00	0.00	1643.80	0	00:00
N36	JUNCTION	1.01	3.27	1608.96	0	00:20
N37	JUNCTION	0.23	0.90	1645.86	0	00:15
N38	JUNCTION	0.90	3.07	1605.48	0	00:25
N38A	JUNCTION	0.90	3.07	1605.07	0	00:26
N39	JUNCTION	1.04	1.61	1612.50	0	02:13
N39A	JUNCTION	0.72	1.09	1609.34	0	02:11
N4	JUNCTION	0.86	1.96	1613.78	0	00:12
N40	JUNCTION	1.28	3.00	1616.96	0	00:38
N40A	JUNCTION	1.24	2.49	1616.16	0	00:58
N41	JUNCTION	1.37	4.52	1621.01	0	00:28
N41A	JUNCTION	1.27	3.00	1619.26	0	00:28
N42	JUNCTION	1.70	3.38	1624.81	0	00:46
N45	JUNCTION	0.78	2.10	1636.43	0	00:15
N46	JUNCTION	0.72	3.54	1640.48	0	00:17
N46A	JUNCTION	0.58	5.00	1641.17	0	00:11
N47	JUNCTION	0.72	3.54	1641.08	0	00:16
N48	JUNCTION	0.34	1.90	1643.66	0	00:15
N49	JUNCTION	0.21	1.13	1644.22	0	00:15
N4A	JUNCTION	0.89	1.96	1613.48	0	00:12
N5	JUNCTION	0.74	1.86	1617.46	0	00:15
N50	JUNCTION	0.04	0.24	1644.03	0	00:10
N51	JUNCTION	1.29	3.00	1613.00	0	00:13
N52	JUNCTION	0.19	0.86	1616.06	0	00:10
N53	JUNCTION	0.19	0.87	1642.25	0	00:10
N53A	JUNCTION	0.19	0.87	1639.80	0	00:10
N54	JUNCTION	0.90	3.00	1619.00	0	00:15
N54A	JUNCTION	0.89	3.00	1618.50	0	00:16
N55	JUNCTION	0.34	1.92	1630.24	0	00:07
N55A	JUNCTION	0.34	1.92	1629.92	0	00:07
N56	JUNCTION	0.04	0.15	1598.15	0	00:44
N57	JUNCTION	0.00	0.00	0.00	0	00:00
N58	JUNCTION	0.00	0.00	0.00	0	00:00
N59	JUNCTION	0.07	0.44	1601.74	0	00:20
N5A	JUNCTION	0.74	1.86	1616.91	0	00:15
N6	JUNCTION	0.54	0.99	1619.04	0	00:10
N60	JUNCTION	0.00	0.00	0.00	0	00:00
N61	JUNCTION	0.00	0.00	0.00	0	00:00
N62	JUNCTION	0.62	3.23	1629.39	0	00:15
N63	JUNCTION	0.25	1.23	1641.59	0	00:10
N64	JUNCTION	0.20	0.90	1607.83	0	00:10
N65	JUNCTION	1.11	4.50	1641.10	0	00:08
N65A	JUNCTION	1.11	4.50	1640.65	0	00:09
N66	JUNCTION	0.06	0.26	1622.26	0	00:42
N67	JUNCTION	0.51	3.90	1625.60	0	00:13
N68	JUNCTION	0.00	0.00	1660.00	0	00:00
N69	JUNCTION	0.24	0.87	1627.05	0	00:20
N6A	JUNCTION	0.72	3.50	1621.00	0	00:07
N7	JUNCTION	0.49	0.68	1621.31	0	00:10
N70	JUNCTION	0.59	1.86	1632.92	0	00:38
N71	JUNCTION	0.99	4.00	1638.70	0	00:12
N72	JUNCTION	0.45	1.67	1639.07	0	00:22
N73	JUNCTION	0.56	3.00	1642.70	0	00:10
N74	JUNCTION	0.40	1.12	1642.19	0	00:10

N75	JUNCTION	0.03	0.19	1656.19	0	00:15
N76	JUNCTION	0.76	3.00	1637.00	0	00:08
N77	JUNCTION	0.00	0.00	1636.43	0	00:00
N78	JUNCTION	0.51	2.28	1649.37	0	00:16
N79	JUNCTION	0.32	1.48	1654.78	0	00:15
N7A	JUNCTION	1.75	3.75	1623.75	0	00:06
N8	JUNCTION	0.48	6.00	1648.74	0	00:12
N80	JUNCTION	0.91	2.50	1651.78	0	00:06
N82	JUNCTION	0.00	0.00	1638.00	0	00:00
N83	JUNCTION	0.00	0.00	1638.00	0	00:00
N84	JUNCTION	0.00	0.00	1638.00	0	00:00
N85	JUNCTION	0.40	1.50	1645.18	0	00:08
N85A	JUNCTION	0.40	1.50	1644.91	0	00:08
N86	JUNCTION	0.36	1.50	1649.88	0	00:07
N87	JUNCTION	0.00	0.00	1599.00	0	00:00
N88	JUNCTION	0.00	0.00	1630.00	0	00:00
N89	JUNCTION	0.00	0.00	1618.00	0	00:00
N9	JUNCTION	0.84	3.00	1603.75	0	00:14
N90	JUNCTION	0.00	0.00	1611.55	0	00:00
N91	JUNCTION	0.00	0.00	1611.55	0	00:00
N92	JUNCTION	0.66	0.98	1575.98	0	01:12
N93	JUNCTION	0.00	0.00	1630.00	0	00:00
N94	JUNCTION	0.18	0.51	1592.68	0	01:31
N95	JUNCTION	0.16	0.72	1599.85	0	00:22
N96	JUNCTION	0.30	1.36	1601.96	0	00:15
N97	JUNCTION	0.44	1.19	1604.32	0	00:20
N98	JUNCTION	0.40	0.90	1606.90	0	01:31
N99	JUNCTION	0.00	0.00	1596.00	0	00:00
N111A	JUNCTION	0.88	2.50	1625.59	0	00:07
N111	JUNCTION	0.58	6.00	1629.32	0	00:10
N131	JUNCTION	0.41	1.75	1633.74	0	00:07
N112	JUNCTION	0.61	2.01	1635.72	0	00:25
N132	JUNCTION	0.76	6.00	1648.95	0	00:09
N130	JUNCTION	0.30	2.00	1660.27	0	00:09
N137	JUNCTION	1.25	1.25	1655.57	0	00:05
N126	JUNCTION	0.48	2.42	1693.42	0	00:15
N8A	JUNCTION	1.10	3.71	1646.04	0	00:14
N127	JUNCTION	1.17	5.30	1640.81	0	00:09
N128	JUNCTION	0.89	3.50	1622.21	0	00:10
N129	JUNCTION	0.58	3.00	1629.12	0	00:09
N133	JUNCTION	0.75	4.00	1632.29	0	00:10
N134	JUNCTION	0.66	3.50	1634.62	0	00:10
N135	JUNCTION	0.54	2.23	1636.55	0	00:10
N113	JUNCTION	0.49	2.51	1618.05	0	00:15
N116	JUNCTION	0.39	2.00	1627.07	0	00:09
N117	JUNCTION	0.55	1.75	1625.93	0	00:07
N114	JUNCTION	0.47	4.00	1626.75	0	00:09
N115	JUNCTION	0.36	0.96	1621.33	0	00:21
N118	JUNCTION	0.59	1.92	1617.11	0	00:15
N119	JUNCTION	0.66	1.50	1627.39	0	00:06
N120	JUNCTION	1.01	6.00	1627.13	0	00:14
N121	JUNCTION	0.29	1.00	1637.09	0	00:06
N122	JUNCTION	0.95	1.50	1642.23	0	00:06
N123	JUNCTION	0.91	6.00	1628.14	0	00:16
N124	JUNCTION	0.67	3.00	1646.23	0	00:09
N125	JUNCTION	0.53	2.00	1639.75	0	00:07
N136	JUNCTION	0.05	0.28	1600.18	0	00:10
N96A	JUNCTION	0.30	1.36	1601.46	0	00:15
OUT6	JUNCTION	2.47	3.55	1601.78	0	05:24
OUT4	JUNCTION	1.02	1.62	1598.98	0	01:16
OUT3	JUNCTION	1.01	1.38	1598.48	0	05:13
OUT5	JUNCTION	1.08	3.25	1601.42	0	00:22
N138	JUNCTION	0.00	0.00	0.00	0	00:00
N139	JUNCTION	0.03	0.15	1615.71	0	00:10
N142	JUNCTION	0.23	2.00	1603.74	0	00:14
N136A	JUNCTION	0.08	0.48	1599.74	0	00:10
N77A	JUNCTION	0.08	0.20	1636.20	0	00:10
N44A_	JUNCTION	0.00	0.00	1624.78	0	00:00
N44A	JUNCTION	0.99	2.24	1627.02	0	00:30
N126A	JUNCTION	0.48	2.42	1693.14	0	00:15
N127A	JUNCTION	0.83	4.00	1639.22	0	00:10
N128A	JUNCTION	0.87	3.00	1621.05	0	00:11

N129A	JUNCTION	1.00	6.00	1626.02	0	00:10
N130A	JUNCTION	0.30	2.00	1659.93	0	00:10
N137A	JUNCTION	1.25	1.45	1655.77	0	00:13
N132A	JUNCTION	0.74	3.50	1646.18	0	00:10
N131A	JUNCTION	0.41	1.75	1633.39	0	00:08
N116A	JUNCTION	0.39	2.00	1625.41	0	00:11
N117A	JUNCTION	0.55	1.75	1625.04	0	00:08
N118A	JUNCTION	0.59	1.92	1615.59	0	00:15
N119A	JUNCTION	0.65	1.50	1626.53	0	00:06
N120A	JUNCTION	0.99	3.50	1622.93	0	00:19
N121A	JUNCTION	0.29	1.00	1634.97	0	00:07
N122A	JUNCTION	0.95	1.50	1639.78	0	00:07
N123A	JUNCTION	0.90	3.59	1621.87	0	00:23
N125A	JUNCTION	0.52	2.00	1637.20	0	00:08
N124A	JUNCTION	0.67	3.00	1644.12	0	00:10
N43	JUNCTION	0.99	2.24	1625.11	0	00:32
N43A	JUNCTION	1.69	3.39	1626.13	0	00:32
N76A	JUNCTION	0.76	3.00	1634.85	0	00:09
N145	JUNCTION	0.19	1.20	1641.20	0	00:20
N145A	JUNCTION	0.19	1.20	1637.65	0	00:20
N73A	JUNCTION	0.56	3.00	1641.20	0	00:12
N74A	JUNCTION	0.39	1.11	1641.76	0	00:10
N72A	JUNCTION	0.45	1.67	1637.75	0	00:22
N71A	JUNCTION	0.98	4.00	1638.30	0	00:13
N70A	JUNCTION	0.59	1.85	1631.89	0	00:39
N22A	JUNCTION	0.76	2.00	1617.06	0	00:10
N144	JUNCTION	0.34	1.74	1651.13	0	00:16
N144A	JUNCTION	0.34	1.74	1650.47	0	00:16
N79A	JUNCTION	0.32	1.48	1652.97	0	00:15
N78A	JUNCTION	0.51	2.28	1648.63	0	00:17
N80A	JUNCTION	0.91	2.50	1651.68	0	00:08
N106	JUNCTION	0.47	1.81	1626.94	0	00:15
N106A	JUNCTION	0.47	1.81	1625.45	0	00:15
N146A	JUNCTION	0.23	1.17	1636.92	0	00:11
N146	JUNCTION	0.23	1.19	1638.18	0	00:10
N81	JUNCTION	2.47	4.00	1605.47	0	01:57
N98A	JUNCTION	0.74	1.30	1607.20	0	01:32
N86A	JUNCTION	0.36	1.50	1648.90	0	00:08
N67A	JUNCTION	1.83	3.00	1624.50	0	00:08
N147A	JUNCTION	0.38	1.15	1634.36	0	00:11
N147	JUNCTION	0.38	1.17	1636.68	0	00:10
N10A	JUNCTION	3.98	4.00	1600.38	0	00:06
S17W_out	JUNCTION	0.37	1.01	1642.01	0	01:13
S17E_out	JUNCTION	0.21	0.49	1640.49	0	01:36
S17_out	JUNCTION	0.08	0.13	1630.13	0	04:26
N12A	JUNCTION	1.49	1.50	1598.67	0	00:07
OUT1	OUTFALL	1.49	1.50	1597.52	0	00:07
OUT2	OUTFALL	0.85	1.19	1594.79	0	00:10
OUT7	OUTFALL	0.00	0.00	1612.30	0	00:00
OUT8	OUTFALL	0.00	0.00	1626.90	0	00:00
OUT9	OUTFALL	0.00	0.00	1608.00	0	00:00
OUT10	OUTFALL	0.00	0.00	1594.00	0	00:00
OUT11	OUTFALL	0.00	0.00	1596.00	0	00:00
OUT12	OUTFALL	0.07	0.44	1600.82	0	00:20
OUT13	OUTFALL	0.61	3.21	1628.37	0	00:15
OUT14	OUTFALL	0.25	1.23	1640.59	0	00:11
OUT15	OUTFALL	0.00	0.00	1643.80	0	00:00
OUT16	OUTFALL	0.00	0.00	1615.66	0	00:00
OUT17	OUTFALL	0.00	0.00	1622.00	0	00:00
OUT18	OUTFALL	1.84	3.00	1624.50	0	00:13
OUT19	OUTFALL	0.00	0.00	1660.00	0	00:00
OUT20	OUTFALL	0.00	0.00	1575.00	0	00:00
OUT21	OUTFALL	0.00	0.00	1638.00	0	00:00
OUT22	OUTFALL	0.00	0.00	1611.55	0	00:00
OUT23	OUTFALL	0.00	0.00	1599.00	0	00:00
OUT24	OUTFALL	0.00	0.00	1630.00	0	00:00
OUT25	OUTFALL	0.00	0.00	1618.00	0	00:00
OUT27	OUTFALL	0.00	0.00	1630.00	0	00:00
OUT26	OUTFALL	0.00	0.00	1596.47	0	00:00
OUT28	OUTFALL	0.20	0.89	1606.85	0	00:10
N44	DIVIDER	0.78	2.01	1629.55	0	00:30
S17W	STORAGE	4.58	7.63	1648.63	0	01:12

S17E	STORAGE	0.72	2.55	1642.55	0	01:35
S17	STORAGE	4.43	5.03	1635.03	0	04:26
S56	STORAGE	0.78	0.95	0.95	1	01:00
S57	STORAGE	0.67	0.88	0.88	1	01:00
S60	STORAGE	0.91	1.05	1.05	1	01:00
S58	STORAGE	0.72	0.90	0.90	1	01:00
S61	STORAGE	1.05	1.28	1.28	1	01:00
S138	STORAGE	1.07	1.27	1.27	1	01:00

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Node InFlow Summary
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Node	Type	Maximum Lateral Inflow CFS	Maximum Total Inflow CFS	Time of Max Occurrence days	hr:min	Lateral Inflow Volume Mgal	Total Inflow Volume Mgal
N1	JUNCTION	120.38	265.01	0	00:35	4.833	30.300
N10	JUNCTION	0.00	111.15	0	00:21	0.000	18.743
N100	JUNCTION	14.19	14.19	0	00:10	0.573	0.573
N101	JUNCTION	36.23	36.23	0	00:15	1.969	1.968
N102	JUNCTION	6.65	6.65	0	00:10	0.545	0.545
N103	JUNCTION	70.62	71.13	0	00:15	5.200	5.851
N104	JUNCTION	176.96	181.96	0	00:15	9.285	11.526
N105	JUNCTION	2.74	2.74	0	01:05	0.742	0.742
N107	JUNCTION	0.00	23.95	0	00:17	0.000	1.588
N108	JUNCTION	78.94	119.45	0	00:47	3.640	12.113
N109	JUNCTION	0.00	5.58	0	00:10	0.000	0.654
N11	JUNCTION	50.43	50.54	0	00:10	4.610	18.293
N110	JUNCTION	0.00	29.87	0	00:10	0.000	2.301
N12	JUNCTION	46.76	111.22	0	00:39	4.135	33.756
N13	JUNCTION	0.00	57.11	0	00:11	0.000	22.052
N14	JUNCTION	70.29	70.29	0	00:15	3.813	3.813
N14A	JUNCTION	0.00	70.12	0	00:15	0.000	3.813
N15	JUNCTION	104.79	208.47	0	00:15	5.243	11.514
N15A	JUNCTION	0.00	104.17	0	00:40	0.000	10.618
N16	JUNCTION	103.17	103.17	0	00:15	5.359	7.818
N16A	JUNCTION	0.00	102.78	0	00:15	0.000	7.817
N17	JUNCTION	27.12	27.12	0	00:10	3.886	4.167
N17A	JUNCTION	0.00	26.71	0	00:10	0.000	4.166
N18	JUNCTION	21.10	56.09	0	00:15	1.027	8.094
N18A	JUNCTION	128.73	184.76	0	00:15	3.671	11.764
N19	JUNCTION	9.04	9.04	0	00:10	0.421	0.421
N2	JUNCTION	254.39	449.35	0	00:20	10.521	35.718
N20	JUNCTION	7.76	11.81	0	02:35	1.844	3.644
N20A	JUNCTION	0.00	11.81	0	02:35	0.000	3.644
N21	JUNCTION	54.32	54.32	0	00:15	2.616	2.616
N21A	JUNCTION	0.00	7.83	0	02:20	0.000	1.785
N22	JUNCTION	16.51	101.87	0	00:16	1.205	11.825
N23	JUNCTION	63.56	150.12	0	00:15	3.757	10.069
N24	JUNCTION	1.16	1.16	0	01:05	0.285	0.285
N25	JUNCTION	9.34	158.16	0	00:16	0.266	10.332
N25A	JUNCTION	0.00	30.37	0	02:49	0.000	7.783
N25B	JUNCTION	0.00	44.07	0	00:12	0.000	8.721
N26	JUNCTION	32.07	73.51	0	00:15	1.699	10.414
N26A	JUNCTION	0.00	10.81	0	12:36	0.000	5.701
N27	JUNCTION	17.70	17.70	0	00:10	0.940	0.940
N28	JUNCTION	12.61	12.61	0	00:10	0.521	0.521
N28A	JUNCTION	0.00	12.56	0	00:10	0.000	0.521
N29	JUNCTION	29.62	39.65	0	00:20	1.240	6.938
N3	JUNCTION	41.78	156.54	0	00:21	1.620	16.901
N30	JUNCTION	0.00	45.60	0	00:13	0.000	7.381
N30A	JUNCTION	10.50	55.80	0	00:13	0.314	7.691
N30B	JUNCTION	0.00	55.02	0	00:14	0.000	7.689
N31	JUNCTION	64.52	104.35	0	00:20	3.119	10.803
N31A	JUNCTION	0.00	81.65	0	00:15	0.000	10.536
N32	JUNCTION	38.76	93.42	0	00:35	2.631	13.177
N33	JUNCTION	0.32	52.92	0	01:12	0.055	5.902
N33A	JUNCTION	0.00	52.85	0	01:13	0.000	5.902

N34	JUNCTION	53.39	90.77	0	00:16	2.509	6.050
N34A	JUNCTION	3.09	54.50	0	00:11	0.158	5.819
N35	JUNCTION	34.87	34.87	0	00:10	1.421	1.421
N36	JUNCTION	47.36	140.21	0	00:20	2.533	12.888
N37	JUNCTION	14.68	14.68	0	00:15	0.745	0.745
N38	JUNCTION	38.69	128.30	0	00:25	1.889	10.900
N38A	JUNCTION	0.00	128.15	0	00:26	0.000	10.898
N39	JUNCTION	17.49	100.51	0	02:13	3.908	30.159
N39A	JUNCTION	0.00	100.06	0	02:11	0.000	30.157
N4	JUNCTION	6.64	55.55	0	00:12	0.292	10.677
N40	JUNCTION	6.64	93.23	0	02:07	0.916	26.375
N40A	JUNCTION	0.00	93.96	0	00:58	0.000	26.394
N41	JUNCTION	10.98	233.71	0	00:49	1.488	28.749
N41A	JUNCTION	0.00	92.67	0	02:07	0.000	25.505
N42	JUNCTION	31.20	231.11	0	00:44	3.538	26.627
N45	JUNCTION	62.52	209.43	0	00:15	3.732	16.482
N46	JUNCTION	27.65	223.46	0	00:17	1.656	13.099
N46A	JUNCTION	0.00	223.49	0	00:17	0.000	13.099
N47	JUNCTION	18.11	200.36	0	00:16	0.820	11.445
N48	JUNCTION	73.35	185.54	0	00:15	4.228	10.626
N49	JUNCTION	103.51	112.93	0	00:15	5.981	6.400
N4A	JUNCTION	0.00	55.59	0	00:12	0.000	10.676
N5	JUNCTION	39.38	52.37	0	00:15	1.459	7.788
N50	JUNCTION	9.82	9.82	0	00:10	0.419	0.419
N51	JUNCTION	0.00	269.80	0	00:20	0.000	25.256
N52	JUNCTION	20.71	20.71	0	00:10	0.868	0.868
N53	JUNCTION	14.44	14.44	0	00:10	0.708	0.708
N53A	JUNCTION	0.00	14.48	0	00:10	0.000	0.708
N54	JUNCTION	55.45	228.87	0	00:18	2.840	14.619
N54A	JUNCTION	0.00	215.99	0	00:16	0.000	14.593
N55	JUNCTION	70.27	70.27	0	00:15	2.199	2.199
N55A	JUNCTION	0.00	25.54	0	00:07	0.000	1.886
N56	JUNCTION	105.69	107.18	0	00:10	6.578	8.535
N57	JUNCTION	3.94	3.94	0	00:10	1.055	1.055
N58	JUNCTION	30.40	30.40	0	00:10	4.381	4.380
N59	JUNCTION	31.98	31.98	0	00:20	1.373	1.373
N5A	JUNCTION	0.00	67.67	0	00:15	0.000	8.537
N6	JUNCTION	20.65	32.12	0	00:10	0.584	6.524
N60	JUNCTION	181.09	181.09	0	00:15	9.230	9.230
N61	JUNCTION	90.29	90.29	0	00:20	6.815	6.814
N62	JUNCTION	100.13	100.13	0	00:15	4.779	4.779
N63	JUNCTION	16.69	16.69	0	00:10	0.677	0.677
N64	JUNCTION	13.27	13.27	0	00:10	0.562	0.562
N65	JUNCTION	156.01	156.01	0	00:15	8.828	8.828
N65A	JUNCTION	0.00	85.13	0	00:42	0.000	8.266
N66	JUNCTION	184.03	192.90	0	00:20	6.235	9.660
N67	JUNCTION	17.42	165.49	0	00:17	0.798	12.374
N68	JUNCTION	13.57	13.57	0	00:10	0.484	0.484
N69	JUNCTION	86.91	160.79	0	00:20	6.920	14.822
N6A	JUNCTION	0.00	32.07	0	00:10	0.000	6.524
N7	JUNCTION	0.31	17.22	0	00:10	0.010	6.548
N70	JUNCTION	5.71	68.41	0	00:38	0.272	6.655
N71	JUNCTION	5.78	84.07	0	00:17	0.282	6.533
N72	JUNCTION	12.06	80.75	0	00:22	0.891	6.254
N73	JUNCTION	79.91	79.91	0	00:15	4.215	4.215
N74	JUNCTION	12.95	12.95	0	00:10	1.188	1.188
N75	JUNCTION	13.94	13.94	0	00:15	0.636	0.636
N76	JUNCTION	62.86	62.86	0	00:15	4.204	4.203
N77	JUNCTION	4.59	4.59	0	00:10	0.694	0.694
N78	JUNCTION	8.04	63.96	0	00:16	0.454	3.276
N79	JUNCTION	49.95	49.95	0	00:15	2.337	2.337
N7A	JUNCTION	57.19	74.38	0	00:10	1.593	8.139
N8	JUNCTION	200.70	212.79	0	00:15	5.908	8.702
N80	JUNCTION	84.55	84.55	0	00:15	3.986	3.986
N82	JUNCTION	4.44	4.44	0	00:10	0.180	0.180
N83	JUNCTION	0.29	0.29	0	01:05	0.038	0.038
N84	JUNCTION	1.84	1.84	0	01:05	0.436	0.436
N85	JUNCTION	13.78	13.78	0	00:10	0.854	0.854
N85A	JUNCTION	0.00	7.74	0	00:18	0.000	0.840
N86	JUNCTION	15.28	15.28	0	00:10	0.747	0.747
N87	JUNCTION	28.53	28.53	0	00:10	1.885	1.885
N88	JUNCTION	9.18	9.18	0	00:10	0.560	0.560

N89	JUNCTION	6.71	6.71	0	00:10	0.243	0.243
N9	JUNCTION	92.94	92.94	0	00:15	3.596	3.596
N90	JUNCTION	13.09	13.09	0	00:10	0.464	0.464
N91	JUNCTION	14.97	14.97	0	00:10	1.095	1.095
N92	JUNCTION	289.00	480.16	0	01:05	22.911	155.868
N93	JUNCTION	3.97	3.97	0	00:10	0.202	0.202
N94	JUNCTION	6.13	53.58	0	01:31	1.661	8.663
N95	JUNCTION	48.77	91.52	0	00:22	2.318	6.285
N96	JUNCTION	75.39	75.39	0	00:15	3.927	3.927
N97	JUNCTION	122.34	123.20	0	00:20	7.459	16.562
N98	JUNCTION	66.51	104.42	0	01:31	4.081	20.360
N99	JUNCTION	14.46	14.46	0	00:10	0.497	0.497
N111A	JUNCTION	0.00	121.53	0	00:31	0.000	10.232
N111	JUNCTION	36.73	153.83	0	00:15	1.802	10.414
N131	JUNCTION	25.19	25.19	0	00:10	1.104	1.104
N112	JUNCTION	38.51	107.29	0	00:15	2.034	7.552
N132	JUNCTION	92.62	103.50	0	00:15	4.832	5.652
N130	JUNCTION	18.25	18.25	0	00:10	0.687	0.687
N137	JUNCTION	28.74	28.74	0	00:10	1.134	1.134
N126	JUNCTION	58.08	58.08	0	00:15	2.706	2.706
N8A	JUNCTION	12.55	208.65	0	00:14	0.438	9.081
N127	JUNCTION	0.00	206.90	0	00:17	0.000	9.083
N128	JUNCTION	0.00	152.16	0	00:10	0.000	15.277
N129	JUNCTION	56.79	56.79	0	00:15	3.123	3.123
N133	JUNCTION	37.74	113.83	0	00:13	1.810	6.288
N134	JUNCTION	31.87	81.34	0	00:11	1.606	4.490
N135	JUNCTION	52.16	52.16	0	00:10	2.886	2.886
N113	JUNCTION	22.36	87.01	0	00:15	1.007	6.315
N116	JUNCTION	20.35	20.35	0	00:15	1.078	1.078
N117	JUNCTION	34.88	34.88	0	00:15	1.976	1.976
N114	JUNCTION	27.85	27.89	0	00:15	1.445	1.863
N115	JUNCTION	17.91	44.59	0	00:21	0.695	3.478
N118	JUNCTION	35.23	41.48	0	00:15	1.629	3.544
N119	JUNCTION	70.56	70.56	0	00:10	2.994	2.994
N120	JUNCTION	98.38	110.29	0	00:19	6.108	10.382
N121	JUNCTION	12.59	12.59	0	00:10	0.439	0.439
N122	JUNCTION	84.91	84.91	0	00:15	5.082	5.082
N123	JUNCTION	56.69	106.31	0	00:20	3.172	9.032
N124	JUNCTION	73.92	73.92	0	00:15	4.158	4.157
N125	JUNCTION	47.69	47.69	0	00:10	2.034	2.034
N136	JUNCTION	47.30	47.30	0	00:10	1.976	1.976
N96A	JUNCTION	0.00	75.02	0	00:15	0.000	3.927
OUT6	JUNCTION	0.67	234.07	0	05:13	0.046	92.153
OUT4	JUNCTION	0.00	270.64	0	05:11	0.000	110.581
OUT3	JUNCTION	0.73	352.54	0	00:54	0.125	123.763
OUT5	JUNCTION	0.00	259.55	0	05:07	0.000	104.995
N138	JUNCTION	201.18	201.18	0	00:15	11.936	11.935
N139	JUNCTION	16.41	16.41	0	00:10	0.751	0.751
N142	JUNCTION	15.17	15.17	0	00:15	0.425	0.425
N136A	JUNCTION	0.00	46.61	0	00:10	0.000	1.976
N77A	JUNCTION	0.00	4.59	0	00:10	0.000	0.694
N44A_	JUNCTION	0.00	0.00	0	00:00	0.000	0.000
N44A	JUNCTION	0.00	199.19	0	00:30	0.000	18.929
N126A	JUNCTION	0.00	58.02	0	00:15	0.000	2.706
N127A	JUNCTION	0.00	108.52	0	00:50	0.000	7.934
N128A	JUNCTION	0.00	147.68	0	00:11	0.000	15.271
N129A	JUNCTION	113.39	259.32	0	00:15	5.553	16.594
N130A	JUNCTION	0.00	16.91	0	00:11	0.000	0.686
N137A	JUNCTION	0.00	16.52	0	00:13	0.000	0.818
N132A	JUNCTION	0.00	74.17	0	00:24	0.000	5.520
N131A	JUNCTION	0.00	11.81	0	00:22	0.000	1.060
N116A	JUNCTION	0.00	17.24	0	00:21	0.000	1.065
N117A	JUNCTION	0.00	11.88	0	01:11	0.000	1.719
N118A	JUNCTION	0.00	41.37	0	00:15	0.000	3.543
N119A	JUNCTION	0.00	7.95	0	02:25	0.000	1.911
N120A	JUNCTION	0.00	106.75	0	00:19	0.000	10.368
N121A	JUNCTION	0.00	2.71	0	01:19	0.000	0.341
N122A	JUNCTION	0.00	7.96	0	06:42	0.000	3.173
N123A	JUNCTION	0.00	108.38	0	00:23	0.000	9.023
N125A	JUNCTION	0.00	17.28	0	01:09	0.000	1.807
N124A	JUNCTION	0.00	50.46	0	00:29	0.000	4.038
N43	JUNCTION	0.00	199.00	0	00:32	0.000	18.910

N43A	JUNCTION	0.00	199.00	0	00:32	0.000	18.909
N76A	JUNCTION	0.00	42.77	0	00:22	0.000	4.101
N145	JUNCTION	19.87	19.87	0	00:20	0.590	0.590
N145A	JUNCTION	0.00	19.84	0	00:20	0.000	0.590
N73A	JUNCTION	0.00	68.45	0	00:21	0.000	4.167
N74A	JUNCTION	0.00	12.81	0	00:10	0.000	1.188
N72A	JUNCTION	0.00	80.77	0	00:22	0.000	6.253
N71A	JUNCTION	0.00	66.90	0	00:37	0.000	6.388
N70A	JUNCTION	0.00	68.13	0	00:39	0.000	6.653
N22A	JUNCTION	0.00	53.08	0	01:34	0.000	10.388
N144	JUNCTION	7.78	57.39	0	00:16	0.487	2.823
N144A	JUNCTION	0.00	57.34	0	00:16	0.000	2.823
N79A	JUNCTION	0.00	49.94	0	00:15	0.000	2.336
N78A	JUNCTION	0.00	63.94	0	00:17	0.000	3.275
N80A	JUNCTION	0.00	14.63	0	01:53	0.000	2.630
N106	JUNCTION	152.17	153.84	0	00:15	8.918	11.581
N106A	JUNCTION	0.00	153.41	0	00:15	0.000	11.580
N146A	JUNCTION	0.00	10.39	0	00:11	0.000	0.404
N146	JUNCTION	10.67	10.67	0	00:10	0.405	0.405
N81	JUNCTION	229.16	273.41	0	02:26	16.143	82.822
N98A	JUNCTION	0.00	202.11	0	01:32	0.000	50.476
N86A	JUNCTION	0.00	7.81	0	00:20	0.000	0.728
N67A	JUNCTION	0.00	143.45	0	00:28	0.000	12.261
N147A	JUNCTION	0.00	14.48	0	00:11	0.000	1.254
N147	JUNCTION	15.04	15.04	0	00:10	1.255	1.255
N10A	JUNCTION	40.50	98.39	0	00:35	3.999	22.653
S17W_out	JUNCTION	0.00	12.88	0	01:13	0.000	1.464
S17E_out	JUNCTION	0.00	14.98	0	01:36	0.000	2.147
S17_out	JUNCTION	0.00	7.56	0	04:26	0.000	2.504
N12A	JUNCTION	0.00	14.77	0	00:07	0.000	9.905
OUT1	OUTFALL	0.00	11.51	0	00:07	0.000	7.719
OUT2	OUTFALL	0.00	50.41	0	00:10	0.000	18.292
OUT7	OUTFALL	0.00	23.95	0	00:17	0.000	1.588
OUT8	OUTFALL	0.00	6.65	0	00:10	0.000	0.545
OUT9	OUTFALL	0.00	36.23	0	00:15	0.000	1.968
OUT10	OUTFALL	0.00	14.19	0	00:10	0.000	0.573
OUT11	OUTFALL	0.00	14.46	0	00:10	0.000	0.497
OUT12	OUTFALL	0.00	31.94	0	00:20	0.000	1.373
OUT13	OUTFALL	0.00	99.67	0	00:15	0.000	4.778
OUT14	OUTFALL	0.00	16.58	0	00:11	0.000	0.677
OUT15	OUTFALL	0.00	34.87	0	00:10	0.000	1.421
OUT16	OUTFALL	227.40	323.91	0	00:35	16.039	28.151
OUT17	OUTFALL	0.00	192.90	0	00:20	0.000	9.660
OUT18	OUTFALL	0.00	33.61	0	00:13	0.000	9.439
OUT19	OUTFALL	0.00	13.57	0	00:10	0.000	0.484
OUT20	OUTFALL	0.00	480.16	0	01:05	0.000	155.868
OUT21	OUTFALL	0.00	5.58	0	00:10	0.000	0.654
OUT22	OUTFALL	0.00	29.87	0	00:10	0.000	2.301
OUT23	OUTFALL	0.00	28.53	0	00:10	0.000	1.885
OUT24	OUTFALL	0.00	9.18	0	00:10	0.000	0.560
OUT25	OUTFALL	0.00	6.71	0	00:10	0.000	0.243
OUT27	OUTFALL	0.00	3.97	0	00:10	0.000	0.202
OUT26	OUTFALL	0.00	181.96	0	00:15	0.000	11.526
OUT28	OUTFALL	0.00	12.99	0	00:10	0.000	0.562
N44	DIVIDER	25.93	199.20	0	00:30	2.360	18.930
S17W	STORAGE	34.13	34.13	0	00:15	1.614	1.614
S17E	STORAGE	13.54	20.00	0	01:05	0.688	2.152
S17	STORAGE	42.97	46.14	0	00:16	1.837	3.983
S56	STORAGE	0.00	107.18	0	00:10	0.000	8.535
S57	STORAGE	0.00	3.94	0	00:10	0.000	1.055
S60	STORAGE	0.00	181.09	0	00:15	0.000	9.230
S58	STORAGE	0.00	30.40	0	00:10	0.000	4.380
S61	STORAGE	0.00	90.29	0	00:20	0.000	6.814
S138	STORAGE	0.00	201.18	0	00:15	0.000	11.935

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Node Surcharge Summary
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Surcharging occurs when water rises above the top of the highest conduit.

Node	Type	Hours Surcharged	Max. Height Above Crown Feet	Min. Depth Below Rim Feet
N1	JUNCTION	13.23	0.000	0.000
N100	JUNCTION	25.01	0.000	10.000
N101	JUNCTION	25.01	0.000	10.000
N102	JUNCTION	25.01	0.000	10.000
N105	JUNCTION	25.01	0.000	10.000
N109	JUNCTION	25.01	0.000	10.000
N110	JUNCTION	25.01	0.000	10.000
N12	JUNCTION	24.90	6.000	0.000
N15	JUNCTION	0.91	0.000	0.000
N15A	JUNCTION	0.51	0.000	0.000
N16A	JUNCTION	1.12	0.000	0.000
N2	JUNCTION	6.97	0.000	0.000
N21	JUNCTION	2.38	0.000	0.000
N22	JUNCTION	1.56	0.000	0.000
N25	JUNCTION	2.62	0.000	0.000
N25A	JUNCTION	2.61	0.000	0.000
N26	JUNCTION	12.72	0.000	0.000
N29	JUNCTION	0.53	0.000	0.000
N31	JUNCTION	0.62	0.000	0.000
N34	JUNCTION	0.97	0.000	0.000
N35	JUNCTION	25.01	0.000	10.000
N40	JUNCTION	1.58	0.000	0.000
N41	JUNCTION	1.64	0.000	0.000
N41A	JUNCTION	1.64	0.000	0.000
N46A	JUNCTION	0.30	0.000	0.000
N51	JUNCTION	0.54	0.000	0.000
N54	JUNCTION	0.12	0.000	0.000
N54A	JUNCTION	0.10	0.000	0.000
N55	JUNCTION	0.55	0.000	0.000
N57	JUNCTION	25.01	0.000	10.000
N58	JUNCTION	25.01	0.000	10.000
N60	JUNCTION	25.01	0.000	10.000
N61	JUNCTION	25.01	0.000	10.000
N65	JUNCTION	0.58	0.000	0.000
N65A	JUNCTION	0.53	0.000	5.500
N67	JUNCTION	0.25	0.000	0.000
N68	JUNCTION	25.01	0.000	10.000
N6A	JUNCTION	1.72	0.000	0.000
N71	JUNCTION	0.47	0.000	0.000
N73	JUNCTION	0.22	0.000	0.000
N76	JUNCTION	0.26	0.000	0.000
N77	JUNCTION	25.01	0.000	10.000
N7A	JUNCTION	10.07	0.000	0.000
N8	JUNCTION	0.23	0.000	0.000
N80	JUNCTION	1.74	0.000	0.000
N82	JUNCTION	25.01	0.000	10.000
N83	JUNCTION	25.01	0.000	10.000
N84	JUNCTION	25.01	0.000	10.000
N85	JUNCTION	0.19	0.000	0.000
N86	JUNCTION	0.22	0.000	0.000
N87	JUNCTION	25.01	0.000	10.000
N88	JUNCTION	25.01	0.000	10.000
N89	JUNCTION	25.01	0.000	10.000
N9	JUNCTION	0.08	0.000	0.000
N90	JUNCTION	25.01	0.000	10.000
N91	JUNCTION	25.01	0.000	10.000
N93	JUNCTION	25.01	0.000	10.000
N99	JUNCTION	25.01	0.000	10.000
N111A	JUNCTION	6.08	0.000	0.000
N111	JUNCTION	0.35	0.000	0.000
N131	JUNCTION	0.27	0.000	0.000
N132	JUNCTION	0.27	0.000	0.000
N130	JUNCTION	0.06	0.000	0.000
N137	JUNCTION	24.93	0.000	0.000
N127	JUNCTION	0.78	0.000	0.000
N128	JUNCTION	1.03	0.000	0.000
N129	JUNCTION	0.17	0.000	0.000
N133	JUNCTION	0.15	0.000	0.000

N134	JUNCTION	0.13	0.000	0.000
N116	JUNCTION	0.19	0.000	0.000
N117	JUNCTION	1.09	0.000	0.000
N114	JUNCTION	0.27	0.000	0.000
N119	JUNCTION	2.44	0.000	0.000
N120	JUNCTION	0.16	0.000	0.000
N121	JUNCTION	1.21	0.000	0.000
N122	JUNCTION	6.59	0.000	0.000
N123	JUNCTION	0.13	0.000	0.000
N124	JUNCTION	0.33	0.000	0.000
N125	JUNCTION	1.03	0.000	0.000
N138	JUNCTION	25.01	0.000	0.000
N142	JUNCTION	0.03	0.000	0.000
N129A	JUNCTION	1.03	0.000	0.000
N71A	JUNCTION	0.40	0.000	0.000
N81	JUNCTION	1.09	0.000	0.000
N67A	JUNCTION	2.99	0.000	0.000
N10A	JUNCTION	24.91	1.300	0.000
S17W	STORAGE	24.73	3.625	0.375
S56	STORAGE	25.01	0.948	1.052
S57	STORAGE	25.01	0.877	1.123
S60	STORAGE	25.01	1.048	0.952
S58	STORAGE	25.01	0.901	1.099
S61	STORAGE	25.01	1.282	0.718
S138	STORAGE	25.01	1.268	0.732

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Node Flooding Summary
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Flooding refers to all water that overflows a node, whether it ponds or not.

Node	Hours Flooded	Maximum Rate CFS	Time of Max Occurrence days	hr:min	Total Flood Volume Mgal	Maximum Ponded Volume acre-in
N1	13.23	239.31	0	00:35	15.175	0.00
N12	24.90	96.40	0	00:39	23.850	0.00
N15	0.91	120.33	0	00:15	0.920	0.00
N15A	0.51	0.00	0	00:00	0.000	0.00
N16A	1.12	67.57	0	00:15	0.755	0.00
N2	6.97	399.80	0	00:20	14.093	0.00
N21	2.38	46.93	0	00:15	0.832	0.00
N22	1.56	52.29	0	00:16	1.441	0.00
N25	2.62	129.94	0	00:17	2.556	0.00
N25A	2.61	0.00	0	00:00	0.000	0.00
N26	12.72	63.47	0	00:15	4.714	0.00
N29	0.53	8.85	0	00:20	0.079	0.00
N31	0.62	27.68	0	00:20	0.268	0.00
N34	0.97	41.54	0	00:16	0.395	0.00
N40	1.58	2.49	0	02:08	0.045	0.00
N41	1.64	145.29	0	00:50	3.244	0.00
N41A	1.64	0.00	0	00:00	0.000	0.00
N46A	0.30	76.43	0	00:17	0.347	0.00
N51	0.54	84.57	0	00:20	0.657	0.00
N54	0.12	12.84	0	00:18	0.024	0.00
N54A	0.10	0.00	0	00:00	0.000	0.00
N55	0.55	44.58	0	00:15	0.313	0.00
N65	0.58	75.41	0	00:15	0.564	0.00
N67	0.25	28.63	0	00:17	0.113	0.00
N6A	1.72	18.89	0	00:10	0.194	0.00
N71	0.47	21.07	0	00:17	0.147	0.00
N73	0.22	15.92	0	00:15	0.050	0.00
N76	0.26	22.91	0	00:15	0.103	0.00
N7A	10.07	62.71	0	00:10	2.202	0.00
N8	0.23	36.62	0	00:15	0.147	0.00
N80	1.74	70.52	0	00:15	1.369	0.00
N85	0.19	6.13	0	00:10	0.014	0.00
N86	0.22	7.59	0	00:10	0.019	0.00
N9	0.08	5.18	0	00:15	0.006	0.00

N111A	6.08	101.83	0	00:31	3.695	0.00
N111	0.35	37.71	0	00:15	0.182	0.00
N131	0.27	13.65	0	00:10	0.044	0.00
N132	0.27	32.62	0	00:15	0.132	0.00
N130	0.06	2.01	0	00:10	0.002	0.00
N137	24.93	28.22	0	00:10	1.001	0.00
N127	0.78	106.06	0	00:17	1.155	0.00
N128	1.03	7.49	0	01:10	0.007	0.00
N129	0.17	9.57	0	00:15	0.030	0.00
N133	0.15	12.24	0	00:13	0.033	0.00
N134	0.13	10.15	0	00:12	0.023	0.00
N116	0.19	4.33	0	00:15	0.015	0.00
N117	1.09	23.49	0	00:15	0.258	0.00
N114	0.27	7.18	0	00:15	0.034	0.00
N119	2.44	62.82	0	00:10	1.083	0.00
N120	0.16	8.69	0	00:19	0.026	0.00
N121	1.21	9.90	0	00:10	0.099	0.00
N122	6.59	77.11	0	00:15	1.911	0.00
N123	0.13	4.71	0	00:20	0.011	0.00
N124	0.33	26.32	0	00:15	0.122	0.00
N125	1.03	31.38	0	00:10	0.229	0.00
N142	0.03	0.18	0	00:15	0.000	0.00
N129A	1.03	115.77	0	00:15	1.322	0.00
N71A	0.40	0.00	0	00:00	0.000	0.00
N81	1.09	11.87	0	02:27	0.227	0.00
N67A	2.99	106.53	0	00:28	2.915	0.00
N10A	24.91	86.71	0	00:35	14.933	0.00

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Storage Volume Summary
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Storage Unit	Average Volume 1000 ft3	Avg Pcnt Full	Maximum Volume 1000 ft3	Max Pcnt Full	Time of Max Occurrence days hr:min		Maximum Outflow CFS
S17W	24.366	39	57.297	92	0	01:12	12.88
S17E	5.152	3	32.734	18	0	01:35	14.98
S17	214.933	39	268.422	49	0	04:26	7.56
S56	802.224	16	1141.098	22	1	01:00	0.00
S57	90.325	12	141.090	19	1	01:00	0.00
S60	954.244	21	1233.895	27	1	01:00	0.00
S58	400.309	14	585.611	20	1	01:00	0.00
S61	637.735	29	910.997	41	1	01:00	0.00
S138	1184.530	30	1595.653	40	1	01:00	0.00

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Outfall Loading Summary
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Outfall Node	Flow Freq. Pcnt.	Avg. Flow CFS	Max. Flow CFS	Total Volume Mgal
OUT1	99.67	11.50	11.51	7.719
OUT2	99.67	27.26	50.41	18.292
OUT7	99.67	2.37	23.95	1.588
OUT8	99.67	0.81	6.65	0.545
OUT9	99.67	2.93	36.23	1.968
OUT10	99.67	0.85	14.19	0.573
OUT11	99.67	0.74	14.46	0.497
OUT12	99.63	2.05	31.94	1.373
OUT13	99.67	7.12	99.67	4.778
OUT14	99.63	1.01	16.58	0.677
OUT15	99.67	2.12	34.87	1.421
OUT16	99.67	41.94	323.91	28.151
OUT17	99.67	14.39	192.90	9.660
OUT18	99.43	14.10	33.61	9.439

OUT19	99.67	0.72	13.57	0.484
OUT20	99.67	232.25	480.16	155.868
OUT21	99.67	0.97	5.58	0.654
OUT22	99.67	3.43	29.87	2.301
OUT23	99.67	2.81	28.53	1.885
OUT24	99.67	0.83	9.18	0.560
OUT25	99.67	0.36	6.71	0.243
OUT27	99.67	0.30	3.97	0.202
OUT26	99.67	17.17	181.96	11.526
OUT28	99.63	0.84	12.99	0.562
System	99.65	388.88	1395.56	260.967

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Link Flow Summary
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Link	Type	Maximum Flow CFS	Time of Max Occurrence days hr:min		Maximum Velocity ft/sec	Max/ Full Flow	Max/ Full Depth
C100-10	DUMMY	14.19	0	00:10			
C10-10A	CONDUIT	87.98	0	00:42	2.84	0.77	0.87
C101-9	DUMMY	36.23	0	00:15			
C103-97	CONDUIT	27.21	0	01:48	1.03	0.01	0.07
C104-26	DUMMY	181.96	0	00:15			
C105-110	DUMMY	2.74	0	01:05			
C107-7	DUMMY	23.95	0	00:17			
C108-16	DUMMY	119.45	0	00:47			
C109-21	DUMMY	5.58	0	00:10			
C1-10	CONDUIT	27.62	0	13:01	9.35	1.08	1.00
C11-2	CONDUIT	50.41	0	00:10	8.49	0.27	0.31
C12A-11	CONDUIT	14.77	0	19:04	0.62	0.01	0.06
C102-8	DUMMY	6.65	0	00:10			
C13-12	CONDUIT	51.93	0	01:11	1.52	0.21	0.51
C14-14A	CONDUIT	70.12	0	00:15	8.44	0.99	0.81
C14A-12	CONDUIT	44.44	0	00:40	1.78	0.01	0.06
C15-15A	CONDUIT	104.17	0	00:40	9.00	1.19	1.00
C15A-22	CONDUIT	93.48	0	00:43	4.34	0.46	0.71
C16-16A	CONDUIT	102.78	0	00:15	14.40	0.36	0.40
C16A-18	CONDUIT	34.99	0	00:09	4.42	1.00	1.00
C61-S61	DUMMY	90.29	0	00:20			
C17-17A	CONDUIT	26.71	0	00:10	7.33	0.08	0.15
C17A-11	CONDUIT	12.65	0	00:25	1.11	0.00	0.03
C18-18A	CONDUIT	56.03	0	00:15	7.66	0.11	0.18
C18A-54	CONDUIT	175.68	0	00:18	5.15	0.87	0.94
C19-13	CONDUIT	8.95	0	00:11	3.86	0.07	0.30
C20-20A	CONDUIT	11.81	0	02:35	4.32	0.08	0.15
C20A-12	CONDUIT	11.71	0	02:58	0.96	0.00	0.03
C66-17	DUMMY	192.90	0	00:20			
C21-21A	CONDUIT	7.83	0	02:20	2.69	1.07	1.00
C2-13	CONDUIT	51.91	0	06:47	8.80	1.08	1.00
C21A-20	CONDUIT	7.46	0	02:34	0.89	0.00	0.02
C22A-4	CONDUIT	52.02	0	01:35	5.29	0.16	0.42
C23-25	CONDUIT	148.91	0	00:16	5.37	0.24	0.55
C24-17	CONDUIT	0.87	0	03:48	0.39	0.00	0.01
C25-25A	CONDUIT	30.37	0	02:49	1.68	1.08	1.00
C25A-25B	CHANNEL	30.23	0	02:49	2.78	0.07	0.32
C25B-26	CHANNEL	41.44	0	00:15	3.28	0.09	0.35
C26-26A	CONDUIT	10.81	0	12:36	3.69	1.08	1.00
C26A-29	CONDUIT	10.43	0	12:37	1.70	0.13	0.46
C27-25B	CONDUIT	17.42	0	00:10	7.50	0.83	0.69
C28-28A	CONDUIT	12.56	0	00:10	5.64	0.79	0.67
C28A-30	CONDUIT	12.51	0	00:10	5.68	0.07	0.37
C29-30	CONDUIT	34.35	0	00:13	2.49	1.12	1.00
C30-30A	CONDUIT	45.39	0	00:13	3.90	0.69	0.86
C30A-30B	CONDUIT	55.02	0	00:14	6.94	0.39	0.43
C30B-31	CONDUIT	47.67	0	00:23	2.47	0.06	0.23
C3-1	CONDUIT	154.22	0	01:17	4.03	0.78	0.90
C31-31A	CONDUIT	81.65	0	00:15	4.22	1.07	1.00

C31A-32	CONDUIT	78.99	0	00:53	1.45	0.30	0.60
C32-3	CONDUIT	93.40	0	00:35	9.22	0.03	0.21
C33-33A	CONDUIT	52.85	0	01:13	5.04	0.95	0.78
C33A-4	CONDUIT	52.29	0	01:16	2.60	0.04	0.24
C34-34A	CONDUIT	53.57	0	01:09	8.01	1.09	1.00
C34A-33	CONDUIT	52.70	0	01:12	1.94	0.06	0.27
C35-15	DUMMY	34.87	0	00:10			
C36-5	CONDUIT	139.46	0	00:22	10.50	0.76	0.65
C37-120	CONDUIT	11.18	0	00:25	5.40	0.04	0.13
C38-38A	CONDUIT	128.15	0	00:26	10.13	0.70	0.61
C39-39A	CONDUIT	100.06	0	02:11	12.46	0.22	0.27
C39A-98A	CONDUIT	99.63	0	02:13	3.55	0.01	0.16
C40-40A	CONDUIT	93.96	0	00:58	8.86	1.05	0.91
C40A-39	CONDUIT	93.44	0	02:13	2.14	0.20	0.50
C41-41A	CONDUIT	92.67	0	02:07	8.89	1.05	1.00
C41A-40	CONDUIT	90.84	0	02:07	2.51	0.30	0.59
C42-41	CHANNEL	228.85	0	00:49	3.34	0.02	0.20
C44A-43	CHANNEL	199.00	0	00:32	5.21	0.04	0.33
C4-4A	CONDUIT	55.59	0	00:12	6.73	0.96	0.78
C45-44	CHANNEL	189.14	0	00:30	5.77	0.02	0.32
C46-46A	CONDUIT	223.49	0	00:17	14.84	0.18	0.25
C46A-45	CHANNEL	146.90	0	00:12	8.37	1.00	1.00
C47-46	CHANNEL	199.95	0	00:17	6.35	0.51	0.74
C48-47	CONDUIT	183.12	0	00:16	8.20	0.55	0.54
C49-48	CONDUIT	112.23	0	00:15	8.30	0.26	0.32
C4A-51	CONDUIT	54.83	0	00:16	3.42	0.30	0.58
C50-49	CONDUIT	9.82	0	00:10	3.44	0.02	0.07
C51-2	CONDUIT	185.22	0	00:20	4.82	1.00	1.00
C52-107	CONDUIT	20.55	0	00:10	15.99	0.38	0.43
C53-53A	CONDUIT	14.48	0	00:10	13.58	0.64	0.58
C53A-107	CONDUIT	11.48	0	00:23	2.85	0.03	0.21
C54-54A	CONDUIT	215.99	0	00:16	5.54	1.00	1.00
C54A-51	CONDUIT	216.30	0	00:22	6.52	0.82	0.91
C55-55A	CONDUIT	25.54	0	00:07	6.54	1.00	1.00
C5-5A	CONDUIT	52.26	0	00:15	6.69	0.90	0.74
C55A-56	CONDUIT	25.54	0	00:44	1.86	0.00	0.04
C56-S56	DUMMY	107.18	0	00:10			
C57-S57	DUMMY	3.94	0	00:10			
C58-S58	DUMMY	30.40	0	00:10			
C59-12	CONDUIT	31.94	0	00:20	4.52	0.05	0.11
C5A-1	CONDUIT	64.19	0	00:19	5.15	0.22	0.48
C60-S60	DUMMY	181.09	0	00:15			
C62-13	CONDUIT	99.67	0	00:15	9.25	0.98	0.80
C63-14	CONDUIT	16.58	0	00:11	6.09	0.35	0.41
C64-28	CONDUIT	12.99	0	00:10	4.85	0.41	0.44
C65-65A	CONDUIT	85.13	0	00:42	5.87	1.06	1.00
C65A-108	CONDUIT	78.84	0	01:10	2.28	0.02	0.09
C6-6A	CONDUIT	32.07	0	00:10	7.22	0.17	0.28
C67-67A	CONDUIT	143.45	0	00:28	6.27	1.05	1.00
C68-19	DUMMY	13.57	0	00:10			
C69-98	CONDUIT	92.59	0	01:34	1.66	0.04	0.15
C6A-5	CONDUIT	12.99	0	00:08	3.71	1.00	1.00
C70-70A	CONDUIT	68.13	0	00:39	7.46	0.70	0.62
C71-71A	CONDUIT	66.90	0	00:37	5.87	1.06	1.00
C72-72A	CONDUIT	80.77	0	00:22	9.91	0.58	0.50
C73-73A	CONDUIT	68.45	0	00:21	10.41	1.08	1.00
C74-74A	CONDUIT	12.81	0	00:10	5.44	0.29	0.37
C75-97	CONDUIT	5.28	0	02:20	0.71	0.00	0.02
C76A-42	CONDUIT	35.18	0	00:40	1.89	0.00	0.06
C77A-41	CHANNEL	2.72	0	01:10	3.56	0.00	0.04
C7-7A	CONDUIT	17.21	0	00:10	4.33	0.10	0.18
C78A-66	CONDUIT	51.64	0	00:42	2.08	0.01	0.06
C79-79A	CONDUIT	49.94	0	00:15	12.86	0.37	0.42
C7A-6	CONDUIT	11.47	0	00:08	3.06	1.00	1.00
C106A-67	CONDUIT	152.27	0	00:16	3.95	0.09	0.25
C82-109	DUMMY	4.44	0	00:10			
C8-8A	CONDUIT	198.97	0	00:14	8.87	1.13	1.00
C83-109	DUMMY	0.29	0	01:05			
C84-109	DUMMY	1.84	0	01:05			
C85-85A	CONDUIT	7.74	0	00:18	4.88	1.04	1.00
C85A-92	CONDUIT	3.30	0	01:29	0.71	0.00	0.01
C86A-92	CONDUIT	4.86	0	01:16	1.01	0.00	0.01

C87-23	DUMMY	28.53	0	00:10			
C88-24	DUMMY	9.18	0	00:10			
C89-25	DUMMY	6.71	0	00:10			
C90-110	DUMMY	13.09	0	00:10			
C9-10	CONDUIT	85.50	0	00:21	0.94	0.98	0.99
C91-110	DUMMY	14.97	0	00:10			
C92-20	DUMMY	480.16	0	01:05			
C93-27	DUMMY	3.97	0	00:10			
C94-92	CONDUIT	51.51	0	01:54	1.68	0.01	0.08
C95-94	CONDUIT	52.10	0	01:31	1.15	0.03	0.12
C96-96A	CONDUIT	75.02	0	00:15	5.32	0.36	0.37
C97-81	CONDUIT	65.50	0	01:20	0.82	0.07	0.20
C98A-81	CONDUIT	185.22	0	02:35	1.48	0.13	0.30
C99-11	DUMMY	14.46	0	00:10			
C111A-7	CONDUIT	16.91	0	00:07	4.84	1.00	1.00
C111-111A	CONDUIT	121.53	0	00:31	7.81	1.05	1.00
C112-111	CONDUIT	107.13	0	00:15	19.12	0.43	0.46
C132A-12	CONDUIT	72.23	0	00:25	8.88	0.24	0.33
C131A-111	CONDUIT	11.40	0	00:24	5.39	0.04	0.13
C130A-137A	CONDUIT	16.33	0	00:13	6.19	0.75	0.64
C137A-132	CONDUIT	13.40	0	00:19	5.78	0.04	0.14
C126A-8	CONDUIT	40.56	0	00:40	7.92	0.14	0.25
C8A-127	CONDUIT	206.90	0	00:17	8.05	0.38	0.70
C127A-129A	CONDUIT	103.74	0	00:51	10.58	0.31	0.38
C128A-3	CONDUIT	146.70	0	01:12	2.43	0.04	0.15
C129A-128	CONDUIT	152.16	0	00:10	8.66	1.07	1.00
C134-133	CONDUIT	76.38	0	00:13	8.72	1.07	0.95
C135-134	CONDUIT	51.00	0	00:12	8.10	0.72	0.63
C113-23	CONDUIT	86.85	0	00:15	8.69	0.99	0.83
C114-113	CONDUIT	22.34	0	00:11	7.83	1.08	1.00
C115-113	CONDUIT	44.54	0	00:21	7.26	0.93	0.95
C117A-115	CONDUIT	11.70	0	01:13	5.20	0.04	0.13
C116A-115	CONDUIT	16.74	0	00:21	5.85	0.06	0.16
C118A-34	CONDUIT	40.18	0	00:18	7.50	0.13	0.25
C119A-118	CONDUIT	7.87	0	02:32	4.57	0.03	0.11
C120A-36	CONDUIT	105.73	0	00:24	9.92	0.35	0.41
C121A-120	CONDUIT	2.63	0	01:23	3.43	0.01	0.07
C122A-120	CONDUIT	7.79	0	06:43	4.53	0.03	0.11
C123A-38	CONDUIT	103.44	0	00:26	9.74	0.35	0.40
C124A-123	CONDUIT	48.12	0	00:31	8.15	0.16	0.27
C125A-123	CONDUIT	16.48	0	01:11	5.96	0.06	0.16
C136A-104	CONDUIT	19.05	0	01:13	0.76	0.01	0.07
C96A-95	CONDUIT	64.37	0	00:24	1.27	0.03	0.13
C38A-6	CONDUIT	106.15	0	00:51	2.22	0.19	0.37
C6-5	CONDUIT	234.07	0	05:13	1.70	0.15	0.33
C5-4	CONDUIT	259.51	0	05:13	1.84	0.15	0.33
C4-3	CONDUIT	270.63	0	05:13	1.86	0.16	0.34
C3-92	CONDUIT	341.69	0	01:12	3.44	0.09	0.24
C110-22	DUMMY	29.87	0	00:10			
C138-S138	DUMMY	201.18	0	00:15			
C139-5A	CONDUIT	16.04	0	00:12	1.08	0.00	0.04
C142-2	CONDUIT	15.19	0	00:15	5.46	1.02	0.92
C136-136A	CONDUIT	46.61	0	00:10	3.41	0.01	0.04
C77-77A	DUMMY	4.59	0	00:10			
C44-44A	CONDUIT	199.19	0	00:30	23.51	0.62	0.52
C44-44A_	CONDUIT	0.00	0	00:00	0.00	0.00	0.00
C44A_-44A	DUMMY	0.00	0	00:00			
C126-126A	CONDUIT	58.02	0	00:15	8.18	0.82	0.69
C127-127A	CONDUIT	108.52	0	00:50	9.17	1.08	1.00
C128-128A	CONDUIT	147.68	0	00:11	8.57	1.04	0.93
C129-129A	CONDUIT	50.98	0	00:14	8.19	1.08	1.00
C130-130A	CONDUIT	16.91	0	00:11	5.88	1.06	1.00
C137-137A	CONDUIT	0.20	0	00:06	0.16	1.00	1.00
C132-132A	CONDUIT	74.17	0	00:24	8.42	1.05	1.00
C131-131A	CONDUIT	11.81	0	00:22	5.40	1.05	1.00
C133-15	CONDUIT	109.72	0	00:19	9.85	1.08	0.93
C116-116A	CONDUIT	17.24	0	00:21	6.06	1.08	1.00
C117-117A	CONDUIT	11.88	0	01:11	5.43	1.06	1.00
C119-119A	CONDUIT	7.95	0	02:25	4.90	1.07	1.00
C118-118A	CONDUIT	41.37	0	00:15	7.70	0.58	0.55
C120-120A	CONDUIT	106.75	0	00:19	9.44	1.05	0.94
C121-121A	CONDUIT	2.71	0	01:19	3.83	1.08	1.00

C122-122A	CONDUIT	7.96	0	06:42	4.93	1.07	1.00
C124-124A	CONDUIT	50.46	0	00:29	7.83	1.07	1.00
C125-125A	CONDUIT	17.28	0	01:09	6.14	1.08	1.00
C123-123A	CONDUIT	108.38	0	00:23	9.46	1.07	0.92
C76-76A	CONDUIT	42.77	0	00:22	6.61	1.07	1.00
C43-43A	CONDUIT	199.00	0	00:32	8.32	0.50	0.50
C43A-42	CHANNEL	190.77	0	00:46	2.67	0.11	0.68
C145-145A	CONDUIT	19.84	0	00:20	10.14	0.67	0.60
C145A-103	CONDUIT	12.96	0	00:43	0.84	0.01	0.04
C73A-72	CONDUIT	66.00	0	00:23	1.60	0.02	0.10
C74A-72	CONDUIT	7.33	0	00:20	0.86	0.00	0.02
C72A-71	CONDUIT	80.55	0	00:23	2.81	0.01	0.07
C71A-70	CONDUIT	65.92	0	00:38	2.18	0.01	0.05
C70A-69	CONDUIT	67.60	0	00:41	2.22	0.01	0.08
C22-22A	CONDUIT	53.08	0	01:34	9.00	1.07	1.00
C79A-144	CONDUIT	49.87	0	00:16	2.46	0.01	0.05
C144-144A	CONDUIT	57.34	0	00:16	6.82	0.62	0.52
C144A-78	CONDUIT	57.28	0	00:17	2.33	0.01	0.06
C78-78A	CONDUIT	63.94	0	00:17	8.63	0.62	0.57
C80A-106	CONDUIT	14.08	0	02:00	1.26	0.00	0.03
C106-106A	CONDUIT	153.41	0	00:15	17.53	0.61	0.52
C80-80A	CONDUIT	14.63	0	01:53	1.64	1.08	1.00
C146-146A	CONDUIT	10.39	0	00:11	5.46	0.65	0.59
C146A-114	CONDUIT	6.54	0	00:24	1.07	0.00	0.02
C98-98A	CONDUIT	104.40	0	01:32	1.12	0.08	0.22
C81-6	CONDUIT	213.36	0	05:24	0.30	0.82	0.87
C86-86A	CONDUIT	7.81	0	00:20	5.02	1.05	1.00
C67A-18	CONDUIT	33.61	0	00:13	0.21	1.00	1.00
C147-147A	CONDUIT	14.48	0	00:11	6.68	0.43	0.46
C147A-69	CONDUIT	10.19	0	00:17	1.24	0.00	0.02
C10A-1	CONDUIT	11.51	0	00:07	6.94	1.00	1.00
S17_out-16	CONDUIT	7.51	0	05:05	0.56	0.00	0.03
S17E_out-S17	CONDUIT	14.98	0	01:36	13.83	0.01	0.08
S17W_out-S17E	CONDUIT	12.88	0	01:13	6.16	0.24	0.34
C12-12A	CONDUIT	14.77	0	00:07	9.22	1.00	1.00
S17W-S17W_out	DUMMY	12.88	0	01:13			
S17E-S17E_out	DUMMY	14.98	0	01:36			
S17-S17_out	DUMMY	7.56	0	04:26			

****
Conduit Surcharge Summary
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Conduit	Hours Full Both Ends	Hours Full Upstream	Hours Full Dnstream	Hours Above Full Normal Flow	Hours Capacity Limited
C100-10	0.01	0.01	0.01	25.01	0.01
C101-9	0.01	0.01	0.01	25.01	0.01
C104-26	0.01	0.01	0.01	25.01	0.01
C105-110	0.01	0.01	0.01	25.01	0.01
C107-7	0.01	0.01	0.01	25.01	0.01
C108-16	0.01	0.01	0.01	25.01	0.01
C109-21	0.01	0.01	0.01	25.01	0.01
C1-10	12.91	13.22	12.91	0.32	13.22
C102-8	0.01	0.01	0.01	25.01	0.01
C15-15A	0.51	0.89	0.51	0.38	0.89
C16A-18	1.08	1.11	1.10	1.10	1.11
C61-S61	0.01	0.01	0.01	25.01	0.01
C66-17	0.01	0.01	0.01	25.01	0.01
C21-21A	2.23	2.38	2.23	2.38	2.38
C2-13	6.67	6.96	6.67	14.04	6.96
C25-25A	2.58	2.61	2.61	2.71	2.61
C26-26A	12.48	12.71	12.48	12.72	12.71
C29-30	0.46	0.52	0.47	12.88	0.52
C31-31A	0.55	0.61	0.55	1.85	0.61
C34-34A	0.93	0.97	0.95	0.04	0.97
C35-15	0.01	0.01	0.01	25.01	0.01
C40-40A	0.01	1.57	0.01	0.96	1.57
C41-41A	1.63	1.63	1.64	1.66	1.63

C4-4A	0.01	0.01	0.01	3.41	0.01
C46A-45	0.28	0.29	0.28	0.28	0.29
C48-47	0.01	0.01	0.01	0.12	0.01
C51-2	0.42	0.53	0.46	0.46	0.53
C54-54A	0.10	0.11	0.10	0.10	0.11
C55-55A	0.53	0.54	0.54	0.01	0.54
C5-5A	0.01	0.01	0.01	0.59	0.01
C56-S56	0.01	0.01	0.01	25.01	0.01
C57-S57	0.01	0.01	0.01	25.01	0.01
C58-S58	0.01	0.01	0.01	25.01	0.01
C60-S60	0.01	0.01	0.01	25.01	0.01
C65-65A	0.53	0.57	0.53	0.58	0.57
C67-67A	0.23	0.24	0.24	2.04	0.24
C68-19	0.01	0.01	0.01	25.01	0.01
C6A-5	1.69	1.71	1.70	1.70	1.71
C70-70A	0.01	0.01	0.01	0.98	0.01
C71-71A	0.40	0.46	0.40	0.47	0.46
C73-73A	0.15	0.21	0.15	0.06	0.21
C7A-6	10.04	10.07	10.06	10.06	10.07
C82-109	0.01	0.01	0.01	25.01	0.01
C8-8A	0.01	0.23	0.01	0.96	0.23
C83-109	0.01	0.01	0.01	25.01	0.01
C84-109	0.01	0.01	0.01	25.01	0.01
C85-85A	0.16	0.18	0.16	0.19	0.18
C87-23	0.01	0.01	0.01	25.01	0.01
C88-24	0.01	0.01	0.01	25.01	0.01
C89-25	0.01	0.01	0.01	25.01	0.01
C90-110	0.01	0.01	0.01	25.01	0.01
C9-10	0.01	0.07	0.01	0.01	0.07
C91-110	0.01	0.01	0.01	25.01	0.01
C92-20	0.01	0.01	0.01	25.01	0.01
C93-27	0.01	0.01	0.01	25.01	0.01
C99-11	0.01	0.01	0.01	25.01	0.01
C111A-7	6.06	6.07	6.07	0.01	6.07
C111-111A	0.33	0.34	0.34	1.18	0.34
C129A-128	0.98	1.02	0.98	1.52	1.02
C134-133	0.01	0.13	0.01	0.13	0.13
C114-113	0.22	0.26	0.23	0.04	0.26
C110-22	0.01	0.01	0.01	25.01	0.01
C138-S138	0.01	0.01	0.01	25.01	0.01
C142-2	0.01	0.03	0.01	0.02	0.03
C77-77A	0.01	0.01	0.01	25.01	0.01
C44A_-44A	0.01	0.01	0.01	25.01	0.01
C127-127A	0.67	0.78	0.67	0.11	0.78
C128-128A	0.01	0.04	0.01	1.52	0.04
C129-129A	0.05	0.16	0.07	0.09	0.16
C130-130A	0.03	0.05	0.03	0.03	0.05
C137-137A	24.92	24.93	24.92	24.92	24.93
C132-132A	0.23	0.26	0.23	0.26	0.26
C131-131A	0.23	0.26	0.23	0.03	0.26
C133-15	0.01	0.14	0.01	0.13	0.14
C116-116A	0.15	0.18	0.16	0.20	0.18
C117-117A	1.05	1.08	1.05	0.04	1.08
C119-119A	2.32	2.43	2.32	2.46	2.43
C120-120A	0.01	0.15	0.01	0.16	0.15
C121-121A	1.18	1.20	1.20	1.23	1.20
C122-122A	6.57	6.58	6.58	0.06	6.58
C124-124A	0.28	0.33	0.28	0.06	0.33
C125-125A	1.01	1.02	1.02	0.02	1.02
C123-123A	0.01	0.13	0.01	0.13	0.13
C76-76A	0.23	0.25	0.23	0.03	0.25
C22-22A	1.41	1.55	1.41	4.17	1.55
C80-80A	1.70	1.73	1.73	3.39	1.73
C81-6	0.01	1.08	0.01	0.01	1.08
C86-86A	0.18	0.21	0.19	0.03	0.21
C67A-18	2.91	2.98	2.98	2.98	2.98
C10A-1	24.90	24.91	24.90	24.90	24.91
C12-12A	24.90	24.90	24.90	24.90	24.90

Analysis begun on: Wed Sep 17 12:39:24 2008
Analysis ended on: Wed Sep 17 12:39:25 2008

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Total elapsed time: 00:00:01
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EPA STORM WATER MANAGEMENT MODEL - VERSION 5.0 (Build 5.0.013)
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"City of Brookings, SD: 100-yr 24-hr, Existing Conditions"

****************
Analysis Options
****************
Flow Units ............... CFS
Infiltration Method ...... CURVE_NUMBER
Flow Routing Method ...... KINWAVE
Starting Date ............ JAN-01-2007 00:00:00
Ending Date .............. JAN-02-2007 01:00:00
Antecedent Dry Days ...... 0.0
Report Time Step ......... 00:05:00
Wet Time Step ............ 00:05:00
Dry Time Step ............ 00:05:00
Routing Time Step ........ 30.00 sec


**************************        Volume         Depth
Runoff Quantity Continuity     acre-feet        inches
**************************     ---------       -------
Total Precipitation ......      4197.835         5.750
Evaporation Loss .........         0.000         0.000
Infiltration Loss ........      1663.878         2.279
Surface Runoff ...........      2319.683         3.177
Final Surface Storage ....       223.883         0.307
Continuity Error (%) .....        -0.229


**************************        Volume        Volume
Flow Routing Continuity        acre-feet      Mgallons
**************************     ---------     ---------
Dry Weather Inflow .......         0.000         0.000
Wet Weather Inflow .......      2318.364       755.474
Groundwater Inflow .......         0.000         0.000
RDII Inflow ..............         0.000         0.000
External Inflow ..........         0.000         0.000
External Outflow .........      1368.233       445.859
Internal Outflow .........       717.740       233.886
Evaporation Loss .........         0.000         0.000
Initial Stored Volume ....         0.000         0.000
Final Stored Volume ......       341.663       111.336
Continuity Error (%) .....        -4.713


*********************************
Highest Flow Instability Indexes
*********************************
Link C85A-92 (3)
Link C13-12 (3)
Link C4-4A (3)
Link C43A-42 (2)
Link C42-41 (2)


*************************
Routing Time Step Summary
*************************
Minimum Time Step           :    30.00 sec
Average Time Step           :    30.00 sec
Maximum Time Step           :    30.00 sec
Percent in Steady State     :     0.00
Average Iterations per Step :     1.07


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Subcatchment Runoff Summary
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Subcatchment	Total Precip in	Total Runon in	Total Evap in	Total Infil in	Total Runoff in	Total Runoff Mgal	Peak Runoff CFS	Runoff Coeff
BAS_1	5.750	0.000	0.000	2.520	2.992	2.056	42.271	0.520
BAS_10	5.750	0.000	0.000	2.782	2.672	2.793	33.331	0.465
BAS_100	5.750	0.000	0.000	2.673	2.827	1.067	10.902	0.492
BAS_101	5.750	0.000	0.000	2.755	2.740	1.324	11.069	0.477
BAS_102	5.750	0.000	0.000	2.553	2.943	3.349	40.442	0.512
BAS_103	5.750	0.000	0.000	2.848	2.654	1.283	11.599	0.462
BAS_104	5.750	0.000	0.000	2.983	2.557	0.681	8.219	0.445
BAS_105	5.750	0.000	0.000	2.983	2.504	0.728	6.354	0.436
BAS_106	5.750	0.000	0.000	2.983	2.502	0.741	6.390	0.435
BAS_107	5.750	0.000	0.000	2.954	2.430	4.915	25.326	0.423
BAS_108	5.750	0.000	0.000	2.947	2.277	8.824	28.632	0.396
BAS_109	5.750	0.000	0.000	2.905	2.320	10.770	46.245	0.403
BAS_11	5.750	0.000	0.000	1.976	3.644	7.293	130.860	0.634
BAS_110	5.750	0.000	0.000	2.925	2.330	9.956	36.517	0.405
BAS_111	5.750	0.000	0.000	2.753	2.637	0.745	5.989	0.459
BAS_112	5.750	0.000	0.000	2.940	2.364	9.597	38.098	0.411
BAS_114	5.750	0.000	0.000	2.850	2.588	13.457	87.484	0.450
BAS_115	5.750	0.000	0.000	2.893	2.583	2.819	22.385	0.449
BAS_116	5.750	0.000	0.000	2.913	2.625	9.310	107.944	0.457
BAS_117	5.750	0.000	0.000	2.653	2.814	1.574	16.256	0.489
BAS_118	5.750	0.000	0.000	2.407	2.906	12.426	131.386	0.505
BAS_119	5.750	0.000	0.000	1.489	4.179	18.120	338.492	0.727
BAS_121	5.750	0.000	0.000	2.776	2.716	0.575	4.745	0.472
BAS_122	5.750	0.000	0.000	2.045	3.585	0.613	11.882	0.624
BAS_124	5.750	0.000	0.000	0.887	4.891	1.262	32.291	0.851
BAS_125	5.750	0.000	0.000	2.384	3.196	0.625	9.898	0.556
BAS_126	5.750	0.000	0.000	2.983	1.920	5.302	10.601	0.334
BAS_13	5.750	0.000	0.000	2.423	2.951	11.773	204.841	0.513
BAS_14	5.750	0.000	0.000	2.384	3.118	2.083	27.139	0.542
BAS_15	5.750	0.000	0.000	1.730	3.925	10.625	196.728	0.683
BAS_16	5.750	0.000	0.000	2.271	3.271	8.366	121.421	0.569
BAS_18	5.750	0.000	0.000	2.240	3.334	1.593	25.671	0.580
BAS_19	5.750	0.000	0.000	2.772	1.591	0.302	6.244	0.277
BAS_2	5.750	0.000	0.000	2.979	2.313	2.041	7.614	0.402
BAS_20	5.750	0.000	0.000	1.810	3.831	1.561	28.306	0.666
BAS_21	5.750	0.000	0.000	1.836	2.602	3.286	149.318	0.453
BAS_22	5.750	0.000	0.000	2.961	2.486	0.513	3.546	0.432
BAS_23	5.750	0.000	0.000	1.929	3.628	7.477	113.935	0.631
BAS_24	5.750	0.000	0.000	1.839	3.841	0.375	8.820	0.668
BAS_25	5.750	0.000	0.000	2.983	2.546	0.214	2.429	0.443
BAS_26	5.750	0.000	0.000	0.834	4.903	3.022	62.741	0.853
BAS_27	5.750	0.000	0.000	2.572	2.950	1.754	21.494	0.513
BAS_28	5.750	0.000	0.000	1.920	3.735	1.075	22.499	0.650
BAS_29	5.750	0.000	0.000	0.510	5.280	2.236	66.713	0.918
BAS_3	5.750	0.000	0.000	2.596	2.954	3.674	68.505	0.514
BAS_30	5.750	0.000	0.000	0.510	5.305	0.562	21.903	0.923
BAS_31	5.750	0.000	0.000	0.883	4.864	5.825	125.890	0.846
BAS_32	5.750	0.000	0.000	2.276	3.219	4.580	58.874	0.560
BAS_33	5.750	0.000	0.000	1.168	4.558	4.802	101.000	0.793
BAS_34	5.750	0.000	0.000	2.909	2.579	0.294	2.509	0.448
BAS_35	5.750	0.000	0.000	2.060	3.529	5.030	80.881	0.614
BAS_36	5.750	0.000	0.000	1.431	4.257	3.711	72.308	0.740
BAS_37	5.750	0.000	0.000	2.909	2.400	11.032	45.391	0.417
BAS_38	5.750	0.000	0.000	2.862	2.541	2.346	13.150	0.442
BAS_39	5.750	0.000	0.000	2.857	2.498	4.118	23.022	0.434
BAS_4	5.750	0.000	0.000	2.902	2.379	1.796	7.789	0.414
BAS_40	5.750	0.000	0.000	2.753	2.643	1.658	13.389	0.460
BAS_41	5.750	0.000	0.000	2.837	2.636	0.966	7.384	0.458
BAS_42	5.750	0.000	0.000	2.830	2.681	0.844	7.975	0.466
BAS_43	5.750	0.000	0.000	2.673	2.651	5.384	45.816	0.461
BAS_44	5.750	0.000	0.000	2.574	2.845	5.840	60.919	0.495
BAS_45	5.750	0.000	0.000	2.320	3.209	3.660	51.317	0.558
BAS_46	5.750	0.000	0.000	2.019	3.543	12.671	192.126	0.616
BAS_47	5.750	0.000	0.000	1.980	3.576	8.060	122.278	0.622
BAS_48	5.750	0.000	0.000	1.812	3.780	16.033	260.046	0.657
BAS_49	5.750	0.000	0.000	0.883	4.872	4.088	91.334	0.847
BAS_5	5.750	0.000	0.000	2.332	3.114	2.190	43.154	0.542

BAS_50	5.750	0.000	0.000	1.277	4.379	9.440	290.482	0.762
BAS_51	5.750	0.000	0.000	2.558	2.796	18.191	171.668	0.486
BAS_52	5.750	0.000	0.000	1.614	4.042	1.493	27.321	0.703
BAS_53	5.750	0.000	0.000	2.159	3.391	6.870	98.739	0.590
BAS_54	5.750	0.000	0.000	2.296	3.277	4.093	65.689	0.570
BAS_55	5.750	0.000	0.000	1.289	4.443	0.784	17.934	0.773
BAS_56	5.750	0.000	0.000	1.135	4.606	1.563	34.251	0.801
BAS_57	5.750	0.000	0.000	2.007	3.619	0.678	12.670	0.629
BAS_58	5.750	0.000	0.000	2.868	2.510	2.808	14.797	0.436
BAS_59	5.750	0.000	0.000	2.889	2.537	2.356	14.521	0.441
BAS_6	5.750	0.000	0.000	2.602	2.913	0.902	16.548	0.507
BAS_60	5.750	0.000	0.000	2.675	2.851	0.108	1.111	0.496
BAS_61	5.750	0.000	0.000	2.915	2.578	0.140	1.243	0.448
BAS_62	5.750	0.000	0.000	2.915	2.554	0.319	2.462	0.444
BAS_63	5.750	0.000	0.000	2.604	2.813	3.071	31.366	0.489
BAS_64	5.750	0.000	0.000	2.574	2.947	1.320	16.123	0.513
BAS_65	5.750	0.000	0.000	2.520	2.727	42.010	400.402	0.474
BAS_66	5.750	0.000	0.000	2.494	3.102	0.455	6.486	0.539
BAS_67	5.750	0.000	0.000	2.864	2.605	3.452	26.127	0.453
BAS_68	5.750	0.000	0.000	2.211	3.342	5.853	86.691	0.581
BAS_69	5.750	0.000	0.000	2.372	3.151	12.099	167.314	0.548
BAS_7	5.750	0.000	0.000	1.550	4.116	3.040	106.593	0.716
BAS_70	5.750	0.000	0.000	1.923	3.422	33.306	449.312	0.595
BAS_71**	5.750	0.000	0.000	1.968	3.482	15.580	241.503	0.605
BAS_72**	5.750	0.000	0.000	2.116	3.300	8.209	122.089	0.574
BAS_73	5.750	0.000	0.000	1.574	3.936	14.034	175.573	0.685
BAS_74	5.750	0.000	0.000	2.833	2.395	9.740	58.328	0.416
BAS_75	5.750	0.000	0.000	2.983	2.477	0.612	4.554	0.431
BAS_76	5.750	0.000	0.000	2.437	3.180	0.604	10.281	0.553
BAS_77	5.750	0.000	0.000	2.760	2.710	3.076	25.109	0.471
BAS_78	5.750	0.000	0.000	2.884	2.478	7.530	36.513	0.431
BAS_79	5.750	0.000	0.000	1.815	3.833	6.109	115.606	0.667
BAS_8	5.750	0.000	0.000	0.660	5.080	10.179	369.521	0.883
BAS_80	5.750	0.000	0.000	2.514	2.917	2.091	22.765	0.507
BAS_81	5.750	0.000	0.000	1.906	3.693	6.950	113.079	0.642
BAS_82	5.750	0.000	0.000	0.753	5.047	0.891	26.888	0.878
BAS_83	5.750	0.000	0.000	2.918	2.520	2.778	18.223	0.438
BAS_84	5.750	0.000	0.000	0.289	5.466	1.410	37.935	0.951
BAS_85	5.750	0.000	0.000	2.185	3.321	1.064	14.446	0.578
BAS_86	5.750	0.000	0.000	1.519	4.175	6.371	130.296	0.726
BAS_87	5.750	0.000	0.000	0.928	4.846	2.658	65.834	0.843
BAS_88	5.750	0.000	0.000	2.574	2.902	4.429	50.887	0.505
BAS_89	5.750	0.000	0.000	2.574	2.934	4.565	54.904	0.510
BAS_9	5.750	0.000	0.000	2.678	2.661	5.058	73.001	0.463
BAS_90	5.750	0.000	0.000	2.574	2.942	1.302	15.802	0.512
BAS_91	5.750	0.000	0.000	1.810	3.872	0.494	11.585	0.673
BAS_92	5.750	0.000	0.000	1.875	3.800	0.949	22.174	0.661
BAS_93	5.750	0.000	0.000	2.701	2.786	2.633	25.217	0.485
BAS_94	5.750	0.000	0.000	2.859	2.656	1.407	13.884	0.462
BAS_95	5.750	0.000	0.000	2.606	2.916	1.995	23.305	0.507
BAS_96	5.750	0.000	0.000	2.983	2.490	1.934	15.487	0.433
BAS_97	5.750	0.000	0.000	2.983	2.507	1.130	10.044	0.436
BAS_98	5.750	0.000	0.000	2.983	2.566	0.098	1.234	0.446
BAS_99	5.750	0.000	0.000	2.798	2.778	0.317	4.251	0.483
BAS_S17	5.750	0.000	0.000	0.745	5.042	3.382	92.868	0.877
BAS_S17E	5.750	0.000	0.000	1.108	4.605	1.313	26.142	0.801
BAS_S17W	5.750	0.000	0.000	1.108	4.622	3.075	64.972	0.804
BAS_120	5.750	0.000	0.000	0.510	5.276	2.478	72.359	0.918
BAS_12	5.750	0.000	0.000	2.983	2.323	15.078	58.464	0.404
BAS_146	5.750	0.000	0.000	1.865	3.807	1.406	31.744	0.662
BAS_153	5.750	0.000	0.000	1.866	3.802	2.323	50.834	0.661
BAS_147	5.750	0.000	0.000	2.201	3.412	2.372	43.721	0.593
BAS_148	5.750	0.000	0.000	1.873	3.739	9.300	154.708	0.650
BAS_129	5.750	0.000	0.000	1.865	3.754	4.200	70.586	0.653
BAS_128	5.750	0.000	0.000	1.789	3.862	3.492	66.019	0.672
BAS_127	5.750	0.000	0.000	1.864	3.823	0.021	0.576	0.665
BAS_142	5.750	0.000	0.000	1.347	4.363	5.035	102.790	0.759
BAS_143	5.750	0.000	0.000	1.567	4.146	0.867	21.900	0.721
BAS_145	5.750	0.000	0.000	2.095	3.487	6.401	101.614	0.606
BAS_144	5.750	0.000	0.000	2.570	2.908	7.486	86.469	0.506
BAS_149	5.750	0.000	0.000	1.664	4.006	3.459	67.430	0.697
BAS_150	5.750	0.000	0.000	2.235	3.343	3.341	54.656	0.581

BAS_151	5.750	0.000	0.000	2.196	3.371	6.197	96.471	0.586
BAS_123	5.750	0.000	0.000	1.932	3.678	4.064	67.400	0.640
BAS_133	5.750	0.000	0.000	1.723	3.881	4.026	66.638	0.675
BAS_132	5.750	0.000	0.000	1.894	3.723	2.234	37.362	0.647
BAS_131	5.750	0.000	0.000	1.332	4.389	1.954	42.294	0.763
BAS_130	5.750	0.000	0.000	2.167	3.418	3.109	51.379	0.594
BAS_134	5.750	0.000	0.000	1.232	4.493	3.135	66.113	0.781
BAS_135	5.750	0.000	0.000	1.481	4.227	5.854	130.305	0.735
BAS_138	5.750	0.000	0.000	1.809	3.765	10.488	163.709	0.655
BAS_137	5.750	0.000	0.000	1.665	4.037	0.877	21.767	0.702
BAS_136	5.750	0.000	0.000	1.752	3.819	12.515	192.227	0.664
BAS_141	5.750	0.000	0.000	1.765	3.906	4.126	87.216	0.679
BAS_140	5.750	0.000	0.000	1.748	3.856	8.492	140.593	0.671
BAS_139	5.750	0.000	0.000	1.822	3.774	6.537	106.823	0.656
BAS_152**	5.750	0.000	0.000	2.727	2.832	3.607	42.959	0.493
BAS_154	5.750	0.000	0.000	2.100	3.530	1.188	23.232	0.614
BAS_155	5.750	0.000	0.000	1.873	3.775	1.456	28.611	0.657
BAS_158	5.750	0.000	0.000	0.289	5.540	1.038	40.099	0.963
BAS_159	5.750	0.000	0.000	2.271	3.280	0.997	14.918	0.570
BAS_160	5.750	0.000	0.000	1.787	3.797	16.632	265.575	0.660
BAS_161	5.750	0.000	0.000	1.700	3.992	0.813	18.946	0.694
BAS_162	5.750	0.000	0.000	1.242	4.506	1.126	28.772	0.784
BAS_163	5.750	0.000	0.000	5.081	0.505	0.140	5.924	0.088
System	5.750	0.000	0.000	2.279	3.177	755.847	9737.546	0.553

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Node Depth Summary
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Node	Type	Average Depth Feet	Maximum Depth Feet	Maximum HGL Feet	Time of Max Occurrence days	hr:min
N1	JUNCTION	2.96	3.00	1604.60	0	00:07
N10	JUNCTION	1.98	2.55	1603.25	0	00:17
N100	JUNCTION	0.00	0.00	1594.00	0	00:00
N101	JUNCTION	0.00	0.00	1608.00	0	00:00
N102	JUNCTION	0.00	0.00	1626.90	0	00:00
N103	JUNCTION	0.22	0.50	1634.10	0	00:10
N104	JUNCTION	0.12	0.42	1596.89	0	01:18
N105	JUNCTION	0.00	0.00	1611.55	0	00:00
N107	JUNCTION	0.23	0.63	1612.93	0	01:05
N108	JUNCTION	0.15	0.38	1616.04	0	01:36
N109	JUNCTION	0.00	0.00	1638.00	0	00:00
N11	JUNCTION	1.13	1.55	1595.55	0	03:05
N110	JUNCTION	0.00	0.00	1611.55	0	00:00
N12	JUNCTION	9.95	10.00	1608.00	0	00:08
N13	JUNCTION	1.61	2.00	1602.70	0	00:06
N14	JUNCTION	0.81	3.50	1618.23	0	00:09
N14A	JUNCTION	0.81	3.50	1618.04	0	00:09
N15	JUNCTION	1.15	4.00	1624.22	0	00:07
N15A	JUNCTION	1.14	3.00	1622.30	0	00:08
N16	JUNCTION	0.39	1.33	1628.48	0	00:10
N16A	JUNCTION	1.02	3.00	1627.60	0	00:07
N17	JUNCTION	0.22	0.43	1606.43	0	00:10
N17A	JUNCTION	0.22	0.43	1605.23	0	00:10
N18	JUNCTION	0.65	1.00	1624.30	0	00:08
N18A	JUNCTION	1.08	4.00	1626.32	0	00:09
N19	JUNCTION	0.16	0.44	1604.44	0	01:05
N2	JUNCTION	2.15	3.00	1604.55	0	00:06
N20	JUNCTION	0.43	0.89	1613.61	0	01:05
N20A	JUNCTION	0.43	0.89	1613.36	0	01:05
N21	JUNCTION	1.02	2.00	1629.01	0	00:06
N21A	JUNCTION	1.02	2.00	1628.78	0	00:06
N22	JUNCTION	1.23	3.00	1618.30	0	00:08
N23	JUNCTION	0.89	2.82	1614.82	0	00:13
N24	JUNCTION	0.02	0.08	1632.08	0	01:05
N25	JUNCTION	3.07	5.00	1613.46	0	00:08
N25A	JUNCTION	3.07	5.00	1613.34	0	00:10

N25B	JUNCTION	0.95	2.00	1610.00	0	00:09
N26	JUNCTION	3.90	4.00	1610.00	0	00:06
N26A	JUNCTION	1.90	2.00	1607.89	0	00:06
N27	JUNCTION	0.48	2.00	1612.00	0	00:08
N28	JUNCTION	0.37	2.00	1610.00	0	00:09
N28A	JUNCTION	0.78	2.21	1609.89	0	00:17
N29	JUNCTION	1.19	2.50	1608.04	0	00:08
N3	JUNCTION	1.00	2.02	1616.89	0	00:35
N30	JUNCTION	2.91	4.68	1610.03	0	00:17
N30A	JUNCTION	2.91	4.67	1608.67	0	00:18
N30B	JUNCTION	0.75	1.71	1605.16	0	00:15
N31	JUNCTION	1.11	4.00	1604.00	0	00:09
N31A	JUNCTION	1.58	3.06	1601.91	0	01:19
N32	JUNCTION	1.58	3.04	1601.54	0	01:21
N33	JUNCTION	1.26	3.19	1602.92	0	01:29
N33A	JUNCTION	1.26	3.19	1602.69	0	01:29
N34	JUNCTION	0.93	6.00	1611.39	0	00:08
N34A	JUNCTION	0.90	2.50	1603.17	0	00:09
N35	JUNCTION	0.00	0.00	1643.80	0	00:00
N36	JUNCTION	1.34	3.79	1609.48	0	00:15
N37	JUNCTION	0.31	1.22	1646.18	0	00:15
N38	JUNCTION	1.22	3.62	1606.03	0	00:35
N38A	JUNCTION	1.22	3.62	1605.62	0	00:35
N39	JUNCTION	1.31	1.60	1612.49	0	08:32
N39A	JUNCTION	0.95	1.25	1609.50	0	01:05
N4	JUNCTION	1.14	3.00	1614.82	0	00:10
N40	JUNCTION	1.95	3.00	1616.96	0	00:27
N40A	JUNCTION	1.95	3.00	1616.67	0	00:28
N41	JUNCTION	2.40	4.52	1621.01	0	00:23
N41A	JUNCTION	1.92	3.00	1619.26	0	00:24
N42	JUNCTION	2.11	3.45	1624.88	0	01:14
N45	JUNCTION	1.01	2.14	1636.47	0	00:10
N46	JUNCTION	1.09	4.62	1641.56	0	00:16
N46A	JUNCTION	0.93	5.00	1641.17	0	00:09
N47	JUNCTION	1.09	4.62	1642.16	0	00:16
N48	JUNCTION	0.52	2.89	1644.65	0	00:15
N49	JUNCTION	0.33	1.73	1644.82	0	00:15
N4A	JUNCTION	1.17	2.50	1614.02	0	00:16
N5	JUNCTION	0.85	1.98	1617.58	0	00:10
N50	JUNCTION	0.05	0.35	1644.14	0	00:10
N51	JUNCTION	1.63	3.00	1613.00	0	00:12
N52	JUNCTION	0.23	0.63	1615.83	0	01:05
N53	JUNCTION	0.25	0.73	1642.11	0	00:10
N53A	JUNCTION	0.25	0.73	1639.66	0	00:10
N54	JUNCTION	1.13	3.00	1619.00	0	00:12
N54A	JUNCTION	1.13	3.00	1618.50	0	00:12
N55	JUNCTION	0.43	1.92	1630.24	0	00:09
N55A	JUNCTION	0.43	1.92	1629.92	0	00:09
N56	JUNCTION	0.05	0.12	1598.12	0	01:10
N57	JUNCTION	0.00	0.00	0.00	0	00:00
N58	JUNCTION	0.00	0.00	0.00	0	00:00
N59	JUNCTION	0.09	0.73	1602.03	0	00:20
N5A	JUNCTION	0.85	1.99	1617.04	0	00:10
N6	JUNCTION	0.60	0.92	1618.97	0	00:10
N60	JUNCTION	0.00	0.00	0.00	0	00:00
N61	JUNCTION	0.00	0.00	0.00	0	00:00
N62	JUNCTION	0.78	4.00	1630.16	0	00:09
N63	JUNCTION	0.33	1.82	1642.18	0	00:20
N64	JUNCTION	0.28	1.26	1608.19	0	00:10
N65	JUNCTION	1.47	4.50	1641.10	0	00:07
N65A	JUNCTION	1.47	4.50	1640.65	0	00:08
N66	JUNCTION	0.08	0.39	1622.39	0	00:41
N67	JUNCTION	0.74	3.90	1625.60	0	00:09
N68	JUNCTION	0.00	0.00	1660.00	0	00:00
N69	JUNCTION	0.36	1.16	1627.34	0	00:20
N6A	JUNCTION	1.28	3.50	1621.00	0	00:07
N7	JUNCTION	0.58	0.69	1621.32	0	00:20
N70	JUNCTION	0.80	1.95	1633.01	0	00:35
N71	JUNCTION	1.37	4.00	1638.70	0	00:10
N72	JUNCTION	0.62	1.87	1639.27	0	01:03
N73	JUNCTION	0.74	3.00	1642.70	0	00:08
N74	JUNCTION	0.58	1.35	1642.42	0	01:05

N75	JUNCTION	0.03	0.09	1656.09	0	01:05
N76	JUNCTION	1.05	2.26	1636.26	0	01:05
N77	JUNCTION	0.00	0.00	1636.43	0	00:00
N78	JUNCTION	0.70	4.00	1651.09	0	00:11
N79	JUNCTION	0.41	2.13	1655.43	0	00:15
N7A	JUNCTION	2.40	3.75	1623.75	0	00:06
N8	JUNCTION	0.71	6.00	1648.74	0	00:08
N80	JUNCTION	1.16	2.50	1651.78	0	00:06
N82	JUNCTION	0.00	0.00	1638.00	0	00:00
N83	JUNCTION	0.00	0.00	1638.00	0	00:00
N84	JUNCTION	0.00	0.00	1638.00	0	00:00
N85	JUNCTION	0.61	1.50	1645.18	0	00:07
N85A	JUNCTION	0.61	1.50	1644.91	0	00:07
N86	JUNCTION	0.51	1.50	1649.88	0	00:10
N87	JUNCTION	0.00	0.00	1599.00	0	00:00
N88	JUNCTION	0.00	0.00	1630.00	0	00:00
N89	JUNCTION	0.00	0.00	1618.00	0	00:00
N9	JUNCTION	1.05	2.80	1603.55	0	00:10
N90	JUNCTION	0.00	0.00	1611.55	0	00:00
N91	JUNCTION	0.00	0.00	1611.55	0	00:00
N92	JUNCTION	0.93	1.30	1576.30	0	03:42
N93	JUNCTION	0.00	0.00	1630.00	0	00:00
N94	JUNCTION	0.22	0.54	1592.71	0	01:43
N95	JUNCTION	0.21	0.67	1599.80	0	00:21
N96	JUNCTION	0.38	1.48	1602.08	0	00:10
N97	JUNCTION	0.60	1.79	1604.92	0	00:15
N98	JUNCTION	0.59	1.31	1607.31	0	01:28
N99	JUNCTION	0.00	0.00	1596.00	0	00:00
N111A	JUNCTION	1.44	2.50	1625.59	0	00:06
N111	JUNCTION	0.91	6.00	1629.32	0	00:08
N131	JUNCTION	0.58	1.75	1633.74	0	00:06
N112	JUNCTION	0.79	2.14	1635.85	0	00:15
N132	JUNCTION	1.12	6.00	1648.95	0	00:07
N130	JUNCTION	0.43	2.00	1660.27	0	00:08
N137	JUNCTION	1.25	1.25	1655.57	0	00:05
N126	JUNCTION	0.67	3.50	1694.50	0	00:08
N8A	JUNCTION	1.32	3.81	1646.14	0	00:42
N127	JUNCTION	1.41	5.30	1640.81	0	00:08
N128	JUNCTION	1.14	3.50	1622.21	0	00:09
N129	JUNCTION	0.83	3.00	1629.12	0	00:07
N133	JUNCTION	1.07	4.00	1632.29	0	00:08
N134	JUNCTION	0.97	3.50	1634.62	0	00:08
N135	JUNCTION	0.77	3.50	1637.82	0	00:09
N113	JUNCTION	0.72	3.00	1618.54	0	00:09
N116	JUNCTION	0.55	2.00	1627.07	0	00:07
N117	JUNCTION	0.76	1.75	1625.93	0	00:06
N114	JUNCTION	0.75	4.00	1626.75	0	00:07
N115	JUNCTION	0.57	6.00	1626.37	0	00:09
N118	JUNCTION	0.78	6.00	1621.19	0	00:13
N119	JUNCTION	0.88	1.50	1627.39	0	00:05
N120	JUNCTION	1.43	6.00	1627.13	0	00:08
N121	JUNCTION	0.38	1.00	1637.09	0	00:06
N122	JUNCTION	1.19	1.50	1642.23	0	00:05
N123	JUNCTION	1.35	6.00	1628.14	0	00:10
N124	JUNCTION	0.93	3.00	1646.23	0	00:07
N125	JUNCTION	0.69	2.00	1639.75	0	00:06
N136	JUNCTION	0.07	0.26	1600.16	0	01:05
N96A	JUNCTION	0.38	1.47	1601.57	0	00:11
OUT6	JUNCTION	3.57	5.16	1603.39	0	04:42
OUT4	JUNCTION	1.43	2.01	1599.37	0	03:37
OUT3	JUNCTION	1.43	2.01	1599.11	0	03:42
OUT5	JUNCTION	1.52	3.76	1601.93	0	00:18
N138	JUNCTION	0.00	0.00	0.00	0	00:00
N139	JUNCTION	0.04	0.21	1615.77	0	00:10
N142	JUNCTION	0.22	0.90	1602.64	0	00:10
N136A	JUNCTION	0.12	0.46	1599.72	0	01:05
N77A	JUNCTION	0.13	0.37	1636.37	0	01:05
N44A_	JUNCTION	0.00	0.00	1624.78	0	00:00
N44A	JUNCTION	1.26	2.32	1627.10	0	01:06
N126A	JUNCTION	0.66	3.50	1694.22	0	00:09
N127A	JUNCTION	1.05	4.00	1639.22	0	00:08
N128A	JUNCTION	1.10	3.04	1621.09	0	00:10

N129A	JUNCTION	1.28	6.00	1626.02	0	00:09
N130A	JUNCTION	0.43	2.00	1659.93	0	00:08
N137A	JUNCTION	1.25	1.46	1655.78	0	01:07
N132A	JUNCTION	1.00	3.50	1646.18	0	00:08
N131A	JUNCTION	0.58	1.75	1633.39	0	00:07
N116A	JUNCTION	0.55	2.00	1625.41	0	00:08
N117A	JUNCTION	0.75	1.75	1625.04	0	00:07
N118A	JUNCTION	0.77	3.05	1616.72	0	00:16
N119A	JUNCTION	0.87	1.50	1626.53	0	00:06
N120A	JUNCTION	1.34	4.00	1623.43	0	00:09
N121A	JUNCTION	0.38	1.00	1634.97	0	00:07
N122A	JUNCTION	1.19	1.50	1639.78	0	00:06
N123A	JUNCTION	1.25	4.00	1622.28	0	00:12
N125A	JUNCTION	0.69	2.00	1637.20	0	00:07
N124A	JUNCTION	0.93	3.00	1644.12	0	00:08
N43	JUNCTION	1.25	2.32	1625.19	0	01:08
N43A	JUNCTION	2.11	3.45	1626.19	0	01:08
N76A	JUNCTION	1.04	2.25	1634.10	0	01:05
N145	JUNCTION	0.24	2.00	1642.00	0	00:11
N145A	JUNCTION	0.24	2.00	1638.45	0	00:13
N73A	JUNCTION	0.73	3.00	1641.20	0	00:08
N74A	JUNCTION	0.58	1.35	1642.00	0	01:05
N72A	JUNCTION	0.62	1.86	1637.94	0	01:03
N71A	JUNCTION	1.37	4.00	1638.30	0	00:11
N70A	JUNCTION	0.80	1.94	1631.98	0	00:35
N22A	JUNCTION	1.04	2.00	1617.06	0	00:09
N144	JUNCTION	0.49	4.00	1653.39	0	00:11
N144A	JUNCTION	0.48	3.33	1652.06	0	00:14
N79A	JUNCTION	0.41	2.13	1653.62	0	00:15
N78A	JUNCTION	0.69	4.00	1650.35	0	00:13
N80A	JUNCTION	1.16	2.50	1651.68	0	00:07
N106	JUNCTION	0.65	4.00	1629.13	0	00:14
N106A	JUNCTION	0.64	3.50	1627.14	0	00:15
N146A	JUNCTION	0.31	2.00	1637.75	0	00:11
N146	JUNCTION	0.32	2.00	1638.99	0	00:09
N81	JUNCTION	3.54	5.66	1607.13	0	01:05
N98A	JUNCTION	1.02	1.71	1607.61	0	01:28
N86A	JUNCTION	0.51	1.50	1648.90	0	00:32
N67A	JUNCTION	2.24	3.00	1624.50	0	00:07
N147A	JUNCTION	0.58	1.57	1634.78	0	00:10
N147	JUNCTION	0.58	1.61	1637.12	0	00:10
N10A	JUNCTION	3.98	4.00	1600.38	0	00:07
S17W_out	JUNCTION	0.47	1.06	1642.06	0	00:27
S17E_out	JUNCTION	0.27	0.59	1640.59	0	01:25
S17_out	JUNCTION	0.13	0.24	1630.24	0	03:25
N12A	JUNCTION	1.49	1.50	1598.67	0	00:08
OUT1	OUTFALL	1.49	1.50	1597.52	0	00:07
OUT2	OUTFALL	1.13	1.55	1595.15	0	03:05
OUT7	OUTFALL	0.00	0.00	1612.30	0	00:00
OUT8	OUTFALL	0.00	0.00	1626.90	0	00:00
OUT9	OUTFALL	0.00	0.00	1608.00	0	00:00
OUT10	OUTFALL	0.00	0.00	1594.00	0	00:00
OUT11	OUTFALL	0.00	0.00	1596.00	0	00:00
OUT12	OUTFALL	0.09	0.73	1601.11	0	00:20
OUT13	OUTFALL	0.78	4.00	1629.16	0	00:10
OUT14	OUTFALL	0.33	1.82	1641.18	0	00:20
OUT15	OUTFALL	0.00	0.00	1643.80	0	00:00
OUT16	OUTFALL	0.00	0.00	1615.66	0	00:00
OUT17	OUTFALL	0.00	0.00	1622.00	0	00:00
OUT18	OUTFALL	2.24	3.00	1624.50	0	00:11
OUT19	OUTFALL	0.00	0.00	1660.00	0	00:00
OUT20	OUTFALL	0.00	0.00	1575.00	0	00:00
OUT21	OUTFALL	0.00	0.00	1638.00	0	00:00
OUT22	OUTFALL	0.00	0.00	1611.55	0	00:00
OUT23	OUTFALL	0.00	0.00	1599.00	0	00:00
OUT24	OUTFALL	0.00	0.00	1630.00	0	00:00
OUT25	OUTFALL	0.00	0.00	1618.00	0	00:00
OUT27	OUTFALL	0.00	0.00	1630.00	0	00:00
OUT26	OUTFALL	0.00	0.00	1596.47	0	00:00
OUT28	OUTFALL	0.27	1.25	1607.21	0	00:10
N44	DIVIDER	1.01	2.02	1629.56	0	00:25
S17W	STORAGE	4.92	8.00	1649.00	0	00:27

S17E	STORAGE	1.12	4.26	1644.26	0	01:25
S17	STORAGE	4.87	5.77	1635.77	0	03:25
S56	STORAGE	1.07	1.31	1.31	1	01:00
S57	STORAGE	1.18	1.43	1.43	1	01:00
S60	STORAGE	1.29	1.47	1.47	1	01:00
S58	STORAGE	1.19	1.42	1.42	1	01:00
S61	STORAGE	1.40	1.73	1.73	1	01:00
S138	STORAGE	1.10	1.42	1.42	1	01:00

****
Node InFlow Summary
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Node	Type	Maximum Lateral Inflow CFS	Maximum Total Inflow CFS	Time of Max Occurrence days	hr:min	Lateral Inflow Volume Mgal	Total Inflow Volume Mgal
N1	JUNCTION	56.74	253.23	0	00:37	5.888	44.082
N10	JUNCTION	0.00	83.44	0	00:17	0.000	22.233
N100	JUNCTION	6.35	6.35	0	01:05	0.727	0.727
N101	JUNCTION	40.44	40.44	0	00:10	3.347	3.347
N102	JUNCTION	11.07	11.07	0	01:05	1.324	1.324
N103	JUNCTION	58.33	58.33	0	00:10	9.731	10.818
N104	JUNCTION	167.31	167.31	0	00:10	12.093	15.864
N105	JUNCTION	15.49	15.49	0	01:05	1.933	1.932
N107	JUNCTION	0.00	19.32	0	01:06	0.000	2.355
N108	JUNCTION	130.30	170.66	0	00:35	6.370	19.798
N109	JUNCTION	0.00	15.46	0	01:05	0.000	1.544
N11	JUNCTION	42.51	77.87	0	03:05	10.691	31.690
N110	JUNCTION	0.00	50.33	0	00:10	0.000	5.513
N12	JUNCTION	28.63	163.01	0	01:10	8.815	51.037
N13	JUNCTION	0.00	52.90	0	01:05	0.000	27.773
N14	JUNCTION	98.74	98.74	0	00:10	6.867	6.866
N14A	JUNCTION	0.00	76.17	0	00:20	0.000	6.758
N15	JUNCTION	196.73	303.70	0	00:12	10.622	22.570
N15A	JUNCTION	0.00	104.91	0	01:41	0.000	17.661
N16	JUNCTION	121.42	121.42	0	00:10	8.362	13.729
N16A	JUNCTION	0.00	121.52	0	00:10	0.000	13.728
N17	JUNCTION	46.25	46.25	0	00:10	10.759	11.502
N17A	JUNCTION	0.00	45.67	0	00:10	0.000	11.502
N18	JUNCTION	25.67	60.66	0	00:10	1.593	13.508
N18A	JUNCTION	177.62	237.44	0	00:10	4.845	18.352
N19	JUNCTION	4.75	4.75	0	01:05	0.575	0.575
N2	JUNCTION	204.84	360.29	0	00:18	11.765	50.441
N20	JUNCTION	25.33	33.52	0	01:05	4.912	7.667
N20A	JUNCTION	0.00	33.48	0	01:05	0.000	7.667
N21	JUNCTION	65.69	65.69	0	00:10	4.091	4.091
N21A	JUNCTION	0.00	9.09	0	03:42	0.000	2.746
N22	JUNCTION	27.14	110.76	0	00:15	2.594	20.260
N23	JUNCTION	113.93	214.67	0	00:15	7.474	18.462
N24	JUNCTION	6.39	6.39	0	01:05	0.740	0.740
N25	JUNCTION	2.43	213.49	0	00:16	0.214	18.671
N25A	JUNCTION	0.00	30.42	0	06:30	0.000	11.551
N25B	JUNCTION	0.00	50.18	0	00:17	0.000	13.661
N26	JUNCTION	62.74	111.72	0	00:17	3.021	16.675
N26A	JUNCTION	0.00	10.81	0	18:39	0.000	6.715
N27	JUNCTION	30.31	30.31	0	00:10	2.129	2.129
N28	JUNCTION	22.50	22.50	0	00:10	1.075	1.075
N28A	JUNCTION	0.00	16.90	0	00:17	0.000	1.061
N29	JUNCTION	66.71	76.74	0	00:20	2.236	8.947
N3	JUNCTION	68.51	179.26	0	00:35	3.673	26.782
N30	JUNCTION	0.00	47.42	0	00:17	0.000	9.422
N30A	JUNCTION	21.90	68.51	0	00:15	0.562	9.979
N30B	JUNCTION	0.00	68.39	0	00:15	0.000	9.977
N31	JUNCTION	125.89	187.45	0	00:21	5.824	15.792
N31A	JUNCTION	0.00	81.93	0	01:19	0.000	13.720
N32	JUNCTION	72.99	122.96	0	00:35	5.898	19.643
N33	JUNCTION	1.24	54.17	0	01:29	0.140	8.895
N33A	JUNCTION	0.00	54.15	0	01:29	0.000	8.895

N34	JUNCTION	101.00	169.02	0	00:15	4.802	10.814
N34A	JUNCTION	2.51	55.35	0	01:25	0.294	8.716
N35	JUNCTION	65.83	65.83	0	00:20	2.658	2.658
N36	JUNCTION	80.88	170.05	0	00:15	5.028	22.101
N37	JUNCTION	27.32	27.32	0	00:15	1.492	1.492
N38	JUNCTION	72.31	160.85	0	00:35	3.710	19.393
N38A	JUNCTION	0.00	160.74	0	00:35	0.000	19.390
N39	JUNCTION	45.39	134.59	0	01:05	11.022	52.851
N39A	JUNCTION	0.00	134.50	0	01:05	0.000	52.847
N4	JUNCTION	11.88	61.02	0	00:10	0.613	17.073
N40	JUNCTION	14.52	102.93	0	01:05	2.354	43.184
N40A	JUNCTION	0.00	93.96	0	00:27	0.000	42.027
N41	JUNCTION	26.17	315.55	0	01:15	4.001	58.339
N41A	JUNCTION	0.00	92.67	0	08:10	0.000	40.898
N42	JUNCTION	68.84	285.30	0	01:12	9.494	52.609
N45	JUNCTION	73.59	220.49	0	00:10	6.514	29.592
N46	JUNCTION	51.32	404.22	0	00:16	3.658	26.720
N46A	JUNCTION	0.00	404.27	0	00:16	0.000	26.719
N47	JUNCTION	34.25	362.05	0	00:16	1.563	23.065
N48	JUNCTION	122.28	330.59	0	00:15	8.057	21.503
N49	JUNCTION	192.13	209.00	0	00:15	12.666	13.449
N4A	JUNCTION	0.00	61.03	0	00:11	0.000	17.069
N5	JUNCTION	43.15	56.14	0	00:10	2.189	9.958
N50	JUNCTION	17.93	17.93	0	00:10	0.784	0.784
N51	JUNCTION	0.00	275.21	0	00:18	0.000	39.287
N52	JUNCTION	11.60	11.60	0	01:05	1.282	1.282
N53	JUNCTION	10.90	10.90	0	00:10	1.066	1.066
N53A	JUNCTION	0.00	10.79	0	00:10	0.000	1.066
N54	JUNCTION	67.40	264.38	0	00:15	4.063	22.405
N54A	JUNCTION	0.00	215.99	0	00:12	0.000	22.236
N55	JUNCTION	33.33	33.33	0	00:10	2.792	2.792
N55A	JUNCTION	0.00	25.54	0	00:09	0.000	2.783
N56	JUNCTION	87.48	102.68	0	01:05	13.448	16.280
N57	JUNCTION	22.39	22.39	0	01:05	2.818	2.818
N58	JUNCTION	118.98	118.98	0	01:05	10.879	10.879
N59	JUNCTION	72.36	72.36	0	00:20	2.478	2.478
N5A	JUNCTION	0.00	83.72	0	00:11	0.000	11.412
N6	JUNCTION	16.55	28.02	0	00:10	0.901	8.078
N60	JUNCTION	338.49	338.49	0	00:15	18.115	18.114
N61	JUNCTION	131.39	131.39	0	00:15	12.417	12.416
N62	JUNCTION	130.86	130.86	0	00:10	7.290	7.290
N63	JUNCTION	32.29	32.29	0	00:20	1.262	1.262
N64	JUNCTION	23.23	23.23	0	00:10	1.188	1.188
N65	JUNCTION	260.05	260.05	0	00:15	16.026	16.026
N65A	JUNCTION	0.00	85.03	0	01:29	0.000	13.224
N66	JUNCTION	290.48	300.94	0	00:15	9.438	15.723
N67	JUNCTION	37.94	289.12	0	00:15	1.410	21.856
N68	JUNCTION	26.89	26.89	0	00:20	0.891	0.891
N69	JUNCTION	175.57	262.51	0	00:20	14.026	28.866
N6A	JUNCTION	0.00	27.79	0	00:10	0.000	8.077
N7	JUNCTION	0.58	17.48	0	00:20	0.021	8.770
N70	JUNCTION	10.28	73.27	0	00:35	0.604	11.780
N71	JUNCTION	9.90	101.45	0	01:03	0.625	12.089
N72	JUNCTION	22.76	95.38	0	01:03	2.090	11.469
N73	JUNCTION	113.08	113.08	0	00:15	6.947	6.947
N74	JUNCTION	18.22	18.22	0	01:05	2.776	2.776
N75	JUNCTION	4.55	4.55	0	01:05	0.612	0.612
N76	JUNCTION	36.51	36.51	0	01:05	7.524	7.524
N77	JUNCTION	15.36	15.36	0	01:05	1.809	1.809
N78	JUNCTION	14.92	111.18	0	00:14	0.997	6.084
N79	JUNCTION	91.33	91.33	0	00:15	4.087	4.087
N7A	JUNCTION	106.59	123.96	0	00:10	3.039	11.806
N8	JUNCTION	369.52	393.69	0	00:15	10.178	15.052
N80	JUNCTION	115.61	115.61	0	00:10	6.107	6.107
N82	JUNCTION	4.25	4.25	0	00:35	0.317	0.317
N83	JUNCTION	1.23	1.23	0	01:05	0.098	0.098
N84	JUNCTION	10.04	10.04	0	01:05	1.130	1.129
N85	JUNCTION	23.31	23.31	0	00:10	1.995	1.994
N85A	JUNCTION	0.00	7.99	0	02:02	0.000	1.705
N86	JUNCTION	13.88	13.88	0	01:05	1.406	1.406
N87	JUNCTION	50.89	50.89	0	00:10	4.427	4.426
N88	JUNCTION	15.80	15.80	0	00:10	1.301	1.301

N89	JUNCTION	11.58	11.58	0	00:10	0.494	0.494
N9	JUNCTION	73.00	73.00	0	00:10	5.054	5.054
N90	JUNCTION	22.17	22.17	0	00:10	0.949	0.949
N91	JUNCTION	25.22	25.22	0	00:10	2.632	2.631
N92	JUNCTION	441.40	752.65	0	01:05	46.536	285.464
N93	JUNCTION	6.49	6.49	0	00:10	0.455	0.455
N94	JUNCTION	10.60	65.72	0	01:44	5.294	15.239
N95	JUNCTION	26.13	80.78	0	00:21	3.450	9.343
N96	JUNCTION	86.69	86.69	0	00:10	5.850	5.850
N97	JUNCTION	241.50	242.60	0	00:15	15.571	27.981
N98	JUNCTION	122.09	196.03	0	01:28	8.204	39.001
N99	JUNCTION	8.22	8.22	0	01:05	0.680	0.680
N111A	JUNCTION	0.00	121.53	0	01:27	0.000	17.158
N111	JUNCTION	66.02	212.00	0	00:15	3.491	18.862
N131	JUNCTION	43.72	43.72	0	00:10	2.371	2.371
N112	JUNCTION	70.59	140.06	0	00:15	4.198	13.495
N132	JUNCTION	154.71	167.00	0	00:15	9.297	10.723
N130	JUNCTION	31.74	31.74	0	00:10	1.406	1.406
N137	JUNCTION	50.83	50.83	0	00:10	2.322	2.322
N126	JUNCTION	102.79	102.79	0	00:15	5.034	5.034
N8A	JUNCTION	21.90	223.65	0	00:42	0.867	14.024
N127	JUNCTION	0.00	209.98	0	00:43	0.000	14.027
N128	JUNCTION	0.00	150.36	0	01:29	0.000	23.110
N129	JUNCTION	101.61	101.61	0	00:10	6.398	6.398
N133	JUNCTION	67.43	138.57	0	00:10	3.458	12.374
N134	JUNCTION	54.66	130.63	0	00:10	3.339	9.470
N135	JUNCTION	96.47	96.47	0	00:10	6.194	6.194
N113	JUNCTION	42.29	110.69	0	00:11	1.954	11.094
N116	JUNCTION	37.36	37.36	0	00:10	2.233	2.233
N117	JUNCTION	66.64	66.64	0	00:15	4.024	4.024
N114	JUNCTION	51.38	51.40	0	00:10	3.108	3.935
N115	JUNCTION	28.77	54.81	0	00:10	1.126	5.902
N118	JUNCTION	66.11	72.36	0	00:15	3.135	6.018
N119	JUNCTION	130.30	130.30	0	00:10	5.853	5.853
N120	JUNCTION	192.23	209.44	0	00:15	12.510	18.656
N121	JUNCTION	21.77	21.77	0	00:10	0.877	0.877
N122	JUNCTION	163.71	163.71	0	00:15	10.483	10.483
N123	JUNCTION	106.82	156.53	0	00:15	6.535	16.524
N124	JUNCTION	140.59	140.59	0	00:15	8.488	8.488
N125	JUNCTION	87.22	87.22	0	00:10	4.125	4.125
N136	JUNCTION	42.96	42.96	0	01:05	3.606	3.605
N96A	JUNCTION	0.00	85.90	0	00:11	0.000	5.849
OUT6	JUNCTION	1.11	445.56	0	04:22	0.108	171.932
OUT4	JUNCTION	0.00	512.16	0	03:37	0.000	202.442
OUT3	JUNCTION	2.46	555.14	0	03:30	0.319	222.242
OUT5	JUNCTION	0.00	491.51	0	04:01	0.000	193.973
N138	JUNCTION	58.46	58.46	0	01:05	15.064	15.063
N139	JUNCTION	28.61	28.61	0	00:10	1.455	1.455
N142	JUNCTION	6.24	6.24	0	00:10	0.302	0.302
N136A	JUNCTION	0.00	42.85	0	01:05	0.000	3.605
N77A	JUNCTION	0.00	15.36	0	01:05	0.000	1.809
N44A_	JUNCTION	0.00	0.00	0	00:00	0.000	0.000
N44A	JUNCTION	0.00	219.31	0	01:06	0.000	35.594
N126A	JUNCTION	0.00	75.29	0	00:40	0.000	4.779
N127A	JUNCTION	0.00	107.32	0	01:18	0.000	11.390
N128A	JUNCTION	0.00	148.85	0	00:10	0.000	23.105
N129A	JUNCTION	92.39	219.30	0	00:13	7.621	24.921
N130A	JUNCTION	0.00	16.65	0	01:06	0.000	1.291
N137A	JUNCTION	0.00	16.70	0	01:07	0.000	1.424
N132A	JUNCTION	0.00	75.11	0	01:16	0.000	9.296
N131A	JUNCTION	0.00	12.00	0	01:32	0.000	1.876
N116A	JUNCTION	0.00	17.27	0	01:15	0.000	1.961
N117A	JUNCTION	0.00	12.01	0	02:51	0.000	2.816
N118A	JUNCTION	0.00	74.67	0	00:16	0.000	6.016
N119A	JUNCTION	0.00	7.99	0	04:34	0.000	2.881
N120A	JUNCTION	0.00	107.51	0	01:15	0.000	17.080
N121A	JUNCTION	0.00	2.71	0	01:42	0.000	0.538
N122A	JUNCTION	0.00	8.03	0	13:02	0.000	4.103
N123A	JUNCTION	0.00	109.63	0	01:22	0.000	15.690
N125A	JUNCTION	0.00	17.25	0	01:41	0.000	2.878
N124A	JUNCTION	0.00	50.44	0	01:25	0.000	7.081
N43	JUNCTION	0.00	219.00	0	01:08	0.000	35.567

N43A	JUNCTION	0.00	219.00	0	01:08	0.000	35.566
N76A	JUNCTION	0.00	36.36	0	01:05	0.000	7.522
N145	JUNCTION	40.10	40.10	0	00:15	1.038	1.038
N145A	JUNCTION	0.00	31.48	0	00:23	0.000	1.002
N73A	JUNCTION	0.00	67.92	0	00:39	0.000	6.601
N74A	JUNCTION	0.00	18.16	0	01:05	0.000	2.776
N72A	JUNCTION	0.00	95.01	0	01:03	0.000	11.467
N71A	JUNCTION	0.00	67.32	0	01:27	0.000	11.182
N70A	JUNCTION	0.00	73.22	0	00:35	0.000	11.777
N22A	JUNCTION	0.00	53.41	0	03:46	0.000	16.464
N144	JUNCTION	14.45	105.22	0	00:15	1.064	5.150
N144A	JUNCTION	0.00	98.32	0	00:14	0.000	5.088
N79A	JUNCTION	0.00	91.32	0	00:15	0.000	4.086
N78A	JUNCTION	0.00	107.37	0	00:15	0.000	6.073
N80A	JUNCTION	0.00	14.59	0	03:19	0.000	3.814
N106	JUNCTION	265.57	267.43	0	00:15	16.625	20.460
N106A	JUNCTION	0.00	263.78	0	00:14	0.000	20.451
N146A	JUNCTION	0.00	17.22	0	00:10	0.000	0.811
N146	JUNCTION	18.95	18.95	0	00:10	0.813	0.813
N81	JUNCTION	449.31	472.59	0	01:05	33.283	152.863
N98A	JUNCTION	0.00	321.93	0	01:28	0.000	91.791
N86A	JUNCTION	0.00	7.88	0	01:38	0.000	1.309
N67A	JUNCTION	0.00	138.52	0	01:16	0.000	19.739
N147A	JUNCTION	0.00	24.30	0	00:10	0.000	3.073
N147	JUNCTION	25.11	25.11	0	00:10	3.074	3.074
N10A	JUNCTION	38.10	88.68	0	01:05	9.588	31.655
S17W_out	JUNCTION	0.00	14.21	0	00:27	0.000	2.268
S17E_out	JUNCTION	0.00	21.29	0	01:25	0.000	3.568
S17_out	JUNCTION	0.00	20.08	0	03:25	0.000	5.424
N12A	JUNCTION	0.00	14.77	0	00:08	0.000	9.901
OUT1	OUTFALL	0.00	11.51	0	00:07	0.000	7.718
OUT2	OUTFALL	0.00	77.87	0	03:05	0.000	31.688
OUT7	OUTFALL	0.00	19.32	0	01:06	0.000	2.355
OUT8	OUTFALL	0.00	11.07	0	01:05	0.000	1.324
OUT9	OUTFALL	0.00	40.44	0	00:10	0.000	3.347
OUT10	OUTFALL	0.00	6.35	0	01:05	0.000	0.727
OUT11	OUTFALL	0.00	8.22	0	01:05	0.000	0.680
OUT12	OUTFALL	0.00	72.16	0	00:20	0.000	2.478
OUT13	OUTFALL	0.00	109.00	0	00:09	0.000	7.221
OUT14	OUTFALL	0.00	32.23	0	00:20	0.000	1.261
OUT15	OUTFALL	0.00	65.83	0	00:20	0.000	2.658
OUT16	OUTFALL	171.67	314.95	0	00:15	18.177	37.975
OUT17	OUTFALL	0.00	300.94	0	00:15	0.000	15.723
OUT18	OUTFALL	0.00	33.61	0	00:11	0.000	13.529
OUT19	OUTFALL	0.00	26.89	0	00:20	0.000	0.891
OUT20	OUTFALL	0.00	752.65	0	01:05	0.000	285.464
OUT21	OUTFALL	0.00	15.46	0	01:05	0.000	1.544
OUT22	OUTFALL	0.00	50.33	0	00:10	0.000	5.513
OUT23	OUTFALL	0.00	50.89	0	00:10	0.000	4.426
OUT24	OUTFALL	0.00	15.80	0	00:10	0.000	1.301
OUT25	OUTFALL	0.00	11.58	0	00:10	0.000	0.494
OUT27	OUTFALL	0.00	6.49	0	00:10	0.000	0.455
OUT26	OUTFALL	0.00	167.31	0	00:10	0.000	15.864
OUT28	OUTFALL	0.00	22.84	0	00:10	0.000	1.188
N44	DIVIDER	46.16	219.31	0	01:06	5.874	35.595
S17W	STORAGE	64.97	64.97	0	00:15	3.074	3.074
S17E	STORAGE	26.14	38.07	0	00:35	1.313	3.580
S17	STORAGE	92.87	102.33	0	00:20	3.382	6.950
S56	STORAGE	0.00	102.68	0	01:05	0.000	16.280
S57	STORAGE	0.00	22.39	0	01:05	0.000	2.818
S60	STORAGE	0.00	338.49	0	00:15	0.000	18.114
S58	STORAGE	0.00	118.98	0	01:05	0.000	10.879
S61	STORAGE	0.00	131.39	0	00:15	0.000	12.416
S138	STORAGE	0.00	58.46	0	01:05	0.000	15.063

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Node Surcharge Summary
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Surcharging occurs when water rises above the top of the highest conduit.

Node	Type	Hours Surcharged	Max. Height Above Crown Feet	Min. Depth Below Rim Feet
N1	JUNCTION	24.37	0.000	0.000
N100	JUNCTION	25.01	0.000	10.000
N101	JUNCTION	25.01	0.000	10.000
N102	JUNCTION	25.01	0.000	10.000
N105	JUNCTION	25.01	0.000	10.000
N109	JUNCTION	25.01	0.000	10.000
N110	JUNCTION	25.01	0.000	10.000
N12	JUNCTION	24.88	6.000	0.000
N14	JUNCTION	0.23	0.000	0.000
N15	JUNCTION	1.77	0.000	0.000
N15A	JUNCTION	1.55	0.000	0.000
N16A	JUNCTION	4.62	0.000	0.000
N18A	JUNCTION	0.13	0.000	0.000
N2	JUNCTION	13.26	0.000	0.000
N21	JUNCTION	3.83	0.000	0.000
N22	JUNCTION	3.91	0.000	0.000
N25	JUNCTION	6.32	0.000	0.000
N25A	JUNCTION	6.31	0.000	0.000
N26	JUNCTION	24.11	0.000	0.000
N27	JUNCTION	0.15	0.000	0.000
N28	JUNCTION	0.17	0.000	0.000
N29	JUNCTION	1.02	0.000	0.000
N31	JUNCTION	1.16	0.000	0.000
N34	JUNCTION	1.28	0.000	0.000
N35	JUNCTION	25.01	0.000	10.000
N4	JUNCTION	0.15	0.000	0.000
N40	JUNCTION	8.07	0.000	0.000
N41	JUNCTION	7.78	0.000	0.000
N41A	JUNCTION	7.77	0.000	0.000
N46A	JUNCTION	1.23	0.000	0.000
N51	JUNCTION	1.00	0.000	0.000
N54	JUNCTION	0.21	0.000	0.000
N54A	JUNCTION	0.20	0.000	0.000
N55	JUNCTION	0.09	0.000	0.000
N57	JUNCTION	25.01	0.000	10.000
N58	JUNCTION	25.01	0.000	10.000
N60	JUNCTION	25.01	0.000	10.000
N61	JUNCTION	25.01	0.000	10.000
N62	JUNCTION	0.17	0.000	0.000
N65	JUNCTION	1.41	0.000	0.000
N65A	JUNCTION	1.35	0.000	5.500
N67	JUNCTION	1.12	0.000	0.000
N68	JUNCTION	25.01	0.000	10.000
N6A	JUNCTION	6.00	0.000	0.000
N71	JUNCTION	1.35	0.000	0.000
N73	JUNCTION	0.94	0.000	0.000
N77	JUNCTION	25.01	0.000	10.000
N78	JUNCTION	0.17	0.000	0.000
N7A	JUNCTION	14.71	0.000	0.000
N8	JUNCTION	0.97	0.000	0.000
N80	JUNCTION	3.18	0.000	0.000
N82	JUNCTION	25.01	0.000	10.000
N83	JUNCTION	25.01	0.000	10.000
N84	JUNCTION	25.01	0.000	10.000
N85	JUNCTION	2.19	0.000	0.000
N86	JUNCTION	1.23	0.000	0.000
N87	JUNCTION	25.01	0.000	10.000
N88	JUNCTION	25.01	0.000	10.000
N89	JUNCTION	25.01	0.000	10.000
N90	JUNCTION	25.01	0.000	10.000
N91	JUNCTION	25.01	0.000	10.000
N93	JUNCTION	25.01	0.000	10.000
N99	JUNCTION	25.01	0.000	10.000
N111A	JUNCTION	12.36	0.000	0.000
N111	JUNCTION	1.31	0.000	0.000
N131	JUNCTION	1.50	0.000	0.000
N132	JUNCTION	1.20	0.000	0.000
N130	JUNCTION	0.99	0.000	0.000

N137	JUNCTION	24.93	0.000	0.000
N126	JUNCTION	0.60	0.000	0.000
N127	JUNCTION	1.21	0.000	0.000
N128	JUNCTION	1.38	0.000	0.000
N129	JUNCTION	1.07	0.000	0.000
N133	JUNCTION	1.08	0.000	0.000
N134	JUNCTION	1.05	0.000	0.000
N135	JUNCTION	0.18	0.000	0.000
N113	JUNCTION	0.79	0.000	0.000
N116	JUNCTION	1.13	0.000	0.000
N117	JUNCTION	3.00	0.000	0.000
N114	JUNCTION	1.42	0.000	0.000
N115	JUNCTION	0.48	0.000	0.000
N118	JUNCTION	0.07	0.000	0.000
N119	JUNCTION	6.01	0.000	0.000
N120	JUNCTION	1.16	0.000	0.000
N121	JUNCTION	1.60	0.000	0.000
N122	JUNCTION	12.94	0.000	0.000
N123	JUNCTION	1.20	0.000	0.000
N124	JUNCTION	1.31	0.000	0.000
N125	JUNCTION	1.58	0.000	0.000
N138	JUNCTION	25.01	0.000	0.000
N129A	JUNCTION	1.38	0.000	0.000
N145	JUNCTION	0.23	0.000	0.000
N71A	JUNCTION	1.27	0.000	0.000
N144	JUNCTION	0.44	0.000	0.000
N78A	JUNCTION	0.03	0.000	0.000
N106	JUNCTION	0.07	0.000	0.000
N146	JUNCTION	0.09	0.000	0.000
N67A	JUNCTION	6.19	0.000	0.000
N10A	JUNCTION	24.90	1.300	0.000
S17W	STORAGE	24.80	4.000	0.000
S17E	STORAGE	2.35	1.263	4.237
S56	STORAGE	25.01	1.309	0.691
S57	STORAGE	25.01	1.433	0.567
S60	STORAGE	25.01	1.468	0.532
S58	STORAGE	25.01	1.419	0.581
S61	STORAGE	25.01	1.731	0.269
S138	STORAGE	25.01	1.425	0.575

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Node Flooding Summary
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Flooding refers to all water that overflows a node, whether it ponds or not.

Node	Hours Flooded	Maximum Rate CFS	Time of Max Occurrence days	hr:min	Total Flood Volume Mgal	Maximum Ponded Volume acre-in
N1	24.37	227.52	0	00:37	26.922	0.00
N12	24.88	148.23	0	01:11	41.136	0.00
N14	0.23	27.54	0	00:10	0.109	0.00
N15	1.77	215.45	0	00:12	4.934	0.00
N15A	1.55	0.00	0	00:00	0.000	0.00
N16A	4.62	85.28	0	00:10	1.818	0.00
N18A	0.13	35.14	0	00:10	0.065	0.00
N2	13.26	310.56	0	00:18	23.251	0.00
N21	3.83	56.55	0	00:10	1.346	0.00
N22	3.91	61.12	0	00:15	3.805	0.00
N25	6.32	185.23	0	00:16	7.130	0.00
N25A	6.31	0.00	0	00:00	0.000	0.00
N26	24.11	101.65	0	00:18	9.988	0.00
N27	0.15	9.01	0	00:10	0.016	0.00
N28	0.17	6.41	0	00:10	0.014	0.00
N29	1.02	45.68	0	00:20	0.584	0.00
N31	1.16	110.78	0	00:21	2.071	0.00
N34	1.28	119.83	0	00:16	2.400	0.00
N4	0.15	2.97	0	00:11	0.006	0.00
N40	8.07	13.23	0	01:05	1.157	0.00

N41	7.78	227.13	0	01:15	17.440	0.00
N41A	7.77	0.00	0	00:00	0.000	0.00
N46A	1.23	256.99	0	00:16	3.641	0.00
N51	1.00	89.44	0	00:19	1.098	0.00
N54	0.21	48.16	0	00:16	0.167	0.00
N54A	0.20	0.00	0	00:00	0.000	0.00
N55	0.09	7.27	0	00:10	0.009	0.00
N62	0.17	28.65	0	00:10	0.072	0.00
N65	1.41	178.17	0	00:15	2.807	0.00
N67	1.12	150.08	0	00:15	2.116	0.00
N6A	6.00	14.75	0	00:10	0.306	0.00
N71	1.35	38.40	0	01:04	0.910	0.00
N73	0.94	49.18	0	00:15	0.357	0.00
N78	0.17	8.15	0	00:14	0.014	0.00
N7A	14.71	111.88	0	00:10	4.632	0.00
N8	0.97	215.57	0	00:15	1.980	0.00
N80	3.18	101.65	0	00:10	2.306	0.00
N85	2.19	15.55	0	00:10	0.291	0.00
N86	1.23	6.42	0	01:05	0.097	0.00
N111A	12.36	101.83	0	01:27	8.408	0.00
N111	1.31	95.95	0	00:15	1.705	0.00
N131	1.50	31.99	0	00:10	0.496	0.00
N132	1.20	95.87	0	00:15	1.429	0.00
N130	0.99	15.39	0	00:10	0.115	0.00
N137	24.93	50.12	0	00:10	2.190	0.00
N126	0.60	32.19	0	00:15	0.257	0.00
N127	1.21	105.07	0	00:44	2.640	0.00
N128	1.38	7.84	0	01:29	0.007	0.00
N129	1.07	54.16	0	00:10	0.514	0.00
N133	1.08	36.85	0	00:10	0.454	0.00
N134	1.05	56.63	0	00:10	0.558	0.00
N135	0.18	24.78	0	00:10	0.068	0.00
N113	0.79	23.22	0	00:11	0.258	0.00
N116	1.13	21.38	0	00:10	0.273	0.00
N117	3.00	54.99	0	00:15	1.210	0.00
N114	1.42	30.49	0	00:10	0.664	0.00
N115	0.48	6.71	0	00:11	0.038	0.00
N118	0.07	1.00	0	00:15	0.001	0.00
N119	6.01	122.25	0	00:10	2.976	0.00
N120	1.16	107.75	0	00:15	1.577	0.00
N121	1.60	19.01	0	00:10	0.340	0.00
N122	12.94	155.30	0	00:15	6.382	0.00
N123	1.20	54.92	0	00:15	0.838	0.00
N124	1.31	92.45	0	00:15	1.409	0.00
N125	1.58	70.60	0	00:10	1.250	0.00
N129A	1.38	76.89	0	00:14	1.813	0.00
N145	0.23	10.29	0	00:15	0.038	0.00
N71A	1.27	0.00	0	00:00	0.000	0.00
N144	0.44	12.31	0	00:16	0.068	0.00
N78A	0.03	0.00	0	00:00	0.000	0.00
N106	0.07	14.17	0	00:15	0.014	0.00
N146	0.09	2.74	0	00:10	0.003	0.00
N67A	6.19	104.07	0	01:16	6.301	0.00
N10A	24.90	77.04	0	01:05	23.937	0.00
S17W	1.00	45.11	0	00:35	0.652	0.00

****
Storage Volume Summary
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Storage Unit	Average Volume 1000 ft3	Avg Pcnt Full	Maximum Volume 1000 ft3	Max Pcnt Full	Time of Max Occurrence days hr:min	Maximum Outflow CFS
S17W	27.690	44	62.566	100	0 00:27	14.21
S17E	10.924	6	66.819	37	0 01:25	21.29
S17	258.352	47	363.657	66	0 03:25	20.08
S56	1529.953	30	2176.417	43	1 01:00	0.00
S57	269.961	37	376.673	51	1 01:00	0.00
S60	1927.905	43	2421.679	54	1 01:00	0.00

S58	1075.572	37	1454.404	50	1	01:00	0.00
S61	1142.618	52	1659.896	75	1	01:00	0.00
S138	1307.933	33	2013.761	51	1	01:00	0.00

****
Outfall Loading Summary
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Outfall Node	Flow Freq. Pcnt.	Avg. Flow CFS	Max. Flow CFS	Total Volume Mgal
OUT1	99.67	11.50	11.51	7.718
OUT2	99.67	47.22	77.87	31.688
OUT7	99.67	3.51	19.32	2.355
OUT8	99.67	1.97	11.07	1.324
OUT9	99.67	4.99	40.44	3.347
OUT10	99.67	1.08	6.35	0.727
OUT11	99.67	1.01	8.22	0.680
OUT12	99.63	3.69	72.16	2.478
OUT13	99.67	10.76	109.00	7.221
OUT14	99.63	1.88	32.23	1.261
OUT15	99.67	3.96	65.83	2.658
OUT16	99.67	56.58	314.95	37.975
OUT17	99.67	23.43	300.94	15.723
OUT18	99.50	20.19	33.61	13.529
OUT19	99.67	1.33	26.89	0.891
OUT20	99.67	425.35	752.65	285.464
OUT21	99.67	2.30	15.46	1.544
OUT22	99.67	8.21	50.33	5.513
OUT23	99.67	6.60	50.89	4.426
OUT24	99.67	1.94	15.80	1.301
OUT25	99.67	0.74	11.58	0.494
OUT27	99.67	0.68	6.49	0.455
OUT26	99.67	23.64	167.31	15.864
OUT28	99.63	1.77	22.84	1.188
System	99.66	664.32	1794.04	445.826

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Link Flow Summary
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Link	Type	Maximum Flow CFS	Time of Max Occurrence days hr:min	Maximum Velocity ft/sec	Max/ Full Flow	Max/ Full Depth
C100-10	DUMMY	6.35	0 01:05			
C10-10A	CONDUIT	60.79	0 00:43	2.51	0.53	0.72
C101-9	DUMMY	40.44	0 00:10			
C103-97	CONDUIT	26.82	0 04:34	0.90	0.01	0.08
C104-26	DUMMY	167.31	0 00:10			
C105-110	DUMMY	15.49	0 01:05			
C107-7	DUMMY	19.32	0 01:06			
C108-16	DUMMY	170.66	0 00:35			
C109-21	DUMMY	15.46	0 01:05			
C1-10	CONDUIT	27.64	1 00:14	9.36	1.08	1.00
C11-2	CONDUIT	77.87	0 03:05	9.67	0.42	0.40
C12A-11	CONDUIT	14.77	0 19:05	0.62	0.01	0.06
C102-8	DUMMY	11.07	0 01:05			
C13-12	CONDUIT	52.08	0 01:18	1.52	0.21	0.51
C14-14A	CONDUIT	76.17	0 00:20	8.45	1.07	1.00
C14A-12	CONDUIT	61.33	0 00:40	1.99	0.01	0.08
C15-15A	CONDUIT	104.91	0 01:41	9.00	1.20	1.00
C15A-22	CONDUIT	96.86	0 01:43	4.42	0.48	0.71
C16-16A	CONDUIT	121.52	0 00:10	15.24	0.42	0.44
C16A-18	CONDUIT	34.99	0 00:08	4.38	1.00	1.00
C61-S61	DUMMY	131.39	0 00:15			

C17-17A	CONDUIT	45.67	0	00:10	8.94	0.13	0.21
C17A-11	CONDUIT	33.16	0	01:10	1.44	0.01	0.06
C18-18A	CONDUIT	60.64	0	00:10	7.90	0.12	0.19
C18A-54	CONDUIT	201.66	0	00:17	5.39	1.00	1.00
C19-13	CONDUIT	4.73	0	01:05	3.25	0.04	0.22
C20-20A	CONDUIT	33.48	0	01:05	6.24	0.23	0.30
C20A-12	CONDUIT	29.56	0	01:35	1.38	0.01	0.05
C66-17	DUMMY	300.94	0	00:15			
C21-21A	CONDUIT	9.09	0	03:42	3.12	1.07	1.00
C2-13	CONDUIT	51.91	0	13:01	8.79	1.08	1.00
C21A-20	CONDUIT	8.66	0	03:59	0.94	0.00	0.02
C22A-4	CONDUIT	52.25	0	03:46	5.30	0.16	0.42
C23-25	CONDUIT	213.11	0	00:16	5.89	0.35	0.64
C24-17	CONDUIT	4.15	0	01:55	0.75	0.00	0.01
C25-25A	CONDUIT	30.42	0	06:30	1.69	1.08	1.00
C25A-25B	CHANNEL	30.26	0	06:30	2.79	0.07	0.32
C25B-26	CHANNEL	50.02	0	00:17	3.46	0.10	0.38
C26-26A	CONDUIT	10.81	0	18:39	3.69	1.08	1.00
C26A-29	CONDUIT	10.44	0	18:40	1.70	0.13	0.46
C27-25B	CONDUIT	22.06	0	00:17	7.77	1.05	1.00
C28-28A	CONDUIT	16.90	0	00:17	5.83	1.06	1.00
C28A-30	CONDUIT	16.68	0	00:17	6.15	0.10	0.41
C29-30	CONDUIT	34.35	0	01:09	2.50	1.12	1.00
C30-30A	CONDUIT	47.23	0	00:18	3.84	0.71	0.88
C30A-30B	CONDUIT	68.39	0	00:15	7.30	0.48	0.49
C30B-31	CONDUIT	64.92	0	00:22	2.74	0.08	0.27
C3-1	CONDUIT	179.17	0	01:08	4.01	0.90	0.96
C31-31A	CONDUIT	81.93	0	01:19	4.31	1.07	1.00
C31A-32	CONDUIT	80.81	0	01:21	1.52	0.30	0.60
C32-3	CONDUIT	122.92	0	00:35	9.93	0.04	0.24
C33-33A	CONDUIT	54.15	0	01:29	5.05	0.97	0.80
C33A-4	CONDUIT	53.69	0	01:33	2.60	0.04	0.25
C34-34A	CONDUIT	53.55	0	01:25	7.98	1.09	1.00
C34A-33	CONDUIT	53.33	0	01:29	1.92	0.06	0.27
C35-15	DUMMY	65.83	0	00:20			
C36-5	CONDUIT	168.13	0	00:18	10.73	0.91	0.75
C37-120	CONDUIT	21.84	0	00:25	6.43	0.07	0.18
C38-38A	CONDUIT	160.74	0	00:35	10.56	0.87	0.72
C39-39A	CONDUIT	134.50	0	01:05	13.66	0.29	0.33
C39A-98A	CONDUIT	134.26	0	01:06	3.81	0.02	0.18
C40-40A	CONDUIT	93.96	0	00:27	8.85	1.05	1.00
C40A-39	CONDUIT	91.17	0	08:32	2.10	0.19	0.50
C41-41A	CONDUIT	92.67	0	08:10	8.87	1.05	1.00
C41A-40	CONDUIT	90.60	0	08:10	2.50	0.30	0.59
C42-41	CHANNEL	284.72	0	01:17	3.45	0.02	0.21
C44A-43	CHANNEL	219.00	0	01:08	5.33	0.05	0.35
C4-4A	CONDUIT	61.03	0	00:11	6.81	1.05	1.00
C45-44	CHANNEL	191.46	0	00:25	5.53	0.02	0.33
C46-46A	CONDUIT	404.27	0	00:16	18.23	0.32	0.37
C46A-45	CHANNEL	146.90	0	00:10	8.37	1.00	1.00
C47-46	CHANNEL	361.31	0	00:16	6.30	0.92	0.96
C48-47	CONDUIT	328.32	0	00:16	9.63	0.99	0.82
C49-48	CONDUIT	208.31	0	00:15	10.06	0.49	0.49
C4A-51	CONDUIT	59.29	0	00:18	3.52	0.33	0.60
C50-49	CONDUIT	17.98	0	00:10	4.34	0.04	0.10
C51-2	CONDUIT	185.22	0	00:19	4.91	1.00	1.00
C52-107	CONDUIT	11.59	0	01:05	13.68	0.21	0.31
C53-53A	CONDUIT	10.79	0	00:10	12.65	0.48	0.49
C53A-107	CONDUIT	8.54	0	01:09	2.49	0.02	0.18
C54-54A	CONDUIT	215.99	0	00:12	5.55	1.00	1.00
C54A-51	CONDUIT	216.47	0	00:24	6.55	0.82	0.91
C55-55A	CONDUIT	25.54	0	00:09	6.55	1.00	1.00
C5-5A	CONDUIT	56.31	0	00:10	6.74	0.97	0.79
C55A-56	CONDUIT	18.04	0	01:10	1.58	0.00	0.03
C56-S56	DUMMY	102.68	0	01:05			
C57-S57	DUMMY	22.39	0	01:05			
C58-S58	DUMMY	118.98	0	01:05			
C59-12	CONDUIT	72.16	0	00:20	6.18	0.10	0.18
C5A-1	CONDUIT	78.23	0	00:17	5.46	0.27	0.53
C60-S60	DUMMY	338.49	0	00:15			
C62-13	CONDUIT	109.00	0	00:09	9.39	1.07	1.00
C63-14	CONDUIT	32.23	0	00:20	7.19	0.68	0.61

C64-28	CONDUIT	22.84	0	00:10	5.56	0.71	0.62
C65-65A	CONDUIT	85.03	0	01:29	5.86	1.06	1.00
C65A-108	CONDUIT	82.62	0	01:36	2.21	0.02	0.09
C6-6A	CONDUIT	27.79	0	00:10	6.95	0.15	0.26
C67-67A	CONDUIT	138.52	0	01:16	6.21	1.01	1.00
C68-19	DUMMY	26.89	0	00:20			
C69-98	CONDUIT	171.40	0	01:42	2.02	0.08	0.22
C6A-5	CONDUIT	12.99	0	00:08	3.71	1.00	1.00
C70-70A	CONDUIT	73.22	0	00:35	7.56	0.75	0.65
C71-71A	CONDUIT	67.32	0	01:27	5.83	1.07	1.00
C72-72A	CONDUIT	95.01	0	01:03	10.32	0.68	0.56
C73-73A	CONDUIT	67.92	0	00:39	10.47	1.07	1.00
C74-74A	CONDUIT	18.16	0	01:05	5.93	0.41	0.45
C75-97	CONDUIT	1.58	0	07:35	0.39	0.00	0.01
C76A-42	CONDUIT	32.13	0	01:15	1.63	0.00	0.05
C77A-41	CHANNEL	14.99	0	01:08	5.34	0.00	0.09
C7-7A	CONDUIT	17.48	0	00:20	4.36	0.10	0.18
C78A-66	CONDUIT	101.04	0	00:41	2.66	0.02	0.10
C79-79A	CONDUIT	91.32	0	00:15	14.92	0.68	0.61
C7A-6	CONDUIT	11.47	0	00:07	3.06	1.00	1.00
C106A-67	CONDUIT	262.01	0	00:15	4.86	0.15	0.34
C82-109	DUMMY	4.25	0	00:35			
C8-8A	CONDUIT	210.76	0	00:42	8.91	1.20	1.00
C83-109	DUMMY	1.23	0	01:05			
C84-109	DUMMY	10.04	0	01:05			
C85-85A	CONDUIT	7.99	0	02:02	4.83	1.08	1.00
C85A-92	CONDUIT	7.18	0	03:15	1.01	0.00	0.02
C86A-92	CONDUIT	7.30	0	01:59	1.16	0.00	0.02
C87-23	DUMMY	50.89	0	00:10			
C88-24	DUMMY	15.80	0	00:10			
C89-25	DUMMY	11.58	0	00:10			
C90-110	DUMMY	22.17	0	00:10			
C9-10	CONDUIT	57.79	0	00:17	0.88	0.66	0.84
C91-110	DUMMY	25.22	0	00:10			
C92-20	DUMMY	752.65	0	01:05			
C93-27	DUMMY	6.49	0	00:10			
C94-92	CONDUIT	64.46	0	02:05	1.82	0.02	0.09
C95-94	CONDUIT	56.76	0	01:43	1.13	0.03	0.13
C96-96A	CONDUIT	85.90	0	00:11	5.54	0.41	0.40
C97-81	CONDUIT	134.47	0	01:15	1.17	0.14	0.29
C98A-81	CONDUIT	307.39	0	02:22	1.77	0.22	0.41
C99-11	DUMMY	8.22	0	01:05			
C111A-7	CONDUIT	16.91	0	00:07	4.84	1.00	1.00
C111-111A	CONDUIT	121.53	0	01:27	7.80	1.05	1.00
C112-111	CONDUIT	139.70	0	00:15	20.44	0.56	0.54
C132A-12	CONDUIT	72.24	0	01:18	8.86	0.24	0.33
C131A-111	CONDUIT	11.52	0	01:36	5.17	0.04	0.13
C130A-137A	CONDUIT	16.50	0	01:07	6.26	0.75	0.64
C137A-132	CONDUIT	16.74	0	01:09	6.20	0.05	0.16
C126A-8	CONDUIT	70.53	0	00:49	9.86	0.24	0.33
C8A-127	CONDUIT	209.98	0	00:43	8.26	0.39	0.70
C127A-129A	CONDUIT	103.55	0	01:20	10.75	0.31	0.38
C128A-3	CONDUIT	146.46	0	01:32	2.40	0.04	0.15
C129A-128	CONDUIT	150.36	0	01:29	8.62	1.06	1.00
C134-133	CONDUIT	76.93	0	01:11	8.76	1.08	1.00
C135-134	CONDUIT	76.96	0	00:20	8.83	1.08	1.00
C113-23	CONDUIT	100.88	0	00:13	9.26	1.15	0.97
C114-113	CONDUIT	22.24	0	01:33	7.79	1.08	1.00
C115-113	CONDUIT	48.03	0	00:11	7.43	1.00	1.00
C117A-115	CONDUIT	11.70	0	02:52	5.15	0.04	0.13
C116A-115	CONDUIT	16.73	0	01:16	5.81	0.06	0.16
C118A-34	CONDUIT	72.20	0	00:17	8.81	0.24	0.33
C119A-118	CONDUIT	7.88	0	04:36	4.58	0.03	0.11
C120A-36	CONDUIT	105.23	0	01:18	9.84	0.35	0.41
C121A-120	CONDUIT	2.61	0	01:46	3.37	0.01	0.07
C122A-120	CONDUIT	7.86	0	13:03	4.57	0.03	0.11
C123A-38	CONDUIT	104.63	0	01:25	9.82	0.35	0.41
C124A-123	CONDUIT	48.79	0	01:27	7.98	0.16	0.27
C125A-123	CONDUIT	16.33	0	01:43	5.81	0.05	0.16
C136A-104	CONDUIT	37.19	0	01:18	0.97	0.02	0.10
C96A-95	CONDUIT	69.34	0	00:21	1.31	0.03	0.13
C38A-6	CONDUIT	150.36	0	01:10	2.47	0.27	0.46

C6-5	CONDUIT	445.56	0	04:23	2.16	0.28	0.48
C5-4	CONDUIT	491.46	0	04:06	2.34	0.29	0.49
C4-3	CONDUIT	512.16	0	03:42	2.36	0.31	0.50
C3-92	CONDUIT	554.33	0	03:42	4.05	0.15	0.33
C110-22	DUMMY	50.33	0	00:10			
C138-S138	DUMMY	58.46	0	01:05			
C139-5A	CONDUIT	27.85	0	00:11	1.35	0.01	0.05
C142-2	CONDUIT	6.15	0	00:10	4.53	0.41	0.45
C136-136A	CONDUIT	42.85	0	01:05	3.28	0.01	0.04
C77-77A	DUMMY	15.36	0	01:05			
C44-44A	CONDUIT	219.31	0	01:06	24.05	0.69	0.56
C44-44A_	CONDUIT	0.00	0	00:00	0.00	0.00	0.00
C44A_-44A	DUMMY	0.00	0	00:00			
C126-126A	CONDUIT	75.29	0	00:40	8.39	1.07	1.00
C127-127A	CONDUIT	107.32	0	01:18	9.20	1.07	1.00
C128-128A	CONDUIT	148.85	0	00:10	8.60	1.05	0.93
C129-129A	CONDUIT	50.97	0	01:13	8.02	1.08	1.00
C130-130A	CONDUIT	16.65	0	01:06	5.90	1.04	1.00
C137-137A	CONDUIT	0.20	0	00:06	0.16	1.00	1.00
C132-132A	CONDUIT	75.11	0	01:16	8.43	1.07	1.00
C131-131A	CONDUIT	12.00	0	01:32	5.38	1.07	1.00
C133-15	CONDUIT	109.57	0	00:12	9.74	1.08	1.00
C116-116A	CONDUIT	17.27	0	01:15	6.01	1.08	1.00
C117-117A	CONDUIT	12.01	0	02:51	5.42	1.07	1.00
C119-119A	CONDUIT	7.99	0	04:34	4.90	1.07	1.00
C118-118A	CONDUIT	74.67	0	00:16	8.64	1.05	0.91
C120-120A	CONDUIT	107.51	0	01:15	9.42	1.06	1.00
C121-121A	CONDUIT	2.71	0	01:42	3.80	1.08	1.00
C122-122A	CONDUIT	8.03	0	13:02	4.92	1.08	1.00
C124-124A	CONDUIT	50.44	0	01:25	7.81	1.07	1.00
C125-125A	CONDUIT	17.25	0	01:41	6.00	1.08	1.00
C123-123A	CONDUIT	109.63	0	01:22	9.46	1.08	1.00
C76-76A	CONDUIT	36.36	0	01:05	6.43	0.91	0.75
C43-43A	CONDUIT	219.00	0	01:08	8.59	0.55	0.53
C43A-42	CHANNEL	217.95	0	01:14	2.53	0.13	0.69
C145-145A	CONDUIT	31.48	0	00:23	11.00	1.06	1.00
C145A-103	CONDUIT	24.35	0	00:41	1.08	0.01	0.06
C73A-72	CONDUIT	67.17	0	01:03	1.62	0.02	0.10
C74A-72	CONDUIT	17.53	0	01:09	1.10	0.00	0.04
C72A-71	CONDUIT	94.81	0	01:03	2.99	0.01	0.08
C71A-70	CONDUIT	66.01	0	01:28	2.17	0.01	0.05
C70A-69	CONDUIT	73.06	0	00:37	2.26	0.01	0.08
C22-22A	CONDUIT	53.41	0	03:46	9.02	1.08	1.00
C79A-144	CONDUIT	91.28	0	00:16	3.12	0.01	0.07
C144-144A	CONDUIT	98.32	0	00:14	7.73	1.06	1.00
C144A-78	CONDUIT	97.71	0	00:14	2.91	0.02	0.08
C78-78A	CONDUIT	107.37	0	00:15	9.59	1.04	1.00
C80A-106	CONDUIT	14.06	0	03:26	1.25	0.00	0.03
C106-106A	CONDUIT	263.78	0	00:14	19.37	1.05	1.00
C80-80A	CONDUIT	14.59	0	03:19	1.64	1.08	1.00
C146-146A	CONDUIT	17.22	0	00:10	6.02	1.07	1.00
C146A-114	CONDUIT	13.60	0	00:40	1.38	0.00	0.03
C98-98A	CONDUIT	195.89	0	01:41	1.43	0.15	0.33
C81-6	CONDUIT	403.07	0	04:42	0.37	0.77	0.85
C86-86A	CONDUIT	7.88	0	01:38	4.90	1.06	1.00
C67A-18	CONDUIT	33.61	0	00:11	0.21	1.00	1.00
C147-147A	CONDUIT	24.30	0	00:10	7.55	0.72	0.63
C147A-69	CONDUIT	22.22	0	01:07	1.62	0.00	0.03
C10A-1	CONDUIT	11.51	0	00:07	6.99	1.00	1.00
S17_out-16	CONDUIT	20.01	0	03:50	0.83	0.01	0.06
S17E_out-S17	CONDUIT	21.29	0	01:25	15.22	0.02	0.10
S17W_out-S17E	CONDUIT	14.21	0	00:28	6.33	0.27	0.35
C12-12A	CONDUIT	14.77	0	00:08	9.33	1.00	1.00
S17W-S17W_out	DUMMY	14.21	0	00:27			
S17E-S17E_out	DUMMY	21.29	0	01:25			
S17-S17_out	DUMMY	20.08	0	03:25			

****
Conduit Surcharge Summary
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Conduit	Hours Full Both Ends	Hours Full Upstream	Hours Full Dnstream	Hours Above Full Normal Flow	Hours Capacity Limited
C100-10	0.01	0.01	0.01	25.01	0.01
C101-9	0.01	0.01	0.01	25.01	0.01
C104-26	0.01	0.01	0.01	25.01	0.01
C105-110	0.01	0.01	0.01	25.01	0.01
C107-7	0.01	0.01	0.01	25.01	0.01
C108-16	0.01	0.01	0.01	25.01	0.01
C109-21	0.01	0.01	0.01	25.01	0.01
C1-10	24.11	24.36	24.11	0.26	24.36
C102-8	0.01	0.01	0.01	25.01	0.01
C14-14A	0.19	0.22	0.19	0.23	0.22
C15-15A	1.55	1.77	1.55	0.21	1.77
C16A-18	4.58	4.61	4.59	4.59	4.61
C61-S61	0.01	0.01	0.01	25.01	0.01
C18A-54	0.01	0.12	0.02	0.02	0.12
C66-17	0.01	0.01	0.01	25.01	0.01
C21-21A	3.60	3.83	3.60	3.83	3.83
C2-13	12.92	13.25	12.92	24.45	13.25
C25-25A	6.28	6.31	6.31	6.40	6.31
C26-26A	18.55	24.10	18.55	24.11	24.10
C27-25B	0.11	0.14	0.11	0.04	0.14
C28-28A	0.13	0.16	0.13	0.17	0.16
C29-30	1.01	1.02	1.02	24.22	1.02
C31-31A	1.13	1.15	1.13	3.39	1.15
C34-34A	1.25	1.27	1.27	0.03	1.27
C35-15	0.01	0.01	0.01	25.01	0.01
C40-40A	8.04	8.07	8.05	8.08	8.07
C41-41A	7.76	7.77	7.77	7.78	7.77
C4-4A	0.01	0.14	0.01	8.03	0.14
C46A-45	1.21	1.22	1.21	1.21	1.22
C48-47	0.01	0.01	0.01	1.01	0.01
C51-2	0.88	0.99	0.92	0.92	0.99
C54-54A	0.20	0.20	0.20	0.20	0.20
C55-55A	0.07	0.08	0.08	0.01	0.08
C5-5A	0.01	0.01	0.01	0.54	0.01
C56-S56	0.01	0.01	0.01	25.01	0.01
C57-S57	0.01	0.01	0.01	25.01	0.01
C58-S58	0.01	0.01	0.01	25.01	0.01
C60-S60	0.01	0.01	0.01	25.01	0.01
C62-13	0.13	0.16	0.13	0.16	0.16
C64-28	0.01	0.01	0.01	0.16	0.01
C65-65A	1.35	1.40	1.35	1.42	1.40
C67-67A	1.10	1.11	1.11	3.99	1.11
C68-19	0.01	0.01	0.01	25.01	0.01
C6A-5	5.97	5.99	5.98	5.98	5.99
C70-70A	0.01	0.01	0.01	1.84	0.01
C71-71A	1.27	1.34	1.27	1.35	1.34
C73-73A	0.56	0.93	0.56	0.36	0.93
C7A-6	14.68	14.70	14.70	14.70	14.70
C82-109	0.01	0.01	0.01	25.01	0.01
C8-8A	0.55	0.96	0.55	1.23	0.96
C83-109	0.01	0.01	0.01	25.01	0.01
C84-109	0.01	0.01	0.01	25.01	0.01
C85-85A	1.92	2.18	1.92	2.19	2.18
C87-23	0.01	0.01	0.01	25.01	0.01
C88-24	0.01	0.01	0.01	25.01	0.01
C89-25	0.01	0.01	0.01	25.01	0.01
C90-110	0.01	0.01	0.01	25.01	0.01
C91-110	0.01	0.01	0.01	25.01	0.01
C92-20	0.01	0.01	0.01	25.01	0.01
C93-27	0.01	0.01	0.01	25.01	0.01
C99-11	0.01	0.01	0.01	25.01	0.01
C111A-7	12.34	12.35	12.35	0.01	12.35
C111-111A	1.29	1.30	1.30	2.81	1.30
C129A-128	1.32	1.37	1.32	3.13	1.37
C134-133	1.02	1.04	1.02	0.04	1.04
C135-134	0.14	0.17	0.15	0.18	0.17
C113-23	0.01	0.78	0.01	0.81	0.78

C114-113	1.38	1.41	1.40	0.04	1.41
C115-113	0.45	0.47	0.46	0.46	0.47
C110-22	0.01	0.01	0.01	25.01	0.01
C138-S138	0.01	0.01	0.01	25.01	0.01
C77-77A	0.01	0.01	0.01	25.01	0.01
C44A_-44A	0.01	0.01	0.01	25.01	0.01
C126-126A	0.52	0.59	0.52	0.59	0.59
C127-127A	1.17	1.20	1.17	0.04	1.20
C128-128A	0.01	0.06	0.01	3.13	0.06
C129-129A	1.02	1.06	1.04	0.05	1.06
C130-130A	0.97	0.98	0.97	0.03	0.98
C137-137A	24.92	24.93	24.92	24.92	24.93
C132-132A	1.14	1.19	1.14	1.19	1.19
C131-131A	1.43	1.49	1.43	0.07	1.49
C133-15	0.97	1.06	0.97	0.09	1.06
C116-116A	1.09	1.12	1.10	1.13	1.12
C117-117A	2.73	2.99	2.73	0.28	2.99
C119-119A	4.47	6.00	4.47	6.01	6.00
C118-118A	0.01	0.06	0.01	0.06	0.06
C120-120A	1.10	1.15	1.10	1.16	1.15
C121-121A	1.58	1.59	1.59	1.63	1.59
C122-122A	12.92	12.93	12.93	0.06	12.93
C124-124A	1.27	1.30	1.27	0.05	1.30
C125-125A	1.55	1.57	1.57	0.03	1.57
C123-123A	1.16	1.19	1.17	0.06	1.19
C145-145A	0.17	0.22	0.17	0.04	0.22
C22-22A	3.62	3.90	3.62	12.13	3.90
C144-144A	0.38	0.43	0.38	0.44	0.43
C78-78A	0.03	0.16	0.03	0.13	0.16
C106-106A	0.04	0.06	0.05	0.03	0.06
C80-80A	3.15	3.17	3.17	6.83	3.17
C146-146A	0.03	0.08	0.03	0.06	0.08
C86-86A	1.10	1.21	1.10	0.11	1.21
C67A-18	6.12	6.18	6.18	6.18	6.18
C10A-1	24.89	24.90	24.89	24.89	24.90
C12-12A	24.88	24.88	24.88	24.88	24.88

Analysis begun on: Wed Sep 17 12:42:05 2008
Analysis ended on: Wed Sep 17 12:42:06 2008
Total elapsed time: 00:00:01

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EPA STORM WATER MANAGEMENT MODEL - VERSION 5.0 (Build 5.0.013)
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"City of Brookings, SD: 5-yr 24-hr, Existing Conditions"

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Analysis Options
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Flow Units ............... CFS
Infiltration Method ...... CURVE_NUMBER
Flow Routing Method ...... KINWAVE
Starting Date ............ JAN-01-2007 00:00:00
Ending Date .............. JAN-02-2007 01:00:00
Antecedent Dry Days ...... 0.0
Report Time Step ......... 00:05:00
Wet Time Step ............ 00:05:00
Dry Time Step ............ 00:05:00
Routing Time Step ........ 30.00 sec


**************************        Volume         Depth
Runoff Quantity Continuity     acre-feet        inches
**************************     ---------       -------
Total Precipitation ......      2467.597         3.380
Evaporation Loss .........         0.000         0.000
Infiltration Loss ........      1243.549         1.703
Surface Runoff ...........      1047.237         1.434
Final Surface Storage ....       182.651         0.250
Continuity Error (%) .....        -0.237


**************************        Volume        Volume
Flow Routing Continuity        acre-feet      Mgallons
**************************     ---------     ---------
Dry Weather Inflow .......         0.000         0.000
Wet Weather Inflow .......      1046.396       340.984
Groundwater Inflow .......         0.000         0.000
RDII Inflow ..............         0.000         0.000
External Inflow ..........         0.000         0.000
External Outflow .........       700.604       228.302
Internal Outflow .........       242.243        78.939
Evaporation Loss .........         0.000         0.000
Initial Stored Volume ....         0.000         0.000
Final Stored Volume ......       178.832        58.275
Continuity Error (%) .....        -7.195


*********************************
Highest Flow Instability Indexes
*********************************
Link C40-40A (7)
Link C40A-39 (7)
Link C39-39A (6)
Link C39A-98A (5)
Link C10-10A (3)


*************************
Routing Time Step Summary
*************************
Minimum Time Step           :    30.00 sec
Average Time Step           :    30.00 sec
Maximum Time Step           :    30.00 sec
Percent in Steady State     :     0.00
Average Iterations per Step :     1.05


***************************
Subcatchment Runoff Summary
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Subcatchment	Total Precip in	Total Runon in	Total Evap in	Total Infil in	Total Runoff in	Total Runoff Mgal	Peak Runoff CFS	Runoff Coeff
BAS_1	3.380	0.000	0.000	1.844	1.332	0.915	24.678	0.394
BAS_10	3.380	0.000	0.000	2.035	1.096	1.146	20.164	0.324
BAS_100	3.380	0.000	0.000	1.975	1.187	0.448	6.471	0.351
BAS_101	3.380	0.000	0.000	2.030	1.129	0.545	6.650	0.334
BAS_102	3.380	0.000	0.000	1.895	1.265	1.439	22.880	0.374
BAS_103	3.380	0.000	0.000	2.092	1.070	0.517	4.494	0.316
BAS_104	3.380	0.000	0.000	2.181	1.004	0.267	1.834	0.297
BAS_105	3.380	0.000	0.000	2.181	0.967	0.281	1.154	0.286
BAS_106	3.380	0.000	0.000	2.181	0.965	0.286	1.155	0.286
BAS_107	3.380	0.000	0.000	2.162	0.913	1.847	7.762	0.270
BAS_108	3.380	0.000	0.000	2.158	0.809	3.136	15.764	0.239
BAS_109	3.380	0.000	0.000	2.129	0.838	3.892	27.120	0.248
BAS_11	3.380	0.000	0.000	1.509	1.745	3.492	70.069	0.516
BAS_110	3.380	0.000	0.000	2.143	0.844	3.608	21.863	0.250
BAS_111	3.380	0.000	0.000	2.029	1.053	0.297	3.426	0.312
BAS_112	3.380	0.000	0.000	2.153	0.867	3.519	18.146	0.256
BAS_114	3.380	0.000	0.000	2.093	1.023	5.317	46.924	0.303
BAS_115	3.380	0.000	0.000	2.122	1.020	1.114	7.617	0.302
BAS_116	3.380	0.000	0.000	2.135	1.051	3.726	24.552	0.311
BAS_117	3.380	0.000	0.000	1.962	1.176	0.658	9.334	0.348
BAS_118	3.380	0.000	0.000	1.797	1.234	5.276	68.089	0.365
BAS_119	3.380	0.000	0.000	1.178	2.113	9.165	179.628	0.625
BAS_121	3.380	0.000	0.000	2.043	1.112	0.235	2.710	0.329
BAS_122	3.380	0.000	0.000	1.556	1.707	0.292	6.638	0.505
BAS_124	3.380	0.000	0.000	0.751	2.625	0.677	16.689	0.777
BAS_125	3.380	0.000	0.000	1.783	1.441	0.282	5.784	0.426
BAS_126	3.380	0.000	0.000	2.181	0.603	1.665	6.134	0.178
BAS_13	3.380	0.000	0.000	1.773	1.306	5.210	112.824	0.386
BAS_14	3.380	0.000	0.000	1.782	1.383	0.924	14.483	0.409
BAS_15	3.380	0.000	0.000	1.343	1.938	5.246	104.792	0.573
BAS_16	3.380	0.000	0.000	1.707	1.488	3.805	64.817	0.440
BAS_18	3.380	0.000	0.000	1.686	1.533	0.732	14.074	0.453
BAS_19	3.380	0.000	0.000	2.029	0.698	0.133	3.756	0.207
BAS_2	3.380	0.000	0.000	2.180	0.836	0.738	4.105	0.247
BAS_20	3.380	0.000	0.000	1.397	1.873	0.763	14.949	0.554
BAS_21	3.380	0.000	0.000	1.344	1.466	1.851	80.437	0.434
BAS_22	3.380	0.000	0.000	2.176	0.945	0.195	0.605	0.280
BAS_23	3.380	0.000	0.000	1.476	1.731	3.568	59.926	0.512
BAS_24	3.380	0.000	0.000	1.417	1.886	0.184	5.159	0.558
BAS_25	3.380	0.000	0.000	2.181	0.997	0.084	0.510	0.295
BAS_26	3.380	0.000	0.000	0.711	2.636	1.625	31.060	0.780
BAS_27	3.380	0.000	0.000	1.908	1.272	0.756	12.544	0.376
BAS_28	3.380	0.000	0.000	1.472	1.810	0.521	12.612	0.535
BAS_29	3.380	0.000	0.000	0.458	2.926	1.240	29.622	0.866
BAS_3	3.380	0.000	0.000	1.900	1.303	1.621	41.778	0.386
BAS_30	3.380	0.000	0.000	0.459	2.957	0.313	10.500	0.875
BAS_31	3.380	0.000	0.000	0.748	2.605	3.120	64.517	0.771
BAS_32	3.380	0.000	0.000	1.709	1.450	2.064	32.134	0.429
BAS_33	3.380	0.000	0.000	0.954	2.382	2.509	53.394	0.705
BAS_34	3.380	0.000	0.000	2.132	1.018	0.116	0.704	0.301
BAS_35	3.380	0.000	0.000	1.565	1.665	2.373	42.563	0.493
BAS_36	3.380	0.000	0.000	1.138	2.168	1.890	38.690	0.642
BAS_37	3.380	0.000	0.000	2.132	0.891	4.097	27.257	0.264
BAS_38	3.380	0.000	0.000	2.101	0.989	0.913	7.710	0.293
BAS_39	3.380	0.000	0.000	2.098	0.959	1.580	13.654	0.284
BAS_4	3.380	0.000	0.000	2.128	0.877	0.662	4.629	0.260
BAS_40	3.380	0.000	0.000	2.029	1.058	0.664	7.685	0.313
BAS_41	3.380	0.000	0.000	2.084	1.056	0.387	3.592	0.313
BAS_42	3.380	0.000	0.000	2.079	1.088	0.343	3.221	0.322
BAS_43	3.380	0.000	0.000	1.975	1.061	2.155	24.408	0.314
BAS_44	3.380	0.000	0.000	1.909	1.194	2.452	32.755	0.353
BAS_45	3.380	0.000	0.000	1.739	1.446	1.649	27.468	0.428
BAS_46	3.380	0.000	0.000	1.537	1.674	5.985	103.511	0.495
BAS_47	3.380	0.000	0.000	1.511	1.696	3.822	65.063	0.502
BAS_48	3.380	0.000	0.000	1.397	1.837	7.789	137.186	0.543
BAS_49	3.380	0.000	0.000	0.748	2.611	2.190	46.910	0.772
BAS_5	3.380	0.000	0.000	1.706	1.423	1.000	23.299	0.421

BAS_50	3.380	0.000	0.000	0.934	2.352	5.071	152.639	0.696
BAS_51	3.380	0.000	0.000	1.898	1.159	7.542	94.289	0.343
BAS_52	3.380	0.000	0.000	1.264	2.018	0.745	14.679	0.597
BAS_53	3.380	0.000	0.000	1.631	1.570	3.180	53.674	0.464
BAS_54	3.380	0.000	0.000	1.723	1.494	1.867	36.698	0.442
BAS_55	3.380	0.000	0.000	1.040	2.300	0.406	9.605	0.681
BAS_56	3.380	0.000	0.000	0.931	2.416	0.820	18.114	0.715
BAS_57	3.380	0.000	0.000	1.530	1.728	0.324	6.914	0.511
BAS_58	3.380	0.000	0.000	2.105	0.967	1.082	8.884	0.286
BAS_59	3.380	0.000	0.000	2.119	0.987	0.917	6.639	0.292
BAS_6	3.380	0.000	0.000	1.904	1.273	0.394	9.900	0.377
BAS_60	3.380	0.000	0.000	1.977	1.205	0.046	0.671	0.357
BAS_61	3.380	0.000	0.000	2.136	1.018	0.055	0.316	0.301
BAS_62	3.380	0.000	0.000	2.137	1.000	0.125	0.727	0.296
BAS_63	3.380	0.000	0.000	1.929	1.173	1.280	17.050	0.347
BAS_64	3.380	0.000	0.000	1.909	1.270	0.569	9.413	0.376
BAS_65	3.380	0.000	0.000	1.872	1.114	17.161	209.809	0.330
BAS_66	3.380	0.000	0.000	1.856	1.379	0.202	3.969	0.408
BAS_67	3.380	0.000	0.000	2.102	1.035	1.372	11.202	0.306
BAS_68	3.380	0.000	0.000	1.666	1.536	2.691	45.886	0.455
BAS_69	3.380	0.000	0.000	1.774	1.406	5.399	90.702	0.416
BAS_7	3.380	0.000	0.000	1.134	2.158	1.594	57.186	0.638
BAS_70	3.380	0.000	0.000	1.448	1.612	15.684	223.938	0.477
BAS_71**	3.380	0.000	0.000	1.481	1.650	7.382	120.689	0.488
BAS_72**	3.380	0.000	0.000	1.584	1.521	3.784	62.034	0.450
BAS_73	3.380	0.000	0.000	1.235	1.942	6.925	86.905	0.575
BAS_74	3.380	0.000	0.000	2.081	0.889	3.617	32.540	0.263
BAS_75	3.380	0.000	0.000	2.181	0.947	0.234	0.789	0.280
BAS_76	3.380	0.000	0.000	1.817	1.433	0.272	5.706	0.424
BAS_77	3.380	0.000	0.000	2.033	1.107	1.256	15.044	0.327
BAS_78	3.380	0.000	0.000	2.116	0.945	2.873	21.835	0.280
BAS_79	3.380	0.000	0.000	1.401	1.874	2.988	61.450	0.555
BAS_8	3.380	0.000	0.000	0.483	2.869	5.749	195.339	0.849
BAS_80	3.380	0.000	0.000	1.869	1.244	0.891	12.056	0.368
BAS_81	3.380	0.000	0.000	1.462	1.777	3.344	61.256	0.526
BAS_82	3.380	0.000	0.000	0.650	2.743	0.484	13.573	0.812
BAS_83	3.380	0.000	0.000	2.138	0.976	1.076	6.277	0.289
BAS_84	3.380	0.000	0.000	0.271	3.093	0.798	17.424	0.915
BAS_85	3.380	0.000	0.000	1.649	1.520	0.487	7.777	0.450
BAS_86	3.380	0.000	0.000	1.199	2.112	3.222	68.734	0.625
BAS_87	3.380	0.000	0.000	0.781	2.591	1.421	34.874	0.767
BAS_88	3.380	0.000	0.000	1.909	1.236	1.887	28.529	0.366
BAS_89	3.380	0.000	0.000	1.909	1.260	1.960	31.666	0.373
BAS_9	3.380	0.000	0.000	1.960	1.093	2.077	40.381	0.323
BAS_90	3.380	0.000	0.000	1.909	1.266	0.560	9.178	0.374
BAS_91	3.380	0.000	0.000	1.398	1.907	0.243	6.708	0.564
BAS_92	3.380	0.000	0.000	1.442	1.859	0.464	13.087	0.550
BAS_93	3.380	0.000	0.000	1.994	1.159	1.096	14.973	0.343
BAS_94	3.380	0.000	0.000	2.099	1.072	0.567	4.623	0.317
BAS_95	3.380	0.000	0.000	1.931	1.249	0.855	13.781	0.370
BAS_96	3.380	0.000	0.000	2.181	0.957	0.743	2.735	0.283
BAS_97	3.380	0.000	0.000	2.181	0.969	0.437	1.836	0.287
BAS_98	3.380	0.000	0.000	2.193	1.004	0.038	0.292	0.297
BAS_99	3.380	0.000	0.000	2.058	1.156	0.132	1.355	0.342
BAS_S17	3.380	0.000	0.000	0.644	2.738	1.836	42.966	0.810
BAS_S17E	3.380	0.000	0.000	0.911	2.416	0.689	13.540	0.715
BAS_S17W	3.380	0.000	0.000	0.912	2.428	1.615	34.134	0.718
BAS_120	3.380	0.000	0.000	0.458	2.924	1.373	31.982	0.865
BAS_12	3.380	0.000	0.000	2.181	0.839	5.445	15.104	0.248
BAS_146	3.380	0.000	0.000	1.435	1.861	0.687	18.248	0.551
BAS_153	3.380	0.000	0.000	1.435	1.857	1.134	28.737	0.549
BAS_147	3.380	0.000	0.000	1.660	1.590	1.105	25.195	0.470
BAS_148	3.380	0.000	0.000	1.439	1.809	4.499	84.068	0.535
BAS_129	3.380	0.000	0.000	1.434	1.819	2.035	38.512	0.538
BAS_128	3.380	0.000	0.000	1.383	1.895	1.713	34.974	0.561
BAS_127	3.380	0.000	0.000	1.434	1.873	0.010	0.310	0.554
BAS_142	3.380	0.000	0.000	1.080	2.243	2.589	55.180	0.664
BAS_143	3.380	0.000	0.000	1.233	2.097	0.438	12.555	0.620
BAS_145	3.380	0.000	0.000	1.588	1.636	3.003	53.605	0.484
BAS_144	3.380	0.000	0.000	1.906	1.240	3.192	48.422	0.367
BAS_149	3.380	0.000	0.000	1.298	1.994	1.722	35.560	0.590
BAS_150	3.380	0.000	0.000	1.683	1.539	1.538	30.098	0.455

BAS_151	3.380	0.000	0.000	1.656	1.557	2.862	51.644	0.461
BAS_123	3.380	0.000	0.000	1.479	1.767	1.953	36.433	0.523
BAS_133	3.380	0.000	0.000	1.337	1.906	1.978	34.883	0.564
BAS_132	3.380	0.000	0.000	1.453	1.798	1.079	20.346	0.532
BAS_131	3.380	0.000	0.000	1.070	2.262	1.007	22.364	0.669
BAS_130	3.380	0.000	0.000	1.637	1.590	1.446	27.846	0.470
BAS_134	3.380	0.000	0.000	1.000	2.335	1.630	35.227	0.691
BAS_135	3.380	0.000	0.000	1.173	2.149	2.976	70.201	0.636
BAS_138	3.380	0.000	0.000	1.395	1.825	5.086	84.911	0.540
BAS_137	3.380	0.000	0.000	1.299	2.022	0.439	12.593	0.598
BAS_136	3.380	0.000	0.000	1.357	1.863	6.105	98.270	0.551
BAS_141	3.380	0.000	0.000	1.367	1.927	2.035	47.693	0.570
BAS_140	3.380	0.000	0.000	1.354	1.889	4.160	73.922	0.559
BAS_139	3.380	0.000	0.000	1.405	1.832	3.174	56.687	0.542
BAS_152**	3.380	0.000	0.000	2.011	1.193	1.519	19.705	0.353
BAS_154	3.380	0.000	0.000	1.593	1.670	0.562	13.269	0.494
BAS_155	3.380	0.000	0.000	1.440	1.836	0.708	15.510	0.543
BAS_158	3.380	0.000	0.000	0.271	3.148	0.590	19.871	0.931
BAS_159	3.380	0.000	0.000	1.707	1.494	0.454	8.040	0.442
BAS_160	3.380	0.000	0.000	1.381	1.848	8.095	138.498	0.547
BAS_161	3.380	0.000	0.000	1.323	1.988	0.405	10.673	0.588
BAS_162	3.380	0.000	0.000	1.008	2.347	0.586	15.957	0.694
BAS_163	3.380	0.000	0.000	3.068	0.192	0.053	3.636	0.057
System	3.380	0.000	0.000	1.703	1.434	341.232	5178.451	0.424

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Node Depth Summary
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Node	Type	Average Depth Feet	Maximum Depth Feet	Maximum HGL Feet	Time of Max Occurrence days	hr:min
N1	JUNCTION	2.16	3.00	1604.60	0	00:09
N10	JUNCTION	1.64	2.01	1602.71	0	00:18
N100	JUNCTION	0.00	0.00	1594.00	0	00:00
N101	JUNCTION	0.00	0.00	1608.00	0	00:00
N102	JUNCTION	0.00	0.00	1626.90	0	00:00
N103	JUNCTION	0.13	0.35	1633.95	0	00:10
N104	JUNCTION	0.08	0.17	1596.64	0	01:32
N105	JUNCTION	0.00	0.00	1611.55	0	00:00
N107	JUNCTION	0.16	0.39	1612.69	0	00:10
N108	JUNCTION	0.11	0.36	1616.02	0	00:41
N109	JUNCTION	0.00	0.00	1638.00	0	00:00
N11	JUNCTION	0.83	0.91	1594.91	0	06:05
N110	JUNCTION	0.00	0.00	1611.55	0	00:00
N12	JUNCTION	9.94	10.00	1608.00	0	00:09
N13	JUNCTION	1.26	2.00	1602.70	0	00:08
N14	JUNCTION	0.56	2.27	1617.00	0	00:15
N14A	JUNCTION	0.56	2.27	1616.81	0	00:15
N15	JUNCTION	0.80	4.00	1624.22	0	00:09
N15A	JUNCTION	0.82	3.00	1622.30	0	00:10
N16	JUNCTION	0.24	0.87	1628.02	0	00:10
N16A	JUNCTION	0.47	3.00	1627.60	0	00:08
N17	JUNCTION	0.12	0.31	1606.31	0	00:10
N17A	JUNCTION	0.12	0.30	1605.10	0	00:10
N18	JUNCTION	0.44	1.00	1624.30	0	00:09
N18A	JUNCTION	0.77	2.59	1624.91	0	00:10
N19	JUNCTION	0.10	0.33	1604.33	0	00:10
N2	JUNCTION	1.54	3.00	1604.55	0	00:07
N20	JUNCTION	0.26	0.45	1613.17	0	01:05
N20A	JUNCTION	0.26	0.45	1612.92	0	01:05
N21	JUNCTION	0.78	2.00	1629.01	0	00:06
N21A	JUNCTION	0.78	2.00	1628.78	0	00:06
N22	JUNCTION	0.86	3.00	1618.30	0	00:10
N23	JUNCTION	0.65	2.43	1614.43	0	00:15
N24	JUNCTION	0.01	0.03	1632.03	0	01:05
N25	JUNCTION	2.26	5.00	1613.46	0	00:09
N25A	JUNCTION	2.26	5.00	1613.34	0	00:11

N25B	JUNCTION	0.74	1.44	1609.44	0	00:12
N26	JUNCTION	2.62	4.00	1610.00	0	00:07
N26A	JUNCTION	1.61	2.00	1607.89	0	00:08
N27	JUNCTION	0.32	1.41	1611.41	0	00:10
N28	JUNCTION	0.26	1.35	1609.35	0	00:10
N28A	JUNCTION	0.61	1.98	1609.66	0	00:10
N29	JUNCTION	1.09	2.50	1608.04	0	00:10
N3	JUNCTION	0.78	1.92	1616.79	0	00:35
N30	JUNCTION	2.64	4.61	1609.96	0	00:13
N30A	JUNCTION	2.64	4.60	1608.60	0	00:13
N30B	JUNCTION	0.65	1.52	1604.97	0	00:13
N31	JUNCTION	0.93	4.00	1604.00	0	00:14
N31A	JUNCTION	1.38	3.05	1601.90	0	00:15
N32	JUNCTION	1.38	3.01	1601.51	0	00:53
N33	JUNCTION	0.99	3.09	1602.82	0	01:12
N33A	JUNCTION	0.99	3.09	1602.59	0	01:13
N34	JUNCTION	0.73	6.00	1611.39	0	00:10
N34A	JUNCTION	0.70	2.50	1603.17	0	00:12
N35	JUNCTION	0.00	0.00	1643.80	0	00:00
N36	JUNCTION	1.01	3.18	1608.87	0	00:21
N37	JUNCTION	0.23	0.90	1645.86	0	00:15
N38	JUNCTION	0.90	3.07	1605.48	0	00:25
N38A	JUNCTION	0.90	3.07	1605.07	0	00:26
N39	JUNCTION	1.03	1.62	1612.51	0	01:51
N39A	JUNCTION	0.71	1.09	1609.34	0	01:52
N4	JUNCTION	0.85	1.96	1613.78	0	00:12
N40	JUNCTION	1.23	3.00	1616.96	0	00:39
N40A	JUNCTION	1.21	2.49	1616.16	0	00:58
N41	JUNCTION	1.30	4.52	1621.01	0	00:29
N41A	JUNCTION	1.22	3.00	1619.26	0	00:30
N42	JUNCTION	1.67	3.34	1624.77	0	00:50
N45	JUNCTION	0.76	2.00	1636.33	0	00:12
N46	JUNCTION	0.71	3.47	1640.41	0	00:17
N46A	JUNCTION	0.57	5.00	1641.17	0	00:11
N47	JUNCTION	0.71	3.47	1641.01	0	00:16
N48	JUNCTION	0.33	1.83	1643.59	0	00:15
N49	JUNCTION	0.21	1.13	1644.22	0	00:15
N4A	JUNCTION	0.88	1.96	1613.48	0	00:12
N5	JUNCTION	0.72	1.43	1617.03	0	00:15
N50	JUNCTION	0.04	0.23	1644.02	0	00:10
N51	JUNCTION	1.24	3.00	1613.00	0	00:15
N52	JUNCTION	0.16	0.39	1615.59	0	00:10
N53	JUNCTION	0.17	0.55	1641.93	0	00:10
N53A	JUNCTION	0.17	0.55	1639.48	0	00:10
N54	JUNCTION	0.82	2.66	1618.66	0	00:17
N54A	JUNCTION	0.82	2.66	1618.16	0	00:17
N55	JUNCTION	0.27	1.19	1629.51	0	00:10
N55A	JUNCTION	0.27	1.18	1629.18	0	00:10
N56	JUNCTION	0.03	0.08	1598.08	0	00:25
N57	JUNCTION	0.00	0.00	0.00	0	00:00
N58	JUNCTION	0.00	0.00	0.00	0	00:00
N59	JUNCTION	0.07	0.44	1601.74	0	00:20
N5A	JUNCTION	0.72	1.43	1616.48	0	00:15
N6	JUNCTION	0.53	0.80	1618.85	0	00:10
N60	JUNCTION	0.00	0.00	0.00	0	00:00
N61	JUNCTION	0.00	0.00	0.00	0	00:00
N62	JUNCTION	0.55	2.44	1628.60	0	00:10
N63	JUNCTION	0.25	1.23	1641.59	0	00:10
N64	JUNCTION	0.20	0.90	1607.83	0	00:10
N65	JUNCTION	1.06	4.50	1641.10	0	00:09
N65A	JUNCTION	1.05	4.50	1640.65	0	00:10
N66	JUNCTION	0.06	0.24	1622.24	0	00:43
N67	JUNCTION	0.48	3.90	1625.60	0	00:14
N68	JUNCTION	0.00	0.00	1660.00	0	00:00
N69	JUNCTION	0.23	0.86	1627.04	0	00:20
N6A	JUNCTION	0.64	3.50	1621.00	0	00:07
N7	JUNCTION	0.49	0.68	1621.31	0	00:10
N70	JUNCTION	0.56	1.86	1632.92	0	00:24
N71	JUNCTION	0.92	4.00	1638.70	0	00:13
N72	JUNCTION	0.42	1.56	1638.96	0	00:16
N73	JUNCTION	0.51	2.37	1642.07	0	00:15
N74	JUNCTION	0.38	0.77	1641.84	0	00:10

N75	JUNCTION	0.02	0.03	1656.03	0	01:05
N76	JUNCTION	0.65	1.58	1635.58	0	00:10
N77	JUNCTION	0.00	0.00	1636.43	0	00:00
N78	JUNCTION	0.50	2.21	1649.30	0	00:16
N79	JUNCTION	0.31	1.43	1654.73	0	00:15
N7A	JUNCTION	1.70	3.75	1623.75	0	00:06
N8	JUNCTION	0.47	6.00	1648.74	0	00:12
N80	JUNCTION	0.86	2.50	1651.78	0	00:06
N82	JUNCTION	0.00	0.00	1638.00	0	00:00
N83	JUNCTION	0.00	0.00	1638.00	0	00:00
N84	JUNCTION	0.00	0.00	1638.00	0	00:00
N85	JUNCTION	0.40	1.50	1645.18	0	00:08
N85A	JUNCTION	0.40	1.50	1644.91	0	00:08
N86	JUNCTION	0.32	0.86	1649.24	0	00:10
N87	JUNCTION	0.00	0.00	1599.00	0	00:00
N88	JUNCTION	0.00	0.00	1630.00	0	00:00
N89	JUNCTION	0.00	0.00	1618.00	0	00:00
N9	JUNCTION	0.73	2.22	1602.97	0	00:10
N90	JUNCTION	0.00	0.00	1611.55	0	00:00
N91	JUNCTION	0.00	0.00	1611.55	0	00:00
N92	JUNCTION	0.63	0.97	1575.97	0	01:12
N93	JUNCTION	0.00	0.00	1630.00	0	00:00
N94	JUNCTION	0.14	0.27	1592.44	0	01:39
N95	JUNCTION	0.13	0.44	1599.57	0	00:22
N96	JUNCTION	0.26	1.02	1601.62	0	00:10
N97	JUNCTION	0.37	1.19	1604.32	0	00:20
N98	JUNCTION	0.39	0.84	1606.84	0	01:26
N99	JUNCTION	0.00	0.00	1596.00	0	00:00
N111A	JUNCTION	0.87	2.50	1625.59	0	00:07
N111	JUNCTION	0.56	6.00	1629.32	0	00:11
N131	JUNCTION	0.41	1.75	1633.74	0	00:07
N112	JUNCTION	0.60	2.01	1635.72	0	00:23
N132	JUNCTION	0.74	6.00	1648.95	0	00:10
N130	JUNCTION	0.30	2.00	1660.27	0	00:09
N137	JUNCTION	1.25	1.25	1655.57	0	00:05
N126	JUNCTION	0.48	2.33	1693.33	0	00:15
N8A	JUNCTION	1.09	3.71	1646.04	0	00:14
N127	JUNCTION	1.15	5.30	1640.81	0	00:09
N128	JUNCTION	0.83	3.50	1622.21	0	00:12
N129	JUNCTION	0.57	3.00	1629.12	0	00:09
N133	JUNCTION	0.74	4.00	1632.29	0	00:11
N134	JUNCTION	0.66	3.50	1634.62	0	00:10
N135	JUNCTION	0.53	2.21	1636.53	0	00:10
N113	JUNCTION	0.49	2.44	1617.98	0	00:14
N116	JUNCTION	0.39	2.00	1627.07	0	00:09
N117	JUNCTION	0.55	1.75	1625.93	0	00:07
N114	JUNCTION	0.47	4.00	1626.75	0	00:09
N115	JUNCTION	0.36	0.96	1621.33	0	00:21
N118	JUNCTION	0.59	1.92	1617.11	0	00:15
N119	JUNCTION	0.65	1.50	1627.39	0	00:06
N120	JUNCTION	1.01	6.00	1627.13	0	00:14
N121	JUNCTION	0.29	1.00	1637.09	0	00:06
N122	JUNCTION	0.95	1.50	1642.23	0	00:06
N123	JUNCTION	0.91	6.00	1628.14	0	00:16
N124	JUNCTION	0.67	3.00	1646.23	0	00:09
N125	JUNCTION	0.53	2.00	1639.75	0	00:07
N136	JUNCTION	0.04	0.16	1600.06	0	00:10
N96A	JUNCTION	0.26	1.02	1601.12	0	00:11
OUT6	JUNCTION	2.36	3.29	1601.52	0	05:15
OUT4	JUNCTION	0.98	1.61	1598.97	0	01:16
OUT3	JUNCTION	0.97	1.33	1598.43	0	00:57
OUT5	JUNCTION	1.05	3.18	1601.35	0	00:23
N138	JUNCTION	0.00	0.00	0.00	0	00:00
N139	JUNCTION	0.03	0.14	1615.70	0	00:10
N142	JUNCTION	0.15	0.69	1602.43	0	00:10
N136A	JUNCTION	0.07	0.28	1599.54	0	00:10
N77A	JUNCTION	0.08	0.25	1636.25	0	00:10
N44A_	JUNCTION	0.00	0.00	1624.78	0	00:00
N44A	JUNCTION	0.98	2.14	1626.92	0	00:29
N126A	JUNCTION	0.47	2.33	1693.05	0	00:15
N127A	JUNCTION	0.82	4.00	1639.22	0	00:10
N128A	JUNCTION	0.82	2.99	1621.04	0	00:29

N129A	JUNCTION	0.88	6.00	1626.02	0	00:11
N130A	JUNCTION	0.30	2.00	1659.93	0	00:10
N137A	JUNCTION	1.25	1.45	1655.77	0	00:13
N132A	JUNCTION	0.72	3.50	1646.18	0	00:11
N131A	JUNCTION	0.41	1.75	1633.39	0	00:08
N116A	JUNCTION	0.39	2.00	1625.41	0	00:11
N117A	JUNCTION	0.55	1.75	1625.04	0	00:08
N118A	JUNCTION	0.59	1.92	1615.59	0	00:15
N119A	JUNCTION	0.65	1.50	1626.53	0	00:06
N120A	JUNCTION	0.99	3.49	1622.92	0	00:19
N121A	JUNCTION	0.29	1.00	1634.97	0	00:07
N122A	JUNCTION	0.95	1.50	1639.78	0	00:07
N123A	JUNCTION	0.90	3.59	1621.87	0	00:23
N125A	JUNCTION	0.52	2.00	1637.20	0	00:08
N124A	JUNCTION	0.67	3.00	1644.12	0	00:10
N43	JUNCTION	0.98	2.14	1625.01	0	00:31
N43A	JUNCTION	1.67	3.33	1626.07	0	00:31
N76A	JUNCTION	0.65	1.57	1633.42	0	00:10
N145	JUNCTION	0.19	1.20	1641.20	0	00:20
N145A	JUNCTION	0.19	1.20	1637.65	0	00:20
N73A	JUNCTION	0.51	2.35	1640.55	0	00:15
N74A	JUNCTION	0.38	0.76	1641.41	0	00:10
N72A	JUNCTION	0.42	1.56	1637.64	0	00:16
N71A	JUNCTION	0.92	4.00	1638.30	0	00:15
N70A	JUNCTION	0.56	1.85	1631.89	0	00:24
N22A	JUNCTION	0.76	2.00	1617.06	0	00:10
N144	JUNCTION	0.33	1.67	1651.06	0	00:15
N144A	JUNCTION	0.33	1.67	1650.40	0	00:16
N79A	JUNCTION	0.31	1.43	1652.92	0	00:15
N78A	JUNCTION	0.50	2.21	1648.56	0	00:16
N80A	JUNCTION	0.86	2.50	1651.68	0	00:08
N106	JUNCTION	0.45	1.70	1626.83	0	00:15
N106A	JUNCTION	0.45	1.70	1625.34	0	00:15
N146A	JUNCTION	0.23	1.17	1636.92	0	00:11
N146	JUNCTION	0.23	1.19	1638.18	0	00:10
N81	JUNCTION	2.36	3.88	1605.35	0	02:12
N98A	JUNCTION	0.73	1.25	1607.15	0	01:28
N86A	JUNCTION	0.32	0.84	1648.24	0	00:10
N67A	JUNCTION	1.79	3.00	1624.50	0	00:08
N147A	JUNCTION	0.38	1.15	1634.36	0	00:11
N147	JUNCTION	0.38	1.17	1636.68	0	00:10
N10A	JUNCTION	3.98	4.00	1600.38	0	00:08
S17W_out	JUNCTION	0.37	1.01	1642.01	0	01:13
S17E_out	JUNCTION	0.21	0.49	1640.49	0	01:36
S17_out	JUNCTION	0.08	0.13	1630.13	0	04:26
N12A	JUNCTION	1.49	1.50	1598.67	0	00:09
OUT1	OUTFALL	1.49	1.50	1597.52	0	00:09
OUT2	OUTFALL	0.83	0.91	1594.51	0	06:05
OUT7	OUTFALL	0.00	0.00	1612.30	0	00:00
OUT8	OUTFALL	0.00	0.00	1626.90	0	00:00
OUT9	OUTFALL	0.00	0.00	1608.00	0	00:00
OUT10	OUTFALL	0.00	0.00	1594.00	0	00:00
OUT11	OUTFALL	0.00	0.00	1596.00	0	00:00
OUT12	OUTFALL	0.07	0.44	1600.82	0	00:20
OUT13	OUTFALL	0.55	2.44	1627.60	0	00:10
OUT14	OUTFALL	0.25	1.23	1640.59	0	00:11
OUT15	OUTFALL	0.00	0.00	1643.80	0	00:00
OUT16	OUTFALL	0.00	0.00	1615.66	0	00:00
OUT17	OUTFALL	0.00	0.00	1622.00	0	00:00
OUT18	OUTFALL	1.80	3.00	1624.50	0	00:13
OUT19	OUTFALL	0.00	0.00	1660.00	0	00:00
OUT20	OUTFALL	0.00	0.00	1575.00	0	00:00
OUT21	OUTFALL	0.00	0.00	1638.00	0	00:00
OUT22	OUTFALL	0.00	0.00	1611.55	0	00:00
OUT23	OUTFALL	0.00	0.00	1599.00	0	00:00
OUT24	OUTFALL	0.00	0.00	1630.00	0	00:00
OUT25	OUTFALL	0.00	0.00	1618.00	0	00:00
OUT27	OUTFALL	0.00	0.00	1630.00	0	00:00
OUT26	OUTFALL	0.00	0.00	1596.47	0	00:00
OUT28	OUTFALL	0.20	0.89	1606.85	0	00:10
N44	DIVIDER	0.76	1.92	1629.46	0	00:29
S17W	STORAGE	4.58	7.63	1648.63	0	01:12

S17E	STORAGE	0.72	2.55	1642.55	0	01:35
S17	STORAGE	4.43	5.03	1635.03	0	04:26
S56	STORAGE	0.64	0.83	0.83	1	01:00
S57	STORAGE	0.70	0.90	0.90	1	01:00
S60	STORAGE	0.90	1.04	1.04	1	01:00
S58	STORAGE	0.72	0.90	0.90	1	01:00
S61	STORAGE	0.89	1.13	1.13	1	01:00
S138	STORAGE	0.61	0.86	0.86	1	01:00

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Node InFlow Summary
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Node	Type	Maximum Lateral Inflow CFS	Maximum Total Inflow CFS	Time of Max Occurrence days	hr:min	Lateral Inflow Volume Mgal	Total Inflow Volume Mgal
N1	JUNCTION	33.41	192.84	0	00:38	2.313	25.689
N10	JUNCTION	0.00	57.33	0	00:18	0.000	16.970
N100	JUNCTION	1.15	1.15	0	01:05	0.281	0.281
N101	JUNCTION	22.88	22.88	0	00:10	1.438	1.438
N102	JUNCTION	6.65	6.65	0	00:10	0.545	0.545
N103	JUNCTION	32.54	32.54	0	00:10	3.611	4.262
N104	JUNCTION	90.70	90.70	0	00:10	5.395	7.043
N105	JUNCTION	2.74	2.74	0	01:05	0.742	0.742
N107	JUNCTION	0.00	5.68	0	00:18	0.000	0.970
N108	JUNCTION	68.73	109.60	0	00:40	3.221	10.923
N109	JUNCTION	0.00	3.34	0	01:05	0.000	0.606
N11	JUNCTION	25.29	31.02	0	06:05	3.899	17.566
N110	JUNCTION	0.00	29.87	0	00:10	0.000	2.301
N12	JUNCTION	15.76	83.53	0	01:10	3.131	30.772
N13	JUNCTION	0.00	52.37	0	06:23	0.000	20.888
N14	JUNCTION	53.67	53.67	0	00:15	3.178	3.178
N14A	JUNCTION	0.00	53.64	0	00:15	0.000	3.177
N15	JUNCTION	104.79	205.90	0	00:15	5.243	11.340
N15A	JUNCTION	0.00	103.97	0	00:39	0.000	10.510
N16	JUNCTION	64.82	64.82	0	00:10	3.803	6.262
N16A	JUNCTION	0.00	65.11	0	00:10	0.000	6.261
N17	JUNCTION	27.12	27.12	0	00:10	3.886	4.167
N17A	JUNCTION	0.00	26.71	0	00:10	0.000	4.166
N18	JUNCTION	14.07	49.07	0	00:10	0.732	6.863
N18A	JUNCTION	95.31	144.32	0	00:10	2.614	9.476
N19	JUNCTION	2.71	2.71	0	00:10	0.235	0.235
N2	JUNCTION	112.82	251.08	0	00:23	5.206	27.341
N20	JUNCTION	7.76	11.49	0	01:05	1.844	3.472
N20A	JUNCTION	0.00	11.48	0	01:05	0.000	3.471
N21	JUNCTION	36.70	36.70	0	00:10	1.865	1.865
N21A	JUNCTION	0.00	7.77	0	01:18	0.000	1.611
N22	JUNCTION	14.48	99.12	0	00:16	1.118	11.630
N23	JUNCTION	59.93	143.46	0	00:15	3.566	9.769
N24	JUNCTION	1.16	1.16	0	01:05	0.285	0.285
N25	JUNCTION	0.51	142.24	0	00:16	0.084	9.849
N25A	JUNCTION	0.00	30.42	0	02:39	0.000	7.669
N25B	JUNCTION	0.00	43.69	0	00:12	0.000	8.607
N26	JUNCTION	31.06	72.05	0	00:15	1.624	10.225
N26A	JUNCTION	0.00	10.77	0	12:35	0.000	5.674
N27	JUNCTION	17.70	17.70	0	00:10	0.940	0.940
N28	JUNCTION	12.61	12.61	0	00:10	0.521	0.521
N28A	JUNCTION	0.00	12.56	0	00:10	0.000	0.521
N29	JUNCTION	29.62	39.65	0	00:20	1.240	6.910
N3	JUNCTION	41.78	157.35	0	00:35	1.620	15.411
N30	JUNCTION	0.00	45.60	0	00:13	0.000	7.354
N30A	JUNCTION	10.50	55.80	0	00:13	0.314	7.663
N30B	JUNCTION	0.00	55.13	0	00:13	0.000	7.661
N31	JUNCTION	64.52	104.40	0	00:20	3.119	10.776
N31A	JUNCTION	0.00	81.60	0	00:15	0.000	10.509
N32	JUNCTION	38.76	93.41	0	00:35	2.631	13.150
N33	JUNCTION	0.32	52.41	0	01:12	0.055	5.857
N33A	JUNCTION	0.00	52.33	0	01:13	0.000	5.856

N34	JUNCTION	53.39	90.77	0	00:16	2.509	6.047
N34A	JUNCTION	0.70	54.01	0	01:09	0.116	5.773
N35	JUNCTION	34.87	34.87	0	00:10	1.421	1.421
N36	JUNCTION	42.56	135.25	0	00:21	2.372	12.722
N37	JUNCTION	14.68	14.68	0	00:15	0.745	0.745
N38	JUNCTION	38.69	128.30	0	00:25	1.889	10.900
N38A	JUNCTION	0.00	128.15	0	00:26	0.000	10.898
N39	JUNCTION	27.26	101.28	0	01:51	4.091	29.268
N39A	JUNCTION	0.00	100.73	0	01:52	0.000	29.265
N4	JUNCTION	6.64	55.58	0	00:12	0.292	10.587
N40	JUNCTION	6.64	92.01	0	01:48	0.916	25.296
N40A	JUNCTION	0.00	93.96	0	00:58	0.000	25.309
N41	JUNCTION	15.40	195.97	0	00:54	1.575	26.448
N41A	JUNCTION	0.00	89.03	0	01:47	0.000	24.425
N42	JUNCTION	38.06	198.40	0	00:50	3.731	24.196
N45	JUNCTION	39.67	185.18	0	00:12	2.773	15.153
N46	JUNCTION	27.47	215.01	0	00:16	1.647	12.669
N46A	JUNCTION	0.00	214.94	0	00:16	0.000	12.668
N47	JUNCTION	18.11	192.17	0	00:16	0.820	11.024
N48	JUNCTION	65.06	176.89	0	00:15	3.820	10.205
N49	JUNCTION	103.51	112.55	0	00:15	5.981	6.386
N4A	JUNCTION	0.00	55.65	0	00:12	0.000	10.586
N5	JUNCTION	23.30	36.28	0	00:15	1.000	7.250
N50	JUNCTION	9.60	9.60	0	00:10	0.406	0.406
N51	JUNCTION	0.00	217.35	0	00:18	0.000	22.009
N52	JUNCTION	4.49	4.49	0	00:10	0.517	0.517
N53	JUNCTION	6.47	6.47	0	00:10	0.448	0.448
N53A	JUNCTION	0.00	6.39	0	00:10	0.000	0.448
N54	JUNCTION	36.43	164.25	0	00:17	1.952	11.438
N54A	JUNCTION	0.00	164.24	0	00:17	0.000	11.436
N55	JUNCTION	20.16	20.16	0	00:10	1.145	1.145
N55A	JUNCTION	0.00	19.87	0	00:10	0.000	1.145
N56	JUNCTION	46.92	46.92	0	00:10	5.312	6.502
N57	JUNCTION	7.62	7.62	0	00:10	1.113	1.113
N58	JUNCTION	30.40	30.40	0	00:10	4.381	4.380
N59	JUNCTION	31.98	31.98	0	00:20	1.373	1.373
N5A	JUNCTION	0.00	50.79	0	00:12	0.000	7.956
N6	JUNCTION	9.90	21.37	0	00:10	0.394	6.303
N60	JUNCTION	179.63	179.63	0	00:15	9.160	9.160
N61	JUNCTION	68.09	68.09	0	00:15	5.270	5.270
N62	JUNCTION	70.07	70.07	0	00:10	3.490	3.490
N63	JUNCTION	16.69	16.69	0	00:10	0.677	0.677
N64	JUNCTION	13.27	13.27	0	00:10	0.562	0.562
N65	JUNCTION	137.19	137.19	0	00:15	7.785	7.785
N65A	JUNCTION	0.00	85.21	0	00:32	0.000	7.490
N66	JUNCTION	152.64	155.03	0	00:15	5.070	8.346
N67	JUNCTION	17.42	151.31	0	00:16	0.798	11.343
N68	JUNCTION	13.57	13.57	0	00:10	0.484	0.484
N69	JUNCTION	86.91	160.43	0	00:20	6.920	13.983
N6A	JUNCTION	0.00	21.14	0	00:10	0.000	6.303
N7	JUNCTION	0.31	17.22	0	00:10	0.010	6.506
N70	JUNCTION	5.71	68.69	0	00:24	0.272	5.817
N71	JUNCTION	5.78	76.86	0	00:17	0.282	5.588
N72	JUNCTION	12.06	73.35	0	00:16	0.891	5.309
N73	JUNCTION	61.26	61.26	0	00:15	3.342	3.342
N74	JUNCTION	6.28	6.28	0	00:10	1.075	1.075
N75	JUNCTION	0.79	0.79	0	01:05	0.234	0.234
N76	JUNCTION	21.83	21.83	0	00:10	2.869	2.869
N77	JUNCTION	6.81	6.81	0	00:10	0.729	0.729
N78	JUNCTION	8.04	60.84	0	00:16	0.454	3.129
N79	JUNCTION	46.91	46.91	0	00:15	2.190	2.190
N7A	JUNCTION	57.19	74.38	0	00:10	1.593	8.098
N8	JUNCTION	195.34	207.40	0	00:15	5.747	8.423
N80	JUNCTION	61.45	61.45	0	00:10	2.986	2.986
N82	JUNCTION	1.36	1.36	0	00:10	0.132	0.132
N83	JUNCTION	0.29	0.29	0	01:05	0.038	0.038
N84	JUNCTION	1.84	1.84	0	01:05	0.436	0.436
N85	JUNCTION	13.78	13.78	0	00:10	0.854	0.854
N85A	JUNCTION	0.00	7.74	0	00:18	0.000	0.840
N86	JUNCTION	4.62	4.62	0	00:10	0.567	0.567
N87	JUNCTION	28.53	28.53	0	00:10	1.885	1.885
N88	JUNCTION	9.18	9.18	0	00:10	0.560	0.560

N89	JUNCTION	6.71	6.71	0	00:10	0.243	0.243
N9	JUNCTION	40.38	40.38	0	00:10	2.075	2.075
N90	JUNCTION	13.09	13.09	0	00:10	0.464	0.464
N91	JUNCTION	14.97	14.97	0	00:10	1.095	1.095
N92	JUNCTION	232.89	422.05	0	01:05	19.099	142.743
N93	JUNCTION	3.97	3.97	0	00:10	0.202	0.202
N94	JUNCTION	6.13	19.60	0	01:41	1.661	6.112
N95	JUNCTION	11.20	39.78	0	00:22	1.370	4.093
N96	JUNCTION	45.89	45.89	0	00:10	2.689	2.689
N97	JUNCTION	120.69	122.52	0	00:20	7.377	12.410
N98	JUNCTION	62.03	92.75	0	01:26	3.781	19.235
N99	JUNCTION	1.83	1.83	0	01:05	0.267	0.267
N111A	JUNCTION	0.00	115.95	0	00:11	0.000	9.885
N111	JUNCTION	34.97	151.29	0	00:15	1.712	10.042
N131	JUNCTION	25.19	25.19	0	00:10	1.104	1.104
N112	JUNCTION	38.51	107.62	0	00:15	2.034	7.270
N132	JUNCTION	84.07	94.95	0	00:15	4.497	5.317
N130	JUNCTION	18.25	18.25	0	00:10	0.687	0.687
N137	JUNCTION	28.74	28.74	0	00:10	1.134	1.134
N126	JUNCTION	55.18	55.18	0	00:15	2.588	2.588
N8A	JUNCTION	12.55	208.21	0	00:14	0.438	8.817
N127	JUNCTION	0.00	203.99	0	00:16	0.000	8.819
N128	JUNCTION	0.00	152.53	0	00:29	0.000	13.799
N129	JUNCTION	53.60	53.60	0	00:10	3.001	3.001
N133	JUNCTION	35.56	110.04	0	00:13	1.721	6.109
N134	JUNCTION	30.10	78.87	0	00:11	1.537	4.396
N135	JUNCTION	51.64	51.64	0	00:10	2.860	2.860
N113	JUNCTION	22.36	83.80	0	00:14	1.007	6.205
N116	JUNCTION	20.35	20.35	0	00:15	1.078	1.078
N117	JUNCTION	34.88	34.88	0	00:15	1.976	1.976
N114	JUNCTION	27.85	27.89	0	00:15	1.445	1.863
N115	JUNCTION	15.96	41.56	0	00:12	0.586	3.369
N118	JUNCTION	35.23	41.48	0	00:15	1.629	3.541
N119	JUNCTION	70.20	70.20	0	00:10	2.975	2.975
N120	JUNCTION	98.27	110.15	0	00:19	6.101	10.375
N121	JUNCTION	12.59	12.59	0	00:10	0.439	0.439
N122	JUNCTION	84.91	84.91	0	00:15	5.082	5.082
N123	JUNCTION	56.69	106.31	0	00:20	3.172	9.032
N124	JUNCTION	73.92	73.92	0	00:15	4.158	4.157
N125	JUNCTION	47.69	47.69	0	00:10	2.034	2.034
N136	JUNCTION	19.70	19.70	0	00:10	1.519	1.518
N96A	JUNCTION	0.00	45.64	0	00:11	0.000	2.689
OUT6	JUNCTION	0.67	209.12	0	05:03	0.046	85.795
OUT4	JUNCTION	0.00	255.73	0	00:54	0.000	104.016
OUT3	JUNCTION	0.73	348.14	0	00:54	0.125	117.173
OUT5	JUNCTION	0.00	234.60	0	05:03	0.000	98.471
N138	JUNCTION	15.10	15.10	0	00:10	5.436	5.436
N139	JUNCTION	15.51	15.51	0	00:10	0.707	0.707
N142	JUNCTION	3.76	3.76	0	00:10	0.133	0.133
N136A	JUNCTION	0.00	19.13	0	00:10	0.000	1.518
N77A	JUNCTION	0.00	6.81	0	00:10	0.000	0.729
N44A_	JUNCTION	0.00	0.00	0	00:00	0.000	0.000
N44A	JUNCTION	0.00	177.56	0	00:29	0.000	17.594
N126A	JUNCTION	0.00	55.13	0	00:15	0.000	2.587
N127A	JUNCTION	0.00	107.85	0	00:47	0.000	7.783
N128A	JUNCTION	0.00	147.19	0	00:29	0.000	13.789
N129A	JUNCTION	52.06	186.15	0	00:15	3.243	14.023
N130A	JUNCTION	0.00	16.91	0	00:11	0.000	0.686
N137A	JUNCTION	0.00	16.52	0	00:13	0.000	0.818
N132A	JUNCTION	0.00	75.97	0	00:10	0.000	5.238
N131A	JUNCTION	0.00	11.81	0	00:22	0.000	1.060
N116A	JUNCTION	0.00	17.24	0	00:21	0.000	1.065
N117A	JUNCTION	0.00	11.88	0	01:11	0.000	1.719
N118A	JUNCTION	0.00	41.37	0	00:15	0.000	3.540
N119A	JUNCTION	0.00	7.97	0	02:25	0.000	1.908
N120A	JUNCTION	0.00	106.67	0	00:19	0.000	10.361
N121A	JUNCTION	0.00	2.71	0	01:19	0.000	0.341
N122A	JUNCTION	0.00	7.96	0	06:42	0.000	3.173
N123A	JUNCTION	0.00	108.38	0	00:23	0.000	9.023
N125A	JUNCTION	0.00	17.28	0	01:09	0.000	1.807
N124A	JUNCTION	0.00	50.46	0	00:29	0.000	4.038
N43	JUNCTION	0.00	176.78	0	00:31	0.000	17.576

N43A	JUNCTION	0.00	176.79	0	00:31	0.000	17.575
N76A	JUNCTION	0.00	21.52	0	00:10	0.000	2.868
N145	JUNCTION	19.87	19.87	0	00:20	0.590	0.590
N145A	JUNCTION	0.00	19.84	0	00:20	0.000	0.590
N73A	JUNCTION	0.00	60.93	0	00:15	0.000	3.341
N74A	JUNCTION	0.00	6.21	0	00:10	0.000	1.075
N72A	JUNCTION	0.00	73.33	0	00:16	0.000	5.308
N71A	JUNCTION	0.00	66.79	0	00:23	0.000	5.550
N70A	JUNCTION	0.00	68.23	0	00:24	0.000	5.815
N22A	JUNCTION	0.00	53.35	0	01:31	0.000	10.298
N144	JUNCTION	7.78	54.22	0	00:15	0.487	2.676
N144A	JUNCTION	0.00	54.17	0	00:16	0.000	2.676
N79A	JUNCTION	0.00	46.69	0	00:15	0.000	2.189
N78A	JUNCTION	0.00	60.85	0	00:16	0.000	3.128
N80A	JUNCTION	0.00	14.60	0	01:32	0.000	2.425
N106	JUNCTION	138.50	139.99	0	00:15	8.090	10.549
N106A	JUNCTION	0.00	139.61	0	00:15	0.000	10.549
N146A	JUNCTION	0.00	10.39	0	00:11	0.000	0.404
N146	JUNCTION	10.67	10.67	0	00:10	0.405	0.405
N81	JUNCTION	223.94	248.29	0	02:12	15.670	76.283
N98A	JUNCTION	0.00	190.90	0	01:28	0.000	48.460
N86A	JUNCTION	0.00	4.48	0	00:10	0.000	0.567
N67A	JUNCTION	0.00	143.45	0	00:14	0.000	11.309
N147A	JUNCTION	0.00	14.48	0	00:11	0.000	1.254
N147	JUNCTION	15.04	15.04	0	00:10	1.255	1.255
N10A	JUNCTION	18.15	47.70	0	00:45	3.514	20.373
S17W_out	JUNCTION	0.00	12.88	0	01:13	0.000	1.464
S17E_out	JUNCTION	0.00	14.98	0	01:36	0.000	2.147
S17_out	JUNCTION	0.00	7.56	0	04:26	0.000	2.504
N12A	JUNCTION	0.00	14.77	0	00:09	0.000	9.896
OUT1	OUTFALL	0.00	12.36	0	00:08	0.000	7.715
OUT2	OUTFALL	0.00	31.02	0	06:05	0.000	17.564
OUT7	OUTFALL	0.00	5.68	0	00:18	0.000	0.970
OUT8	OUTFALL	0.00	6.65	0	00:10	0.000	0.545
OUT9	OUTFALL	0.00	22.88	0	00:10	0.000	1.438
OUT10	OUTFALL	0.00	1.15	0	01:05	0.000	0.281
OUT11	OUTFALL	0.00	1.83	0	01:05	0.000	0.267
OUT12	OUTFALL	0.00	31.94	0	00:20	0.000	1.373
OUT13	OUTFALL	0.00	70.08	0	00:10	0.000	3.489
OUT14	OUTFALL	0.00	16.58	0	00:11	0.000	0.677
OUT15	OUTFALL	0.00	34.87	0	00:10	0.000	1.421
OUT16	OUTFALL	94.29	174.07	0	00:15	7.534	18.456
OUT17	OUTFALL	0.00	155.03	0	00:15	0.000	8.346
OUT18	OUTFALL	0.00	33.61	0	00:13	0.000	9.114
OUT19	OUTFALL	0.00	13.57	0	00:10	0.000	0.484
OUT20	OUTFALL	0.00	422.05	0	01:05	0.000	142.743
OUT21	OUTFALL	0.00	3.34	0	01:05	0.000	0.606
OUT22	OUTFALL	0.00	29.87	0	00:10	0.000	2.301
OUT23	OUTFALL	0.00	28.53	0	00:10	0.000	1.885
OUT24	OUTFALL	0.00	9.18	0	00:10	0.000	0.560
OUT25	OUTFALL	0.00	6.71	0	00:10	0.000	0.243
OUT27	OUTFALL	0.00	3.97	0	00:10	0.000	0.202
OUT26	OUTFALL	0.00	90.70	0	00:10	0.000	7.043
OUT28	OUTFALL	0.00	12.99	0	00:10	0.000	0.562
N44	DIVIDER	25.93	177.55	0	00:29	2.360	17.595
S17W	STORAGE	34.13	34.13	0	00:15	1.614	1.614
S17E	STORAGE	13.54	20.00	0	01:05	0.688	2.152
S17	STORAGE	42.97	46.14	0	00:16	1.837	3.983
S56	STORAGE	0.00	46.92	0	00:10	0.000	6.502
S57	STORAGE	0.00	7.62	0	00:10	0.000	1.113
S60	STORAGE	0.00	179.63	0	00:15	0.000	9.160
S58	STORAGE	0.00	30.40	0	00:10	0.000	4.380
S61	STORAGE	0.00	68.09	0	00:15	0.000	5.270
S138	STORAGE	0.00	15.10	0	00:10	0.000	5.436

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Node Surcharge Summary
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Surcharging occurs when water rises above the top of the highest conduit.

Node	Type	Hours Surcharged	Max. Height Above Crown Feet	Min. Depth Below Rim Feet
N1	JUNCTION	13.04	0.000	0.000
N100	JUNCTION	25.01	0.000	10.000
N101	JUNCTION	25.01	0.000	10.000
N102	JUNCTION	25.01	0.000	10.000
N105	JUNCTION	25.01	0.000	10.000
N109	JUNCTION	25.01	0.000	10.000
N110	JUNCTION	25.01	0.000	10.000
N12	JUNCTION	24.86	6.000	0.000
N15	JUNCTION	0.69	0.000	0.000
N15A	JUNCTION	0.49	0.000	0.000
N16A	JUNCTION	0.28	0.000	0.000
N2	JUNCTION	6.48	0.000	0.000
N21	JUNCTION	1.30	0.000	0.000
N22	JUNCTION	1.48	0.000	0.000
N25	JUNCTION	2.45	0.000	0.000
N25A	JUNCTION	2.43	0.000	0.000
N26	JUNCTION	12.68	0.000	0.000
N29	JUNCTION	0.53	0.000	0.000
N31	JUNCTION	0.62	0.000	0.000
N34	JUNCTION	0.97	0.000	0.000
N35	JUNCTION	25.01	0.000	10.000
N40	JUNCTION	1.21	0.000	0.000
N41	JUNCTION	1.30	0.000	0.000
N41A	JUNCTION	1.29	0.000	0.000
N46A	JUNCTION	0.26	0.000	0.000
N51	JUNCTION	0.19	0.000	0.000
N57	JUNCTION	25.01	0.000	10.000
N58	JUNCTION	25.01	0.000	10.000
N60	JUNCTION	25.01	0.000	10.000
N61	JUNCTION	25.01	0.000	10.000
N65	JUNCTION	0.45	0.000	0.000
N65A	JUNCTION	0.37	0.000	5.500
N67	JUNCTION	0.16	0.000	0.000
N68	JUNCTION	25.01	0.000	10.000
N6A	JUNCTION	1.04	0.000	0.000
N71	JUNCTION	0.18	0.000	0.000
N77	JUNCTION	25.01	0.000	10.000
N7A	JUNCTION	9.73	0.000	0.000
N8	JUNCTION	0.21	0.000	0.000
N80	JUNCTION	1.38	0.000	0.000
N82	JUNCTION	25.01	0.000	10.000
N83	JUNCTION	25.01	0.000	10.000
N84	JUNCTION	25.01	0.000	10.000
N85	JUNCTION	0.19	0.000	0.000
N87	JUNCTION	25.01	0.000	10.000
N88	JUNCTION	25.01	0.000	10.000
N89	JUNCTION	25.01	0.000	10.000
N90	JUNCTION	25.01	0.000	10.000
N91	JUNCTION	25.01	0.000	10.000
N93	JUNCTION	25.01	0.000	10.000
N99	JUNCTION	25.01	0.000	10.000
N111A	JUNCTION	6.04	0.000	0.000
N111	JUNCTION	0.28	0.000	0.000
N131	JUNCTION	0.27	0.000	0.000
N132	JUNCTION	0.23	0.000	0.000
N130	JUNCTION	0.06	0.000	0.000
N137	JUNCTION	24.93	0.000	0.000
N127	JUNCTION	0.70	0.000	0.000
N128	JUNCTION	0.47	0.000	0.000
N129	JUNCTION	0.14	0.000	0.000
N133	JUNCTION	0.13	0.000	0.000
N134	JUNCTION	0.11	0.000	0.000
N116	JUNCTION	0.19	0.000	0.000
N117	JUNCTION	1.09	0.000	0.000
N114	JUNCTION	0.27	0.000	0.000
N119	JUNCTION	2.44	0.000	0.000
N120	JUNCTION	0.16	0.000	0.000
N121	JUNCTION	1.21	0.000	0.000

N122	JUNCTION	6.59	0.000	0.000
N123	JUNCTION	0.13	0.000	0.000
N124	JUNCTION	0.33	0.000	0.000
N125	JUNCTION	1.03	0.000	0.000
N138	JUNCTION	25.01	0.000	0.000
N129A	JUNCTION	0.46	0.000	0.000
N71A	JUNCTION	0.13	0.000	0.000
N67A	JUNCTION	2.58	0.000	0.000
N10A	JUNCTION	24.88	1.300	0.000
S17W	STORAGE	24.73	3.625	0.375
S56	STORAGE	25.01	0.827	1.173
S57	STORAGE	25.01	0.900	1.100
S60	STORAGE	25.01	1.044	0.956
S58	STORAGE	25.01	0.901	1.099
S61	STORAGE	25.01	1.128	0.872
S138	STORAGE	25.01	0.856	1.144

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Node Flooding Summary
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Flooding refers to all water that overflows a node, whether it ponds or not.

Node	Hours Flooded	Maximum Rate CFS	Time of Max Occurrence days	hr:min	Total Flood Volume Mgal	Maximum Ponded Volume acre-in
N1	13.04	166.58	0	00:38	10.809	0.00
N12	24.86	68.75	0	01:11	20.876	0.00
N15	0.69	117.78	0	00:15	0.845	0.00
N15A	0.49	0.00	0	00:00	0.000	0.00
N16A	0.28	29.56	0	00:11	0.132	0.00
N2	6.48	202.87	0	00:23	6.694	0.00
N21	1.30	29.05	0	00:10	0.254	0.00
N22	1.48	49.54	0	00:17	1.336	0.00
N25	2.45	114.02	0	00:16	2.189	0.00
N25A	2.43	0.00	0	00:00	0.000	0.00
N26	12.68	62.01	0	00:15	4.552	0.00
N29	0.53	8.85	0	00:20	0.079	0.00
N31	0.62	27.72	0	00:20	0.268	0.00
N34	0.97	41.54	0	00:16	0.395	0.00
N40	1.21	1.89	0	01:48	0.034	0.00
N41	1.30	107.27	0	00:55	2.022	0.00
N41A	1.29	0.00	0	00:00	0.000	0.00
N46A	0.26	68.03	0	00:17	0.287	0.00
N51	0.19	32.05	0	00:19	0.101	0.00
N65	0.45	56.35	0	00:15	0.299	0.00
N67	0.16	14.41	0	00:16	0.036	0.00
N6A	1.04	8.11	0	00:10	0.051	0.00
N71	0.18	13.74	0	00:17	0.039	0.00
N7A	9.73	62.71	0	00:10	2.192	0.00
N8	0.21	31.07	0	00:15	0.110	0.00
N80	1.38	47.81	0	00:10	0.573	0.00
N85	0.19	6.13	0	00:10	0.014	0.00
N111A	6.04	99.04	0	00:11	3.389	0.00
N111	0.28	35.25	0	00:15	0.157	0.00
N131	0.27	13.65	0	00:10	0.044	0.00
N132	0.23	24.04	0	00:15	0.083	0.00
N130	0.06	2.01	0	00:10	0.002	0.00
N137	24.93	28.22	0	00:10	1.001	0.00
N127	0.70	102.58	0	00:16	1.040	0.00
N128	0.47	9.08	0	00:29	0.020	0.00
N129	0.14	6.41	0	00:10	0.018	0.00
N133	0.13	8.41	0	00:13	0.020	0.00
N134	0.11	7.61	0	00:12	0.014	0.00
N116	0.19	4.33	0	00:15	0.015	0.00
N117	1.09	23.49	0	00:15	0.258	0.00
N114	0.27	7.18	0	00:15	0.034	0.00
N119	2.44	62.45	0	00:10	1.068	0.00
N120	0.16	8.56	0	00:19	0.026	0.00

N121	1.21	9.90	0	00:10	0.099	0.00
N122	6.59	77.11	0	00:15	1.911	0.00
N123	0.13	4.71	0	00:20	0.011	0.00
N124	0.33	26.32	0	00:15	0.122	0.00
N125	1.03	31.38	0	00:10	0.229	0.00
N129A	0.46	43.74	0	00:15	0.240	0.00
N71A	0.13	0.00	0	00:00	0.000	0.00
N67A	2.58	106.53	0	00:15	2.290	0.00
N10A	24.88	36.19	0	00:46	12.658	0.00

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Storage Volume Summary
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Storage Unit	Average Volume 1000 ft3	Avg Pcnt Full	Maximum Volume 1000 ft3	Max Pcnt Full	Time of Max Occurrence days hr:min	Maximum Outflow CFS
S17W	24.366	39	57.297	92	0 01:12	12.88
S17E	5.152	3	32.734	18	0 01:35	14.98
S17	214.933	39	268.422	49	0 04:26	7.56
S56	559.783	11	869.250	17	1 01:00	0.00
S57	97.218	13	148.740	20	1 01:00	0.00
S60	945.925	21	1224.628	27	1 01:00	0.00
S58	400.309	14	585.611	20	1 01:00	0.00
S61	461.329	21	704.549	32	1 01:00	0.00
S138	413.745	10	726.727	18	1 01:00	0.00

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Outfall Loading Summary
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Outfall Node	Flow Freq. Pcnt.	Avg. Flow CFS	Max. Flow CFS	Total Volume Mgal
OUT1	99.67	11.50	12.36	7.715
OUT2	99.67	26.17	31.02	17.564
OUT7	99.67	1.45	5.68	0.970
OUT8	99.67	0.81	6.65	0.545
OUT9	99.67	2.14	22.88	1.438
OUT10	99.67	0.42	1.15	0.281
OUT11	99.67	0.40	1.83	0.267
OUT12	99.63	2.05	31.94	1.373
OUT13	99.67	5.20	70.08	3.489
OUT14	99.63	1.01	16.58	0.677
OUT15	99.67	2.12	34.87	1.421
OUT16	99.67	27.50	174.07	18.456
OUT17	99.67	12.43	155.03	8.346
OUT18	99.43	13.61	33.61	9.114
OUT19	99.67	0.72	13.57	0.484
OUT20	99.67	212.69	422.05	142.743
OUT21	99.67	0.90	3.34	0.606
OUT22	99.67	3.43	29.87	2.301
OUT23	99.67	2.81	28.53	1.885
OUT24	99.67	0.83	9.18	0.560
OUT25	99.67	0.36	6.71	0.243
OUT27	99.67	0.30	3.97	0.202
OUT26	99.67	10.49	90.70	7.043
OUT28	99.63	0.84	12.99	0.562
System	99.65	340.19	965.95	228.285

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Link Flow Summary
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Link	Type	Maximum Flow CFS	Time of Max Occurrence days	hr:min	Maximum Velocity ft/sec	Max/ Full Flow	Max/ Full Depth
C100-10	DUMMY	1.15	0	01:05			
C10-10A	CONDUIT	42.89	0	00:43	2.26	0.38	0.61
C101-9	DUMMY	22.88	0	00:10			
C103-97	CONDUIT	11.41	0	02:15	0.68	0.01	0.05
C104-26	DUMMY	90.70	0	00:10			
C105-110	DUMMY	2.74	0	01:05			
C107-7	DUMMY	5.68	0	00:18			
C108-16	DUMMY	109.60	0	00:40			
C109-21	DUMMY	3.34	0	01:05			
C1-10	CONDUIT	27.64	0	12:52	9.35	1.08	1.00
C11-2	CONDUIT	31.02	0	06:05	7.22	0.17	0.24
C12A-11	CONDUIT	14.77	0	19:06	0.62	0.01	0.06
C102-8	DUMMY	6.65	0	00:10			
C13-12	CONDUIT	49.81	0	06:37	1.52	0.20	0.50
C14-14A	CONDUIT	53.64	0	00:15	8.12	0.75	0.65
C14A-12	CONDUIT	31.96	0	00:40	1.60	0.01	0.05
C15-15A	CONDUIT	103.97	0	00:39	9.00	1.19	1.00
C15A-22	CONDUIT	93.23	0	00:42	4.32	0.46	0.71
C16-16A	CONDUIT	65.11	0	00:10	12.41	0.23	0.29
C16A-18	CONDUIT	34.99	0	00:09	4.44	1.00	1.00
C61-S61	DUMMY	68.09	0	00:15			
C17-17A	CONDUIT	26.71	0	00:10	7.33	0.08	0.15
C17A-11	CONDUIT	12.65	0	00:25	1.11	0.00	0.03
C18-18A	CONDUIT	49.01	0	00:10	7.29	0.09	0.17
C18A-54	CONDUIT	131.07	0	00:17	4.81	0.65	0.82
C19-13	CONDUIT	2.58	0	00:11	2.76	0.02	0.16
C20-20A	CONDUIT	11.48	0	01:05	4.27	0.08	0.15
C20A-12	CONDUIT	11.01	0	02:22	0.93	0.00	0.03
C66-17	DUMMY	155.03	0	00:15			
C21-21A	CONDUIT	7.77	0	01:18	2.69	1.07	1.00
C2-13	CONDUIT	51.91	0	06:23	8.80	1.08	1.00
C21A-20	CONDUIT	7.38	0	01:30	0.89	0.00	0.02
C22A-4	CONDUIT	52.20	0	01:31	5.31	0.16	0.42
C23-25	CONDUIT	142.13	0	00:16	5.31	0.23	0.53
C24-17	CONDUIT	0.87	0	03:48	0.39	0.00	0.01
C25-25A	CONDUIT	30.42	0	02:39	1.69	1.08	1.00
C25A-25B	CHANNEL	30.27	0	02:39	2.79	0.07	0.32
C25B-26	CHANNEL	41.13	0	00:15	3.27	0.08	0.35
C26-26A	CONDUIT	10.77	0	12:35	3.69	1.07	1.00
C26A-29	CONDUIT	10.43	0	12:36	1.70	0.13	0.46
C27-25B	CONDUIT	17.42	0	00:10	7.50	0.83	0.69
C28-28A	CONDUIT	12.56	0	00:10	5.64	0.79	0.67
C28A-30	CONDUIT	12.51	0	00:10	5.68	0.07	0.37
C29-30	CONDUIT	34.35	0	00:13	2.49	1.12	1.00
C30-30A	CONDUIT	45.39	0	00:13	3.90	0.69	0.86
C30A-30B	CONDUIT	55.13	0	00:13	6.94	0.39	0.43
C30B-31	CONDUIT	47.78	0	00:23	2.47	0.06	0.23
C3-1	CONDUIT	154.33	0	00:44	3.96	0.78	0.90
C31-31A	CONDUIT	81.60	0	00:15	4.22	1.06	1.00
C31A-32	CONDUIT	78.99	0	00:53	1.45	0.30	0.60
C32-3	CONDUIT	93.39	0	00:35	9.22	0.03	0.21
C33-33A	CONDUIT	52.33	0	01:13	5.03	0.94	0.77
C33A-4	CONDUIT	51.73	0	01:16	2.59	0.04	0.24
C34-34A	CONDUIT	53.57	0	01:09	8.01	1.09	1.00
C34A-33	CONDUIT	52.20	0	01:12	1.93	0.05	0.27
C35-15	DUMMY	34.87	0	00:10			
C36-5	CONDUIT	135.21	0	00:23	10.43	0.73	0.63
C37-120	CONDUIT	11.18	0	00:25	5.40	0.04	0.13
C38-38A	CONDUIT	128.15	0	00:26	10.13	0.70	0.61
C39-39A	CONDUIT	100.73	0	01:52	12.48	0.22	0.28
C39A-98A	CONDUIT	100.09	0	01:53	3.56	0.01	0.16
C40-40A	CONDUIT	93.96	0	00:58	8.86	1.05	0.91
C40A-39	CONDUIT	93.98	0	01:51	2.15	0.20	0.50
C41-41A	CONDUIT	89.03	0	01:47	8.76	1.01	1.00
C41A-40	CONDUIT	89.67	0	01:48	2.49	0.29	0.59
C42-41	CHANNEL	189.30	0	00:54	3.18	0.01	0.18
C44A-43	CHANNEL	176.78	0	00:31	5.07	0.04	0.32

C4-4A	CONDUIT	55.65	0	00:12	6.73	0.96	0.79
C45-44	CHANNEL	167.39	0	00:29	5.56	0.01	0.31
C46-46A	CONDUIT	214.94	0	00:16	14.64	0.17	0.24
C46A-45	CHANNEL	146.90	0	00:12	8.40	1.00	1.00
C47-46	CHANNEL	191.65	0	00:17	6.40	0.49	0.72
C48-47	CONDUIT	174.68	0	00:16	8.10	0.53	0.52
C49-48	CONDUIT	111.85	0	00:15	8.29	0.26	0.32
C4A-51	CONDUIT	54.85	0	00:16	3.42	0.30	0.58
C50-49	CONDUIT	9.60	0	00:10	3.41	0.02	0.07
C51-2	CONDUIT	185.22	0	00:27	4.90	1.00	1.00
C52-107	CONDUIT	4.44	0	00:10	10.35	0.08	0.19
C53-53A	CONDUIT	6.39	0	00:10	11.01	0.28	0.37
C53A-107	CONDUIT	3.72	0	00:22	2.16	0.01	0.11
C54-54A	CONDUIT	164.24	0	00:17	5.17	0.76	0.89
C54A-51	CONDUIT	162.98	0	00:18	6.06	0.61	0.80
C55-55A	CONDUIT	19.87	0	00:10	6.25	0.78	0.61
C5-5A	CONDUIT	36.25	0	00:15	6.24	0.62	0.57
C55A-56	CONDUIT	9.21	0	00:25	1.31	0.00	0.02
C56-S56	DUMMY	46.92	0	00:10			
C57-S57	DUMMY	7.62	0	00:10			
C58-S58	DUMMY	30.40	0	00:10			
C59-12	CONDUIT	31.94	0	00:20	4.52	0.05	0.11
C5A-1	CONDUIT	47.76	0	00:18	4.77	0.16	0.41
C60-S60	DUMMY	179.63	0	00:15			
C62-13	CONDUIT	70.08	0	00:10	8.74	0.69	0.61
C63-14	CONDUIT	16.58	0	00:11	6.09	0.35	0.41
C64-28	CONDUIT	12.99	0	00:10	4.85	0.41	0.44
C65-65A	CONDUIT	85.21	0	00:32	5.87	1.07	1.00
C65A-108	CONDUIT	76.63	0	00:41	2.22	0.02	0.09
C6-6A	CONDUIT	21.14	0	00:10	6.40	0.11	0.23
C67-67A	CONDUIT	143.45	0	00:14	6.21	1.05	1.00
C68-19	DUMMY	13.57	0	00:10			
C69-98	CONDUIT	82.22	0	01:30	1.58	0.04	0.14
C6A-5	CONDUIT	12.99	0	00:09	3.73	1.00	1.00
C70-70A	CONDUIT	68.23	0	00:24	7.48	0.70	0.62
C71-71A	CONDUIT	66.79	0	00:23	5.90	1.06	1.00
C72-72A	CONDUIT	73.33	0	00:16	9.66	0.53	0.47
C73-73A	CONDUIT	60.93	0	00:15	10.29	0.96	0.79
C74-74A	CONDUIT	6.21	0	00:10	4.43	0.14	0.25
C75-97	CONDUIT	0.36	0	16:15	0.21	0.00	0.00
C76A-42	CONDUIT	11.34	0	00:25	1.48	0.00	0.04
C77A-41	CHANNEL	4.15	0	00:19	3.98	0.00	0.05
C7-7A	CONDUIT	17.21	0	00:10	4.33	0.10	0.18
C78A-66	CONDUIT	44.48	0	00:43	1.94	0.01	0.06
C79-79A	CONDUIT	46.69	0	00:15	12.65	0.35	0.41
C7A-6	CONDUIT	11.47	0	00:08	3.06	1.00	1.00
C106A-67	CONDUIT	138.44	0	00:16	3.82	0.08	0.23
C82-109	DUMMY	1.36	0	00:10			
C8-8A	CONDUIT	198.54	0	00:14	8.86	1.13	1.00
C83-109	DUMMY	0.29	0	01:05			
C84-109	DUMMY	1.84	0	01:05			
C85-85A	CONDUIT	7.74	0	00:18	4.88	1.04	1.00
C85A-92	CONDUIT	3.30	0	01:29	0.71	0.00	0.01
C86A-92	CONDUIT	2.17	0	02:23	0.69	0.00	0.01
C87-23	DUMMY	28.53	0	00:10			
C88-24	DUMMY	9.18	0	00:10			
C89-25	DUMMY	6.71	0	00:10			
C90-110	DUMMY	13.09	0	00:10			
C9-10	CONDUIT	31.68	0	00:18	0.77	0.36	0.66
C91-110	DUMMY	14.97	0	00:10			
C92-20	DUMMY	422.05	0	01:05			
C93-27	DUMMY	3.97	0	00:10			
C94-92	CONDUIT	18.61	0	02:20	1.11	0.00	0.04
C95-94	CONDUIT	18.07	0	01:39	0.71	0.01	0.07
C96-96A	CONDUIT	45.64	0	00:11	4.54	0.22	0.28
C97-81	CONDUIT	64.23	0	01:15	0.90	0.07	0.19
C98A-81	CONDUIT	172.84	0	02:22	1.44	0.13	0.29
C99-11	DUMMY	1.83	0	01:05			
C111A-7	CONDUIT	16.91	0	00:07	4.84	1.00	1.00
C111-111A	CONDUIT	115.95	0	00:11	7.67	1.00	1.00
C112-111	CONDUIT	107.44	0	00:15	19.14	0.43	0.46
C132A-12	CONDUIT	72.39	0	00:23	9.00	0.24	0.33

C131A-111	CONDUIT	11.40	0	00:24	5.39	0.04	0.13
C130A-137A	CONDUIT	16.33	0	00:13	6.19	0.75	0.64
C137A-132	CONDUIT	13.40	0	00:19	5.78	0.04	0.14
C126A-8	CONDUIT	37.96	0	00:25	7.85	0.13	0.24
C8A-127	CONDUIT	203.99	0	00:16	8.03	0.38	0.69
C127A-129A	CONDUIT	103.31	0	00:48	10.62	0.31	0.38
C128A-3	CONDUIT	146.36	0	00:40	2.40	0.04	0.15
C129A-128	CONDUIT	152.53	0	00:29	8.60	1.07	1.00
C134-133	CONDUIT	75.91	0	00:16	8.69	1.07	0.94
C135-134	CONDUIT	50.40	0	00:12	8.07	0.71	0.62
C113-23	CONDUIT	83.65	0	00:15	8.62	0.96	0.81
C114-113	CONDUIT	22.34	0	00:11	7.83	1.08	1.00
C115-113	CONDUIT	41.10	0	00:14	7.04	0.86	0.91
C117A-115	CONDUIT	11.70	0	01:13	5.20	0.04	0.13
C116A-115	CONDUIT	16.74	0	00:21	5.85	0.06	0.16
C118A-34	CONDUIT	40.18	0	00:18	7.50	0.13	0.25
C119A-118	CONDUIT	7.88	0	02:26	4.58	0.03	0.11
C120A-36	CONDUIT	105.53	0	00:24	9.93	0.35	0.41
C121A-120	CONDUIT	2.63	0	01:23	3.43	0.01	0.07
C122A-120	CONDUIT	7.79	0	06:43	4.53	0.03	0.11
C123A-38	CONDUIT	103.44	0	00:26	9.74	0.35	0.40
C124A-123	CONDUIT	48.12	0	00:31	8.15	0.16	0.27
C125A-123	CONDUIT	16.48	0	01:11	5.96	0.06	0.16
C136A-104	CONDUIT	8.58	0	01:32	0.52	0.01	0.04
C96A-95	CONDUIT	35.83	0	00:23	1.06	0.02	0.09
C38A-6	CONDUIT	106.15	0	00:51	2.22	0.19	0.37
C6-5	CONDUIT	209.12	0	05:04	1.63	0.13	0.31
C5-4	CONDUIT	234.57	0	05:07	1.77	0.14	0.31
C4-3	CONDUIT	255.68	0	00:57	1.82	0.15	0.33
C3-92	CONDUIT	337.26	0	01:12	3.42	0.09	0.24
C110-22	DUMMY	29.87	0	00:10			
C138-S138	DUMMY	15.10	0	00:10			
C139-5A	CONDUIT	15.02	0	00:12	1.06	0.00	0.04
C142-2	CONDUIT	3.70	0	00:10	3.96	0.25	0.34
C136-136A	CONDUIT	19.13	0	00:10	2.39	0.00	0.02
C77-77A	DUMMY	6.81	0	00:10			
C44-44A	CONDUIT	177.56	0	00:29	22.84	0.56	0.49
C44-44A_	CONDUIT	0.00	0	00:00	0.00	0.00	0.00
C44A_-44A	DUMMY	0.00	0	00:00			
C126-126A	CONDUIT	55.13	0	00:15	8.11	0.78	0.67
C127-127A	CONDUIT	107.85	0	00:47	9.21	1.07	1.00
C128-128A	CONDUIT	147.19	0	00:29	8.57	1.03	0.93
C129-129A	CONDUIT	50.91	0	00:18	8.08	1.08	0.94
C130-130A	CONDUIT	16.91	0	00:11	5.88	1.06	1.00
C137-137A	CONDUIT	0.20	0	00:06	0.16	1.00	1.00
C132-132A	CONDUIT	75.97	0	00:10	8.42	1.08	1.00
C131-131A	CONDUIT	11.81	0	00:22	5.40	1.05	1.00
C133-15	CONDUIT	109.75	0	00:18	9.82	1.08	0.92
C116-116A	CONDUIT	17.24	0	00:21	6.06	1.08	1.00
C117-117A	CONDUIT	11.88	0	01:11	5.43	1.06	1.00
C119-119A	CONDUIT	7.97	0	02:25	4.90	1.07	1.00
C118-118A	CONDUIT	41.37	0	00:15	7.70	0.58	0.55
C120-120A	CONDUIT	106.67	0	00:19	9.45	1.05	0.94
C121-121A	CONDUIT	2.71	0	01:19	3.83	1.08	1.00
C122-122A	CONDUIT	7.96	0	06:42	4.93	1.07	1.00
C124-124A	CONDUIT	50.46	0	00:29	7.83	1.07	1.00
C125-125A	CONDUIT	17.28	0	01:09	6.14	1.08	1.00
C123-123A	CONDUIT	108.38	0	00:23	9.46	1.07	0.92
C76-76A	CONDUIT	21.52	0	00:10	5.80	0.54	0.52
C43-43A	CONDUIT	176.79	0	00:31	8.00	0.44	0.46
C43A-42	CHANNEL	180.61	0	00:50	2.62	0.10	0.66
C145-145A	CONDUIT	19.84	0	00:20	10.14	0.67	0.60
C145A-103	CONDUIT	12.96	0	00:43	0.84	0.01	0.04
C73A-72	CONDUIT	60.11	0	00:16	1.54	0.02	0.10
C74A-72	CONDUIT	3.17	0	00:23	0.62	0.00	0.01
C72A-71	CONDUIT	73.27	0	00:17	2.70	0.01	0.07
C71A-70	CONDUIT	66.57	0	00:24	2.20	0.01	0.05
C70A-69	CONDUIT	67.56	0	00:25	2.23	0.01	0.08
C22-22A	CONDUIT	53.35	0	01:31	9.02	1.08	1.00
C79A-144	CONDUIT	46.57	0	00:15	2.40	0.01	0.05
C144-144A	CONDUIT	54.17	0	00:16	6.73	0.58	0.50
C144A-78	CONDUIT	54.05	0	00:16	2.28	0.01	0.06

C78-78A	CONDUIT	60.85	0	00:16	8.53	0.59	0.55
C80A-106	CONDUIT	14.01	0	01:39	1.25	0.00	0.03
C106-106A	CONDUIT	139.61	0	00:15	17.11	0.55	0.49
C80-80A	CONDUIT	14.60	0	01:32	1.64	1.08	1.00
C146-146A	CONDUIT	10.39	0	00:11	5.46	0.65	0.59
C146A-114	CONDUIT	6.54	0	00:24	1.07	0.00	0.02
C98-98A	CONDUIT	92.73	0	01:28	1.07	0.07	0.21
C81-6	CONDUIT	187.77	0	05:15	0.28	0.72	0.81
C86-86A	CONDUIT	4.48	0	00:10	4.45	0.60	0.56
C67A-18	CONDUIT	33.61	0	00:13	0.21	1.00	1.00
C147-147A	CONDUIT	14.48	0	00:11	6.68	0.43	0.46
C147A-69	CONDUIT	10.19	0	00:17	1.24	0.00	0.02
C10A-1	CONDUIT	12.36	0	00:08	7.33	1.07	1.00
S17_out-16	CONDUIT	7.51	0	05:05	0.56	0.00	0.03
S17E_out-S17	CONDUIT	14.98	0	01:36	13.83	0.01	0.08
S17W_out-S17E	CONDUIT	12.88	0	01:13	6.16	0.24	0.34
C12-12A	CONDUIT	14.77	0	00:09	9.39	1.00	1.00
S17W-S17W_out	DUMMY	12.88	0	01:13			
S17E-S17E_out	DUMMY	14.98	0	01:36			
S17-S17_out	DUMMY	7.56	0	04:26			

****
Conduit Surcharge Summary
****

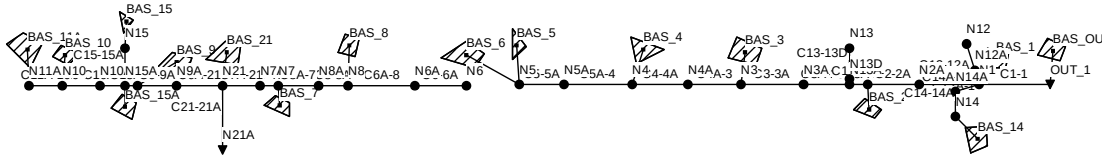
Conduit	Hours Full Both Ends	Hours Full Upstream	Hours Full Dnstream	Hours Above Full Normal Flow	Hours Capacity Limited
C100-10	0.01	0.01	0.01	25.01	0.01
C101-9	0.01	0.01	0.01	25.01	0.01
C104-26	0.01	0.01	0.01	25.01	0.01
C105-110	0.01	0.01	0.01	25.01	0.01
C107-7	0.01	0.01	0.01	25.01	0.01
C108-16	0.01	0.01	0.01	25.01	0.01
C109-21	0.01	0.01	0.01	25.01	0.01
C1-10	12.72	13.03	12.72	0.32	13.03
C102-8	0.01	0.01	0.01	25.01	0.01
C15-15A	0.49	0.68	0.49	0.18	0.68
C16A-18	0.25	0.28	0.27	0.27	0.28
C61-S61	0.01	0.01	0.01	25.01	0.01
C66-17	0.01	0.01	0.01	25.01	0.01
C21-21A	1.20	1.29	1.20	1.30	1.29
C2-13	6.26	6.47	6.26	13.73	6.47
C25-25A	2.41	2.44	2.43	2.52	2.44
C26-26A	12.45	12.68	12.45	12.68	12.68
C29-30	0.46	0.52	0.47	12.86	0.52
C31-31A	0.55	0.61	0.55	1.85	0.61
C34-34A	0.93	0.97	0.95	0.04	0.97
C35-15	0.01	0.01	0.01	25.01	0.01
C40-40A	0.01	1.20	0.01	0.77	1.20
C41-41A	1.28	1.29	1.29	1.30	1.29
C4-4A	0.01	0.01	0.01	3.36	0.01
C46A-45	0.24	0.25	0.24	0.24	0.25
C48-47	0.01	0.01	0.01	0.07	0.01
C51-2	0.01	0.18	0.03	0.03	0.18
C5-5A	0.01	0.01	0.01	0.22	0.01
C56-S56	0.01	0.01	0.01	25.01	0.01
C57-S57	0.01	0.01	0.01	25.01	0.01
C58-S58	0.01	0.01	0.01	25.01	0.01
C60-S60	0.01	0.01	0.01	25.01	0.01
C65-65A	0.37	0.44	0.37	0.45	0.44
C67-67A	0.13	0.15	0.14	1.57	0.15
C68-19	0.01	0.01	0.01	25.01	0.01
C6A-5	1.00	1.03	1.01	1.01	1.03
C70-70A	0.01	0.01	0.01	0.33	0.01
C71-71A	0.13	0.17	0.13	0.18	0.17
C7A-6	9.70	9.72	9.72	9.72	9.72
C82-109	0.01	0.01	0.01	25.01	0.01
C8-8A	0.01	0.20	0.01	0.82	0.20

C83-109	0.01	0.01	0.01	25.01	0.01
C84-109	0.01	0.01	0.01	25.01	0.01
C85-85A	0.16	0.18	0.16	0.19	0.18
C87-23	0.01	0.01	0.01	25.01	0.01
C88-24	0.01	0.01	0.01	25.01	0.01
C89-25	0.01	0.01	0.01	25.01	0.01
C90-110	0.01	0.01	0.01	25.01	0.01
C91-110	0.01	0.01	0.01	25.01	0.01
C92-20	0.01	0.01	0.01	25.01	0.01
C93-27	0.01	0.01	0.01	25.01	0.01
C99-11	0.01	0.01	0.01	25.01	0.01
C111A-7	6.03	6.03	6.03	0.01	6.03
C111-111A	0.28	0.28	0.28	1.12	0.28
C129A-128	0.28	0.45	0.28	1.27	0.45
C134-133	0.01	0.10	0.01	0.11	0.10
C114-113	0.22	0.26	0.23	0.04	0.26
C110-22	0.01	0.01	0.01	25.01	0.01
C138-S138	0.01	0.01	0.01	25.01	0.01
C77-77A	0.01	0.01	0.01	25.01	0.01
C44A_-44A	0.01	0.01	0.01	25.01	0.01
C127-127A	0.62	0.69	0.62	0.07	0.69
C128-128A	0.01	0.18	0.01	1.27	0.18
C129-129A	0.01	0.13	0.01	0.13	0.13
C130-130A	0.03	0.05	0.03	0.03	0.05
C137-137A	24.92	24.93	24.92	24.92	24.93
C132-132A	0.17	0.22	0.17	0.23	0.22
C131-131A	0.23	0.26	0.23	0.03	0.26
C133-15	0.01	0.12	0.01	0.08	0.12
C116-116A	0.15	0.18	0.16	0.20	0.18
C117-117A	1.05	1.08	1.05	0.04	1.08
C119-119A	2.32	2.43	2.32	2.46	2.43
C120-120A	0.01	0.15	0.01	0.16	0.15
C121-121A	1.18	1.20	1.20	1.23	1.20
C122-122A	6.57	6.58	6.58	0.06	6.58
C124-124A	0.28	0.33	0.28	0.06	0.33
C125-125A	1.01	1.02	1.02	0.02	1.02
C123-123A	0.01	0.13	0.01	0.13	0.13
C22-22A	1.34	1.48	1.34	4.08	1.48
C80-80A	1.34	1.38	1.37	3.25	1.38
C67A-18	2.50	2.58	2.56	2.56	2.58
C10A-1	24.87	24.88	24.87	24.88	24.88
C12-12A	24.86	24.86	24.86	24.86	24.86

Analysis begun on: Wed Sep 17 12:46:03 2008
Analysis ended on: Wed Sep 17 12:46:05 2008
Total elapsed time: 00:00:02

"City of Brookings, SD-Study Area 13"

01/01/2007 00:05:00



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EPA STORM WATER MANAGEMENT MODEL - VERSION 5.0 (Build 5.0.013)
--------------------------------------------------------------

"City of Brookings, SD-Study Area 13: 100-yr 24-hr Storm Event"

****************
Analysis Options
****************
Flow Units ............... CFS
Infiltration Method ...... CURVE_NUMBER
Flow Routing Method ...... KINWAVE
Starting Date ............ JAN-01-2007 00:00:00
Ending Date .............. JAN-02-2007 01:00:00
Antecedent Dry Days ...... 0.0
Report Time Step ......... 00:05:00
Wet Time Step ............ 00:05:00
Dry Time Step ............ 00:05:00
Routing Time Step ........ 30.00 sec


**************************        Volume         Depth
Runoff Quantity Continuity     acre-feet        inches
**************************     ---------       -------
Total Precipitation ......        58.410         5.750
Evaporation Loss .........         0.000         0.000
Infiltration Loss ........        17.041         1.678
Surface Runoff ...........        40.031         3.941
Final Surface Storage ....         1.692         0.167
Continuity Error (%) .....        -0.606


**************************        Volume        Volume
Flow Routing Continuity        acre-feet      Mgallons
**************************     ---------     ---------
Dry Weather Inflow .......         0.000         0.000
Wet Weather Inflow .......        40.017        13.040
Groundwater Inflow .......         0.000         0.000
RDII Inflow ..............         0.000         0.000
External Inflow ..........         0.000         0.000
External Outflow .........        40.009        13.038
Internal Outflow .........         0.000         0.000
Evaporation Loss .........         0.000         0.000
Initial Stored Volume ....         0.000         0.000
Final Stored Volume ......         0.011         0.004
Continuity Error (%) .....        -0.009


********************************
Highest Flow Instability Indexes
********************************
Link C21-21A (2)
Link C9-9A (1)
Link C2-2A (1)
Link C4-4A (1)
Link C2A-1 (1)


*************************
Routing Time Step Summary
*************************
Minimum Time Step           :    30.00 sec
Average Time Step           :    30.00 sec
Maximum Time Step           :    30.00 sec
Percent in Steady State     :     0.00
Average Iterations per Step :     1.06


***************************
Subcatchment Runoff Summary
***************************
```

Subcatchment	Total Precip in	Total Runon in	Total Evap in	Total Infil in	Total Runoff in	Total Runoff Mgal	Peak Runoff CFS	Runoff Coeff
BAS_11A	5.750	0.000	0.000	1.533	4.183	0.738	18.344	0.727
BAS_10	5.750	0.000	0.000	1.532	4.186	0.227	6.116	0.728
BAS_15A	5.750	0.000	0.000	1.532	4.183	0.057	1.560	0.727
BAS_15	5.750	0.000	0.000	1.532	4.121	3.592	65.088	0.717
BAS_9	5.750	0.000	0.000	1.531	4.181	0.057	1.567	0.727
BAS_21	5.750	0.000	0.000	1.533	4.185	0.182	4.637	0.728
BAS_7	5.750	0.000	0.000	1.533	4.186	0.159	4.229	0.728
BAS_8	5.750	0.000	0.000	1.533	4.184	0.170	4.324	0.728
BAS_6	5.750	0.000	0.000	1.768	3.918	0.021	0.497	0.681
BAS_5	5.750	0.000	0.000	1.767	3.924	0.064	1.577	0.682
BAS_4	5.750	0.000	0.000	1.767	3.872	0.810	14.222	0.673
BAS_3	5.750	0.000	0.000	1.767	3.877	0.432	7.732	0.674
BAS_2	5.750	0.000	0.000	1.765	3.923	0.021	0.542	0.682
BAS_1	5.750	0.000	0.000	1.767	3.924	0.011	0.266	0.682
BAS_14	5.750	0.000	0.000	1.766	3.821	0.114	1.826	0.665
BAS_OUT1	5.750	0.000	0.000	1.766	3.807	6.389	98.922	0.662
System	5.750	0.000	0.000	1.678	3.941	13.044	223.105	0.685

****
Node Depth Summary
****

Node	Type	Average Depth Feet	Maximum Depth Feet	Maximum HGL Feet	Time of Max Occurrence days hr:min
N2A	JUNCTION	0.34	2.00	1622.43	0 00:16
N3A	JUNCTION	0.31	1.43	1622.66	0 00:14
N3	JUNCTION	0.31	1.43	1623.25	0 00:14
N4A	JUNCTION	0.23	1.05	1624.73	0 00:13
N4	JUNCTION	0.23	1.05	1625.05	0 00:13
N5A	JUNCTION	0.10	0.48	1626.14	0 00:10
N5	JUNCTION	0.10	0.49	1626.46	0 00:10
N6	JUNCTION	0.00	0.00	1628.70	0 00:00
N6A	JUNCTION	0.00	0.00	1628.50	0 00:00
N1	JUNCTION	0.24	1.12	1621.09	0 00:15
N21	JUNCTION	0.20	1.02	1628.03	0 00:16
N7A	JUNCTION	0.20	1.19	1628.29	0 00:10
N7	JUNCTION	0.20	1.19	1628.49	0 00:10
N8A	JUNCTION	0.15	0.85	1628.35	0 00:10
N8	JUNCTION	0.15	0.85	1628.55	0 00:10
N9A	JUNCTION	0.41	2.08	1629.66	0 00:14
N10A	JUNCTION	0.21	1.50	1630.64	0 00:11
N11A	JUNCTION	0.06	0.38	1637.68	0 00:10
N15A	JUNCTION	0.30	1.41	1630.04	0 00:15
N15	JUNCTION	0.31	1.41	1641.64	0 00:15
N13A	JUNCTION	0.07	0.38	1621.20	0 00:14
N13	JUNCTION	0.00	0.00	1623.51	0 00:00
N12A	JUNCTION	0.00	0.00	1621.08	0 00:00
N12	JUNCTION	0.00	0.00	1623.28	0 00:00
N14A	JUNCTION	0.10	0.37	1620.98	0 00:15
N14	JUNCTION	0.10	0.37	1621.59	0 00:15
N13D	JUNCTION	0.00	0.00	1621.46	0 00:00
N11	JUNCTION	0.00	0.22	1620.65	0 00:14
N16	JUNCTION	0.00	0.30	1629.44	0 00:10
N17	JUNCTION	0.00	0.28	1627.86	0 00:15
N21A	OUTFALL	0.09	0.37	0.37	0 00:16
OUT_1	OUTFALL	0.24	1.12	1620.88	0 00:15
N2	DIVIDER	0.34	2.00	1622.76	0 00:11
N10	DIVIDER	0.21	1.50	1633.46	0 00:10
N9	DIVIDER	0.41	2.50	1630.80	0 00:14

****

Node InFlow Summary
****

Node	Type	Maximum Lateral Inflow CFS	Maximum Total Inflow CFS	Time of Max Occurrence days hr:min	Lateral Inflow Volume Mgal	Total Inflow Volume Mgal
N2A	JUNCTION	0.00	24.58	0 00:13	0.000	1.347
N3A	JUNCTION	0.00	23.67	0 00:14	0.000	1.326
N3	JUNCTION	7.73	23.67	0 00:14	0.432	1.326
N4A	JUNCTION	0.00	16.02	0 00:13	0.000	0.894
N4	JUNCTION	14.22	16.02	0 00:13	0.809	0.895
N5A	JUNCTION	0.00	2.05	0 00:10	0.000	0.085
N5	JUNCTION	2.07	2.07	0 00:10	0.085	0.085
N6	JUNCTION	0.00	0.00	0 00:00	0.000	0.000
N6A	JUNCTION	0.00	0.00	0 00:00	0.000	0.000
N1	JUNCTION	0.27	26.47	0 00:15	0.011	1.472
N21	JUNCTION	4.64	98.82	0 00:16	0.182	5.180
N7A	JUNCTION	0.00	8.32	0 00:10	0.000	0.330
N7	JUNCTION	4.23	8.33	0 00:10	0.159	0.330
N8A	JUNCTION	0.00	4.29	0 00:10	0.000	0.170
N8	JUNCTION	4.32	4.32	0 00:10	0.170	0.170
N9A	JUNCTION	0.00	88.63	0 00:15	0.000	4.669
N10A	JUNCTION	0.00	26.05	0 00:10	0.000	0.966
N11A	JUNCTION	18.34	18.34	0 00:10	0.738	0.738
N15A	JUNCTION	1.56	86.50	0 00:15	0.057	4.613
N15	JUNCTION	65.09	65.09	0 00:15	3.591	3.591
N13A	JUNCTION	0.00	23.67	0 00:14	0.000	1.326
N13	JUNCTION	0.00	0.00	0 00:00	0.000	0.000
N12A	JUNCTION	0.00	0.00	0 00:00	0.000	0.000
N12	JUNCTION	0.00	0.00	0 00:00	0.000	0.000
N14A	JUNCTION	0.00	1.82	0 00:15	0.000	0.114
N14	JUNCTION	1.83	1.83	0 00:15	0.114	0.114
N13D	JUNCTION	0.00	0.00	0 00:00	0.000	0.000
N11	JUNCTION	0.00	0.58	0 00:14	0.000	0.001
N16	JUNCTION	0.00	1.95	0 00:10	0.000	0.001
N17	JUNCTION	0.00	1.19	0 00:15	0.000	0.001
N21A	OUTFALL	0.00	98.82	0 00:16	0.000	5.179
OUT_1	OUTFALL	98.92	125.40	0 00:15	6.386	7.858
N2	DIVIDER	0.54	24.15	0 00:14	0.021	1.347
N10	DIVIDER	6.12	24.30	0 00:10	0.227	0.965
N9	DIVIDER	1.57	87.85	0 00:15	0.057	4.669

****
Node Surcharge Summary
****

Surcharging occurs when water rises above the top of the highest conduit.

Node	Type	Hours Surcharged	Max. Height Above Crown Feet	Min. Depth Below Rim Feet
N2	DIVIDER	0.08	0.000	0.000
N9	DIVIDER	0.04	0.000	0.000

****
Node Flooding Summary
****

Flooding refers to all water that overflows a node, whether it ponds or not.

Node	Hours Flooded	Maximum Rate CFS	Time of Max Occurrence days hr:min	Total Flood Volume Mgal	Maximum Ponded Volume acre-in
N2	0.08	0.00	0 00:00	0.000	0.00

N9	0.04	0.00	0	00:00	0.000	0.00

****
Outfall Loading Summary
****

Outfall Node	Flow Freq. Pcnt.	Avg. Flow CFS	Max. Flow CFS	Total Volume Mgal
N21A	99.67	7.72	98.82	5.179
OUT_1	99.67	11.71	125.40	7.858
System	99.67	19.42	223.84	13.037

****
Link Flow Summary
****

Link	Type	Maximum Flow CFS	Time of Max Occurrence days	hr:min	Maximum Velocity ft/sec	Max/ Full Flow	Max/ Full Depth
C10-10A	CONDUIT	24.10	0	00:10	14.48	1.08	1.00
C10A-15A	CONDUIT	24.62	0	00:11	2.20	0.08	0.32
C1-1	CONDUIT	26.48	0	00:15	6.47	0.49	0.45
C11A-10	CONDUIT	18.31	0	00:10	5.49	0.02	0.15
C12-12A	CONDUIT	0.00	0	00:00	0.00	0.00	0.00
C12A-1	CONDUIT	0.00	0	00:00	0.00	0.00	0.00
C13-13D	CONDUIT	0.00	0	00:00	0.00	0.00	0.00
C13A-2	CONDUIT	23.67	0	00:14	3.02	0.06	0.19
C14-14A	CONDUIT	1.82	0	00:15	4.63	0.07	0.18
C15-15A	CONDUIT	64.80	0	00:15	13.79	0.84	0.70
C15A-9	CONDUIT	86.52	0	00:15	5.96	0.11	0.38
C21-21A	CONDUIT	98.82	0	00:16	>50.00	0.08	0.19
C2A-1	CONDUIT	24.54	0	00:13	8.28	0.02	0.11
C2-2A	CONDUIT	24.04	0	00:12	8.60	1.02	1.00
C3-3A	CONDUIT	23.67	0	00:14	9.86	0.86	0.71
C3A-13A	CONDUIT	23.67	0	00:14	2.97	0.06	0.19
C4-4A	CONDUIT	16.02	0	00:13	6.09	0.83	0.70
C4A-3	CONDUIT	16.02	0	00:14	3.18	0.14	0.36
C5-5A	CONDUIT	2.05	0	00:10	5.45	0.47	0.49
C5A-4	CONDUIT	1.86	0	00:13	1.25	0.02	0.11
C6-6A	CONDUIT	0.00	0	00:00	0.00	0.00	0.00
C6A-8	CONDUIT	0.00	0	00:00	0.00	0.00	0.00
C7-7A	CONDUIT	8.32	0	00:10	5.54	0.97	0.79
C7A-21	CONDUIT	8.35	0	00:11	1.43	0.03	0.13
C8-8A	CONDUIT	4.29	0	00:10	4.88	0.80	0.68
C8A-7	CONDUIT	4.25	0	00:11	1.41	0.03	0.22
C9-9A	CONDUIT	87.68	0	00:14	10.16	1.01	0.92
C9A-21	CONDUIT	88.31	0	00:16	3.08	0.28	0.51
C14A-1	CONDUIT	1.82	0	00:15	3.63	0.00	0.02
C1	CONDUIT	0.00	0	00:00	0.00	0.00	0.00
C2	CONDUIT	0.58	0	00:14	4.46	0.02	0.11
C3	DUMMY	0.58	0	00:14			
C4	CONDUIT	1.95	0	00:10	10.30	0.09	0.20
C5	DUMMY	1.95	0	00:10			
C6	CONDUIT	1.19	0	00:15	5.15	0.03	0.11
C7	DUMMY	1.19	0	00:15			

****
Conduit Surcharge Summary
****

	Hours Full		Hours Above Full	Hours Capacity

Conduit	Both Ends	Upstream	Dnstream	Normal Flow	Limited
C10-10A	0.01	0.04	0.01	0.05	0.04
C15-15A	0.01	0.01	0.01	0.97	0.01
C2-2A	0.01	0.08	0.01	0.08	0.08
C4-4A	0.01	0.01	0.01	0.97	0.01
C9-9A	0.01	0.04	0.01	1.03	0.04
C3	0.01	0.01	0.01	25.01	0.01
C5	0.01	0.01	0.01	25.01	0.01
C7	0.01	0.01	0.01	25.01	0.01

Analysis begun on: Wed Sep 17 13:19:13 2008
Analysis ended on: Wed Sep 17 13:19:13 2008
Total elapsed time: < 1 sec

```
EPA STORM WATER MANAGEMENT MODEL - VERSION 5.0 (Build 5.0.013)
--------------------------------------------------------------

"City of Brookings, SD-Study Area 13: 5-yr 24-hr Storm Event"

****************
Analysis Options
****************
Flow Units ............... CFS
Infiltration Method ...... CURVE_NUMBER
Flow Routing Method ...... KINWAVE
Starting Date ............ JAN-01-2007 00:00:00
Ending Date .............. JAN-02-2007 01:00:00
Antecedent Dry Days ...... 0.0
Report Time Step ......... 00:05:00
Wet Time Step ............ 00:05:00
Dry Time Step ............ 00:05:00
Routing Time Step ........ 30.00 sec


**************************        Volume         Depth
Runoff Quantity Continuity     acre-feet        inches
**************************     ---------       -------
Total Precipitation ......        34.335         3.380
Evaporation Loss .........         0.000         0.000
Infiltration Loss ........        13.271         1.306
Surface Runoff ...........        19.795         1.949
Final Surface Storage ....         1.451         0.143
Continuity Error (%) .....        -0.529


**************************        Volume        Volume
Flow Routing Continuity        acre-feet      Mgallons
**************************     ---------     ---------
Dry Weather Inflow .......         0.000         0.000
Wet Weather Inflow .......        19.784         6.447
Groundwater Inflow .......         0.000         0.000
RDII Inflow ..............         0.000         0.000
External Inflow ..........         0.000         0.000
External Outflow .........        19.778         6.445
Internal Outflow .........         0.000         0.000
Evaporation Loss .........         0.000         0.000
Initial Stored Volume ....         0.000         0.000
Final Stored Volume ......         0.008         0.003
Continuity Error (%) .....        -0.010


*********************************
Highest Flow Instability Indexes
*********************************
All links are stable.


*************************
Routing Time Step Summary
*************************
Minimum Time Step           :    30.00 sec
Average Time Step           :    30.00 sec
Maximum Time Step           :    30.00 sec
Percent in Steady State     :     0.00
Average Iterations per Step :     1.05


****************************
Subcatchment Runoff Summary
****************************

-----------------------------------------------------------------------------------------------
                        Total    Total    Total    Total    Total     Total     Peak  Runoff
                       Precip    Runon     Evap    Infil   Runoff    Runoff   Runoff   Coeff
Subcatchment               in       in       in       in       in      Mgal      CFS
```

BAS_11A	3.380	0.000	0.000	1.209	2.121	0.374	10.370	0.627
BAS_10	3.380	0.000	0.000	1.209	2.128	0.116	3.631	0.629
BAS_15A	3.380	0.000	0.000	1.208	2.127	0.029	0.945	0.629
BAS_15	3.380	0.000	0.000	1.207	2.073	1.807	34.328	0.613
BAS_9	3.380	0.000	0.000	1.208	2.126	0.029	0.955	0.629
BAS_21	3.380	0.000	0.000	1.209	2.123	0.092	2.657	0.628
BAS_7	3.380	0.000	0.000	1.209	2.127	0.081	2.487	0.629
BAS_8	3.380	0.000	0.000	1.209	2.123	0.086	2.470	0.628
BAS_6	3.380	0.000	0.000	1.369	1.938	0.011	0.284	0.573
BAS_5	3.380	0.000	0.000	1.369	1.945	0.032	0.935	0.575
BAS_4	3.380	0.000	0.000	1.368	1.901	0.397	7.744	0.562
BAS_3	3.380	0.000	0.000	1.368	1.905	0.212	4.172	0.564
BAS_2	3.380	0.000	0.000	1.367	1.946	0.011	0.333	0.576
BAS_1	3.380	0.000	0.000	1.369	1.946	0.005	0.159	0.576
BAS_14	3.380	0.000	0.000	1.366	1.865	0.056	0.950	0.552
BAS_OUT1	3.380	0.000	0.000	1.366	1.855	3.112	50.809	0.549
System	3.380	0.000	0.000	1.306	1.949	6.450	116.499	0.577

****
Node Depth Summary
****

Node	Type	Average Depth Feet	Maximum Depth Feet	Maximum HGL Feet	Time of Max Occurrence days hr:min
N2A	JUNCTION	0.24	1.06	1621.49	0 00:15
N3A	JUNCTION	0.23	0.96	1622.19	0 00:15
N3	JUNCTION	0.23	0.96	1622.78	0 00:15
N4A	JUNCTION	0.23	1.12	1624.80	0 00:15
N4	JUNCTION	0.24	1.12	1625.12	0 00:15
N5A	JUNCTION	0.07	0.36	1626.02	0 00:10
N5	JUNCTION	0.07	0.36	1626.33	0 00:10
N2	JUNCTION	0.25	1.06	1621.82	0 00:15
N6	JUNCTION	0.00	0.00	1628.70	0 00:00
N6A	JUNCTION	0.00	0.00	1628.50	0 00:00
N1	JUNCTION	0.18	0.76	1620.73	0 00:15
N21	JUNCTION	0.14	0.72	1627.73	0 00:16
N7A	JUNCTION	0.15	0.80	1627.90	0 00:10
N7	JUNCTION	0.15	0.80	1628.10	0 00:10
N8A	JUNCTION	0.12	0.69	1628.19	0 00:10
N8	JUNCTION	0.12	0.70	1628.40	0 00:10
N9A	JUNCTION	0.32	1.59	1629.17	0 00:15
N9	JUNCTION	0.32	1.59	1629.89	0 00:15
N10A	JUNCTION	0.16	0.85	1629.99	0 00:10
N10	JUNCTION	0.16	0.85	1632.81	0 00:10
N11A	JUNCTION	0.04	0.28	1637.58	0 00:10
N15A	JUNCTION	0.31	1.47	1630.10	0 00:15
N15	JUNCTION	0.32	1.47	1641.70	0 00:15
N13A	JUNCTION	0.05	0.26	1621.08	0 00:15
N13	JUNCTION	0.00	0.00	1623.51	0 00:00
N12A	JUNCTION	0.00	0.00	1621.08	0 00:00
N12	JUNCTION	0.00	0.00	1623.28	0 00:00
N14A	JUNCTION	0.08	0.27	1620.88	0 00:15
N14	JUNCTION	0.08	0.27	1621.49	0 00:15
N13D	JUNCTION	0.00	0.00	1621.46	0 00:00
N21A	OUTFALL	0.07	0.27	0.27	0 00:15
OUT_1	OUTFALL	0.18	0.76	1620.52	0 00:15

****
Node InFlow Summary
****

	Maximum Lateral Inflow	Maximum Total Inflow	Time of Max Occurrence	Lateral Inflow Volume	Total Inflow Volume

Node	Type	CFS	CFS	days	hr:min	Mgal	Mgal
N2A	JUNCTION	0.00	13.04	0	00:15	0.000	0.662
N3A	JUNCTION	0.00	12.84	0	00:15	0.000	0.651
N3	JUNCTION	4.17	12.86	0	00:15	0.212	0.651
N4A	JUNCTION	0.00	8.73	0	00:15	0.000	0.439
N4	JUNCTION	7.74	8.74	0	00:15	0.397	0.440
N5A	JUNCTION	0.00	1.21	0	00:10	0.000	0.042
N5	JUNCTION	1.22	1.22	0	00:10	0.042	0.042
N2	JUNCTION	0.33	13.04	0	00:15	0.011	0.662
N6	JUNCTION	0.00	0.00	0	00:00	0.000	0.000
N6A	JUNCTION	0.00	0.00	0	00:00	0.000	0.000
N1	JUNCTION	0.16	14.09	0	00:15	0.005	0.723
N21	JUNCTION	2.66	51.77	0	00:15	0.092	2.612
N7A	JUNCTION	0.00	4.78	0	00:10	0.000	0.167
N7	JUNCTION	2.49	4.77	0	00:10	0.081	0.167
N8A	JUNCTION	0.00	2.44	0	00:10	0.000	0.086
N8	JUNCTION	2.47	2.47	0	00:10	0.086	0.086
N9A	JUNCTION	0.00	46.40	0	00:15	0.000	2.353
N9	JUNCTION	0.95	46.39	0	00:15	0.029	2.353
N10A	JUNCTION	0.00	13.86	0	00:10	0.000	0.490
N10	JUNCTION	3.63	13.84	0	00:10	0.116	0.490
N11A	JUNCTION	10.37	10.37	0	00:10	0.374	0.374
N15A	JUNCTION	0.95	45.77	0	00:15	0.029	2.324
N15	JUNCTION	34.33	34.33	0	00:15	1.806	1.806
N13A	JUNCTION	0.00	12.84	0	00:15	0.000	0.651
N13	JUNCTION	0.00	0.00	0	00:00	0.000	0.000
N12A	JUNCTION	0.00	0.00	0	00:00	0.000	0.000
N12	JUNCTION	0.00	0.00	0	00:00	0.000	0.000
N14A	JUNCTION	0.00	0.95	0	00:15	0.000	0.056
N14	JUNCTION	0.95	0.95	0	00:15	0.056	0.056
N13D	JUNCTION	0.00	0.00	0	00:00	0.000	0.000
N21A	OUTFALL	0.00	51.77	0	00:15	0.000	2.612
OUT_1	OUTFALL	50.81	64.86	0	00:15	3.111	3.833

****
Node Surcharge Summary
****

No nodes were surcharged.

****
Node Flooding Summary
****

No nodes were flooded.

****
Outfall Loading Summary
****

Outfall Node	Flow Freq. Pcnt.	Avg. Flow CFS	Max. Flow CFS	Total Volume Mgal
N21A	99.67	3.89	51.77	2.612
OUT_1	99.67	5.71	64.86	3.833
System	99.67	9.60	116.57	6.444

****
Link Flow Summary
****

	Maximum Flow	Time of Max Occurrence	Maximum Velocity	Max/ Full	Max/ Full

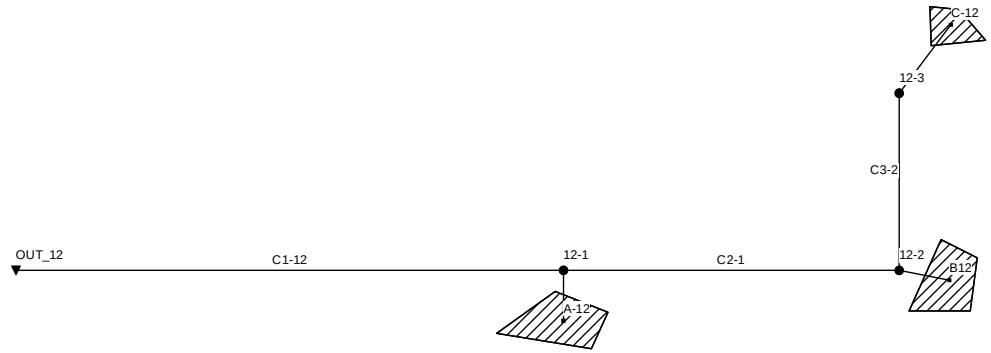
Link	Type	CFS	days	hr:min	ft/sec	Flow	Depth
C10-10A	CONDUIT	13.86	0	00:10	13.33	0.62	0.57
C10A-15A	CONDUIT	13.37	0	00:11	1.86	0.04	0.24
C1-1	CONDUIT	14.09	0	00:15	5.34	0.26	0.31
C11A-10	CONDUIT	10.33	0	00:10	4.62	0.01	0.11
C12-12A	CONDUIT	0.00	0	00:00	0.00	0.00	0.00
C12A-1	CONDUIT	0.00	0	00:00	0.00	0.00	0.00
C13-13D	CONDUIT	0.00	0	00:00	0.00	0.00	0.00
C13A-2	CONDUIT	12.84	0	00:15	2.39	0.03	0.13
C14-14A	CONDUIT	0.95	0	00:15	3.81	0.04	0.13
C15-15A	CONDUIT	34.17	0	00:15	13.89	0.89	0.73
C15A-9	CONDUIT	45.78	0	00:15	5.04	0.06	0.28
C21-21A	CONDUIT	51.77	0	00:15	>50.00	0.04	0.14
C2A-1	CONDUIT	13.04	0	00:15	6.58	0.01	0.08
C2-2A	CONDUIT	13.04	0	00:15	7.69	0.55	0.53
C3-3A	CONDUIT	12.84	0	00:15	8.62	0.47	0.48
C3A-13A	CONDUIT	12.84	0	00:15	2.36	0.03	0.13
C4-4A	CONDUIT	8.73	0	00:15	6.17	0.91	0.75
C4A-3	CONDUIT	8.71	0	00:15	2.62	0.08	0.26
C5-5A	CONDUIT	1.21	0	00:10	4.72	0.28	0.36
C5A-4	CONDUIT	1.05	0	00:13	1.04	0.01	0.08
C6-6A	CONDUIT	0.00	0	00:00	0.00	0.00	0.00
C6A-8	CONDUIT	0.00	0	00:00	0.00	0.00	0.00
C7-7A	CONDUIT	4.78	0	00:10	4.99	0.56	0.53
C7A-21	CONDUIT	4.78	0	00:11	1.17	0.01	0.10
C8-8A	CONDUIT	2.44	0	00:10	4.23	0.83	0.69
C8A-7	CONDUIT	2.41	0	00:11	1.22	0.02	0.16
C9-9A	CONDUIT	46.40	0	00:15	8.68	0.97	0.79
C9A-21	CONDUIT	46.31	0	00:16	2.51	0.15	0.36
C14A-1	CONDUIT	0.95	0	00:15	2.81	0.00	0.01
C1	CONDUIT	0.00	0	00:00	0.00	0.00	0.00

****
Conduit Surcharge Summary
****

Conduit	Hours Full: Both Ends	Hours Full: Upstream	Hours Full: Dnstream	Hours Above Full Normal Flow	Hours Capacity Limited
C9-9A	0.01	0.01	0.01	0.53	0.01

Analysis begun on: Wed Sep 17 13:16:04 2008
Analysis ended on: Wed Sep 17 13:16:04 2008
Total elapsed time: < 1 sec

"City of Brookings, SD-Study Area 12: 5-yr 24-hr Storm Event"



```
EPA STORM WATER MANAGEMENT MODEL - VERSION 5.0 (Build 5.0.013)
--------------------------------------------------------------

"City of Brookings, SD-Study Area 12: 100-yr 24-hr Storm Event"

****************
Analysis Options
****************
Flow Units ............... CFS
Infiltration Method ...... CURVE_NUMBER
Flow Routing Method ...... KINWAVE
Starting Date ............ JAN-01-2007 00:00:00
Ending Date .............. JAN-02-2007 01:00:00
Antecedent Dry Days ...... 0.0
Report Time Step ......... 00:05:00
Wet Time Step ............ 00:05:00
Dry Time Step ............ 00:05:00
Routing Time Step ........ 30.00 sec


**************************        Volume         Depth
Runoff Quantity Continuity     acre-feet        inches
**************************     ---------       -------
Total Precipitation ......        12.267         5.750
Evaporation Loss .........         0.000         0.000
Infiltration Loss ........         3.021         1.416
Surface Runoff ...........         9.061         4.248
Final Surface Storage ....         0.274         0.128
Continuity Error (%) .....        -0.734


**************************        Volume        Volume
Flow Routing Continuity        acre-feet      Mgallons
**************************     ---------     ---------
Dry Weather Inflow .......         0.000         0.000
Wet Weather Inflow .......         9.060         2.952
Groundwater Inflow .......         0.000         0.000
RDII Inflow ..............         0.000         0.000
External Inflow ..........         0.000         0.000
External Outflow .........         9.059         2.952
Internal Outflow .........         0.000         0.000
Evaporation Loss .........         0.000         0.000
Initial Stored Volume ....         0.000         0.000
Final Stored Volume ......         0.001         0.000
Continuity Error (%) .....        -0.004


********************************
Highest Flow Instability Indexes
********************************
```

Link C1-12 (1)

```
*************************
Routing Time Step Summary
*************************
Minimum Time Step           :    30.00 sec
Average Time Step           :    30.00 sec
Maximum Time Step           :    30.00 sec
Percent in Steady State     :     0.00
Average Iterations per Step :     1.05
```

```
****************************
Subcatchment Runoff Summary
****************************
```

Subcatchment	Total Precip in	Total Runon in	Total Evap in	Total Infil in	Total Runoff in	Total Runoff Mgal	Peak Runoff CFS	Runoff Coeff
C-12	5.750	0.000	0.000	0.760	5.003	1.073	48.779	0.870
B12	5.750	0.000	0.000	1.784	3.825	1.704	48.897	0.665
A-12	5.750	0.000	0.000	0.760	4.981	0.176	6.544	0.866
System	5.750	0.000	0.000	1.416	4.248	2.953	103.673	0.739

```
******************
Node Depth Summary
******************
```

Node	Type	Average Depth Feet	Maximum Depth Feet	Maximum HGL Feet	Time of Max Occurrence days hr:min
12-1o	JUNCTION	0.00	0.38	0.38	0 00:11
N3o	JUNCTION	0.00	0.35	1.12	0 00:10
12-2	JUNCTION	0.46	3.16	3.93	0 00:10
OUT_12	OUTFALL	0.47	3.37	3.37	0 00:12
12-1	DIVIDER	0.47	4.00	4.59	0 00:10
12-3	DIVIDER	0.30	3.00	4.07	0 00:10

```
*******************
Node InFlow Summary
*******************
```

Node	Type	Maximum Lateral Inflow CFS	Maximum Total Inflow CFS	Time of Max Occurrence days hr:min	Lateral Inflow Volume Mgal	Total Inflow Volume Mgal
12-1o	JUNCTION	0.00	1.89	0 00:11	0.000	0.001
N3o	JUNCTION	0.00	1.39	0 00:10	0.000	0.001
12-2	JUNCTION	48.90	98.10	0 00:10	1.703	2.776
OUT_12	OUTFALL	0.00	104.76	0 00:12	0.000	2.952
12-1	DIVIDER	6.54	104.39	0 00:10	0.176	2.952
12-3	DIVIDER	48.78	48.78	0 00:10	1.073	1.073

****
Node Surcharge Summary
****

Surcharging occurs when water rises above the top of the highest conduit.

Node	Type	Hours Surcharged	Max. Height Above Crown Feet	Min. Depth Below Rim Feet
12-1	DIVIDER	0.03	0.000	0.000
12-3	DIVIDER	0.03	0.000	1.000

****
Node Flooding Summary
****

Flooding refers to all water that overflows a node, whether it ponds or not.

Node	Hours Flooded	Maximum Rate CFS	Time of Max Occurrence days hr:min	Total Flood Volume Mgal	Maximum Ponded Volume acre-in
12-1	0.03	0.00	0 00:00	0.000	0.00

****
Outfall Loading Summary
****

Outfall Node	Flow Freq. Pcnt.	Avg. Flow CFS	Max. Flow CFS	Total Volume Mgal
OUT_12	99.67	4.40	104.76	2.952

System	99.67	4.40	104.76	2.952

****
Link Flow Summary
****

Link	Type	Maximum Flow CFS	Time of Max Occurrence days hr:min	Maximum Velocity ft/sec	Max/ Full Flow	Max/ Full Depth
C3-2	CONDUIT	47.99	0 00:10	7.69	1.02	0.92
C2-1	CONDUIT	98.34	0 00:10	9.21	0.97	0.79
C1-12	CONDUIT	103.93	0 00:12	9.35	1.02	0.91
C1-1o	CONDUIT	1.89	0 00:11	6.82	0.02	0.08
C1o-12	DUMMY	1.89	0 00:11			
C3-3o	CONDUIT	1.39	0 00:10	4.64	0.03	0.11
C3o-2	DUMMY	1.39	0 00:10			

****
Conduit Surcharge Summary
****

Conduit	Hours Full Both Ends	Hours Full Upstream	Hours Full Dnstream	Hours Above Full Normal Flow	Hours Capacity Limited
C3-2	0.01	0.03	0.01	0.02	0.03
C1-12	0.01	0.03	0.01	0.03	0.03
C1o-12	0.01	0.01	0.01	25.01	0.01
C3o-2	0.01	0.01	0.01	25.01	0.01

Analysis begun on: Wed Sep 17 13:15:40 2008
Analysis ended on: Wed Sep 17 13:15:40 2008
Total elapsed time: < 1 sec

```
EPA STORM WATER MANAGEMENT MODEL - VERSION 5.0 (Build 5.0.013)
--------------------------------------------------------------

"City of Brookings, SD-Study Area 12: 5-yr 24-hr Storm Event"

****************
Analysis Options
****************
Flow Units ............... CFS
Infiltration Method ...... CURVE_NUMBER
Flow Routing Method ...... KINWAVE
Starting Date ............ JAN-01-2007 00:00:00
Ending Date .............. JAN-02-2007 01:00:00
Antecedent Dry Days ...... 0.0
Report Time Step ......... 00:05:00
Wet Time Step ............ 00:05:00
Dry Time Step ............ 00:05:00
Routing Time Step ........ 30.00 sec


**************************        Volume         Depth
Runoff Quantity Continuity     acre-feet        inches
**************************     ---------       -------
Total Precipitation ......         7.211         3.380
Evaporation Loss .........         0.000         0.000
Infiltration Loss ........         2.211         1.036
Surface Runoff ...........         4.811         2.255
Final Surface Storage ....         0.237         0.111
Continuity Error (%) .....        -0.681


**************************        Volume        Volume
Flow Routing Continuity        acre-feet      Mgallons
**************************     ---------     ---------
Dry Weather Inflow .......         0.000         0.000
Wet Weather Inflow .......         4.810         1.567
Groundwater Inflow .......         0.000         0.000
RDII Inflow ..............         0.000         0.000
External Inflow ..........         0.000         0.000
External Outflow .........         4.808         1.567
Internal Outflow .........         0.000         0.000
Evaporation Loss .........         0.000         0.000
Initial Stored Volume ....         0.000         0.000
Final Stored Volume ......         0.001         0.000
Continuity Error (%) .....         0.043


*********************************
Highest Flow Instability Indexes
*********************************
All links are stable.


*************************
Routing Time Step Summary
*************************
Minimum Time Step           :    30.00 sec
Average Time Step           :    30.00 sec
Maximum Time Step           :    30.00 sec
Percent in Steady State     :     0.00
Average Iterations per Step :     1.13


****************************
Subcatchment Runoff Summary
****************************

-----------------------------------------------------------------------------------------------
                        Total    Total    Total    Total    Total     Total     Peak  Runoff
                       Precip    Runon     Evap    Infil   Runoff    Runoff   Runoff   Coeff
Subcatchment               in       in       in       in       in      Mgal      CFS
```

C-12	3.380	0.000	0.000	0.556	2.813	0.603	26.401	0.832
B12	3.380	0.000	0.000	1.306	1.944	0.866	26.232	0.575
A-12	3.380	0.000	0.000	0.556	2.795	0.099	3.548	0.827
System	3.380	0.000	0.000	1.036	2.255	1.568	54.983	0.667

****
Node Depth Summary
****

Node	Type	Average Depth Feet	Maximum Depth Feet	Maximum HGL Feet	Time of Max Occurrence days hr:min
12-1	JUNCTION	0.36	2.32	2.91	0 00:10
12-2	JUNCTION	0.35	2.22	2.99	0 00:10
12-3	JUNCTION	0.24	1.87	2.94	0 00:10
OUT_12	OUTFALL	0.36	2.31	2.31	0 00:11

****
Node InFlow Summary
****

Node	Type	Maximum Lateral Inflow CFS	Maximum Total Inflow CFS	Time of Max Occurrence days hr:min	Lateral Inflow Volume Mgal	Total Inflow Volume Mgal
12-1	JUNCTION	3.55	55.30	0 00:10	0.099	1.567
12-2	JUNCTION	26.23	52.06	0 00:10	0.865	1.469
12-3	JUNCTION	26.40	26.40	0 00:10	0.603	0.603
OUT_12	OUTFALL	0.00	55.04	0 00:11	0.000	1.567

****
Node Surcharge Summary
****

No nodes were surcharged.

****
Node Flooding Summary
****

No nodes were flooded.

****
Outfall Loading Summary
****

Outfall Node	Flow Freq. Pcnt.	Avg. Flow CFS	Max. Flow CFS	Total Volume Mgal
OUT_12	99.67	2.33	55.04	1.567
System	99.67	2.33	55.04	1.567

****
Link Flow Summary
****

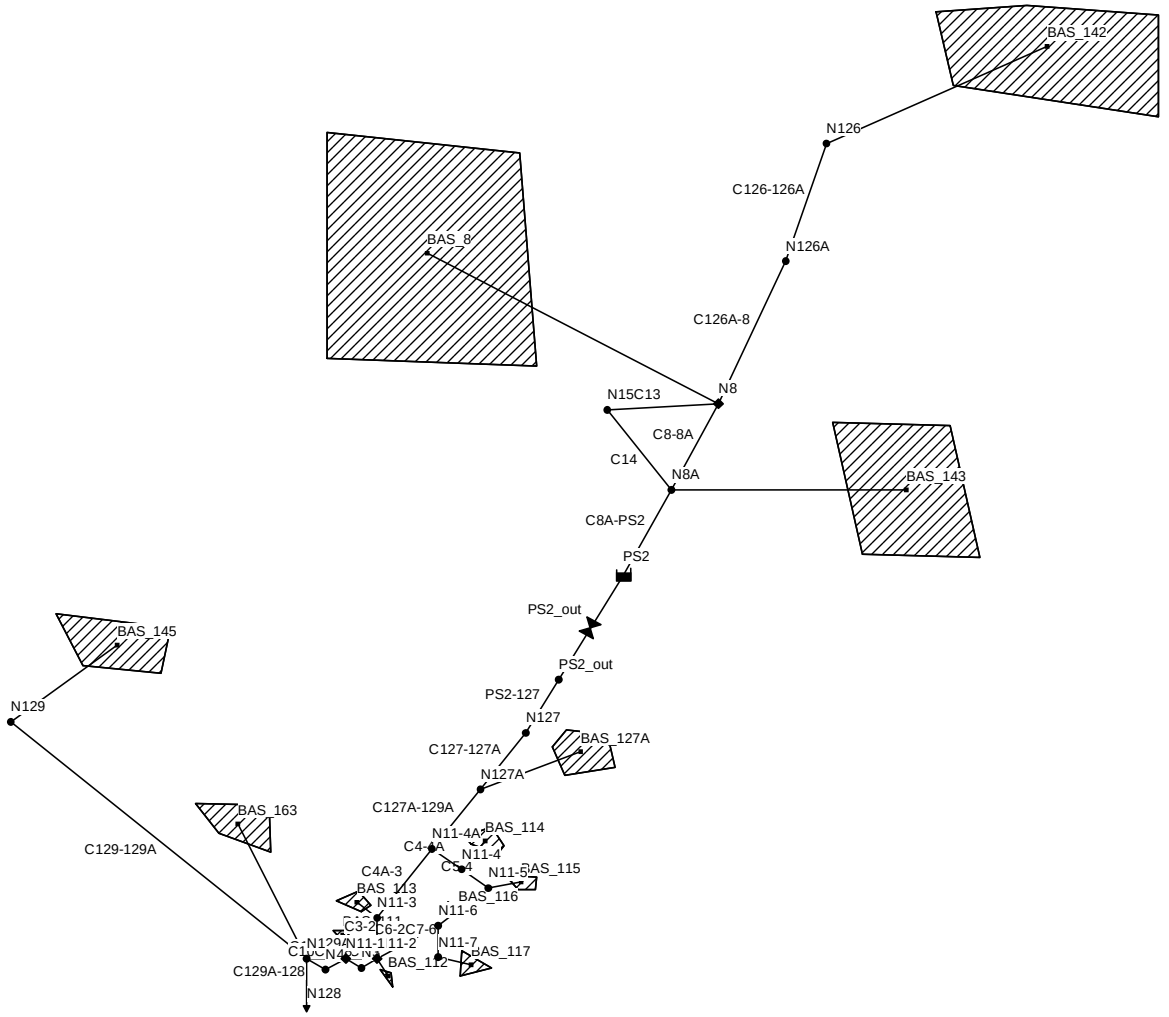
Link	Type	Maximum Flow CFS	Time of Max Occurrence days	hr:min	Maximum Velocity ft/sec	Max/ Full Flow	Max/ Full Depth
C3-2	CONDUIT	26.44	0	00:10	6.73	0.91	0.75
C2-1	CONDUIT	52.22	0	00:10	8.09	0.73	0.64
C1-12	CONDUIT	55.04	0	00:11	8.19	0.77	0.66

****
Conduit Surcharge Summary
****

No conduits were surcharged.

Analysis begun on: Wed Sep 17 13:14:16 2008
Analysis ended on: Wed Sep 17 13:14:16 2008
Total elapsed time: < 1 sec

01/01/2007 00:05:00



```
EPA STORM WATER MANAGEMENT MODEL - VERSION 5.0 (Build 5.0.013)
--------------------------------------------------------------

"City of Brookings, SD: Study Area 11: 100-yr 24-hr Storm event with detention"

****************
Analysis Options
****************
Flow Units ............... CFS
Infiltration Method ...... CURVE_NUMBER
Flow Routing Method ...... KINWAVE
Starting Date ............ JAN-01-2007 00:00:00
Ending Date .............. JAN-02-2007 01:00:00
Antecedent Dry Days ...... 0.0
Report Time Step ......... 00:05:00
Wet Time Step ............ 00:05:00
Dry Time Step ............ 00:05:00
Routing Time Step ........ 30.00 sec


**************************        Volume         Depth
Runoff Quantity Continuity     acre-feet        inches
**************************     ---------       -------
Total Precipitation ......       136.850         5.750
Evaporation Loss .........         0.000         0.000
Infiltration Loss ........        33.453         1.406
Surface Runoff ...........       101.482         4.264
Final Surface Storage ....         2.924         0.123
Continuity Error (%) .....        -0.737


**************************        Volume        Volume
Flow Routing Continuity        acre-feet      Mgallons
**************************     ---------     ---------
Dry Weather Inflow .......         0.000         0.000
Wet Weather Inflow .......       101.458        33.061
Groundwater Inflow .......         0.000         0.000
RDII Inflow ..............         0.000         0.000
External Inflow ..........         0.000         0.000
External Outflow .........       101.596        33.107
Internal Outflow .........         0.000         0.000
Evaporation Loss .........         0.000         0.000
Initial Stored Volume ....         0.000         0.000
Final Stored Volume ......         0.402         0.131
Continuity Error (%) .....        -0.533


*********************************
Highest Flow Instability Indexes
*********************************
Link C127A-129A (1)


*************************
Routing Time Step Summary
*************************
Minimum Time Step           :    30.00 sec
Average Time Step           :    30.00 sec
Maximum Time Step           :    30.00 sec
Percent in Steady State     :     0.00
Average Iterations per Step :     1.09


****************************
Subcatchment Runoff Summary
****************************

-----------------------------------------------------------------------------------------------
                        Total    Total    Total    Total    Total     Total     Peak  Runoff
                       Precip    Runon     Evap    Infil   Runoff    Runoff   Runoff   Coeff
Subcatchment               in       in       in       in       in      Mgal      CFS
```

BAS_8	5.750	0.000	0.000	0.559	5.188	10.397	381.311	0.902
BAS_142	5.750	0.000	0.000	1.216	4.508	5.202	109.266	0.784
BAS_143	5.750	0.000	0.000	1.567	4.146	0.867	21.900	0.721
BAS_115	5.750	0.000	0.000	1.550	4.125	0.627	23.750	0.717
BAS_114	5.750	0.000	0.000	1.550	4.136	0.112	4.978	0.719
BAS_113	5.750	0.000	0.000	1.550	4.136	0.112	4.704	0.719
BAS_116	5.750	0.000	0.000	1.550	4.134	0.370	15.154	0.719
BAS_117	5.750	0.000	0.000	1.550	4.130	2.310	90.947	0.718
BAS_112	5.750	0.000	0.000	1.550	4.126	0.067	2.550	0.717
BAS_111	5.750	0.000	0.000	1.550	4.125	0.515	19.425	0.717
BAS_127A	5.750	0.000	0.000	1.550	4.064	5.197	149.229	0.707
BAS_163	5.750	0.000	0.000	1.041	4.726	1.309	33.477	0.822
BAS_145	5.750	0.000	0.000	2.305	3.258	5.980	61.795	0.567
System	5.750	0.000	0.000	1.406	4.264	33.067	818.568	0.742

****
Node Depth Summary
****

Node	Type	Average Depth Feet	Maximum Depth Feet	Maximum HGL Feet	Time of Max Occurrence days hr:min
N126	JUNCTION	0.39	3.02	1694.02	0 00:15
N126A	JUNCTION	0.56	3.01	1693.73	0 00:15
N127	JUNCTION	0.97	4.38	1639.89	0 00:41
N127A	JUNCTION	1.04	4.70	1639.92	0 00:35
N129	JUNCTION	0.69	2.13	1628.25	0 01:05
N8A	JUNCTION	0.41	3.34	1645.67	0 00:14
PS2_out	JUNCTION	0.13	0.71	1638.22	0 00:41
N15	JUNCTION	0.00	0.51	1642.84	0 00:15
N11-5	JUNCTION	0.26	1.81	1623.70	0 00:10
N11-3	JUNCTION	0.56	3.22	1623.02	0 00:22
N11-4	JUNCTION	0.26	1.80	1623.55	0 00:10
N11-4A	JUNCTION	1.02	4.68	1626.40	0 00:36
N11-6	JUNCTION	0.41	2.99	1625.38	0 00:10
N11-7	JUNCTION	0.42	3.02	1625.59	0 00:10
N129A	JUNCTION	0.75	3.32	1622.12	0 00:19
N3	JUNCTION	0.00	0.23	1619.23	0 00:19
N4	JUNCTION	0.00	0.06	1618.86	0 00:23
N128	OUTFALL	0.58	3.17	1620.57	0 00:36
N8	DIVIDER	0.58	4.00	1646.74	0 00:14
N11-2	DIVIDER	0.57	4.00	1623.60	0 00:17
N11-1	DIVIDER	0.56	4.00	1623.00	0 00:22
PS2	STORAGE	0.46	3.98	1641.49	0 00:40

****
Node InFlow Summary
****

Node	Type	Maximum Lateral Inflow CFS	Maximum Total Inflow CFS	Time of Max Occurrence days hr:min	Lateral Inflow Volume Mgal	Total Inflow Volume Mgal
N126	JUNCTION	109.27	109.27	0 00:15	5.201	5.201
N126A	JUNCTION	0.00	109.18	0 00:15	0.000	5.201
N127	JUNCTION	0.00	262.21	0 00:41	0.000	16.538
N127A	JUNCTION	149.23	341.22	0 00:35	5.196	21.731
N129	JUNCTION	61.80	61.80	0 01:05	5.977	5.977
N8A	JUNCTION	21.90	442.41	0 00:15	0.867	16.606
PS2_out	JUNCTION	0.00	262.21	0 00:41	0.000	16.538
N15	JUNCTION	0.00	23.78	0 00:15	0.000	0.035
N11-5	JUNCTION	23.75	23.75	0 00:10	0.627	0.627
N11-3	JUNCTION	4.70	356.18	0 00:22	0.112	22.568
N11-4	JUNCTION	4.98	28.39	0 00:10	0.112	0.739

N11-4A	JUNCTION	0.00	353.90	0	00:22	0.000	22.458
N11-6	JUNCTION	15.15	104.98	0	00:10	0.370	2.680
N11-7	JUNCTION	90.95	90.95	0	00:10	2.310	2.310
N129A	JUNCTION	33.48	472.01	0	00:19	1.309	33.108
N3	JUNCTION	0.00	7.03	0	00:19	0.000	0.010
N4	JUNCTION	0.00	0.44	0	00:23	0.000	0.000
N128	OUTFALL	0.00	471.56	0	00:36	0.000	33.104
N8	DIVIDER	381.31	412.01	0	00:15	10.395	15.718
N11-2	DIVIDER	2.55	419.03	0	00:19	0.067	25.313
N11-1	DIVIDER	19.43	438.74	0	00:22	0.515	25.833
PS2	STORAGE	0.00	441.84	0	00:15	0.000	16.606

****
Node Surcharge Summary
****

Surcharging occurs when water rises above the top of the highest conduit.

Node	Type	Hours Surcharged	Max. Height Above Crown Feet	Min. Depth Below Rim Feet
N11-2	DIVIDER	0.08	0.000	0.000
N11-1	DIVIDER	0.01	0.000	0.000

****
Node Flooding Summary
****

Flooding refers to all water that overflows a node, whether it ponds or not.

Node	Hours Flooded	Maximum Rate CFS	Time of Max Occurrence days hr:min	Total Flood Volume Mgal	Maximum Ponded Volume acre-in
N11-2	0.08	0.00	0 00:00	0.000	0.00
N11-1	0.01	0.00	0 00:00	0.000	0.00

****
Storage Volume Summary
****

Storage Unit	Average Volume 1000 ft3	Avg Pcnt Full	Maximum Volume 1000 ft3	Max Pcnt Full	Time of Max Occurrence days hr:min	Maximum Outflow CFS
PS2	31.727	11	296.725	99	0 00:40	262.21

****
Outfall Loading Summary
****

Outfall Node	Flow Freq. Pcnt.	Avg. Flow CFS	Max. Flow CFS	Total Volume Mgal
N128	99.63	49.34	471.56	33.104
System	99.63	49.34	471.56	33.104

****
Link Flow Summary
****

Link	Type	Maximum Flow CFS	Time of Max Occurrence days	hr:min	Maximum Velocity ft/sec	Max/ Full Flow	Max/ Full Depth
C126A-8	CONDUIT	94.89	0	00:40	10.04	0.32	0.38
PS2-127	CONDUIT	262.21	0	00:41	>50.00	0.11	0.18
C127A-129A	CONDUIT	340.06	0	00:36	14.47	0.95	0.78
C129A-128	CONDUIT	471.56	0	00:36	11.49	0.94	0.79
C126-126A	CONDUIT	109.18	0	00:15	9.06	0.85	0.75
C127-127A	CONDUIT	262.21	0	00:41	11.85	0.88	0.73
C129-129A	CONDUIT	61.44	0	01:06	9.10	0.55	0.53
C8A-PS2	CONDUIT	441.84	0	00:15	33.80	0.29	0.34
C8-8A	CONDUIT	404.15	0	00:14	12.81	1.04	0.92
C13	CONDUIT	23.78	0	00:15	4.98	0.06	0.13
C14	DUMMY	23.78	0	00:15			
C5-4	CONDUIT	23.57	0	00:10	6.25	0.87	0.72
C4-4A	CONDUIT	28.41	0	00:10	8.04	0.80	0.68
C111-129A	CONDUIT	435.92	0	00:19	11.03	0.99	0.91
C2-1	CONDUIT	427.38	0	00:22	13.05	1.04	0.91
C6-2	CONDUIT	105.65	0	00:10	14.17	0.63	0.57
C7-6	CONDUIT	89.89	0	00:10	8.95	0.91	0.75
C4A-3	CONDUIT	353.94	0	00:22	14.84	0.96	0.80
C3-2	CONDUIT	356.17	0	00:22	12.30	0.99	0.80
C7	CONDUIT	7.03	0	00:19	3.05	0.02	0.06
C8	DUMMY	7.03	0	00:19			
C9	CONDUIT	0.44	0	00:23	2.45	0.00	0.01
C10	DUMMY	0.44	0	00:23			
PS2_out	ORIFICE	262.21	0	00:41			

****
Conduit Surcharge Summary
****

Conduit	Hours Full Both Ends	Hours Full Upstream	Hours Full Dnstream	Hours Above Full Normal Flow	Hours Capacity Limited
C129A-128	0.01	0.01	0.01	1.31	0.01
C8-8A	0.01	0.10	0.01	0.10	0.10
C14	0.01	0.01	0.01	25.01	0.01
C111-129A	0.01	0.01	0.01	1.27	0.01
C2-1	0.01	0.08	0.01	0.07	0.08
C8	0.01	0.01	0.01	25.01	0.01
C10	0.01	0.01	0.01	25.01	0.01

Analysis begun on: Wed Sep 17 13:13:15 2008
Analysis ended on: Wed Sep 17 13:13:15 2008
Total elapsed time: < 1 sec

```
EPA STORM WATER MANAGEMENT MODEL - VERSION 5.0 (Build 5.0.013)
--------------------------------------------------------------

"City of Brookings, SD: Study Area 11: 5-yr 24-hr Storm with detention"

****************
Analysis Options
****************
Flow Units ............... CFS
Infiltration Method ...... CURVE_NUMBER
Flow Routing Method ...... KINWAVE
Starting Date ............ JAN-01-2007 00:00:00
Ending Date .............. JAN-02-2007 01:00:00
Antecedent Dry Days ...... 0.0
Report Time Step ......... 00:05:00
Wet Time Step ............ 00:05:00
Dry Time Step ............ 00:05:00
Routing Time Step ........ 30.00 sec


**************************        Volume         Depth
Runoff Quantity Continuity     acre-feet        inches
**************************     ---------       -------
Total Precipitation ......        80.444         3.380
Evaporation Loss .........         0.000         0.000
Infiltration Loss ........        25.610         1.076
Surface Runoff ...........        52.806         2.219
Final Surface Storage ....         2.556         0.107
Continuity Error (%) .....        -0.657


**************************        Volume        Volume
Flow Routing Continuity        acre-feet      Mgallons
**************************     ---------     ---------
Dry Weather Inflow .......         0.000         0.000
Wet Weather Inflow .......        52.787        17.201
Groundwater Inflow .......         0.000         0.000
RDII Inflow ..............         0.000         0.000
External Inflow ..........         0.000         0.000
External Outflow .........        52.764        17.194
Internal Outflow .........         0.000         0.000
Evaporation Loss .........         0.000         0.000
Initial Stored Volume ....         0.000         0.000
Final Stored Volume ......         0.407         0.133
Continuity Error (%) .....        -0.727


*********************************
Highest Flow Instability Indexes
*********************************
Link C4A-3 (1)
Link C3-2 (1)
Link C127A-129A (1)
Link C111-129A (1)


*************************
Routing Time Step Summary
*************************
Minimum Time Step           :    30.00 sec
Average Time Step           :    30.00 sec
Maximum Time Step           :    30.00 sec
Percent in Steady State     :     0.00
Average Iterations per Step :     1.07


***************************
Subcatchment Runoff Summary
***************************

-----------------------------------------------------------------------------------------------
```

Subcatchment	Total Precip in	Total Runon in	Total Evap in	Total Infil in	Total Runoff in	Total Runoff Mgal	Peak Runoff CFS	Runoff Coeff
BAS_8	3.380	0.000	0.000	0.409	2.949	5.909	200.700	0.872
BAS_142	3.380	0.000	0.000	0.988	2.346	2.707	58.080	0.694
BAS_143	3.380	0.000	0.000	1.233	2.097	0.438	12.555	0.620
BAS_115	3.380	0.000	0.000	1.134	2.166	0.329	13.076	0.641
BAS_114	3.380	0.000	0.000	1.134	2.180	0.059	3.002	0.645
BAS_113	3.380	0.000	0.000	1.134	2.176	0.059	2.716	0.644
BAS_116	3.380	0.000	0.000	1.134	2.174	0.195	8.635	0.643
BAS_117	3.380	0.000	0.000	1.134	2.170	1.214	50.878	0.642
BAS_112	3.380	0.000	0.000	1.134	2.166	0.035	1.405	0.641
BAS_111	3.380	0.000	0.000	1.134	2.165	0.270	10.678	0.641
BAS_127A	3.380	0.000	0.000	1.134	2.120	2.712	79.296	0.627
BAS_163	3.380	0.000	0.000	0.864	2.504	0.694	18.331	0.741
BAS_145	3.380	0.000	0.000	1.801	1.408	2.585	15.574	0.417
System	3.380	0.000	0.000	1.076	2.219	17.206	436.164	0.656

****
Node Depth Summary
****

Node	Type	Average Depth Feet	Maximum Depth Feet	Maximum HGL Feet	Time of Max Occurrence days hr:min
N126	JUNCTION	0.48	2.42	1693.42	0 00:15
N126A	JUNCTION	0.48	2.42	1693.14	0 00:15
N127	JUNCTION	0.86	2.72	1638.23	0 01:09
N127A	JUNCTION	0.87	2.72	1637.94	0 01:09
N129	JUNCTION	0.50	1.06	1627.18	0 01:10
N8A	JUNCTION	0.33	2.46	1644.79	0 00:15
PS2_out	JUNCTION	0.27	0.76	1638.27	0 01:09
N15	JUNCTION	0.00	0.24	1642.57	0 00:16
N11-5	JUNCTION	0.21	1.45	1623.34	0 00:10
N11-2	JUNCTION	0.66	3.34	1622.94	0 00:17
N11-3	JUNCTION	0.89	3.41	1623.21	0 00:23
N28	JUNCTION	0.00	0.67	1623.06	0 00:10
N29	JUNCTION	0.00	0.00	1619.60	0 00:00
N1	JUNCTION	0.00	0.35	1620.15	0 00:21
N11-4	JUNCTION	0.21	1.44	1623.19	0 00:10
N2	JUNCTION	0.00	0.32	1619.12	0 00:17
N3	JUNCTION	0.00	0.00	1617.40	0 00:00
N128	OUTFALL	0.70	3.30	1620.70	0 00:18
N8	DIVIDER	0.45	3.00	1645.74	0 00:15
N11-7	DIVIDER	0.34	3.00	1625.57	0 00:10
N11-6	DIVIDER	0.34	3.00	1625.39	0 00:10
N11-4A	DIVIDER	0.89	4.00	1625.72	0 00:18
N11-1	DIVIDER	0.66	4.00	1623.00	0 00:16
N129A	DIVIDER	0.70	4.00	1622.80	0 00:19
PS2	STORAGE	0.58	3.96	1641.47	0 01:09

****
Node InFlow Summary
****

Node	Type	Maximum Lateral Inflow CFS	Maximum Total Inflow CFS	Time of Max Occurrence days hr:min	Lateral Inflow Volume Mgal	Total Inflow Volume Mgal
N126	JUNCTION	58.08	58.08	0 00:15	2.706	2.706
N126A	JUNCTION	0.00	58.02	0 00:15	0.000	2.706
N127	JUNCTION	0.00	80.96	0 01:09	0.000	9.060
N127A	JUNCTION	79.30	123.63	0 00:20	2.711	11.770
N129	JUNCTION	15.57	15.57	0 01:10	2.582	2.582

N8A	JUNCTION	12.55	227.37	0	00:15	0.438	9.147
PS2_out	JUNCTION	0.00	80.96	0	01:09	0.000	9.061
N15	JUNCTION	0.00	5.83	0	00:16	0.000	0.012
N11-5	JUNCTION	13.08	13.08	0	00:10	0.329	0.329
N11-2	JUNCTION	1.40	171.73	0	00:17	0.035	13.650
N11-3	JUNCTION	2.72	136.41	0	00:23	0.059	12.207
N28	JUNCTION	0.00	4.97	0	00:10	0.000	0.003
N29	JUNCTION	0.00	0.00	0	00:00	0.000	0.000
N1	JUNCTION	0.00	2.10	0	00:21	0.000	0.003
N11-4	JUNCTION	3.00	15.91	0	00:10	0.059	0.388
N2	JUNCTION	0.00	5.70	0	00:17	0.000	0.008
N3	JUNCTION	0.00	0.00	0	00:00	0.000	0.000
N128	OUTFALL	0.00	198.74	0	00:18	0.000	17.192
N8	DIVIDER	200.70	212.79	0	00:15	5.908	8.702
N11-7	DIVIDER	50.88	50.88	0	00:10	1.214	1.214
N11-6	DIVIDER	8.64	60.11	0	00:11	0.195	1.409
N11-4A	DIVIDER	0.00	132.02	0	00:20	0.000	12.149
N11-1	DIVIDER	10.68	179.33	0	00:17	0.270	13.920
N129A	DIVIDER	18.33	199.95	0	00:17	0.694	17.195
PS2	STORAGE	0.00	226.38	0	00:15	0.000	9.147

****
Node Surcharge Summary
****

Surcharging occurs when water rises above the top of the highest conduit.

Node	Type	Hours Surcharged	Max. Height Above Crown Feet	Min. Depth Below Rim Feet
N11-7	DIVIDER	0.04	0.000	0.000
N11-6	DIVIDER	0.02	0.000	0.000
N11-1	DIVIDER	0.08	0.000	0.000
PS2	STORAGE	1.31	0.960	0.040

****
Node Flooding Summary
****

Flooding refers to all water that overflows a node, whether it ponds or not.

Node	Hours Flooded	Maximum Rate CFS	Time of Max Occurrence days hr:min	Total Flood Volume Mgal	Maximum Ponded Volume acre-in
N11-7	0.04	0.00	0 00:00	0.000	0.00
N11-6	0.02	0.00	0 00:00	0.000	0.00
N11-1	0.08	0.00	0 00:00	0.000	0.00

****
Storage Volume Summary
****

Storage Unit	Average Volume 1000 ft3	Avg Pcnt Full	Maximum Volume 1000 ft3	Max Pcnt Full	Time of Max Occurrence days hr:min	Maximum Outflow CFS
PS2	40.531	14	295.108	99	0 01:09	80.96

****
Outfall Loading Summary
****

	Flow	Avg.	Max.	Total

Outfall Node	Freq. Pcnt.	Flow CFS	Flow CFS	Volume Mgal
N128	99.63	25.62	198.74	17.192
System	99.63	25.62	198.74	17.192

****
Link Flow Summary
****

Link	Type	Maximum Flow CFS	Time of Max Occurrence days	hr:min	Maximum Velocity ft/sec	Max/ Full Flow	Max/ Full Depth
C126A-8	CONDUIT	40.56	0	00:40	7.92	0.14	0.25
PS2-127	CONDUIT	80.96	0	01:09	48.42	0.08	0.19
C127A-129A	CONDUIT	123.08	0	00:21	11.55	0.34	0.40
C129A-128	CONDUIT	198.74	0	00:18	11.00	0.98	0.82
C126-126A	CONDUIT	58.02	0	00:15	8.18	0.82	0.69
C127-127A	CONDUIT	80.96	0	01:09	8.91	0.80	0.68
C129-129A	CONDUIT	15.54	0	01:12	6.33	0.20	0.30
C8A-PS2	CONDUIT	226.38	0	00:15	28.02	0.27	0.34
C8-8A	CONDUIT	212.49	0	00:15	10.92	1.03	0.91
C13	CONDUIT	5.83	0	00:16	3.51	0.03	0.08
C14	DUMMY	5.83	0	00:16			
C5-4	CONDUIT	13.01	0	00:10	5.39	0.87	0.72
C4-4A	CONDUIT	15.92	0	00:10	6.95	0.81	0.68
C111-129A	CONDUIT	179.21	0	00:17	10.36	1.03	1.00
C2-1	CONDUIT	171.46	0	00:17	10.30	0.98	0.83
C6-2	CONDUIT	59.78	0	00:11	12.26	0.77	0.66
C7-6	CONDUIT	49.02	0	00:11	7.44	1.07	1.00
C4A-3	CONDUIT	134.13	0	00:23	11.99	1.03	0.91
C3-2	CONDUIT	135.80	0	00:23	9.65	0.90	0.78
C31	CONDUIT	4.97	0	00:10	5.74	0.11	0.21
C32	DUMMY	4.97	0	00:10			
C33	CONDUIT	0.00	0	00:00	0.00	0.00	0.00
C34	DUMMY	0.00	0	00:00			
C1	CONDUIT	2.10	0	00:21	8.94	0.02	0.09
C2	DUMMY	2.10	0	00:21			
C3	CONDUIT	5.70	0	00:17	3.48	0.03	0.08
C4	DUMMY	5.70	0	00:17			
C6	CONDUIT	0.00	0	00:00	0.00	0.00	0.00
C7	DUMMY	0.00	0	00:00			
PS2_out	ORIFICE	80.96	0	01:09			

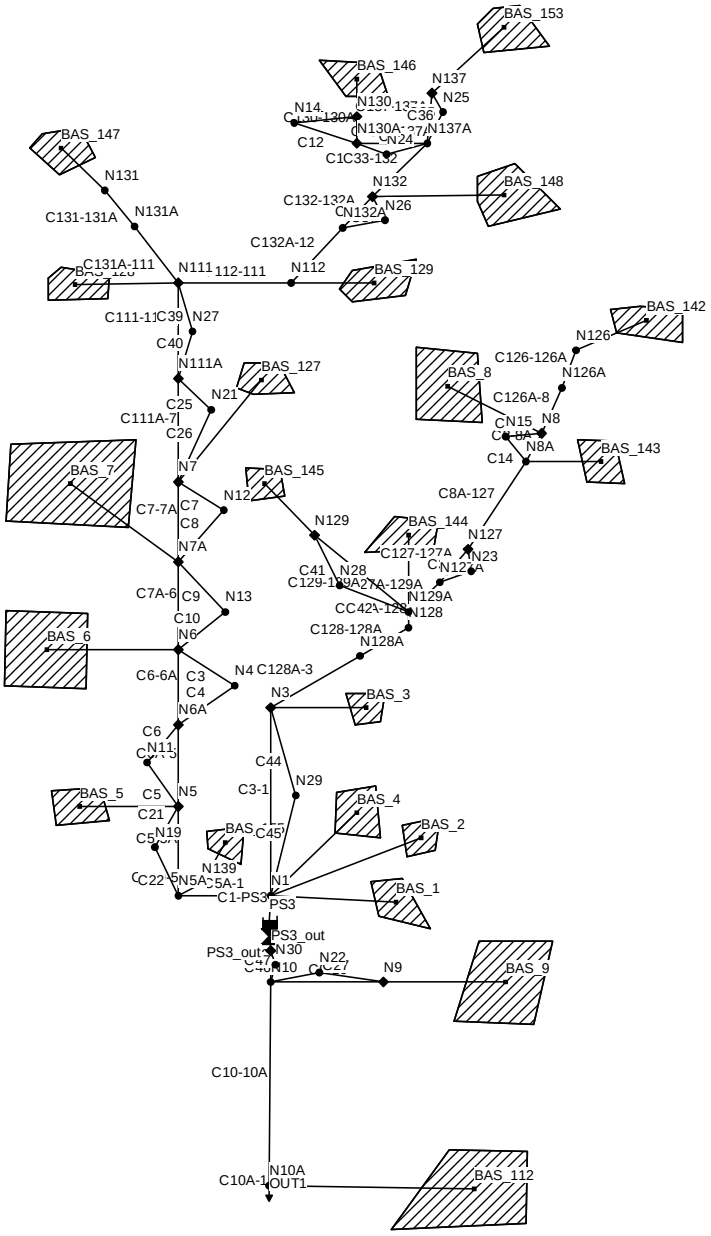
****
Conduit Surcharge Summary
****

Conduit	Hours Full Both Ends	Hours Full Upstream	Hours Full Dnstream	Hours Above Full Normal Flow	Hours Capacity Limited
C8-8A	0.01	0.10	0.01	0.09	0.10
C14	0.01	0.01	0.01	25.01	0.01
C111-129A	0.01	0.08	0.01	0.07	0.08
C7-6	0.02	0.04	0.02	0.03	0.04
C4A-3	0.01	0.08	0.01	0.08	0.08
C32	0.01	0.01	0.01	25.01	0.01
C34	0.01	0.01	0.01	25.01	0.01
C2	0.01	0.01	0.01	25.01	0.01
C4	0.01	0.01	0.01	25.01	0.01
C7	0.01	0.01	0.01	25.01	0.01

Analysis begun on: Wed Sep 17 13:12:02 2008
Analysis ended on: Wed Sep 17 13:12:02 2008

```
Total elapsed time: < 1 sec
```

01/01/2007 00:05:00



```
EPA STORM WATER MANAGEMENT MODEL - VERSION 5.0 (Build 5.0.013)
--------------------------------------------------------------

"City of Brookings, SD: Study Area 10, 100-yr 24-hr Storm Event with no detention"

****************
Analysis Options
****************
Flow Units ............... CFS
Infiltration Method ...... CURVE_NUMBER
Flow Routing Method ...... KINWAVE
Starting Date ............ JAN-01-2007 00:00:00
Ending Date .............. JAN-02-2007 01:00:00
Antecedent Dry Days ...... 0.0
Report Time Step ......... 00:05:00
Wet Time Step ............ 00:05:00
Dry Time Step ............ 00:05:00
Routing Time Step ........ 30.00 sec


**************************        Volume         Depth
Runoff Quantity Continuity     acre-feet        inches
**************************     ---------       -------
Total Precipitation ......       457.173         5.750
Evaporation Loss .........         0.000         0.000
Infiltration Loss ........       145.694         1.832
Surface Runoff ...........       298.660         3.756
Final Surface Storage ....        15.304         0.192
Continuity Error (%) .....        -0.544


**************************        Volume        Volume
Flow Routing Continuity        acre-feet      Mgallons
**************************     ---------     ---------
Dry Weather Inflow .......         0.000         0.000
Wet Weather Inflow .......       298.552        97.288
Groundwater Inflow .......         0.000         0.000
RDII Inflow ..............         0.000         0.000
External Inflow ..........         0.000         0.000
External Outflow .........       296.028        96.465
Internal Outflow .........         0.000         0.000
Evaporation Loss .........         0.000         0.000
Initial Stored Volume ....         0.000         0.000
Final Stored Volume ......         6.303         2.054
Continuity Error (%) .....        -1.266


*********************************
Highest Flow Instability Indexes
*********************************
Link C127A-129A (1)
Link C127-127A (1)
Link C8A-127 (1)
Link C8-8A (1)
Link C112-111 (1)


*************************
Routing Time Step Summary
*************************
Minimum Time Step           :    30.00 sec
Average Time Step           :    30.00 sec
Maximum Time Step           :    30.00 sec
Percent in Steady State     :     0.00
Average Iterations per Step :     1.06


***************************
Subcatchment Runoff Summary
***************************
```

Subcatchment	Total Precip in	Total Runon in	Total Evap in	Total Infil in	Total Runoff in	Total Runoff Mgal	Peak Runoff CFS	Runoff Coeff
BAS_1	5.750	0.000	0.000	1.748	3.882	2.667	83.940	0.675
BAS_112	5.750	0.000	0.000	2.805	2.540	10.310	70.473	0.442
BAS_2	5.750	0.000	0.000	1.262	4.374	3.860	109.956	0.761
BAS_3	5.750	0.000	0.000	2.596	2.954	3.674	68.505	0.514
BAS_4	5.750	0.000	0.000	1.757	3.803	2.871	42.959	0.661
BAS_5	5.750	0.000	0.000	1.584	4.002	2.815	75.868	0.696
BAS_6	5.750	0.000	0.000	1.876	3.748	1.160	37.586	0.652
BAS_7	5.750	0.000	0.000	1.550	4.116	3.040	106.593	0.716
BAS_8	5.750	0.000	0.000	0.559	5.188	10.397	381.311	0.902
BAS_9	5.750	0.000	0.000	1.784	3.753	7.134	178.426	0.653
BAS_146	5.750	0.000	0.000	1.865	3.807	1.406	31.744	0.662
BAS_153	5.750	0.000	0.000	1.866	3.802	2.323	50.834	0.661
BAS_147	5.750	0.000	0.000	2.201	3.412	2.372	43.721	0.593
BAS_148	5.750	0.000	0.000	1.702	3.934	9.786	172.503	0.684
BAS_129	5.750	0.000	0.000	1.865	3.754	4.200	70.586	0.653
BAS_128	5.750	0.000	0.000	1.662	4.006	3.622	69.414	0.697
BAS_127	5.750	0.000	0.000	1.864	3.823	0.021	0.576	0.665
BAS_142	5.750	0.000	0.000	1.216	4.508	5.202	109.266	0.784
BAS_143	5.750	0.000	0.000	1.567	4.146	0.867	21.900	0.721
BAS_145	5.750	0.000	0.000	2.012	3.583	6.578	106.281	0.623
BAS_144	5.750	0.000	0.000	1.608	4.035	11.495	205.356	0.702
BAS_155	5.750	0.000	0.000	1.730	3.938	1.518	30.625	0.685
System	5.750	0.000	0.000	1.832	3.756	97.316	1960.737	0.653

****
Node Depth Summary
****

Node	Type	Average Depth Feet	Maximum Depth Feet	Maximum HGL Feet	Time of Max Occurrence days hr:min
N1	JUNCTION	0.94	3.93	1605.53	0 00:27
N112	JUNCTION	0.90	4.08	1637.79	0 00:16
N126	JUNCTION	0.60	3.02	1694.02	0 00:15
N126A	JUNCTION	0.60	3.02	1693.74	0 00:15
N127A	JUNCTION	0.85	5.06	1640.28	0 00:16
N128A	JUNCTION	0.48	3.22	1621.27	0 00:18
N131	JUNCTION	0.49	2.28	1634.27	0 00:10
N131A	JUNCTION	0.48	2.27	1633.91	0 00:10
N132A	JUNCTION	0.91	4.15	1646.83	0 00:15
N139	JUNCTION	0.03	0.17	1614.48	0 00:10
N5A	JUNCTION	0.49	3.16	1616.41	0 00:18
N8A	JUNCTION	1.35	4.86	1647.19	0 00:15
N4	JUNCTION	0.00	0.00	1616.00	0 00:00
N11	JUNCTION	0.05	2.47	1616.27	0 00:18
N12	JUNCTION	0.00	0.33	1620.33	0 00:17
N13	JUNCTION	0.00	0.00	1616.33	0 00:00
N14	JUNCTION	0.00	0.55	1658.48	0 00:10
N15	JUNCTION	0.04	2.40	1644.73	0 00:15
N19	JUNCTION	0.00	0.00	1613.25	0 00:00
N10A	JUNCTION	1.27	3.98	1600.36	0 01:13
N21	JUNCTION	0.00	0.00	1620.89	0 00:00
N22	JUNCTION	0.02	1.55	1602.25	0 00:18
N10	JUNCTION	1.29	4.00	1604.70	0 00:18
N128	JUNCTION	0.48	3.22	1621.93	0 00:18
N129A	JUNCTION	0.85	4.92	1624.94	0 00:18
N23	JUNCTION	0.00	0.45	1635.67	0 00:16
N24	JUNCTION	0.00	0.34	1654.13	0 00:11
N25	JUNCTION	0.00	0.54	1654.33	0 00:10
N26	JUNCTION	0.00	0.16	1642.84	0 00:15
N137A	JUNCTION	0.48	2.58	1656.37	0 00:10
N27	JUNCTION	0.00	0.55	1623.64	0 00:16
N28	JUNCTION	0.01	0.55	1620.57	0 00:15

N29	JUNCTION	0.01	0.67	1602.27	0	00:23
N30	JUNCTION	0.00	0.08	1600.78	0	01:16
OUT1	OUTFALL	0.87	3.16	1599.18	0	01:13
N130	DIVIDER	0.39	2.50	1660.77	0	00:10
N7	DIVIDER	0.55	4.00	1624.89	0	00:16
N7A	DIVIDER	0.55	3.35	1623.35	0	00:17
N6	DIVIDER	0.50	3.30	1619.63	0	00:18
N6A	DIVIDER	0.62	3.28	1619.28	0	00:18
N8	DIVIDER	0.59	3.00	1645.74	0	00:08
N5	DIVIDER	0.62	3.16	1616.96	0	00:18
N111A	DIVIDER	0.57	4.00	1627.09	0	00:15
N9	DIVIDER	0.79	4.00	1604.75	0	00:13
N127	DIVIDER	1.35	4.85	1640.36	0	00:16
N130A	DIVIDER	0.38	2.50	1660.43	0	00:10
N137	DIVIDER	0.47	3.00	1657.32	0	00:10
N132	DIVIDER	0.55	4.00	1646.95	0	00:14
N111	DIVIDER	0.73	4.00	1627.32	0	00:14
N129	DIVIDER	0.74	4.00	1630.12	0	00:10
N3	DIVIDER	0.93	4.00	1618.87	0	00:18
PS3_out	DIVIDER	0.86	4.00	1605.00	0	01:13
PS3	STORAGE	0.83	3.97	1604.97	0	01:15

****
Node InFlow Summary
****

Node	Type	Maximum Lateral Inflow CFS	Maximum Total Inflow CFS	Time of Max Occurrence days	hr:min	Lateral Inflow Volume Mgal	Total Inflow Volume Mgal
N1	JUNCTION	228.49	1353.79	0	00:23	9.394	80.270
N112	JUNCTION	70.59	307.74	0	00:16	4.198	17.706
N126	JUNCTION	109.27	109.27	0	00:15	5.201	5.201
N126A	JUNCTION	0.00	109.16	0	00:15	0.000	5.200
N127A	JUNCTION	0.00	444.12	0	00:16	0.000	16.704
N128A	JUNCTION	0.00	712.65	0	00:18	0.000	34.770
N131	JUNCTION	43.72	43.72	0	00:10	2.371	2.371
N131A	JUNCTION	0.00	43.40	0	00:10	0.000	2.371
N132A	JUNCTION	0.00	246.93	0	00:15	0.000	13.511
N139	JUNCTION	30.62	30.62	0	00:10	1.518	1.518
N5A	JUNCTION	0.00	622.38	0	00:18	0.000	32.243
N8A	JUNCTION	21.90	429.06	0	00:15	0.867	16.683
N4	JUNCTION	0.00	0.00	0	00:00	0.000	0.000
N11	JUNCTION	0.00	261.73	0	00:18	0.000	2.440
N12	JUNCTION	0.00	2.52	0	00:17	0.000	0.001
N13	JUNCTION	0.00	0.00	0	00:00	0.000	0.000
N14	JUNCTION	0.00	2.63	0	00:10	0.000	0.001
N15	JUNCTION	0.00	204.81	0	00:15	0.000	1.875
N19	JUNCTION	0.00	0.00	0	00:00	0.000	0.000
N10A	JUNCTION	70.47	812.94	0	01:13	10.301	96.459
N21	JUNCTION	0.00	0.00	0	00:00	0.000	0.000
N22	JUNCTION	0.00	10.17	0	00:18	0.000	0.033
N10	JUNCTION	0.00	769.46	0	01:07	0.000	86.266
N128	JUNCTION	0.00	714.21	0	00:18	0.000	34.772
N129A	JUNCTION	205.36	715.57	0	00:17	11.491	34.776
N23	JUNCTION	0.00	19.83	0	00:16	0.000	0.031
N24	JUNCTION	0.00	1.26	0	00:11	0.000	0.002
N25	JUNCTION	0.00	3.30	0	00:10	0.000	0.002
N26	JUNCTION	0.00	2.33	0	00:15	0.000	0.001
N137A	JUNCTION	0.00	81.39	0	00:11	0.000	3.731
N27	JUNCTION	0.00	17.41	0	00:16	0.000	0.021
N28	JUNCTION	0.00	4.22	0	00:15	0.000	0.011
N29	JUNCTION	0.00	21.86	0	00:23	0.000	0.121
N30	JUNCTION	0.00	0.94	0	01:16	0.000	0.002
OUT1	OUTFALL	0.00	812.07	0	01:13	0.000	96.458
N130	DIVIDER	31.74	31.74	0	00:10	1.406	1.406
N7	DIVIDER	0.58	414.53	0	00:17	0.021	23.723
N7A	DIVIDER	106.59	516.58	0	00:17	3.039	26.760
N6	DIVIDER	37.59	534.88	0	00:18	1.160	27.914

N6A	DIVIDER	0.00	532.05	0	00:18	0.000	27.912
N8	DIVIDER	381.31	412.22	0	00:15	10.395	15.726
N5	DIVIDER	75.87	597.32	0	00:18	2.814	30.727
N111A	DIVIDER	0.00	415.17	0	00:16	0.000	23.706
N9	DIVIDER	178.43	178.43	0	00:15	7.132	7.131
N127	DIVIDER	0.00	426.52	0	00:16	0.000	16.686
N130A	DIVIDER	0.00	33.42	0	00:10	0.000	1.406
N137	DIVIDER	50.83	50.83	0	00:10	2.322	2.322
N132	DIVIDER	172.50	243.44	0	00:15	9.782	13.511
N111	DIVIDER	69.41	402.99	0	00:16	3.622	23.694
N129	DIVIDER	106.28	106.28	0	00:10	6.575	6.575
N3	DIVIDER	68.51	740.06	0	00:20	3.673	38.460
PS3_out	DIVIDER	0.00	715.20	0	01:16	0.000	79.092
PS3	STORAGE	0.00	1353.79	0	00:23	0.000	80.270

****
Node Surcharge Summary
****

Surcharging occurs when water rises above the top of the highest conduit.

Node	Type	Hours Surcharged	Max. Height Above Crown Feet	Min. Depth Below Rim Feet
N10	JUNCTION	0.03	0.000	0.000
N130	DIVIDER	0.03	0.000	0.000
N7	DIVIDER	0.03	0.000	0.000
N9	DIVIDER	0.09	0.000	0.000
N130A	DIVIDER	0.02	0.000	0.000
N137	DIVIDER	0.03	0.000	0.000
N129	DIVIDER	0.09	0.000	0.000
N3	DIVIDER	0.09	0.000	0.000

****
Node Flooding Summary
****

Flooding refers to all water that overflows a node, whether it ponds or not.

Node	Hours Flooded	Maximum Rate CFS	Time of Max Occurrence days hr:min	Total Flood Volume Mgal	Maximum Ponded Volume acre-in
N10	0.03	0.00	0 00:00	0.000	0.00
N130	0.03	0.00	0 00:00	0.000	0.00
N7	0.03	0.00	0 00:00	0.000	0.00
N9	0.09	0.00	0 00:00	0.000	0.00
N130A	0.02	0.00	0 00:00	0.000	0.00
N137	0.03	0.00	0 00:00	0.000	0.00
N129	0.09	0.00	0 00:00	0.000	0.00
N3	0.09	0.00	0 00:00	0.000	0.00

****
Storage Volume Summary
****

Storage Unit	Average Volume 1000 ft3	Avg Pcnt Full	Maximum Volume 1000 ft3	Max Pcnt Full	Time of Max Occurrence days hr:min	Maximum Outflow CFS
PS3	395.254	20	1952.638	99	0 01:15	715.20

****
Outfall Loading Summary
****

Outfall Node	Flow Freq. Pcnt.	Avg. Flow CFS	Max. Flow CFS	Total Volume Mgal
OUT1	99.67	143.72	812.07	96.458
System	99.67	143.72	812.07	96.458

****
Link Flow Summary
****

Link	Type	Maximum Flow CFS	Time of Max Occurrence days hr:min	Maximum Velocity ft/sec	Max/ Full Flow	Max/ Full Depth
C10-10A	CONDUIT	774.52	0 01:13	4.12	0.99	0.99
PS3-10	CONDUIT	733.60	0 01:19	11.79	1.03	0.91
C3-1	CONDUIT	682.14	0 00:27	6.93	0.96	0.98
C5-5A	CONDUIT	597.48	0 00:18	11.81	0.95	0.79
C5A-1	CONDUIT	619.92	0 00:19	14.01	0.81	0.70
C6-6A	CONDUIT	532.05	0 00:18	11.56	0.99	0.82
C6A-5	CONDUIT	266.74	0 00:11	11.27	1.00	1.00
C7-7A	CONDUIT	432.29	0 00:17	13.15	1.05	0.91
C7A-6	CONDUIT	508.97	0 00:18	12.76	0.83	0.89
C9-10	CONDUIT	162.55	0 00:18	1.31	1.00	1.00
C111A-7	CONDUIT	413.96	0 00:17	13.28	0.80	0.88
C111-111A	CONDUIT	398.79	0 00:15	12.53	1.03	1.00
C112-111	CONDUIT	306.00	0 00:17	24.38	0.90	0.74
C132A-12	CONDUIT	241.11	0 00:16	12.00	0.80	0.67
C131A-111	CONDUIT	37.34	0 00:14	7.47	0.12	0.24
C130A-137A	CONDUIT	31.19	0 00:11	7.49	1.00	0.86
C137A-132	CONDUIT	71.01	0 00:15	8.90	0.24	0.33
C126A-8	CONDUIT	94.83	0 00:40	10.06	0.32	0.38
C127A-129A	CONDUIT	428.56	0 00:18	15.28	0.84	0.70
C128A-3	CONDUIT	704.87	0 00:20	4.35	0.20	0.38
C129A-128	CONDUIT	714.21	0 00:18	12.32	0.99	0.80
C139-5A	CONDUIT	30.14	0 00:11	1.73	0.01	0.04
C126-126A	CONDUIT	109.16	0 00:15	9.61	0.79	0.67
C127-127A	CONDUIT	424.71	0 00:16	12.73	1.04	1.00
C128-128A	CONDUIT	712.65	0 00:18	12.31	0.99	0.81
C129-129A	CONDUIT	108.78	0 00:15	9.60	1.07	0.91
C130-130A	CONDUIT	30.79	0 00:10	6.81	1.06	0.99
C137-137A	CONDUIT	48.73	0 00:10	7.68	1.04	0.93
C132-132A	CONDUIT	244.83	0 00:15	11.29	1.02	0.92
C131-131A	CONDUIT	43.40	0 00:10	7.62	0.92	0.75
C8A-127	CONDUIT	426.52	0 00:16	9.63	0.79	0.91
C8-8A	CONDUIT	264.14	0 00:39	11.16	1.28	1.00
C1-PS3	DUMMY	1353.79	0 00:23			
C3	CONDUIT	0.00	0 00:00	0.00	0.00	0.00
C4	DUMMY	0.00	0 00:00			
C5	DUMMY	261.73	0 00:18			
C6	CONDUIT	261.73	0 00:18	11.34	0.98	0.99
C7	CONDUIT	2.52	0 00:17	8.93	0.02	0.07
C8	DUMMY	2.52	0 00:17			
C9	CONDUIT	0.00	0 00:00	0.00	0.00	0.00
C10	DUMMY	0.00	0 00:00			
C11	CONDUIT	2.63	0 00:10	6.22	0.16	0.26
C12	DUMMY	2.63	0 00:10			
C13	CONDUIT	204.81	0 00:15	10.68	0.99	0.80
C14	DUMMY	204.81	0 00:15			
C21	CONDUIT	0.00	0 00:00	0.00	0.00	0.00
C22	DUMMY	0.00	0 00:00			
C10A-1	CONDUIT	812.07	0 01:13	17.11	0.95	0.79
C25	CONDUIT	0.00	0 00:00	0.00	0.00	0.00
C26	DUMMY	0.00	0 00:00			
C27	CONDUIT	10.17	0 00:18	1.85	0.11	0.32
C28	DUMMY	10.17	0 00:18			

C31	CONDUIT	19.83	0	00:16	4.45	0.05	0.11
C32	DUMMY	19.83	0	00:16			
C33	CONDUIT	1.26	0	00:11	8.55	0.04	0.10
C34	DUMMY	1.26	0	00:11			
C35	CONDUIT	3.30	0	00:10	7.16	0.07	0.17
C36	DUMMY	3.30	0	00:10			
C37	CONDUIT	2.33	0	00:15	3.15	0.01	0.04
C38	DUMMY	2.33	0	00:15			
C39	CONDUIT	17.41	0	00:16	4.90	0.07	0.14
C40	DUMMY	17.41	0	00:16			
C41	CONDUIT	4.22	0	00:15	11.00	0.04	0.11
C42	DUMMY	4.22	0	00:15			
C44	CONDUIT	21.86	0	00:23	5.66	0.03	0.12
C45	DUMMY	21.86	0	00:23			
C46	CONDUIT	0.94	0	01:16	1.69	0.00	0.02
C47	DUMMY	0.94	0	01:16			
PS3_out	ORIFICE	715.20	0	01:16			

****
Conduit Surcharge Summary
****

Conduit	Hours Full Both Ends	Hours Full Upstream	Hours Full Dnstream	Hours Above Full Normal Flow	Hours Capacity Limited
PS3-10	0.01	0.09	0.01	2.05	0.09
C3-1	0.01	0.09	0.01	0.01	0.09
C5-5A	0.01	0.01	0.01	0.97	0.01
C5A-1	0.01	0.01	0.01	0.51	0.01
C6-6A	0.01	0.01	0.01	1.01	0.01
C6A-5	1.00	1.01	1.00	1.00	1.01
C7-7A	0.01	0.03	0.01	0.03	0.03
C9-10	0.01	0.09	0.03	0.03	0.09
C111-111A	0.01	0.07	0.01	0.07	0.07
C130A-137A	0.01	0.02	0.01	0.01	0.02
C129A-128	0.01	0.01	0.01	0.97	0.01
C127-127A	0.01	0.09	0.01	0.10	0.09
C128-128A	0.01	0.01	0.01	0.97	0.01
C129-129A	0.01	0.09	0.01	0.06	0.09
C130-130A	0.01	0.03	0.01	0.04	0.03
C137-137A	0.01	0.03	0.01	0.04	0.03
C132-132A	0.01	0.03	0.01	0.02	0.03
C8-8A	0.48	0.69	0.48	0.70	0.69
C1-PS3	0.01	0.01	0.01	25.01	0.01
C4	0.01	0.01	0.01	25.01	0.01
C5	0.01	0.01	0.01	25.01	0.01
C8	0.01	0.01	0.01	25.01	0.01
C10	0.01	0.01	0.01	25.01	0.01
C12	0.01	0.01	0.01	25.01	0.01
C14	0.01	0.01	0.01	25.01	0.01
C22	0.01	0.01	0.01	25.01	0.01
C10A-1	0.01	0.01	0.01	2.03	0.01
C26	0.01	0.01	0.01	25.01	0.01
C28	0.01	0.01	0.01	25.01	0.01
C32	0.01	0.01	0.01	25.01	0.01
C34	0.01	0.01	0.01	25.01	0.01
C36	0.01	0.01	0.01	25.01	0.01
C38	0.01	0.01	0.01	25.01	0.01
C40	0.01	0.01	0.01	25.01	0.01
C42	0.01	0.01	0.01	25.01	0.01
C45	0.01	0.01	0.01	25.01	0.01
C47	0.01	0.01	0.01	25.01	0.01

Analysis begun on: Wed Sep 17 13:09:07 2008
Analysis ended on: Wed Sep 17 13:09:07 2008
Total elapsed time: < 1 sec

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EPA STORM WATER MANAGEMENT MODEL - VERSION 5.0 (Build 5.0.013)
--------------------------------------------------------------

"City of Brookings, SD: Study Area 10: 5-yr 24-hr Storm Event no detention""

****************
Analysis Options
****************
Flow Units ............... CFS
Infiltration Method ...... CURVE_NUMBER
Flow Routing Method ...... KINWAVE
Starting Date ............ JAN-01-2007 00:00:00
Ending Date .............. JAN-02-2007 01:00:00
Antecedent Dry Days ...... 0.0
Report Time Step ......... 00:05:00
Wet Time Step ............ 00:05:00
Dry Time Step ............ 00:05:00
Routing Time Step ........ 30.00 sec


**************************        Volume         Depth
Runoff Quantity Continuity     acre-feet        inches
**************************     ---------       -------
Total Precipitation ......       268.738         3.380
Evaporation Loss .........         0.000         0.000
Infiltration Loss ........       109.847         1.382
Surface Runoff ...........       147.224         1.852
Final Surface Storage ....        12.975         0.163
Continuity Error (%) .....        -0.487


**************************        Volume        Volume
Flow Routing Continuity        acre-feet      Mgallons
**************************     ---------     ---------
Dry Weather Inflow .......         0.000         0.000
Wet Weather Inflow .......       147.147        47.950
Groundwater Inflow .......         0.000         0.000
RDII Inflow ..............         0.000         0.000
External Inflow ..........         0.000         0.000
External Outflow .........       141.024        45.955
Internal Outflow .........         0.000         0.000
Evaporation Loss .........         0.000         0.000
Initial Stored Volume ....         0.000         0.000
Final Stored Volume ......         8.041         2.620
Continuity Error (%) .....        -1.303


*********************************
Highest Flow Instability Indexes
*********************************
Link C137A-132 (1)
Link C132A-12 (1)


*************************
Routing Time Step Summary
*************************
Minimum Time Step           :    30.00 sec
Average Time Step           :    30.00 sec
Maximum Time Step           :    30.00 sec
Percent in Steady State     :     0.00
Average Iterations per Step :     1.05


***************************
Subcatchment Runoff Summary
***************************

-------------------------------------------------------------------------------------------
                        Total    Total    Total    Total    Total     Total     Peak  Runoff
                       Precip    Runon     Evap    Infil   Runoff    Runoff   Runoff   Coeff
```

Subcatchment	in	in	in	in	in	Mgal	CFS	
BAS_1	3.380	0.000	0.000	1.279	1.986	1.364	44.725	0.587
BAS_112	3.380	0.000	0.000	2.063	0.986	4.004	40.502	0.292
BAS_2	3.380	0.000	0.000	0.923	2.350	2.074	56.011	0.695
BAS_3	3.380	0.000	0.000	1.900	1.303	1.621	41.778	0.386
BAS_4	3.380	0.000	0.000	1.360	1.852	1.398	21.792	0.548
BAS_5	3.380	0.000	0.000	1.159	2.075	1.460	39.382	0.614
BAS_6	3.380	0.000	0.000	1.372	1.888	0.584	20.653	0.558
BAS_7	3.380	0.000	0.000	1.134	2.158	1.594	57.186	0.638
BAS_8	3.380	0.000	0.000	0.409	2.949	5.909	200.700	0.872
BAS_9	3.380	0.000	0.000	1.306	1.893	3.598	92.940	0.560
BAS_146	3.380	0.000	0.000	1.435	1.861	0.687	18.248	0.551
BAS_153	3.380	0.000	0.000	1.435	1.857	1.134	28.737	0.549
BAS_147	3.380	0.000	0.000	1.660	1.590	1.105	25.195	0.470
BAS_148	3.380	0.000	0.000	1.323	1.944	4.834	92.619	0.575
BAS_129	3.380	0.000	0.000	1.434	1.819	2.035	38.512	0.538
BAS_128	3.380	0.000	0.000	1.296	1.994	1.803	36.728	0.590
BAS_127	3.380	0.000	0.000	1.434	1.873	0.010	0.310	0.554
BAS_142	3.380	0.000	0.000	0.988	2.346	2.707	58.080	0.694
BAS_143	3.380	0.000	0.000	1.233	2.097	0.438	12.555	0.620
BAS_145	3.380	0.000	0.000	1.533	1.702	3.125	56.788	0.504
BAS_144	3.380	0.000	0.000	1.259	2.014	5.736	108.970	0.596
BAS_155	3.380	0.000	0.000	1.343	1.948	0.751	16.415	0.576
System	3.380	0.000	0.000	1.382	1.852	47.972	1050.842	0.548

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Node Depth Summary
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Node	Type	Average Depth Feet	Maximum Depth Feet	Maximum HGL Feet	Time of Max Occurrence days	hr:min
N1	JUNCTION	0.96	3.40	1605.00	0	00:29
N111	JUNCTION	0.57	3.28	1626.60	0	00:16
N112	JUNCTION	0.66	2.71	1636.42	0	00:17
N126	JUNCTION	0.48	2.42	1693.42	0	00:15
N126A	JUNCTION	0.48	2.42	1693.14	0	00:15
N127	JUNCTION	1.10	3.81	1639.32	0	00:17
N127A	JUNCTION	0.68	3.58	1638.80	0	00:17
N128A	JUNCTION	0.50	3.39	1621.44	0	00:20
N129	JUNCTION	0.55	2.36	1628.48	0	00:15
N130A	JUNCTION	0.30	2.00	1659.93	0	00:10
N131	JUNCTION	0.37	1.80	1633.79	0	00:10
N131A	JUNCTION	0.36	1.79	1633.43	0	00:10
N132	JUNCTION	0.73	3.49	1646.44	0	00:15
N132A	JUNCTION	0.72	3.48	1646.16	0	00:15
N137	JUNCTION	0.36	2.04	1656.36	0	00:10
N137A	JUNCTION	0.36	2.03	1655.82	0	00:10
N139	JUNCTION	0.02	0.12	1614.43	0	00:10
N5A	JUNCTION	0.50	3.39	1616.64	0	00:20
N8A	JUNCTION	1.10	3.83	1646.16	0	00:15
PS3_out	JUNCTION	1.89	2.82	1603.82	0	03:14
N4	JUNCTION	0.00	0.28	1616.28	0	00:19
N11	JUNCTION	0.00	0.35	1614.15	0	00:21
N12	JUNCTION	0.00	0.53	1620.53	0	00:18
N13	JUNCTION	0.00	0.14	1616.47	0	00:20
N14	JUNCTION	0.00	0.50	1658.43	0	00:10
N15	JUNCTION	0.00	0.24	1642.57	0	00:16
N17	JUNCTION	0.00	0.23	1618.94	0	00:19
N18	JUNCTION	0.00	0.49	1618.54	0	00:20
N19	JUNCTION	0.00	0.00	1613.25	0	00:00
N20	JUNCTION	0.02	0.72	1602.32	0	00:24
N10A	JUNCTION	1.90	2.72	1599.10	0	00:51
N21	JUNCTION	0.00	0.22	1621.11	0	00:18
N22	JUNCTION	0.01	0.71	1601.41	0	00:17
N23	JUNCTION	0.26	1.57	1597.95	0	00:38
OUT1	OUTFALL	1.86	2.72	1598.74	0	00:52

N130	DIVIDER	0.30	2.00	1660.27	0	00:09
N7	DIVIDER	0.56	3.75	1624.64	0	00:15
N7A	DIVIDER	0.56	3.11	1623.11	0	00:19
N6	DIVIDER	0.51	4.00	1620.33	0	00:16
N6A	DIVIDER	0.51	3.36	1619.36	0	00:17
N8	DIVIDER	0.45	3.00	1645.74	0	00:15
N5	DIVIDER	0.50	4.00	1617.80	0	00:19
N111A	DIVIDER	0.52	3.28	1626.37	0	00:16
N129A	DIVIDER	0.68	4.00	1624.02	0	00:17
N128	DIVIDER	0.50	4.00	1622.71	0	00:18
N3	DIVIDER	0.95	3.50	1618.37	0	00:21
N9	DIVIDER	0.97	4.00	1604.75	0	00:14
N10	DIVIDER	2.02	3.96	1604.66	0	00:21
PS3	STORAGE	1.99	3.99	1604.99	0	03:14

****
Node InFlow Summary
****

Node	Type	Maximum Lateral Inflow CFS	Maximum Total Inflow CFS	Time of Max Occurrence days	hr:min	Lateral Inflow Volume Mgal	Total Inflow Volume Mgal
N1	JUNCTION	120.38	674.45	0	00:25	4.833	40.530
N111	JUNCTION	36.73	214.35	0	00:16	1.802	11.588
N112	JUNCTION	38.51	160.86	0	00:17	2.034	8.683
N126	JUNCTION	58.08	58.08	0	00:15	2.706	2.706
N126A	JUNCTION	0.00	58.02	0	00:15	0.000	2.706
N127	JUNCTION	0.00	224.25	0	00:17	0.000	9.149
N127A	JUNCTION	0.00	224.41	0	00:17	0.000	9.149
N128A	JUNCTION	0.00	383.12	0	00:20	0.000	17.998
N129	JUNCTION	56.79	56.79	0	00:15	3.123	3.123
N130A	JUNCTION	0.00	18.16	0	00:10	0.000	0.687
N131	JUNCTION	25.19	25.19	0	00:10	1.104	1.104
N131A	JUNCTION	0.00	24.99	0	00:10	0.000	1.104
N132	JUNCTION	92.62	130.28	0	00:15	4.832	6.654
N132A	JUNCTION	0.00	129.92	0	00:15	0.000	6.653
N137	JUNCTION	28.74	28.74	0	00:10	1.134	1.134
N137A	JUNCTION	0.00	43.75	0	00:12	0.000	1.821
N139	JUNCTION	16.41	16.41	0	00:10	0.751	0.751
N5A	JUNCTION	0.00	340.69	0	00:20	0.000	15.988
N8A	JUNCTION	12.55	227.37	0	00:15	0.438	9.147
PS3_out	JUNCTION	0.00	93.79	0	03:14	0.000	38.432
N4	JUNCTION	0.00	6.38	0	00:19	0.000	0.010
N11	JUNCTION	0.00	12.58	0	00:21	0.000	0.020
N12	JUNCTION	0.00	6.29	0	00:18	0.000	0.007
N13	JUNCTION	0.00	2.63	0	00:20	0.000	0.005
N14	JUNCTION	0.00	2.16	0	00:10	0.000	0.002
N15	JUNCTION	0.00	5.83	0	00:16	0.000	0.012
N17	JUNCTION	0.00	5.52	0	00:19	0.000	0.006
N18	JUNCTION	0.00	1.35	0	00:20	0.000	0.000
N19	JUNCTION	0.00	0.00	0	00:00	0.000	0.000
N20	JUNCTION	0.00	11.86	0	00:24	0.000	0.070
N10A	JUNCTION	40.50	120.91	0	00:51	3.999	45.952
N21	JUNCTION	0.00	5.87	0	00:18	0.000	0.008
N22	JUNCTION	0.00	2.04	0	00:17	0.000	0.009
N23	JUNCTION	0.00	0.37	0	00:38	0.000	0.013
OUT1	OUTFALL	0.00	120.91	0	00:52	0.000	45.951
N130	DIVIDER	18.25	18.25	0	00:10	0.687	0.687
N7	DIVIDER	0.31	213.24	0	00:18	0.010	11.597
N7A	DIVIDER	57.19	262.59	0	00:19	1.593	13.194
N6	DIVIDER	20.65	274.77	0	00:19	0.584	13.776
N6A	DIVIDER	0.00	278.79	0	00:17	0.000	13.781
N8	DIVIDER	200.70	212.79	0	00:15	5.908	8.702
N5	DIVIDER	39.38	313.96	0	00:19	1.459	15.239
N111A	DIVIDER	0.00	214.26	0	00:16	0.000	11.588
N129A	DIVIDER	108.97	367.16	0	00:18	5.733	18.004
N128	DIVIDER	0.00	389.59	0	00:20	0.000	18.005
N3	DIVIDER	41.78	384.61	0	00:21	1.620	19.628

N9	DIVIDER	92.94	92.94	0	00:15	3.596	3.596
N10	DIVIDER	0.00	119.75	0	00:29	0.000	42.047
PS3	STORAGE	0.00	674.45	0	00:25	0.000	40.530

****
Node Surcharge Summary
****

Surcharging occurs when water rises above the top of the highest conduit.

Node	Type	Hours Surcharged	Max. Height Above Crown Feet	Min. Depth Below Rim Feet
N130	DIVIDER	0.05	0.000	0.000
N7	DIVIDER	0.07	0.000	0.000
N6	DIVIDER	0.07	0.000	0.000
N5	DIVIDER	0.01	0.000	0.000
N128	DIVIDER	0.05	0.000	0.000
N9	DIVIDER	0.05	0.000	0.000
PS3	STORAGE	7.24	0.991	0.009

****
Node Flooding Summary
****

Flooding refers to all water that overflows a node, whether it ponds or not.

Node	Hours Flooded	Maximum Rate CFS	Time of Max Occurrence days hr:min	Total Flood Volume Mgal	Maximum Ponded Volume acre-in
N130	0.05	0.00	0 00:00	0.000	0.00
N7	0.07	0.00	0 00:00	0.000	0.00
N6	0.07	0.00	0 00:00	0.000	0.00
N5	0.01	0.00	0 00:00	0.000	0.00
N128	0.05	0.00	0 00:00	0.000	0.00
N9	0.05	0.00	0 00:00	0.000	0.00

****
Storage Volume Summary
****

Storage Unit	Average Volume 1000 ft3	Avg Pcnt Full	Maximum Volume 1000 ft3	Max Pcnt Full	Time of Max Occurrence days hr:min	Maximum Outflow CFS
PS3	962.349	49	1962.665	100	0 03:14	93.79

****
Outfall Loading Summary
****

Outfall Node	Flow Freq. Pcnt.	Avg. Flow CFS	Max. Flow CFS	Total Volume Mgal
OUT1	99.67	68.47	120.91	45.951
System	99.67	68.47	120.91	45.951

****
Link Flow Summary
****

Link	Type	Maximum Flow CFS	Time of Max Occurrence days	hr:min	Maximum Velocity ft/sec	Max/ Full Flow	Max/ Full Depth
C10-10A	CONDUIT	111.14	0	01:14	2.83	0.93	0.96
PS3-10	CONDUIT	93.79	0	03:14	8.31	0.94	0.81
C3-1	CONDUIT	342.50	0	00:29	5.92	0.93	0.97
C5-5A	CONDUIT	328.33	0	00:20	12.34	1.05	0.90
C5A-1	CONDUIT	331.09	0	00:20	14.35	0.86	0.73
C6-6A	CONDUIT	274.07	0	00:17	11.68	1.02	0.92
C6A-5	CONDUIT	266.74	0	00:17	11.34	1.00	1.00
C7-7A	CONDUIT	216.79	0	00:19	10.22	1.05	0.90
C7A-6	CONDUIT	258.67	0	00:17	11.70	1.00	1.00
C9-10	CONDUIT	87.34	0	00:21	1.16	0.98	0.98
C111A-7	CONDUIT	207.16	0	00:15	11.62	1.00	1.00
C111-111A	CONDUIT	214.26	0	00:16	10.90	0.98	0.82
C112-111	CONDUIT	160.92	0	00:17	21.10	0.64	0.58
C132A-12	CONDUIT	125.90	0	00:17	10.29	0.42	0.45
C131A-111	CONDUIT	20.65	0	00:15	6.32	0.07	0.18
C130A-137A	CONDUIT	17.29	0	00:12	6.70	0.74	0.64
C137A-132	CONDUIT	38.23	0	00:16	7.60	0.13	0.24
C126A-8	CONDUIT	40.56	0	00:40	7.92	0.14	0.25
C127A-129A	CONDUIT	221.62	0	00:21	13.01	0.66	0.59
C128A-3	CONDUIT	368.13	0	00:21	3.42	0.10	0.26
C129A-128	CONDUIT	387.13	0	00:20	12.90	1.07	0.91
C139-5A	CONDUIT	16.13	0	00:11	1.35	0.00	0.03
C126-126A	CONDUIT	58.02	0	00:15	8.18	0.82	0.69
C127-127A	CONDUIT	224.41	0	00:17	10.97	0.93	0.79
C128-128A	CONDUIT	383.12	0	00:20	12.53	1.06	0.92
C129-129A	CONDUIT	56.65	0	00:16	8.41	0.80	0.67
C130-130A	CONDUIT	16.91	0	00:11	5.88	1.06	1.00
C137-137A	CONDUIT	28.60	0	00:10	6.76	0.99	0.80
C132-132A	CONDUIT	129.92	0	00:15	9.85	0.94	0.77
C131-131A	CONDUIT	24.99	0	00:10	6.70	0.86	0.71
C8A-127	CONDUIT	224.25	0	00:17	8.35	0.41	0.72
C8-8A	CONDUIT	212.49	0	00:15	10.92	1.03	0.91
C1-PS3	DUMMY	674.45	0	00:25			
C3	CONDUIT	6.38	0	00:19	5.43	0.02	0.07
C4	DUMMY	6.38	0	00:19			
C5	DUMMY	12.58	0	00:21			
C6	CONDUIT	12.58	0	00:21	7.62	0.05	0.12
C7	CONDUIT	6.29	0	00:18	9.68	0.06	0.14
C8	DUMMY	6.29	0	00:18			
C9	CONDUIT	2.63	0	00:20	4.33	0.01	0.04
C10	DUMMY	2.63	0	00:20			
C11	CONDUIT	2.16	0	00:10	5.45	0.14	0.24
C12	DUMMY	2.16	0	00:10			
C13	CONDUIT	5.83	0	00:16	3.51	0.03	0.08
C14	DUMMY	5.83	0	00:16			
C17	CONDUIT	5.52	0	00:19	5.91	0.02	0.06
C18	DUMMY	5.52	0	00:19			
C19	CONDUIT	1.35	0	00:20	0.22	0.03	0.42
C20	DUMMY	1.35	0	00:20			
C21	CONDUIT	0.00	0	00:00	0.00	0.00	0.01
C22	DUMMY	0.00	0	00:00			
C23	CONDUIT	11.86	0	00:24	6.01	0.03	0.15
C24	DUMMY	11.86	0	00:24			
C10A-1	CONDUIT	120.91	0	00:52	13.28	0.81	0.68
C25	CONDUIT	5.87	0	00:18	5.75	0.03	0.10
C26	DUMMY	5.87	0	00:18			
C27	CONDUIT	2.04	0	00:17	1.06	0.02	0.14
C28	DUMMY	2.04	0	00:17			
C30	CONDUIT	0.37	0	00:38	0.89	0.00	0.03
C31	CONDUIT	0.38	0	00:39	0.06	0.06	0.16
PS3_out	ORIFICE	93.79	0	03:14			

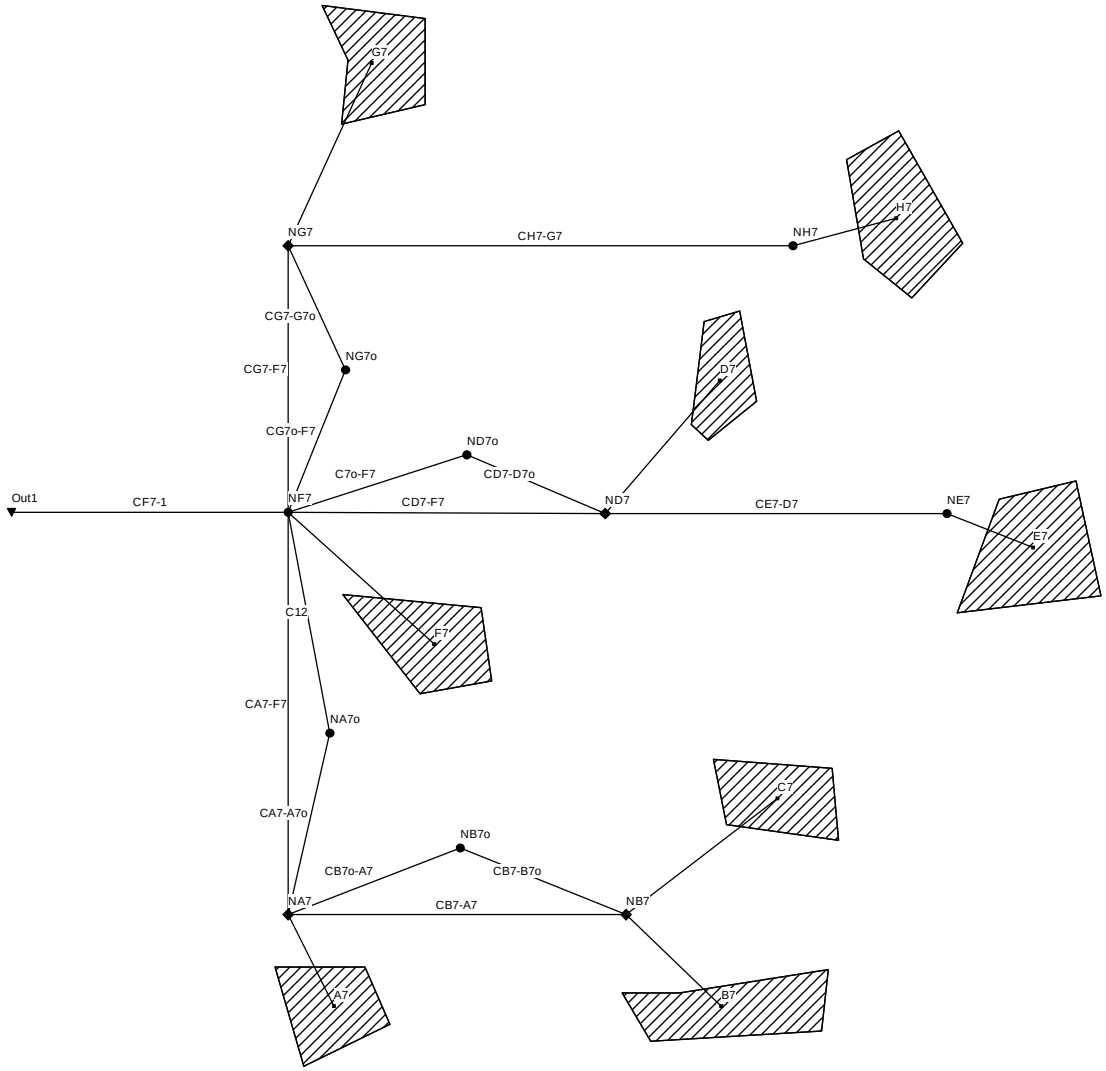
****
Conduit Surcharge Summary
****

Conduit	Hours Full Both Ends	Hours Full Upstream	Hours Full Dnstream	Hours Above Full Normal Flow	Hours Capacity Limited
C10-10A	0.01	0.08	0.01	0.01	0.08
C3-1	0.01	0.06	0.01	0.01	0.06
C5-5A	0.01	0.01	0.01	0.02	0.01
C6-6A	0.01	0.07	0.01	0.07	0.07
C6A-5	0.07	0.07	0.07	0.07	0.07
C7-7A	0.01	0.07	0.01	0.54	0.07
C7A-6	0.03	0.04	0.03	0.03	0.04
C9-10	0.01	0.05	0.01	0.01	0.05
C111A-7	0.06	0.06	0.06	0.06	0.06
C129A-128	0.01	0.05	0.01	0.05	0.05
C128-128A	0.01	0.05	0.01	0.05	0.05
C130-130A	0.03	0.05	0.03	0.03	0.05
C8-8A	0.01	0.10	0.01	0.09	0.10
C1-PS3	0.01	0.01	0.01	25.01	0.01
C4	0.01	0.01	0.01	25.01	0.01
C5	0.01	0.01	0.01	25.01	0.01
C8	0.01	0.01	0.01	25.01	0.01
C10	0.01	0.01	0.01	25.01	0.01
C12	0.01	0.01	0.01	25.01	0.01
C14	0.01	0.01	0.01	25.01	0.01
C18	0.01	0.01	0.01	25.01	0.01
C20	0.01	0.01	0.01	25.01	0.01
C22	0.01	0.01	0.01	25.01	0.01
C24	0.01	0.01	0.01	25.01	0.01
C26	0.01	0.01	0.01	25.01	0.01
C28	0.01	0.01	0.01	25.01	0.01

Analysis begun on: Wed Sep 17 13:02:49 2008
Analysis ended on: Wed Sep 17 13:02:49 2008
Total elapsed time: < 1 sec

"City of Brookings, SD-Study Area 7"

01/01/2007 00:05:00



"City of Brookings, SD-Study Area 7: 100-yr 24-hr Storm Event

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EPA STORM WATER MANAGEMENT MODEL - VERSION 5.0 (Build 5.0.013)
--------------------------------------------------------------

"City of Brookings, SD-Study Area 7: 100-yr 24-hr Storm Event

****************
Analysis Options
****************
Flow Units ............... CFS
Infiltration Method ...... CURVE_NUMBER
Flow Routing Method ...... DYNWAVE
Starting Date ............ JAN-01-2007 00:00:00
Ending Date .............. JAN-02-2007 01:00:00
Antecedent Dry Days ...... 0.0
Report Time Step ......... 00:05:00
Wet Time Step ............ 00:05:00
Dry Time Step ............ 00:05:00
Routing Time Step ........ 30.00 sec


**************************        Volume         Depth
Runoff Quantity Continuity     acre-feet        inches
**************************     ---------       -------
Total Precipitation ......        49.172         5.750
Evaporation Loss .........         0.000         0.000
Infiltration Loss ........        12.712         1.487
Surface Runoff ...........        35.420         4.142
Final Surface Storage ....         1.304         0.153
Continuity Error (%) .....        -0.539


**************************        Volume        Volume
Flow Routing Continuity        acre-feet      Mgallons
**************************     ---------     ---------
Dry Weather Inflow .......         0.000         0.000
Wet Weather Inflow .......        35.410        11.539
Groundwater Inflow .......         0.000         0.000
RDII Inflow ..............         0.000         0.000
External Inflow ..........         0.000         0.000
External Outflow .........        35.362        11.523
Internal Outflow .........         0.000         0.000
Evaporation Loss .........         0.000         0.000
Initial Stored Volume ....         0.000         0.000
Final Stored Volume ......         0.021         0.007
Continuity Error (%) .....         0.075


***************************
Time-Step Critical Elements
***************************
Link CF7-1 (8.64%)
Link CA7-A7o (7.91%)


********************************
Highest Flow Instability Indexes
********************************
All links are stable.


*************************
Routing Time Step Summary
*************************
Minimum Time Step           :    12.14 sec
Average Time Step           :    28.70 sec
Maximum Time Step           :    30.00 sec
Percent in Steady State     :     0.00
Average Iterations per Step :     2.02


***************************
```

"City of Brookings, SD-Study Area 7: 100-yr 24-hr Storm Event

Subcatchment Runoff Summary
****

Subcatchment	Total Precip in	Total Runon in	Total Evap in	Total Infil in	Total Runoff in	Total Runoff Mgal	Peak Runoff CFS	Runoff Coeff
B7	5.750	0.000	0.000	1.487	4.204	0.492	20.228	0.731
A7	5.750	0.000	0.000	1.487	4.119	7.360	204.519	0.716
E7	5.750	0.000	0.000	1.487	4.205	0.203	8.450	0.731
D7	5.750	0.000	0.000	1.487	4.189	0.976	35.173	0.729
H7	5.750	0.000	0.000	1.487	4.198	0.050	2.312	0.730
G7	5.750	0.000	0.000	1.487	4.208	0.154	6.858	0.732
F7	5.750	0.000	0.000	1.487	4.208	0.659	29.355	0.732
C7	5.750	0.000	0.000	1.487	4.158	1.646	50.258	0.723
System	5.750	0.000	0.000	1.487	4.142	11.541	334.745	0.720

****
Node Depth Summary
****

Node	Type	Average Depth Feet	Maximum Depth Feet	Maximum HGL Feet	Time of Max Occurrence days hr:min
NF7	JUNCTION	0.92	5.27	7.71	0 00:15
NE7	JUNCTION	0.17	1.02	7.76	0 00:10
NH7	JUNCTION	0.09	0.50	7.13	0 00:11
NG7o	JUNCTION	0.00	0.11	2.55	0 00:12
NB7o	JUNCTION	0.02	0.18	4.79	0 00:10
ND7o	JUNCTION	0.01	0.22	2.66	0 00:16
NA7o	JUNCTION	0.02	0.40	2.84	0 00:15
Out1	OUTFALL	0.92	4.94	4.94	0 00:15
NG7	DIVIDER	0.18	2.77	7.27	0 00:12
NB7	DIVIDER	0.34	1.64	8.18	0 00:10
ND7	DIVIDER	0.30	2.66	7.25	0 00:16
NA7	DIVIDER	0.65	3.17	7.78	0 00:15

****
Node InFlow Summary
****

Node	Type	Maximum Lateral Inflow CFS	Maximum Total Inflow CFS	Time of Max Occurrence days hr:min	Lateral Inflow Volume Mgal	Total Inflow Volume Mgal
NF7	JUNCTION	29.04	370.45	0 00:15	0.660	11.791
NE7	JUNCTION	8.38	8.38	0 00:10	0.203	0.203
NH7	JUNCTION	2.29	2.29	0 00:09	0.050	0.050
NG7o	JUNCTION	0.00	17.12	0 00:12	0.000	0.237
NB7o	JUNCTION	0.00	31.47	0 00:10	0.000	0.906
ND7o	JUNCTION	0.00	65.90	0 00:16	0.000	0.826
NA7o	JUNCTION	0.00	150.05	0 00:15	0.000	4.212
Out1	OUTFALL	0.00	330.12	0 00:15	0.000	11.522
NG7	DIVIDER	6.78	20.37	0 00:11	0.154	0.310
NB7	DIVIDER	66.86	66.86	0 00:10	2.139	2.138
ND7	DIVIDER	35.02	66.15	0 00:15	0.977	1.331
NA7	DIVIDER	203.97	269.79	0 00:15	7.360	9.495

****
Node Surcharge Summary
****

Surcharging occurs when water rises above the top of the highest conduit.

"City of Brookings, SD-Study Area 7: 100-yr 24-hr Storm Event

Node	Type	Hours Surcharged	Max. Height Above Crown Feet	Min. Depth Below Rim Feet
NG7	DIVIDER	0.11	0.768	1.232

****
Node Flooding Summary
****

No nodes were flooded.

****
Outfall Loading Summary
****

Outfall Node	Flow Freq. Pcnt.	Avg. Flow CFS	Max. Flow CFS	Total Volume Mgal
Out1	99.68	23.96	330.12	11.522
System	99.68	23.96	330.12	11.522

****
Link Flow Summary
****

Link	Type	Maximum Flow CFS	Time of Max Occurrence days hr:min	Maximum Velocity ft/sec	Max/ Full Flow	Max/ Full Depth
CF7-1	CONDUIT	330.12	0 00:15	12.91	1.10	0.85
CE7-D7	CONDUIT	8.20	0 00:10	3.69	0.51	0.75
CD7-F7	CONDUIT	30.46	0 00:16	3.40	0.43	0.88
CA7-F7	CONDUIT	118.06	0 00:15	7.14	0.50	0.77
CB7-A7	CONDUIT	35.88	0 00:10	5.12	0.35	0.60
CH7-G7	CONDUIT	2.18	0 00:11	2.24	0.14	0.62
CG7-F7	CONDUIT	12.01	0 00:11	3.90	0.75	1.00
CB7-B7o	CONDUIT	31.47	0 00:10	14.67	0.31	0.23
CB7o-A7	DUMMY	31.52	0 00:10			
CG7-G7o	CONDUIT	17.12	0 00:12	11.30	1.07	0.53
CG7o-F7	DUMMY	17.42	0 00:12			
CD7-D7o	CONDUIT	65.90	0 00:16	17.86	0.93	0.41
C7o-F7	DUMMY	65.90	0 00:16			
CA7-A7o	CONDUIT	150.05	0 00:15	22.42	0.63	0.33
C12	DUMMY	150.05	0 00:15			

****
Flow Classification Summary
****

Conduit	Adjusted /Actual Length	--- Fraction of Time in Flow Class ---- Dry	Up Dry	Down Dry	Sub Crit	Sup Crit	Up Crit	Down Crit	Avg. Froude Number	Avg. Flow Change
CF7-1	1.00	0.00	0.00	0.00	0.50	0.50	0.00	0.00	0.98	0.0007
CE7-D7	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.45	0.0003
CD7-F7	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.18	0.0005
CA7-F7	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.68	0.0003
CB7-A7	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.42	0.0002
CH7-G7	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.38	0.0001
CG7-F7	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.06	0.0007
CB7-B7o	1.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	1.91	0.0002

CG7-G7o	1.00	0.00	0.00	0.00	0.03	0.97	0.00	0.00	1.46	0.0007
CD7-D7o	1.00	0.00	0.00	0.00	0.00	0.99	0.00	0.00	1.79	0.0006
CA7-A7o	1.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	2.41	0.0004

****
Conduit Surcharge Summary
****

Conduit	Hours Full: Both Ends	Hours Full: Upstream	Hours Full: Dnstream	Hours Above Full Normal Flow	Hours Capacity Limited
CF7-1	0.01	0.01	0.01	0.12	0.01
CG7-F7	0.10	0.10	0.10	0.01	0.01
CB7o-A7	25.00	25.00	25.00	25.00	0.01
CG7-G7o	0.01	0.01	0.01	0.16	0.01
CG7o-F7	25.00	25.00	25.00	25.00	0.01
C7o-F7	25.00	25.00	25.00	25.00	0.01
C12	25.00	25.00	25.00	25.00	0.01

Analysis begun on: Wed Sep 17 12:59:41 2008
Analysis ended on: Wed Sep 17 12:59:41 2008
Total elapsed time: < 1 sec

```
EPA STORM WATER MANAGEMENT MODEL - VERSION 5.0 (Build 5.0.013)
--------------------------------------------------------------

"City of Brookings, SD-Study Area 7: 5-yr 24-hr Storm Event

****************
Analysis Options
****************
Flow Units ............... CFS
Infiltration Method ...... CURVE_NUMBER
Flow Routing Method ...... DYNWAVE
Starting Date ............ JAN-01-2007 00:00:00
Ending Date .............. JAN-02-2007 01:00:00
Antecedent Dry Days ...... 0.0
Report Time Step ......... 00:05:00
Wet Time Step ............ 00:05:00
Dry Time Step ............ 00:05:00
Routing Time Step ........ 30.00 sec


**************************        Volume         Depth
Runoff Quantity Continuity     acre-feet        inches
**************************     ---------       -------
Total Precipitation ......        28.905         3.380
Evaporation Loss .........         0.000         0.000
Infiltration Loss ........         9.302         1.088
Surface Runoff ...........        18.630         2.179
Final Surface Storage ....         1.112         0.130
Continuity Error (%) .....        -0.482


**************************        Volume        Volume
Flow Routing Continuity        acre-feet      Mgallons
**************************     ---------     ---------
Dry Weather Inflow .......         0.000         0.000
Wet Weather Inflow .......        18.624         6.069
Groundwater Inflow .......         0.000         0.000
RDII Inflow ..............         0.000         0.000
External Inflow ..........         0.000         0.000
External Outflow .........        18.595         6.060
Internal Outflow .........         0.000         0.000
Evaporation Loss .........         0.000         0.000
Initial Stored Volume ....         0.000         0.000
Final Stored Volume ......         0.014         0.005
Continuity Error (%) .....         0.075


****************************
Time-Step Critical Elements
****************************
Link CA7-F7 (8.67%)


********************************
Highest Flow Instability Indexes
********************************
All links are stable.


*************************
Routing Time Step Summary
*************************
Minimum Time Step           :    15.65 sec
Average Time Step           :    29.23 sec
Maximum Time Step           :    30.00 sec
Percent in Steady State     :     0.00
Average Iterations per Step :     2.03


***************************
Subcatchment Runoff Summary
```

****

Subcatchment	Total Precip in	Total Runon in	Total Evap in	Total Infil in	Total Runoff in	Total Runoff Mgal	Peak Runoff CFS	Runoff Coeff
B7	3.380	0.000	0.000	1.088	2.225	0.260	11.414	0.658
A7	3.380	0.000	0.000	1.088	2.161	3.863	105.945	0.639
E7	3.380	0.000	0.000	1.088	2.226	0.108	4.794	0.659
D7	3.380	0.000	0.000	1.088	2.212	0.515	18.887	0.654
H7	3.380	0.000	0.000	1.088	2.226	0.027	1.421	0.659
G7	3.380	0.000	0.000	1.088	2.232	0.082	4.054	0.660
F7	3.380	0.000	0.000	1.088	2.232	0.350	17.374	0.660
C7	3.380	0.000	0.000	1.088	2.189	0.867	27.332	0.648
System	3.380	0.000	0.000	1.088	2.179	6.071	178.730	0.645

****
Node Depth Summary
****

Node	Type	Average Depth Feet	Maximum Depth Feet	Maximum HGL Feet	Time of Max Occurrence days hr:min
NA7	JUNCTION	0.65	3.79	8.40	0 00:15
NF7	JUNCTION	0.69	3.86	6.30	0 00:15
NG7	JUNCTION	0.16	3.92	8.42	0 00:11
NE7	JUNCTION	0.13	0.86	7.60	0 00:10
NH7	JUNCTION	0.07	0.58	7.21	0 00:12
NN7o	JUNCTION	0.01	0.23	4.84	0 00:16
ND7o-F7	JUNCTION	0.01	0.16	2.60	0 00:17
Out1	OUTFALL	0.69	3.78	3.78	0 00:16
NB7	DIVIDER	0.27	1.81	8.35	0 00:16
ND7	DIVIDER	0.22	1.65	6.24	0 00:17

****
Node InFlow Summary
****

Node	Type	Maximum Lateral Inflow CFS	Maximum Total Inflow CFS	Time of Max Occurrence days hr:min	Lateral Inflow Volume Mgal	Total Inflow Volume Mgal
NA7	JUNCTION	105.62	139.65	0 00:15	3.861	4.987
NF7	JUNCTION	17.36	174.60	0 00:15	0.350	6.065
NG7	JUNCTION	4.05	5.20	0 00:10	0.082	0.108
NE7	JUNCTION	4.79	4.79	0 00:10	0.108	0.108
NH7	JUNCTION	1.42	1.42	0 00:10	0.027	0.027
NN7o	JUNCTION	0.00	29.71	0 00:16	0.000	0.517
ND7o-F7	JUNCTION	0.00	19.88	0 00:17	0.000	0.308
Out1	OUTFALL	0.00	174.47	0 00:16	0.000	6.059
NB7	DIVIDER	36.22	36.22	0 00:14	1.127	1.127
ND7	DIVIDER	18.88	23.31	0 00:10	0.516	0.623

****
Node Surcharge Summary
****

Surcharging occurs when water rises above the top of the highest conduit.

Node	Type	Hours Surcharged	Max. Height Above Crown Feet	Min. Depth Below Rim Feet

NG7	JUNCTION	0.20	2.419	0.081

****
Node Flooding Summary
****

No nodes were flooded.

****
Outfall Loading Summary
****

Outfall Node	Flow Freq. Pcnt.	Avg. Flow CFS	Max. Flow CFS	Total Volume Mgal
Out1	99.68	11.37	174.47	6.059
System	99.68	11.37	174.47	6.059

****
Link Flow Summary
****

Link	Type	Maximum Flow CFS	Time of Max Occurrence days hr:min	Maximum Velocity ft/sec	Max/ Full Flow	Max/ Full Depth
CF7-1	CONDUIT	174.47	0 00:16	10.86	0.95	0.76
CE7-D7	CONDUIT	4.63	0 00:10	3.54	0.62	0.77
CD7-F7	CONDUIT	10.26	0 00:10	2.74	0.35	0.83
CA7-F7	CONDUIT	139.91	0 00:15	9.75	1.01	0.85
CB7-A7	CONDUIT	18.12	0 00:10	3.32	0.38	0.80
CH7-G7	CONDUIT	1.62	0 00:13	1.71	0.22	0.69
CG7-F7	CONDUIT	4.83	0 00:13	2.73	0.65	1.00
CH7-H7o	CONDUIT	29.71	0 00:16	14.09	0.63	0.34
CB7o-A7	DUMMY	29.75	0 00:16			
CD7-D7o	CONDUIT	19.88	0 00:17	12.43	0.69	0.36
CD7o-F7	DUMMY	19.89	0 00:17			

****
Flow Classification Summary
****

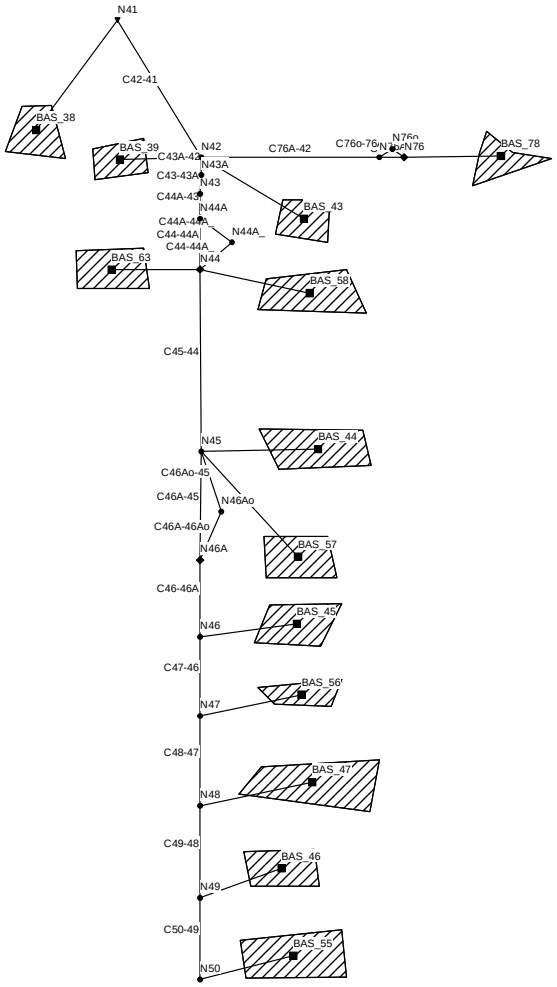
Conduit	Adjusted /Actual Length	--- Fraction of Time in Flow Class ---- Dry	Up Dry	Down Dry	Sub Crit	Sup Crit	Up Crit	Down Crit	Avg. Froude Number	Avg. Flow Change
CF7-1	1.00	0.00	0.00	0.00	0.90	0.10	0.00	0.00	0.95	0.0006
CE7-D7	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.44	0.0004
CD7-F7	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.19	0.0004
CA7-F7	1.00	0.00	0.00	0.00	0.99	0.00	0.00	0.00	0.88	0.0007
CB7-A7	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.30	0.0004
CH7-G7	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.30	0.0003
CG7-F7	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.09	0.0007
CH7-H7o	1.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	1.89	0.0004
CD7-D7o	1.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	1.70	0.0004

****
Conduit Surcharge Summary
****

	Hours	Hours

Conduit	Hours Full: Both Ends	Hours Full: Upstream	Hours Full: Dnstream	Above Full Normal Flow	Capacity Limited
CA7-F7	0.01	0.01	0.01	0.02	0.01
CG7-F7	0.20	0.20	0.20	0.01	0.01
CB7o-A7	25.00	25.00	25.00	25.00	0.01
CD7o-F7	25.00	25.00	25.00	25.00	0.01

```
Analysis begun on:  Wed Sep 17 12:59:10 2008
Analysis ended on:  Wed Sep 17 12:59:10 2008
Total elapsed time: < 1 sec
```


N41
C42-41
BAS_38
BAS_39
C43A-42
N42
C76A-42
C76o-76
N76
BAS_78
C43-43A
N43A
N43
C44A-43
N44A
BAS_43
C44A-44A
C44-44A
N44A_
C44-44A_
BAS_63
N44
BAS_58
C45-44
N45
BAS_44
C46Ao-45
C46A-45
N46Ao
C46A-46Ao
N46A
BAS_57
C46-46A
N46
BAS_45
C47-46
BAS_56
N47
C48-47
BAS_47
N48
C49-48
BAS_46
N49
C50-49
BAS_55
N50

```
EPA STORM WATER MANAGEMENT MODEL - VERSION 5.0 (Build 5.0.013)
--------------------------------------------------------------

"City of Brookings, SD: Study Area 4: 100-yr 24-hr Storm Event"

****************
Analysis Options
****************
Flow Units ............... CFS
Infiltration Method ...... CURVE_NUMBER
Flow Routing Method ...... KINWAVE
Starting Date ............ JAN-01-2007 00:00:00
Ending Date .............. JAN-02-2007 01:00:00
Antecedent Dry Days ...... 0.0
Report Time Step ......... 00:05:00
Wet Time Step ............ 00:05:00
Dry Time Step ............ 00:05:00
Routing Time Step ........ 30.00 sec


**************************        Volume         Depth
Runoff Quantity Continuity     acre-feet        inches
**************************     ---------       -------
Total Precipitation ......       345.479         5.750
Evaporation Loss .........         0.000         0.000
Infiltration Loss ........       138.782         2.310
Surface Runoff ...........       190.680         3.174
Final Surface Storage ....        17.306         0.288
Continuity Error (%) .....        -0.373


**************************        Volume        Volume
Flow Routing Continuity        acre-feet      Mgallons
**************************     ---------     ---------
Dry Weather Inflow .......         0.000         0.000
Wet Weather Inflow .......       190.568        62.100
Groundwater Inflow .......         0.000         0.000
RDII Inflow ..............         0.000         0.000
External Inflow ..........         0.000         0.000
External Outflow .........       192.179        62.624
Internal Outflow .........         0.000         0.000
Evaporation Loss .........         0.000         0.000
Initial Stored Volume ....         0.000         0.000
Final Stored Volume ......         1.309         0.426
Continuity Error (%) .....        -1.532


*********************************
Highest Flow Instability Indexes
*********************************
Link C43A-42 (3)
Link C42-41 (3)
Link C43-43A (2)
Link C44A-43 (2)
Link C45-44 (1)


*************************
Routing Time Step Summary
*************************
Minimum Time Step           :    30.00 sec
Average Time Step           :    30.00 sec
Maximum Time Step           :    30.00 sec
Percent in Steady State     :     0.00
Average Iterations per Step :     1.02


***************************
Subcatchment Runoff Summary
***************************
```

Subcatchment	Total Precip in	Total Runon in	Total Evap in	Total Infil in	Total Runoff in	Total Runoff Mgal	Peak Runoff CFS	Runoff Coeff
BAS_38	5.750	0.000	0.000	2.929	2.457	2.269	11.871	0.427
BAS_39	5.750	0.000	0.000	2.922	2.415	3.980	17.575	0.420
BAS_43	5.750	0.000	0.000	2.728	2.579	5.238	41.214	0.448
BAS_44	5.750	0.000	0.000	2.013	3.527	7.239	106.734	0.613
BAS_45	5.750	0.000	0.000	2.310	3.221	3.673	51.732	0.560
BAS_46	5.750	0.000	0.000	2.019	3.543	12.671	192.126	0.616
BAS_47	5.750	0.000	0.000	1.755	3.839	8.651	140.466	0.668
BAS_55	5.750	0.000	0.000	1.191	4.551	0.803	18.426	0.792
BAS_56	5.750	0.000	0.000	1.135	4.606	1.563	34.251	0.801
BAS_57	5.750	0.000	0.000	2.007	3.619	0.678	12.670	0.629
BAS_58	5.750	0.000	0.000	2.868	2.510	2.808	14.797	0.436
BAS_63	5.750	0.000	0.000	2.604	2.813	3.071	31.366	0.489
BAS_78	5.750	0.000	0.000	2.367	3.122	9.486	119.036	0.543
System	5.750	0.000	0.000	2.310	3.174	62.131	750.254	0.552

****
Node Depth Summary
****

Node	Type	Average Depth Feet	Maximum Depth Feet	Maximum HGL Feet	Time of Max Occurrence days	hr:min
N42	JUNCTION	2.14	3.85	1625.28	0	00:36
N45	JUNCTION	1.05	3.21	1637.54	0	00:19
N46	JUNCTION	1.09	4.57	1641.51	0	00:17
N49	JUNCTION	0.33	1.74	1644.83	0	00:15
N50	JUNCTION	0.05	0.35	1644.14	0	00:10
N76	JUNCTION	0.59	1.96	1635.96	0	00:10
N44A	JUNCTION	1.31	3.33	1628.11	0	00:19
N43	JUNCTION	1.31	4.00	1626.87	0	00:28
N43A	JUNCTION	2.13	4.00	1626.74	0	00:28
N76A	JUNCTION	0.59	1.96	1633.81	0	00:10
N44A_	JUNCTION	0.04	1.50	1626.28	0	00:26
N47	JUNCTION	1.09	4.62	1642.16	0	00:17
N8o	JUNCTION	0.00	0.55	1638.09	0	00:17
N46Ao	JUNCTION	0.00	0.58	1634.91	0	00:18
N41	OUTFALL	0.62	1.14	1617.63	0	00:40
N44	DIVIDER	1.07	3.33	1630.87	0	00:18
N48	DIVIDER	0.53	3.50	1645.26	0	00:13
N46A	DIVIDER	0.46	3.00	1639.17	0	00:16

****
Node InFlow Summary
****

Node	Type	Maximum Lateral Inflow CFS	Maximum Total Inflow CFS	Time of Max Occurrence days	hr:min	Lateral Inflow Volume Mgal	Total Inflow Volume Mgal
N42	JUNCTION	55.79	543.24	0	00:36	9.210	60.443
N45	JUNCTION	117.56	565.08	0	00:19	7.914	35.277
N46	JUNCTION	51.73	458.73	0	00:17	3.671	27.359
N49	JUNCTION	192.13	209.86	0	00:15	12.666	13.468
N50	JUNCTION	18.43	18.43	0	00:10	0.803	0.803
N76	JUNCTION	119.04	119.04	0	00:10	9.481	9.481
N44A	JUNCTION	0.00	463.22	0	00:26	0.000	41.515
N43	JUNCTION	0.00	460.64	0	00:28	0.000	41.488
N43A	JUNCTION	0.00	460.65	0	00:28	0.000	41.487
N76A	JUNCTION	0.00	118.82	0	00:10	0.000	9.480
N44A_	JUNCTION	0.00	143.59	0	00:26	0.000	1.875

N47	JUNCTION	34.25	427.31	0	00:17	1.563	23.690
N8o	JUNCTION	0.00	14.52	0	00:17	0.000	0.022
N46Ao	JUNCTION	0.00	24.51	0	00:18	0.000	0.016
N41	OUTFALL	11.87	543.17	0	00:41	2.267	62.620
N44	DIVIDER	46.16	463.24	0	00:26	5.874	41.515
N48	DIVIDER	140.47	349.62	0	00:15	8.648	22.114
N46A	DIVIDER	0.00	456.96	0	00:17	0.000	27.358

****
Node Surcharge Summary
****

Surcharging occurs when water rises above the top of the highest conduit.

Node	Type	Hours Surcharged	Max. Height Above Crown Feet	Min. Depth Below Rim Feet
N48	DIVIDER	0.07	0.000	0.000

****
Node Flooding Summary
****

Flooding refers to all water that overflows a node, whether it ponds or not.

Node	Hours Flooded	Maximum Rate CFS	Time of Max Occurrence days hr:min	Total Flood Volume Mgal	Maximum Ponded Volume acre-in
N48	0.07	0.00	0 00:00	0.000	0.00

****
Outfall Loading Summary
****

Outfall Node	Flow Freq. Pcnt.	Avg. Flow CFS	Max. Flow CFS	Total Volume Mgal
N41	99.67	93.30	543.17	62.620
System	99.67	93.30	543.17	62.620

****
Link Flow Summary
****

Link	Type	Maximum Flow CFS	Time of Max Occurrence days hr:min	Maximum Velocity ft/sec	Max/ Full Flow	Max/ Full Depth
C42-41	CHANNEL	535.98	0 00:40	4.28	0.04	0.25
C44A-43	CHANNEL	460.64	0 00:28	6.42	0.10	0.46
C45-44	CHANNEL	439.49	0 00:26	6.94	0.04	0.48
C46-46A	CONDUIT	456.96	0 00:17	18.97	0.36	0.40
C46A-45	CONDUIT	453.65	0 00:19	12.25	1.08	0.92
C47-46	CHANNEL	417.34	0 00:17	6.89	0.89	0.95
C48-47	CONDUIT	379.57	0 00:17	10.39	1.15	0.92
C49-48	CONDUIT	209.15	0 00:15	10.07	0.49	0.50
C50-49	CONDUIT	18.50	0 00:10	4.38	0.04	0.10
C76A-42	CONDUIT	85.54	0 00:25	2.20	0.00	0.08
C44-44A	CONDUIT	319.64	0 00:19	25.77	1.00	1.00
C76-76A	CONDUIT	118.82	0 00:10	19.45	0.48	0.49
C43-43A	CONDUIT	460.65	0 00:28	10.98	0.97	0.80

C43A-42	CHANNEL	435.05	0	00:36	2.52	0.25	0.78
C44-44A_	CONDUIT	143.59	0	00:26	21.53	0.58	0.50
C44A-44A_	DUMMY	143.59	0	00:26			
C48-48o	CONDUIT	14.52	0	00:17	8.84	0.09	0.12
N48o-47	DUMMY	14.52	0	00:17			
C46A-46Ao	CONDUIT	24.51	0	00:18	9.32	0.12	0.18
C46Ao-45	DUMMY	24.51	0	00:18			

****
Conduit Surcharge Summary
****

Conduit	Hours Full Both Ends	Hours Full Upstream	Hours Full Dnstream	Hours Above Full Normal Flow	Hours Capacity Limited
C46A-45	0.01	0.04	0.01	1.02	0.04
C48-47	0.01	0.07	0.01	1.03	0.07
C44-44A	1.01	1.02	1.02	0.01	1.02
C44A-44A_	0.01	0.01	0.01	25.01	0.01
N48o-47	0.01	0.01	0.01	25.01	0.01
C46Ao-45	0.01	0.01	0.01	25.01	0.01

Analysis begun on: Wed Sep 17 12:57:29 2008
Analysis ended on: Wed Sep 17 12:57:29 2008
Total elapsed time: < 1 sec

```
EPA STORM WATER MANAGEMENT MODEL - VERSION 5.0 (Build 5.0.013)
--------------------------------------------------------------

"City of Brookings, SD: Study Area 4: 5-yr 24-hr Storm Event"

****************
Analysis Options
****************
Flow Units ............... CFS
Infiltration Method ...... CURVE_NUMBER
Flow Routing Method ...... KINWAVE
Starting Date ............ JAN-01-2007 00:00:00
Ending Date .............. JAN-02-2007 01:00:00
Antecedent Dry Days ...... 0.0
Report Time Step ......... 00:05:00
Wet Time Step ............ 00:05:00
Dry Time Step ............ 00:05:00
Routing Time Step ........ 30.00 sec


**************************        Volume         Depth
Runoff Quantity Continuity     acre-feet        inches
**************************     ---------       -------
Total Precipitation ......       203.082         3.380
Evaporation Loss .........         0.000         0.000
Infiltration Loss ........       104.025         1.731
Surface Runoff ...........        85.372         1.421
Final Surface Storage ....        14.355         0.239
Continuity Error (%) .....        -0.330


**************************        Volume        Volume
Flow Routing Continuity        acre-feet      Mgallons
**************************     ---------     ---------
Dry Weather Inflow .......         0.000         0.000
Wet Weather Inflow .......        85.301        27.797
Groundwater Inflow .......         0.000         0.000
RDII Inflow ..............         0.000         0.000
External Inflow ..........         0.000         0.000
External Outflow .........        85.876        27.984
Internal Outflow .........         0.000         0.000
Evaporation Loss .........         0.000         0.000
Initial Stored Volume ....         0.000         0.000
Final Stored Volume ......         0.908         0.296
Continuity Error (%) .....        -1.739


*********************************
Highest Flow Instability Indexes
*********************************
All links are stable.


*************************
Routing Time Step Summary
*************************
Minimum Time Step           :    30.00 sec
Average Time Step           :    30.00 sec
Maximum Time Step           :    30.00 sec
Percent in Steady State     :     0.00
Average Iterations per Step :     1.02


****************************
Subcatchment Runoff Summary
****************************

-----------------------------------------------------------------------------------------------
                        Total    Total    Total    Total    Total     Total     Peak  Runoff
                       Precip    Runon     Evap    Infil   Runoff    Runoff   Runoff   Coeff
Subcatchment               in       in       in       in       in      Mgal      CFS
```

BAS_38	3.380	0.000	0.000	2.146	0.932	0.860	4.702	0.276
BAS_39	3.380	0.000	0.000	2.141	0.902	1.486	8.851	0.267
BAS_43	3.380	0.000	0.000	2.012	1.012	2.056	22.352	0.299
BAS_44	3.380	0.000	0.000	1.533	1.661	3.410	56.489	0.492
BAS_45	3.380	0.000	0.000	1.733	1.453	1.658	27.651	0.430
BAS_46	3.380	0.000	0.000	1.537	1.674	5.985	103.511	0.495
BAS_47	3.380	0.000	0.000	1.359	1.877	4.230	73.346	0.555
BAS_55	3.380	0.000	0.000	0.971	2.377	0.420	9.822	0.703
BAS_56	3.380	0.000	0.000	0.931	2.416	0.820	18.114	0.715
BAS_57	3.380	0.000	0.000	1.530	1.728	0.324	6.914	0.511
BAS_58	3.380	0.000	0.000	2.105	0.967	1.082	8.884	0.286
BAS_63	3.380	0.000	0.000	1.929	1.173	1.280	17.050	0.347
BAS_78	3.380	0.000	0.000	1.771	1.385	4.207	62.856	0.410
System	3.380	0.000	0.000	1.731	1.421	27.818	405.131	0.420

****
Node Depth Summary
****

Node	Type	Average Depth Feet	Maximum Depth Feet	Maximum HGL Feet	Time of Max Occurrence days hr:min
N42	JUNCTION	1.70	3.48	1624.91	0 00:35
N45	JUNCTION	0.78	2.65	1636.98	0 00:17
N46	JUNCTION	0.72	3.37	1640.31	0 00:17
N48	JUNCTION	0.34	1.90	1643.66	0 00:15
N49	JUNCTION	0.21	1.13	1644.22	0 00:15
N50	JUNCTION	0.04	0.24	1644.03	0 00:10
N44A	JUNCTION	1.00	2.52	1627.30	0 00:22
N43	JUNCTION	1.00	2.50	1625.37	0 00:26
N43A	JUNCTION	1.69	3.58	1626.32	0 00:26
N76A	JUNCTION	0.60	2.51	1634.36	0 00:10
N44A_	JUNCTION	0.00	0.00	1624.78	0 00:00
N47	JUNCTION	0.72	3.38	1640.92	0 00:16
N46Ao	JUNCTION	0.00	0.30	1634.63	0 00:16
N76o	JUNCTION	0.00	0.44	1632.29	0 00:15
N41	OUTFALL	0.51	0.93	1617.42	0 00:41
N44	DIVIDER	0.78	2.29	1629.83	0 00:23
N46A	DIVIDER	0.46	3.00	1639.17	0 00:14
N76	DIVIDER	0.61	3.00	1637.00	0 00:10

****
Node InFlow Summary
****

Node	Type	Maximum Lateral Inflow CFS	Maximum Total Inflow CFS	Time of Max Occurrence days hr:min	Lateral Inflow Volume Mgal	Total Inflow Volume Mgal
N42	JUNCTION	31.20	282.46	0 00:35	3.538	27.182
N45	JUNCTION	62.52	291.28	0 00:16	3.732	16.838
N46	JUNCTION	27.65	223.76	0 00:16	1.656	13.099
N48	JUNCTION	73.35	185.54	0 00:15	4.228	10.626
N49	JUNCTION	103.51	112.93	0 00:15	5.981	6.400
N50	JUNCTION	9.82	9.82	0 00:10	0.419	0.419
N44A	JUNCTION	0.00	272.88	0 00:22	0.000	19.292
N43	JUNCTION	0.00	268.45	0 00:26	0.000	19.274
N43A	JUNCTION	0.00	268.42	0 00:26	0.000	19.273
N76A	JUNCTION	0.00	63.81	0 00:15	0.000	4.204
N44A_	JUNCTION	0.00	0.00	0 00:00	0.000	0.000
N47	JUNCTION	18.11	200.36	0 00:16	0.820	11.445
N46Ao	JUNCTION	0.00	12.78	0 00:16	0.000	0.018
N76o	JUNCTION	0.00	1.22	0 00:15	0.000	0.002
N41	OUTFALL	4.70	272.44	0 00:41	0.859	27.982

N44	DIVIDER	25.93	272.61	0	00:23	2.360	19.293
N46A	DIVIDER	0.00	223.69	0	00:16	0.000	13.099
N76	DIVIDER	62.86	62.86	0	00:15	4.204	4.203

****
Node Surcharge Summary
****

Surcharging occurs when water rises above the top of the highest conduit.

Node	Type	Hours Surcharged	Max. Height Above Crown Feet	Min. Depth Below Rim Feet
N76	DIVIDER	0.09	0.000	1.000

****
Node Flooding Summary
****

No nodes were flooded.

****
Outfall Loading Summary
****

Outfall Node	Flow Freq. Pcnt.	Avg. Flow CFS	Max. Flow CFS	Total Volume Mgal
N41	99.67	41.69	272.44	27.982
System	99.67	41.69	272.44	27.982

****
Link Flow Summary
****

Link	Type	Maximum Flow CFS	Time of Max Occurrence days hr:min	Maximum Velocity ft/sec	Max/ Full Flow	Max/ Full Depth
C42-41	CHANNEL	271.10	0 00:41	3.46	0.02	0.21
C44A-43	CHANNEL	268.45	0 00:26	5.68	0.06	0.37
C45-44	CHANNEL	260.30	0 00:23	6.34	0.02	0.37
C46-46A	CONDUIT	223.69	0 00:16	14.85	0.18	0.25
C46A-45	CONDUIT	228.57	0 00:19	12.21	1.08	0.91
C47-46	CHANNEL	200.06	0 00:17	6.35	0.43	0.70
C48-47	CONDUIT	183.12	0 00:16	8.20	0.55	0.54
C49-48	CONDUIT	112.23	0 00:15	8.30	0.26	0.32
C50-49	CONDUIT	9.82	0 00:10	3.44	0.02	0.07
C76A-42	CONDUIT	45.22	0 00:25	2.00	0.00	0.06
C44-44A	CONDUIT	272.88	0 00:22	25.34	0.85	0.66
C76-76A	CONDUIT	63.07	0 00:10	10.08	1.02	0.92
C43-43A	CONDUIT	268.42	0 00:26	9.18	0.67	0.61
C43A-42	CHANNEL	231.53	0 00:35	2.66	0.13	0.70
C44-44A_	CONDUIT	0.00	0 00:00	0.00	0.00	0.00
C44A-44A_	DUMMY	0.00	0 00:00			
C46A-46Ao	CONDUIT	12.78	0 00:16	21.30	0.05	0.10
C46Ao-45	DUMMY	12.78	0 00:16			
C76-76o	CONDUIT	1.22	0 00:15	5.27	0.05	0.11
C76o-76A	DUMMY	1.22	0 00:15			

****
Conduit Surcharge Summary

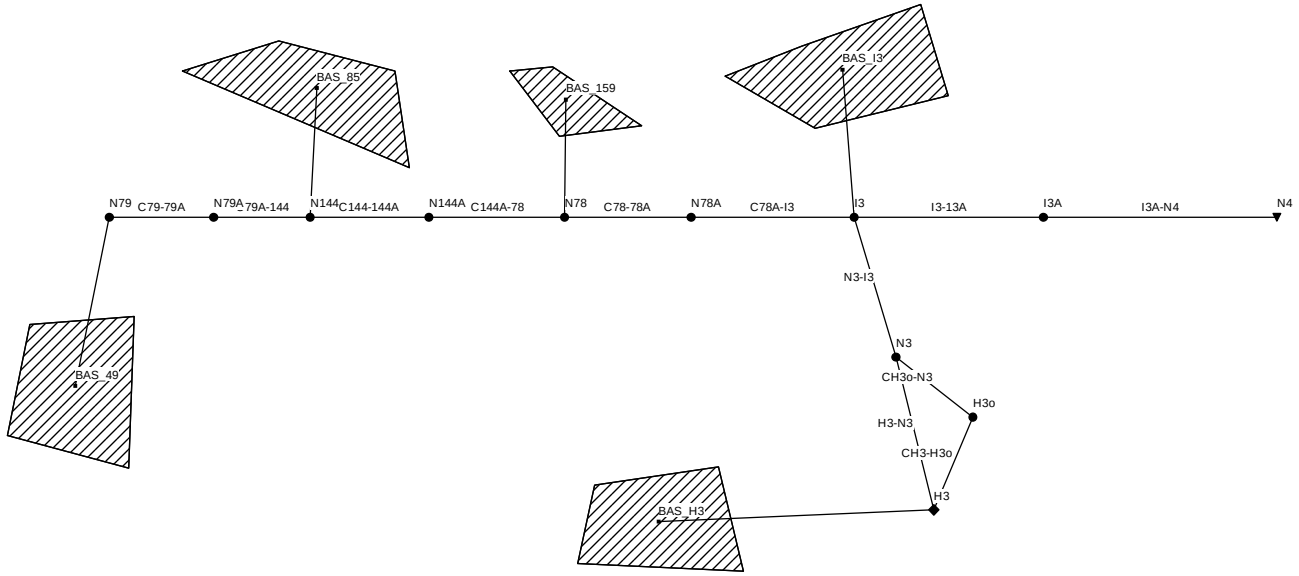
****

Conduit	Hours Full: Both Ends	Hours Full: Upstream	Hours Full: Dnstream	Hours Above Full Normal Flow	Hours Capacity Limited
C46A-45	0.01	0.08	0.01	0.08	0.08
C48-47	0.01	0.01	0.01	0.12	0.01
C76-76A	0.01	0.09	0.01	0.09	0.09
C44A-44A_	0.01	0.01	0.01	25.01	0.01
C46Ao-45	0.01	0.01	0.01	25.01	0.01
C76o-76A	0.01	0.01	0.01	25.01	0.01

Analysis begun on: Wed Sep 17 12:56:30 2008
Analysis ended on: Wed Sep 17 12:56:31 2008
Total elapsed time: 00:00:01

"City of Brookings, SD-Study Area 3: 100-yr 24-hr Storm Event"

01/01/2007 00:05:00



```
EPA STORM WATER MANAGEMENT MODEL - VERSION 5.0 (Build 5.0.013)
--------------------------------------------------------------

"City of Brookings, SD-Study Area 3: 100-yr 24-hr Storm Event"

****************
Analysis Options
****************
Flow Units ............... CFS
Infiltration Method ...... CURVE_NUMBER
Flow Routing Method ...... KINWAVE
Starting Date ............ JAN-01-2007 00:00:00
Ending Date .............. JAN-02-2007 01:00:00
Antecedent Dry Days ...... 0.0
Report Time Step ......... 00:05:00
Wet Time Step ............ 00:05:00
Dry Time Step ............ 00:05:00
Routing Time Step ........ 30.00 sec


**************************        Volume         Depth
Runoff Quantity Continuity     acre-feet        inches
**************************     ---------       -------
Total Precipitation ......        38.367         5.750
Evaporation Loss .........         0.000         0.000
Infiltration Loss ........         8.030         1.203
Surface Runoff ...........        29.822         4.469
Final Surface Storage ....         0.828         0.124
Continuity Error (%) .....        -0.815


**************************        Volume        Volume
Flow Routing Continuity        acre-feet      Mgallons
**************************     ---------     ---------
Dry Weather Inflow .......         0.000         0.000
Wet Weather Inflow .......        29.815         9.716
Groundwater Inflow .......         0.000         0.000
RDII Inflow ..............         0.000         0.000
External Inflow ..........         0.000         0.000
External Outflow .........        29.936         9.755
Internal Outflow .........         0.000         0.000
Evaporation Loss .........         0.000         0.000
Initial Stored Volume ....         0.000         0.000
Final Stored Volume ......         0.108         0.035
Continuity Error (%) .....        -0.768


*********************************
Highest Flow Instability Indexes
*********************************
All links are stable.


*************************
Routing Time Step Summary
*************************
Minimum Time Step           :    30.00 sec
Average Time Step           :    30.00 sec
Maximum Time Step           :    30.00 sec
Percent in Steady State     :     0.00
Average Iterations per Step :     1.08


****************************
Subcatchment Runoff Summary
****************************

-----------------------------------------------------------------------------------------------
                        Total    Total    Total    Total    Total     Total     Peak  Runoff
                       Precip    Runon     Evap    Infil   Runoff    Runoff   Runoff   Coeff
Subcatchment               in       in       in       in       in      Mgal      CFS
```

BAS_I3	5.750	0.000	0.000	2.655	2.804	0.496	3.376	0.488
BAS_H3	5.750	0.000	0.000	0.252	5.513	2.943	108.498	0.959
BAS_49	5.750	0.000	0.000	0.671	5.102	4.281	109.929	0.887
BAS_85	5.750	0.000	0.000	2.185	3.321	1.064	14.446	0.578
BAS_159	5.750	0.000	0.000	2.464	3.071	0.934	8.600	0.534
System	5.750	0.000	0.000	1.203	4.469	9.717	224.220	0.777

****
Node Depth Summary
****

Node	Type	Average Depth Feet	Maximum Depth Feet	Maximum HGL Feet	Time of Max Occurrence days hr:min
I3	JUNCTION	0.77	4.10	1641.37	0 00:22
I3A	JUNCTION	0.77	4.10	1640.92	0 00:23
N3	JUNCTION	0.16	1.65	1639.45	0 00:17
N78A	JUNCTION	0.49	2.22	1648.57	0 00:22
N78	JUNCTION	0.49	2.22	1649.31	0 00:21
N144A	JUNCTION	0.32	1.80	1650.53	0 00:21
N144	JUNCTION	0.32	1.80	1651.19	0 00:20
N79A	JUNCTION	0.42	2.42	1653.91	0 00:20
N79	JUNCTION	0.42	2.42	1655.72	0 00:20
H3o	JUNCTION	0.00	0.20	1638.00	0 00:15
N4	OUTFALL	0.32	1.77	1638.15	0 00:23
H3	DIVIDER	0.16	2.00	1640.44	0 00:14

****
Node InFlow Summary
****

Node	Type	Maximum Lateral Inflow CFS	Maximum Total Inflow CFS	Time of Max Occurrence days hr:min	Lateral Inflow Volume Mgal	Total Inflow Volume Mgal
I3	JUNCTION	3.38	199.50	0 00:22	0.495	9.759
I3A	JUNCTION	0.00	199.39	0 00:23	0.000	9.756
N3	JUNCTION	0.00	111.46	0 00:17	0.000	2.944
N78A	JUNCTION	0.00	122.60	0 00:22	0.000	6.275
N78	JUNCTION	8.60	122.64	0 00:21	0.933	6.277
N144A	JUNCTION	0.00	121.06	0 00:21	0.000	5.343
N144	JUNCTION	14.45	121.20	0 00:20	1.064	5.343
N79A	JUNCTION	0.00	109.65	0 00:20	0.000	4.280
N79	JUNCTION	109.93	109.93	0 00:20	4.280	4.280
H3o	JUNCTION	0.00	3.88	0 00:15	0.000	0.003
N4	OUTFALL	0.00	199.27	0 00:23	0.000	9.754
H3	DIVIDER	108.50	108.50	0 00:15	2.943	2.943

****
Node Surcharge Summary
****

Surcharging occurs when water rises above the top of the highest conduit.

Node	Type	Hours Surcharged	Max. Height Above Crown Feet	Min. Depth Below Rim Feet
H3	DIVIDER	0.04	0.000	0.000

****
Node Flooding Summary

****

Flooding refers to all water that overflows a node, whether it ponds or not.

Node	Hours Flooded	Maximum Rate CFS	Time of Max Occurrence days hr:min	Total Flood Volume Mgal	Maximum Ponded Volume acre-in
H3	0.04	0.00	0 00:00	0.000	0.00

****
Outfall Loading Summary
****

Outfall Node	Flow Freq. Pcnt.	Avg. Flow CFS	Max. Flow CFS	Total Volume Mgal
N4	99.57	14.55	199.27	9.754
System	99.57	14.55	199.27	9.754

****
Link Flow Summary
****

Link	Type	Maximum Flow CFS	Time of Max Occurrence days hr:min	Maximum Velocity ft/sec	Max/ Full Flow	Max/ Full Depth
I3-13A	CONDUIT	199.39	0 00:23	5.80	1.00	0.82
I3A-N4	CONDUIT	199.27	0 00:23	4.02	0.80	0.88
H3-N3	CONDUIT	109.80	0 00:17	9.05	1.06	0.91
N3-I3	CONDUIT	111.32	0 00:17	11.00	0.33	0.51
C79-79A	CONDUIT	109.65	0 00:20	15.48	0.82	0.69
C79A-144	CONDUIT	109.62	0 00:20	3.36	0.01	0.08
C144-144A	CONDUIT	121.06	0 00:21	6.91	0.65	0.54
C144A-78	CONDUIT	120.93	0 00:21	2.79	0.02	0.11
C78-78A	CONDUIT	122.60	0 00:22	8.55	0.60	0.56
C78A-I3	CONDUIT	119.41	0 00:26	2.78	0.02	0.11
CH3-H3o	CONDUIT	3.88	0 00:15	3.78	0.04	0.10
CH3o-N3	DUMMY	3.88	0 00:15			

****
Conduit Surcharge Summary
****

Conduit	Hours Full Both Ends	Hours Full Upstream	Hours Full Dnstream	Hours Above Full Normal Flow	Hours Capacity Limited
I3-13A	0.01	0.01	0.01	0.92	0.01
H3-N3	0.01	0.04	0.01	0.04	0.04
C144-144A	0.01	0.01	0.01	0.47	0.01
C78-78A	0.01	0.01	0.01	0.42	0.01
CH3o-N3	0.01	0.01	0.01	25.01	0.01

Analysis begun on: Wed Sep 17 12:52:36 2008
Analysis ended on: Wed Sep 17 12:52:37 2008
Total elapsed time: 00:00:01

```
EPA STORM WATER MANAGEMENT MODEL - VERSION 5.0 (Build 5.0.013)
--------------------------------------------------------------

"City of Brookings, SD-Study Area 3: 5-yr 24-hr Storm Event"

****************
Analysis Options
****************
Flow Units ............... CFS
Infiltration Method ...... CURVE_NUMBER
Flow Routing Method ...... KINWAVE
Starting Date ............ JAN-01-2007 00:00:00
Ending Date .............. JAN-02-2007 01:00:00
Antecedent Dry Days ...... 0.0
Report Time Step ......... 00:05:00
Wet Time Step ............ 00:05:00
Dry Time Step ............ 00:05:00
Routing Time Step ........ 30.00 sec


**************************        Volume         Depth
Runoff Quantity Continuity     acre-feet        inches
**************************     ---------       -------
Total Precipitation ......        22.553         3.380
Evaporation Loss .........         0.000         0.000
Infiltration Loss ........         6.291         0.943
Surface Runoff ...........        15.707         2.354
Final Surface Storage ....         0.710         0.106
Continuity Error (%) .....        -0.690


**************************        Volume        Volume
Flow Routing Continuity        acre-feet      Mgallons
**************************     ---------     ---------
Dry Weather Inflow .......         0.000         0.000
Wet Weather Inflow .......        15.702         5.117
Groundwater Inflow .......         0.000         0.000
RDII Inflow ..............         0.000         0.000
External Inflow ..........         0.000         0.000
External Outflow .........        15.778         5.142
Internal Outflow .........         0.000         0.000
Evaporation Loss .........         0.000         0.000
Initial Stored Volume ....         0.000         0.000
Final Stored Volume ......         0.086         0.028
Continuity Error (%) .....        -1.030


*********************************
Highest Flow Instability Indexes
*********************************
All links are stable.


*************************
Routing Time Step Summary
*************************
Minimum Time Step           :    30.00 sec
Average Time Step           :    30.00 sec
Maximum Time Step           :    30.00 sec
Percent in Steady State     :     0.00
Average Iterations per Step :     1.09


****************************
Subcatchment Runoff Summary
****************************

-----------------------------------------------------------------------------------------------
                        Total    Total    Total    Total    Total     Total     Peak  Runoff
                       Precip    Runon     Evap    Infil   Runoff    Runoff   Runoff   Coeff
Subcatchment               in       in       in       in       in      Mgal      CFS
```

BAS_I3	3.380	0.000	0.000	2.004	1.123	0.198	0.663	0.332
BAS_H3	3.380	0.000	0.000	0.185	3.189	1.703	55.997	0.944
BAS_49	3.380	0.000	0.000	0.587	2.786	2.337	49.951	0.824
BAS_85	3.380	0.000	0.000	1.649	1.520	0.487	7.777	0.450
BAS_159	3.380	0.000	0.000	1.896	1.291	0.393	1.973	0.382
System	3.380	0.000	0.000	0.943	2.354	5.118	113.725	0.696

****
Node Depth Summary
****

Node	Type	Average Depth Feet	Maximum Depth Feet	Maximum HGL Feet	Time of Max Occurrence days hr:min
I3	JUNCTION	0.58	2.45	1639.72	0 00:22
I3A	JUNCTION	0.57	2.45	1639.27	0 00:23
H3	JUNCTION	0.17	1.61	1640.05	0 00:15
N3	JUNCTION	0.17	1.61	1639.41	0 00:15
N78A	JUNCTION	0.51	2.13	1648.48	0 00:17
N78	JUNCTION	0.51	2.13	1649.22	0 00:17
N144A	JUNCTION	0.34	1.74	1650.47	0 00:16
N144	JUNCTION	0.34	1.74	1651.13	0 00:16
N79A	JUNCTION	0.32	1.48	1652.97	0 00:15
N79	JUNCTION	0.32	1.48	1654.78	0 00:15
N4	OUTFALL	0.23	1.18	1637.56	0 00:23

****
Node InFlow Summary
****

Node	Type	Maximum Lateral Inflow CFS	Maximum Total Inflow CFS	Time of Max Occurrence days hr:min	Lateral Inflow Volume Mgal	Total Inflow Volume Mgal
I3	JUNCTION	0.66	96.44	0 00:22	0.198	5.145
I3A	JUNCTION	0.00	96.43	0 00:23	0.000	5.142
H3	JUNCTION	56.00	56.00	0 00:15	1.702	1.702
N3	JUNCTION	0.00	55.92	0 00:15	0.000	1.702
N78A	JUNCTION	0.00	57.19	0 00:17	0.000	3.214
N78	JUNCTION	1.97	57.19	0 00:17	0.392	3.215
N144A	JUNCTION	0.00	57.34	0 00:16	0.000	2.823
N144	JUNCTION	7.78	57.39	0 00:16	0.487	2.823
N79A	JUNCTION	0.00	49.94	0 00:15	0.000	2.336
N79	JUNCTION	49.95	49.95	0 00:15	2.337	2.337
N4	OUTFALL	0.00	96.39	0 00:23	0.000	5.141

****
Node Surcharge Summary
****

No nodes were surcharged.

****
Node Flooding Summary
****

No nodes were flooded.

****
Outfall Loading Summary
****

Outfall Node	Flow Freq. Pcnt.	Avg. Flow CFS	Max. Flow CFS	Total Volume Mgal
N4	99.57	7.67	96.39	5.141
System	99.57	7.67	96.39	5.141

****
Link Flow Summary
****

Link	Type	Maximum Flow CFS	Time of Max Occurrence days hr:min	Maximum Velocity ft/sec	Max/ Full Flow	Max/ Full Depth
I3-13A	CONDUIT	96.43	0 00:23	5.04	0.48	0.49
I3A-N4	CONDUIT	96.39	0 00:23	3.19	0.39	0.59
H3-N3	CONDUIT	55.92	0 00:15	7.75	0.98	0.80
N3-I3	CONDUIT	55.92	0 00:15	8.41	0.17	0.33
C79-79A	CONDUIT	49.94	0 00:15	12.86	0.37	0.42
C79A-144	CONDUIT	49.87	0 00:16	2.46	0.01	0.05
C144-144A	CONDUIT	57.34	0 00:16	6.82	0.62	0.52
C144A-78	CONDUIT	57.14	0 00:17	2.08	0.01	0.07
C78-78A	CONDUIT	57.19	0 00:17	8.41	0.56	0.53
C78A-I3	CONDUIT	53.12	0 00:26	2.05	0.01	0.07

****
Conduit Surcharge Summary
****

No conduits were surcharged.

Analysis begun on: Wed Sep 17 12:52:08 2008
Analysis ended on: Wed Sep 17 12:52:08 2008
Total elapsed time: < 1 sec

```
EPA STORM WATER MANAGEMENT MODEL - VERSION 5.0 (Build 5.0.013)
--------------------------------------------------------------

"City of Brookings, SD: Study Area 1:100-yr 24-hr, Future Conditions with no detention"

****************
Analysis Options
****************
Flow Units ............... CFS
Infiltration Method ...... CURVE_NUMBER
Flow Routing Method ...... KINWAVE
Starting Date ............ JAN-01-2007 00:00:00
Ending Date .............. JAN-02-2007 01:00:00
Antecedent Dry Days ...... 0.0
Report Time Step ......... 00:05:00
Wet Time Step ............ 00:05:00
Dry Time Step ............ 00:05:00
Routing Time Step ........ 30.00 sec


**************************        Volume         Depth
Runoff Quantity Continuity     acre-feet        inches
**************************     ---------       -------
Total Precipitation ......       190.325         5.750
Evaporation Loss .........         0.000         0.000
Infiltration Loss ........        55.782         1.685
Surface Runoff ...........       130.370         3.939
Final Surface Storage ....         5.446         0.165
Continuity Error (%) .....        -0.669


**************************        Volume        Volume
Flow Routing Continuity        acre-feet      Mgallons
**************************     ---------     ---------
Dry Weather Inflow .......         0.000         0.000
Wet Weather Inflow .......       130.329        42.470
Groundwater Inflow .......         0.000         0.000
RDII Inflow ..............         0.000         0.000
External Inflow ..........         0.000         0.000
External Outflow .........       130.217        42.433
Internal Outflow .........         0.000         0.000
Evaporation Loss .........         0.000         0.000
Initial Stored Volume ....         0.000         0.000
Final Stored Volume ......         0.399         0.130
Continuity Error (%) .....        -0.221


*********************************
Highest Flow Instability Indexes
*********************************
Link C115-113 (1)
Link C116A-115 (1)


*************************
Routing Time Step Summary
*************************
Minimum Time Step           :    30.00 sec
Average Time Step           :    30.00 sec
Maximum Time Step           :    30.00 sec
Percent in Steady State     :     0.00
Average Iterations per Step :     1.07


***************************
Subcatchment Runoff Summary
***************************

-----------------------------------------------------------------------------------------------
                        Total    Total    Total    Total    Total     Total     Peak  Runoff
                       Precip    Runon     Evap    Infil   Runoff    Runoff   Runoff   Coeff
```

Subcatchment	in	in	in	in	in	Mgal	CFS	
BAS_23	5.750	0.000	0.000	1.814	3.763	7.755	122.037	0.654
BAS_24	5.750	0.000	0.000	1.839	3.841	0.375	8.820	0.668
BAS_25	5.750	0.000	0.000	0.289	5.540	0.466	18.945	0.964
BAS_26	5.750	0.000	0.000	0.687	5.062	3.120	69.265	0.880
BAS_27	5.750	0.000	0.000	2.572	2.950	1.754	21.494	0.513
BAS_28	5.750	0.000	0.000	1.920	3.735	1.075	22.499	0.650
BAS_29	5.750	0.000	0.000	0.510	5.280	2.236	66.713	0.918
BAS_30	5.750	0.000	0.000	0.510	5.305	0.562	21.903	0.923
BAS_31	5.750	0.000	0.000	0.883	4.864	5.825	125.890	0.846
BAS_32	5.750	0.000	0.000	2.276	3.219	4.580	58.874	0.560
BAS_64	5.750	0.000	0.000	2.574	2.947	1.320	16.123	0.513
BAS_133	5.750	0.000	0.000	1.723	3.881	4.026	66.638	0.675
BAS_132	5.750	0.000	0.000	1.894	3.723	2.234	37.362	0.647
BAS_131	5.750	0.000	0.000	1.332	4.389	1.954	42.294	0.763
BAS_130	5.750	0.000	0.000	2.167	3.418	3.109	51.379	0.594
BAS_161	5.750	0.000	0.000	1.700	3.992	0.813	18.946	0.694
BAS_162	5.750	0.000	0.000	0.700	5.100	1.274	38.363	0.887
System	5.750	0.000	0.000	1.685	3.939	42.480	762.969	0.685

****
Node Depth Summary
****

Node	Type	Average Depth Feet	Maximum Depth Feet	Maximum HGL Feet	Time of Max Occurrence days	hr:min
N23	JUNCTION	0.90	3.14	1615.14	0	00:16
N25A	JUNCTION	0.99	4.17	1611.12	0	00:17
N28	JUNCTION	0.26	1.24	1609.24	0	00:10
N28A	JUNCTION	0.67	2.11	1609.79	0	00:10
N31A	JUNCTION	1.07	4.05	1601.94	0	00:22
N32	JUNCTION	1.22	4.32	1600.41	0	00:23
N113	JUNCTION	0.57	2.96	1618.50	0	00:16
N116	JUNCTION	0.47	2.02	1627.09	0	00:10
N117	JUNCTION	0.60	2.69	1626.87	0	00:15
N114	JUNCTION	0.55	2.13	1624.88	0	00:15
N116A	JUNCTION	0.47	2.02	1625.43	0	00:12
N117A	JUNCTION	0.60	2.68	1625.97	0	00:15
N146A	JUNCTION	0.31	2.00	1637.75	0	00:11
N115	JUNCTION	0.51	1.97	1622.34	0	00:16
N146o	JUNCTION	0.00	0.50	1636.25	0	00:11
N27o	JUNCTION	0.00	0.32	1606.77	0	00:11
N31o	JUNCTION	0.00	0.00	1597.89	0	00:00
N30B	JUNCTION	0.99	3.73	1603.95	0	00:20
N30A	JUNCTION	0.62	3.73	1604.50	0	00:20
N30o	JUNCTION	0.00	0.00	1600.77	0	00:00
N29	JUNCTION	0.68	4.04	1606.96	0	00:20
N26o	JUNCTION	0.00	0.00	1603.79	0	00:00
N26Ao	JUNCTION	0.00	0.00	1602.92	0	00:00
N25	JUNCTION	0.92	4.17	1612.63	0	00:17
N12	JUNCTION	0.00	0.44	1604.51	0	00:19
OUT3	OUTFALL	1.22	4.32	1600.37	0	00:23
N146	DIVIDER	0.32	2.00	1638.99	0	00:09
N27	DIVIDER	0.41	2.00	1612.00	0	00:10
N31	DIVIDER	1.00	3.85	1602.11	0	00:21
N30	DIVIDER	0.73	3.73	1606.19	0	00:20
N26	DIVIDER	1.04	4.05	1608.12	0	00:19
N26A	DIVIDER	0.68	4.05	1607.84	0	00:19
N25B	DIVIDER	1.03	3.50	1609.95	0	00:16

****
Node InFlow Summary
****

Node	Type	Maximum Lateral Inflow CFS	Maximum Total Inflow CFS	Time of Max Occurrence days hr:min	Lateral Inflow Volume Mgal	Total Inflow Volume Mgal
N23	JUNCTION	122.04	345.07	0 00:16	7.751	21.162
N25A	JUNCTION	0.00	362.81	0 00:17	0.000	21.621
N28	JUNCTION	22.50	22.50	0 00:10	1.075	1.075
N28A	JUNCTION	0.00	22.43	0 00:10	0.000	1.074
N31A	JUNCTION	0.00	670.58	0 00:22	0.000	36.543
N32	JUNCTION	72.99	714.25	0 00:23	5.898	42.431
N113	JUNCTION	42.29	229.52	0 00:16	1.954	13.415
N116	JUNCTION	37.36	37.36	0 00:10	2.233	2.233
N117	JUNCTION	66.64	66.64	0 00:15	4.024	4.024
N114	JUNCTION	51.38	51.86	0 00:15	3.108	3.939
N116A	JUNCTION	0.00	37.29	0 00:12	0.000	2.232
N117A	JUNCTION	0.00	66.35	0 00:15	0.000	4.023
N146A	JUNCTION	0.00	18.90	0 00:10	0.000	0.814
N115	JUNCTION	38.36	139.46	0 00:16	1.274	7.526
N146o	JUNCTION	0.00	2.23	0 00:11	0.000	0.003
N27o	JUNCTION	0.00	1.55	0 00:11	0.000	0.001
N31o	JUNCTION	0.00	0.00	0 00:00	0.000	0.000
N30B	JUNCTION	0.00	551.56	0 00:20	0.000	30.725
N30A	JUNCTION	21.90	551.81	0 00:20	0.562	30.727
N30o	JUNCTION	0.00	0.00	0 00:00	0.000	0.000
N29	JUNCTION	66.71	518.28	0 00:20	2.236	29.097
N26o	JUNCTION	0.00	0.00	0 00:00	0.000	0.000
N26Ao	JUNCTION	0.00	0.00	0 00:00	0.000	0.000
N25	JUNCTION	18.95	362.81	0 00:17	0.466	21.624
N12	JUNCTION	0.00	4.73	0 00:19	0.000	0.008
OUT3	OUTFALL	0.00	714.17	0 00:23	0.000	42.430
N146	DIVIDER	18.95	18.95	0 00:10	0.813	0.813
N27	DIVIDER	30.31	30.31	0 00:10	2.129	2.129
N31	DIVIDER	125.89	670.62	0 00:21	5.824	36.549
N30	DIVIDER	0.00	533.18	0 00:20	0.000	30.169
N26	DIVIDER	69.26	451.90	0 00:19	3.120	26.863
N26A	DIVIDER	0.00	451.76	0 00:19	0.000	26.863
N25B	DIVIDER	0.00	383.42	0 00:17	0.000	23.748

****
Node Surcharge Summary
****

Surcharging occurs when water rises above the top of the highest conduit.

Node	Type	Hours Surcharged	Max. Height Above Crown Feet	Min. Depth Below Rim Feet
N146	DIVIDER	0.08	0.000	0.000
N27	DIVIDER	0.03	0.000	0.000
N25B	DIVIDER	0.06	0.000	0.500

****
Node Flooding Summary
****

Flooding refers to all water that overflows a node, whether it ponds or not.

Node	Hours Flooded	Maximum Rate CFS	Time of Max Occurrence days hr:min	Total Flood Volume Mgal	Maximum Ponded Volume acre-in
N146	0.08	0.00	0 00:00	0.000	0.00
N27	0.03	0.00	0 00:00	0.000	0.00

****
Outfall Loading Summary

****

Outfall Node	Flow Freq. Pcnt.	Avg. Flow CFS	Max. Flow CFS	Total Volume Mgal
OUT3	99.67	63.22	714.17	42.430
System	99.67	63.22	714.17	42.430

****
Link Flow Summary
****

Link	Type	Maximum Flow CFS	Time of Max Occurrence days hr:min	Maximum Velocity ft/sec	Max/ Full Flow	Max/ Full Depth
C23-25	CONDUIT	344.81	0 00:17	6.64	0.56	0.79
C25-25A	CONDUIT	362.81	0 00:17	12.42	1.00	0.83
C25A-25B	CONDUIT	362.74	0 00:17	5.94	0.96	0.98
C25B-26	CONDUIT	378.37	0 00:17	6.03	1.00	1.00
C26-26A	CONDUIT	451.76	0 00:19	13.14	0.97	0.81
C26A-29	CONDUIT	451.56	0 00:20	13.14	0.97	0.81
C27-25B	CONDUIT	28.78	0 00:12	10.37	1.03	0.93
C28-28A	CONDUIT	22.43	0 00:10	5.51	0.71	0.62
C28A-30	CONDUIT	22.41	0 00:10	8.87	0.09	0.40
C29-30	CONDUIT	518.16	0 00:20	13.44	0.86	0.73
C30-30A	CONDUIT	532.52	0 00:20	13.61	0.88	0.75
C30A-30B	CONDUIT	551.56	0 00:20	13.63	0.87	0.74
C30B-31	CONDUIT	548.21	0 00:22	7.50	0.84	0.93
C31-31A	CONDUIT	670.58	0 00:22	7.91	0.93	0.77
C31A-32	CONDUIT	666.80	0 00:24	7.87	0.60	0.81
C32-3	CONDUIT	714.17	0 00:23	7.42	0.71	0.86
C113-23	CONDUIT	229.16	0 00:17	11.09	0.86	0.74
C114-113	CONDUIT	51.69	0 00:16	9.73	0.85	0.71
C115-113	CONDUIT	138.80	0 00:17	10.12	0.97	0.79
C117A-115	CONDUIT	65.69	0 00:16	8.54	0.22	0.32
C116A-115	CONDUIT	37.23	0 00:14	7.27	0.12	0.24
C116-116A	CONDUIT	37.29	0 00:12	7.43	0.79	0.67
C117-117A	CONDUIT	66.35	0 00:15	8.43	0.93	0.76
C146-146A	CONDUIT	17.22	0 00:10	6.02	1.07	1.00
C146A-114	CONDUIT	13.61	0 00:40	1.38	0.00	0.03
C146-146o	CONDUIT	2.23	0 00:11	6.50	0.14	0.25
C146o-146A	DUMMY	2.23	0 00:11			
C27-27o	CONDUIT	1.55	0 00:11	9.35	0.06	0.16
C27o-25B	DUMMY	1.55	0 00:11			
C31-31o	CONDUIT	0.00	0 00:00	0.00	0.00	0.00
C31o-31A	DUMMY	0.00	0 00:00			
C30-30o	CONDUIT	0.00	0 00:00	0.00	0.00	0.00
C30o-30A	DUMMY	0.00	0 00:00			
C26-26o	CONDUIT	0.00	0 00:00	0.00	0.00	0.00
C26o-26A	DUMMY	0.00	0 00:00			
C26A-26Ao	CONDUIT	0.00	0 00:00	0.00	0.00	0.00
C26Ao-29	DUMMY	0.00	0 00:00			
C26	CONDUIT	4.73	0 00:19	4.41	0.01	0.10
C27	DUMMY	4.73	0 00:19			

****
Conduit Surcharge Summary
****

Conduit	Hours Full Both Ends	Hours Full Upstream	Hours Full Dnstream	Hours Above Full Normal Flow	Hours Capacity Limited
C25B-26	0.03	0.06	0.04	0.04	0.06

C27-25B	0.01	0.03	0.01	0.03	0.03
C28-28A	0.01	0.01	0.01	0.17	0.01
C31-31A	0.01	0.01	0.01	0.94	0.01
C146-146A	0.03	0.08	0.03	0.06	0.08
C146o-146A	0.01	0.01	0.01	25.01	0.01
C27o-25B	0.01	0.01	0.01	25.01	0.01
C31o-31A	0.01	0.01	0.01	25.01	0.01
C30o-30A	0.01	0.01	0.01	25.01	0.01
C26o-26A	0.01	0.01	0.01	25.01	0.01
C26Ao-29	0.01	0.01	0.01	25.01	0.01
C27	0.01	0.01	0.01	25.01	0.01

```
Analysis begun on:  Wed Sep 17 12:50:27 2008
Analysis ended on:  Wed Sep 17 12:50:27 2008
Total elapsed time: < 1 sec
```

```
EPA STORM WATER MANAGEMENT MODEL - VERSION 5.0 (Build 5.0.013)
--------------------------------------------------------------

"City of Brookings, SD: Study Area 1: 5-yr 24-hr, Future Conditions with no detention"

****************
Analysis Options
****************
Flow Units ............... CFS
Infiltration Method ...... CURVE_NUMBER
Flow Routing Method ...... KINWAVE
Starting Date ............ JAN-01-2007 00:00:00
Ending Date .............. JAN-02-2007 01:00:00
Antecedent Dry Days ...... 0.0
Report Time Step ......... 00:05:00
Wet Time Step ............ 00:05:00
Dry Time Step ............ 00:05:00
Routing Time Step ........ 30.00 sec


**************************        Volume         Depth
Runoff Quantity Continuity     acre-feet        inches
**************************     ---------       -------
Total Precipitation ......       111.878         3.380
Evaporation Loss .........         0.000         0.000
Infiltration Loss ........        43.100         1.302
Surface Runoff ...........        64.759         1.956
Final Surface Storage ....         4.679         0.141
Continuity Error (%) .....        -0.590


**************************        Volume        Volume
Flow Routing Continuity        acre-feet      Mgallons
**************************     ---------     ---------
Dry Weather Inflow .......         0.000         0.000
Wet Weather Inflow .......        64.731        21.093
Groundwater Inflow .......         0.000         0.000
RDII Inflow ..............         0.000         0.000
External Inflow ..........         0.000         0.000
External Outflow .........        64.686        21.079
Internal Outflow .........         0.000         0.000
Evaporation Loss .........         0.000         0.000
Initial Stored Volume ....         0.000         0.000
Final Stored Volume ......         0.417         0.136
Continuity Error (%) .....        -0.576


*********************************
Highest Flow Instability Indexes
*********************************
Link C25-25A (1)
Link C23-25 (1)
Link C25A-25B (1)


*************************
Routing Time Step Summary
*************************
Minimum Time Step           :    30.00 sec
Average Time Step           :    30.00 sec
Maximum Time Step           :    30.00 sec
Percent in Steady State     :     0.00
Average Iterations per Step :     1.05


***************************
Subcatchment Runoff Summary
***************************

-----------------------------------------------------------------------------------------------
                        Total    Total    Total    Total    Total     Total     Peak  Runoff
```

Subcatchment	Precip in	Runon in	Evap in	Infil in	Runoff in	Runoff Mgal	Runoff CFS	Coeff
BAS_23	3.380	0.000	0.000	1.399	1.824	3.760	63.565	0.540
BAS_24	3.380	0.000	0.000	1.417	1.886	0.184	5.159	0.558
BAS_25	3.380	0.000	0.000	0.271	3.153	0.265	9.339	0.933
BAS_26	3.380	0.000	0.000	0.599	2.757	1.700	32.066	0.816
BAS_27	3.380	0.000	0.000	1.908	1.272	0.756	12.544	0.376
BAS_28	3.380	0.000	0.000	1.472	1.810	0.521	12.612	0.535
BAS_29	3.380	0.000	0.000	0.458	2.926	1.240	29.622	0.866
BAS_30	3.380	0.000	0.000	0.459	2.957	0.313	10.500	0.875
BAS_31	3.380	0.000	0.000	0.748	2.605	3.120	64.517	0.771
BAS_32	3.380	0.000	0.000	1.709	1.450	2.064	32.134	0.429
BAS_64	3.380	0.000	0.000	1.909	1.270	0.569	9.413	0.376
BAS_133	3.380	0.000	0.000	1.337	1.906	1.978	34.883	0.564
BAS_132	3.380	0.000	0.000	1.453	1.798	1.079	20.346	0.532
BAS_131	3.380	0.000	0.000	1.070	2.262	1.007	22.364	0.669
BAS_130	3.380	0.000	0.000	1.637	1.590	1.446	27.846	0.470
BAS_161	3.380	0.000	0.000	1.323	1.988	0.405	10.673	0.588
BAS_162	3.380	0.000	0.000	0.610	2.783	0.695	17.911	0.823
System	3.380	0.000	0.000	1.302	1.956	21.101	396.239	0.579

****
Node Depth Summary
****

Node	Type	Average Depth Feet	Maximum Depth Feet	Maximum HGL Feet	Time of Max Occurrence days hr:min
N23	JUNCTION	0.65	2.53	1614.53	0 00:17
N25A	JUNCTION	0.85	3.87	1610.82	0 00:19
N27	JUNCTION	0.28	1.16	1611.16	0 00:10
N28	JUNCTION	0.26	1.35	1609.35	0 00:10
N28A	JUNCTION	0.53	1.70	1609.38	0 00:10
N30B	JUNCTION	0.64	3.99	1604.21	0 00:20
N31A	JUNCTION	1.10	4.03	1601.92	0 00:25
N32	JUNCTION	1.25	4.04	1600.13	0 00:30
N113	JUNCTION	0.44	2.53	1618.07	0 00:17
N116	JUNCTION	0.36	1.55	1626.62	0 00:15
N117	JUNCTION	0.46	1.92	1626.10	0 00:15
N114	JUNCTION	0.42	1.61	1624.36	0 00:15
N116A	JUNCTION	0.36	1.54	1624.95	0 00:15
N117A	JUNCTION	0.45	1.92	1625.21	0 00:15
N146A	JUNCTION	0.23	1.17	1636.92	0 00:11
N146	JUNCTION	0.23	1.19	1638.18	0 00:10
N115o	JUNCTION	0.00	0.00	1615.54	0 00:00
N25o	JUNCTION	0.00	0.00	1606.95	0 00:00
N26o	JUNCTION	0.00	0.00	1603.79	0 00:00
N26Ao	JUNCTION	0.00	0.00	1602.92	0 00:00
N29o	JUNCTION	0.00	0.00	1602.46	0 00:00
N30o	JUNCTION	0.00	0.00	1600.77	0 00:00
N30Ao	JUNCTION	0.00	0.00	1600.22	0 00:00
N31	JUNCTION	0.69	4.03	1602.29	0 00:25
N1	JUNCTION	0.00	0.34	1604.41	0 00:20
OUT3	OUTFALL	1.25	4.04	1600.09	0 00:30
N115	DIVIDER	0.37	1.37	1621.74	0 00:16
N25	DIVIDER	0.85	3.87	1612.33	0 00:18
N26	DIVIDER	0.66	4.21	1608.28	0 00:20
N26A	DIVIDER	0.65	4.21	1608.00	0 00:20
N29	DIVIDER	0.65	4.21	1607.13	0 00:20
N30	DIVIDER	0.66	4.18	1606.64	0 00:20
N30A	DIVIDER	0.62	3.99	1604.76	0 00:20
N25B	DIVIDER	0.57	2.00	1608.45	0 00:16

****
Node InFlow Summary
****

Node	Type	Maximum Lateral Inflow CFS	Maximum Total Inflow CFS	Time of Max Occurrence days hr:min		Lateral Inflow Volume Mgal	Total Inflow Volume Mgal
N23	JUNCTION	63.56	179.50	0	00:17	3.757	10.369
N25A	JUNCTION	0.00	188.21	0	00:19	0.000	10.625
N27	JUNCTION	17.70	17.70	0	00:10	0.940	0.940
N28	JUNCTION	12.61	12.61	0	00:10	0.521	0.521
N28A	JUNCTION	0.00	12.56	0	00:10	0.000	0.521
N30B	JUNCTION	0.00	275.75	0	00:20	0.000	15.327
N31A	JUNCTION	0.00	315.51	0	00:25	0.000	18.454
N32	JUNCTION	38.76	327.82	0	00:30	2.631	21.079
N113	JUNCTION	22.36	118.94	0	00:17	1.007	6.614
N116	JUNCTION	20.35	20.35	0	00:15	1.078	1.078
N117	JUNCTION	34.88	34.88	0	00:15	1.976	1.976
N114	JUNCTION	27.85	27.89	0	00:15	1.445	1.863
N116A	JUNCTION	0.00	20.28	0	00:15	0.000	1.078
N117A	JUNCTION	0.00	34.76	0	00:15	0.000	1.976
N146A	JUNCTION	0.00	10.39	0	00:11	0.000	0.404
N146	JUNCTION	10.67	10.67	0	00:10	0.405	0.405
N115o	JUNCTION	0.00	0.00	0	00:00	0.000	0.000
N25o	JUNCTION	0.00	0.00	0	00:00	0.000	0.000
N26o	JUNCTION	0.00	0.00	0	00:00	0.000	0.000
N26Ao	JUNCTION	0.00	0.00	0	00:00	0.000	0.000
N29o	JUNCTION	0.00	0.00	0	00:00	0.000	0.000
N30o	JUNCTION	0.00	0.00	0	00:00	0.000	0.000
N30Ao	JUNCTION	0.00	0.00	0	00:00	0.000	0.000
N31	JUNCTION	64.52	315.60	0	00:25	3.119	18.458
N1	JUNCTION	0.00	4.84	0	00:20	0.000	0.009
OUT3	OUTFALL	0.00	327.83	0	00:30	0.000	21.077
N115	DIVIDER	17.91	71.71	0	00:16	0.695	3.747
N25	DIVIDER	9.34	188.39	0	00:18	0.266	10.631
N26	DIVIDER	32.07	229.45	0	00:20	1.699	13.261
N26A	DIVIDER	0.00	229.38	0	00:20	0.000	13.260
N29	DIVIDER	29.62	258.90	0	00:20	1.240	14.498
N30	DIVIDER	0.00	266.28	0	00:20	0.000	15.018
N30A	DIVIDER	10.50	275.79	0	00:20	0.314	15.328
N25B	DIVIDER	0.00	198.28	0	00:18	0.000	11.563

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Node Surcharge Summary
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Surcharging occurs when water rises above the top of the highest conduit.

Node	Type	Hours Surcharged	Max. Height Above Crown Feet	Min. Depth Below Rim Feet
N25B	DIVIDER	0.08	0.000	2.000

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Node Flooding Summary
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No nodes were flooded.

****
Outfall Loading Summary
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Outfall Node	Flow Freq. Pcnt.	Avg. Flow CFS	Max. Flow CFS	Total Volume Mgal

OUT3	99.67	31.40	327.83	21.077
System	99.67	31.40	327.83	21.077

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Link Flow Summary
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Link	Type	Maximum Flow CFS	Time of Max Occurrence days hr:min	Maximum Velocity ft/sec	Max/ Full Flow	Max/ Full Depth
C23-25	CONDUIT	179.23	0 00:18	5.63	0.29	0.59
C25-25A	CONDUIT	188.21	0 00:19	5.81	0.94	0.77
C25A-25B	CONDUIT	188.22	0 00:19	8.71	0.98	0.99
C25B-26	CONDUIT	192.76	0 00:17	8.80	1.00	1.00
C26-26A	CONDUIT	229.38	0 00:20	10.91	0.98	0.84
C26A-29	CONDUIT	229.41	0 00:20	10.91	0.98	0.84
C27-25B	CONDUIT	17.54	0 00:10	9.44	0.63	0.57
C28-28A	CONDUIT	12.56	0 00:10	5.64	0.79	0.67
C28A-30	CONDUIT	12.55	0 00:10	7.67	0.05	0.32
C29-30	CONDUIT	258.95	0 00:20	11.27	0.98	0.84
C30-30A	CONDUIT	266.17	0 00:20	11.47	0.89	0.77
C30A-30B	CONDUIT	275.75	0 00:20	11.52	0.93	0.80
C30B-31	CONDUIT	264.15	0 00:25	3.41	0.44	0.67
C31-31A	CONDUIT	315.51	0 00:25	7.83	0.98	0.81
C31A-32	CONDUIT	307.47	0 00:30	3.67	0.51	0.76
C32-3	CONDUIT	327.83	0 00:30	3.41	0.60	0.81
C113-23	CONDUIT	118.74	0 00:17	9.44	0.82	0.72
C114-113	CONDUIT	27.77	0 00:16	8.41	0.74	0.64
C115-113	CONDUIT	71.42	0 00:17	8.44	0.97	0.98
C117A-115	CONDUIT	34.29	0 00:16	7.08	0.11	0.23
C116A-115	CONDUIT	20.23	0 00:16	6.08	0.07	0.18
C116-116A	CONDUIT	20.28	0 00:15	6.42	0.70	0.62
C117-117A	CONDUIT	34.76	0 00:15	7.32	0.74	0.64
C146-146A	CONDUIT	10.39	0 00:11	5.46	0.65	0.59
C146A-114	CONDUIT	6.54	0 00:24	1.07	0.00	0.02
C115-115o	CONDUIT	0.00	0 00:00	0.00	0.00	0.00
C115o-113	DUMMY	0.00	0 00:00			
C225-25o	CONDUIT	0.00	0 00:00	0.00	0.00	0.00
C25o-25A	DUMMY	0.00	0 00:00			
C26-26o	CONDUIT	0.00	0 00:00	0.00	0.00	0.00
C26o-26A	DUMMY	0.00	0 00:00			
C26A-26Ao	CONDUIT	0.00	0 00:00	0.00	0.00	0.00
C26Ao-29	DUMMY	0.00	0 00:00			
C29-29o	CONDUIT	0.00	0 00:00	0.00	0.00	0.00
C29o-30	DUMMY	0.00	0 00:00			
C30-30o	CONDUIT	0.00	0 00:00	0.00	0.00	0.00
C30o-30A	DUMMY	0.00	0 00:00			
C30A-30Ao	CONDUIT	0.00	0 00:00	0.00	0.00	0.00
C130Ao-30B	DUMMY	0.00	0 00:00			
C1	CONDUIT	4.84	0 00:20	7.11	0.03	0.16
C2	DUMMY	4.84	0 00:20			

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Conduit Surcharge Summary
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Conduit	Hours Full Both Ends	Hours Full Upstream	Hours Full Dnstream	Hours Above Full Normal Flow	Hours Capacity Limited
C25-25A	0.01	0.01	0.01	0.53	0.01
C25B-26	0.07	0.08	0.07	0.07	0.08
C115o-113	0.01	0.01	0.01	25.01	0.01
C25o-25A	0.01	0.01	0.01	25.01	0.01
C26o-26A	0.01	0.01	0.01	25.01	0.01
C26Ao-29	0.01	0.01	0.01	25.01	0.01

C29o-30	0.01	0.01	0.01	25.01	0.01
C30o-30A	0.01	0.01	0.01	25.01	0.01
C130Ao-30B	0.01	0.01	0.01	25.01	0.01
C2	0.01	0.01	0.01	25.01	0.01

Analysis begun on: Wed Sep 17 12:48:04 2008
Analysis ended on: Wed Sep 17 12:48:05 2008
Total elapsed time: 00:00:01