



Appendix C

Model Data

- C.1 - Model Data
- C.2 - Model Calibration
- C.3 - Model Results

Appendix C.1

Model Data

Link Data

Name	Length ft	Roughness	Upstream Node Name	Downstream Node Name	Downstream Invert Elevation
Link46	39.500	0.014	Basin75	Node35	457.740
dummy2	1323.890	0.014	Basin75	Basin74	0.000
Link47	234.600	0.014	Node35	Basin76.1	456.920
Link48	279.370	0.014	Basin76.1	N104	456.280
Link326	472.830	0.014	Basin76.2	Node229	456.810
Link327	265.370	0.014	Node229	Node230	456.279
Link328	274.510	0.014	Node230	N104	455.730
Link40	242.830	0.014	N104	Basin70	454.880
Link41	276.760	0.014	Basin70	Node30	453.640
Link42	516.970	0.014	Node30	Basin69	451.750
Link43	43.620	0.014	Basin69	Node31	451.470
Link216	856.890	0.014	Basin71	Node192	441.750
dummy7	673.550	0.014	Basin71	Basin60	0.000
Link177	251.700	0.014	Basin73	Basin73.1	440.000
dummy34	32.010	0.014	Basin73	Basin72	0.000
Link177.1	251.710	0.014	Basin73.1	Node140	437.000
dummy33	1176.780	0.014	Node140	Node344	0.000
Link315	235.540	0.014	Basin66	Node342	436.460
Link79	351.910	0.014	Node342	Basin67	434.480
Link317	421.910	0.014	Basin67	Node344	431.960
dummy32	1341.430	0.014	Node344	Node347	0.000
Link19	443.480	0.014	Basin54	Node12	431.540
Link20	192.360	0.014	Node12	Node347	429.160
dummy31	327.750	0.014	Node347	Basin55	0.000
Link179	197.840	0.014	Basin55	N444	431.000
dummy30	1767.960	0.014	Basin55	N220	0.000
L202	644.960	0.014	Basin40	N220	429.770
dummy29	1635.390	0.014	N220	Node150	0.000
Link182	929.680	0.014	Basin32	Node150	430.000
dummy28	1099.690	0.014	Node150	Basin31C	0.000
Link184	322.880	0.014	Basin31C	Node152	426.370
Link222	237.040	0.014	Basin31D	Node152	426.370
Link227	572.270	0.014	Node152	Node197	425.350
Link394	248.650	0.014	Basin31B	Node418	426.600
dummy27	796.200	0.014	Basin31B	Node158	0.000
Link189	47.820	0.014	Basin38A	N103	433.460
Link219	229.500	0.014	N103	Node196	432.000
Link220	245.540	0.014	Node196	Node158	430.000
Link293	189.510	0.014	Basin38B	Node212	431.000
Link181	530.780	0.014	Basin39	Node148	430.000
Link221	797.490	0.014	Basin45	Node161	433.600
Link180	665.490	0.014	Basin46	Node146	434.000
Link59	719.450	0.014	Basin52	Basin54.1	437.750
Link60	209.380	0.014	Basin54.1	Node48	436.890
Link62	518.980	0.014	Node48	Node49	434.500
Link303	352.220	0.014	Basin62	Node326	442.440
Link308	522.160	0.014	Node334	N232	444.350
Link306	166.920	0.014	N232	Basin61	443.360
Link75	631.780	0.014	Basin59	Node61	444.810

Link Data

Name	Upstream Invert Elevation	Diameter (Height) ft
Link46	458.670	0.833
dummy2	0.050	0.050
Link47	457.740	0.833
Link48	456.720	0.833
Link326	457.755	0.667
Link327	456.810	0.667
Link328	456.279	0.667
Link40	455.780	0.833
Link41	454.780	0.833
Link42	453.190	1.000
Link43	451.600	1.250
Link216	454.700	1.000
dummy7	0.050	0.050
Link177	443.000	0.833
dummy34	0.050	0.050
Link177.1	440.000	0.833
dummy33	0.050	0.050
Link315	438.650	1.000
Link79	436.310	1.250
Link317	434.430	1.250
dummy32	0.050	0.050
Link19	433.430	0.833
Link20	431.290	1.000
dummy31	0.050	0.050
Link179	433.000	0.833
dummy30	0.050	0.050
L202	430.780	1.750
dummy29	0.050	0.050
Link182	434.000	1.000
dummy28	0.050	0.050
Link184	427.390	1.000
Link222	428.500	1.500
Link227	426.180	1.250
Link394	428.160	2.000
dummy27	0.050	0.050
Link189	433.480	0.833
Link219	433.460	0.833
Link220	432.000	1.000
Link293	432.000	0.667
Link181	430.500	0.833
Link221	435.280	0.833
Link180	434.013	0.667
Link59	439.600	1.250
Link60	437.650	1.250
Link62	436.590	1.500
Link303	443.390	0.833
Link308	447.650	0.833
Link306	444.200	1.250
Link75	447.780	1.000

Link Data

Name	Length ft	Roughness	Upstream Node Name	Downstream Node Name	Downstream Invert Elevation
Link76	120.000	0.014	Node61	Basin61	443.960
Link304	312.440	0.014	Basin61	Node331	443.230
Link77	362.850	0.014	Node331	Node326	442.540
Link300	240.610	0.014	Node326	Basin63	440.200
Link301	464.410	0.014	Basin63	Node323	440.260
Link78	157.050	0.014	Node323	Node322	439.140
Link214	331.680	0.014	Basin64	Node188	438.000
Link215	177.760	0.014	Basin65	Node190	442.160
dummy17	519.740	0.014	Node190	Node188	0.000
dummy18	23.370	0.014	Node188	Node322	0.000
dummy19	2660.690	0.014	Node322	Node49	0.000
dummy20	49.030	0.014	Node49	Node146	0.000
dummy21	898.990	0.014	Node146	Node161	0.000
dummy22	262.570	0.014	Node161	Node148	0.000
dummy40	100.540	0.014	Node148	Node212	0.000
dummy41	100.950	0.014	Node212	Node158	0.000
dummy24	1018.850	0.014	Node158	Node163	0.000
Link191	700.790	0.014	Basin37	Node163	430.000
dummy25	1088.850	0.014	Node163	Node115	0.000
Link362	249.270	0.014	Basin43.2	Basin43.2.1	434.120
Link307.1	177.740	0.014	Basin43.2.1	Node219	432.470
Link310	152.820	0.014	Node219	Node220	432.241
Link311	88.340	0.014	Node220	Node221	432.100
Link312	37.050	0.014	Node221	Node222	432.033
Link313	144.250	0.014	Node222	Node223	431.778
Link68	25.090	0.014	Basin43.1	Node54	432.120
Link314	367.940	0.014	Node54	Node223	431.778
Link316	284.530	0.014	Node223	Node57	431.513
Link73	25.030	0.014	Node57	Basin44	430.220
Link161	294.360	0.014	Basin44	Node127	428.950
Link162	379.400	0.014	Node127	Basin35	428.090
1383.1	301.950	0.014	Basin36.1	Basin35	428.240
1383.2	301.950	0.014	Basin36.1	Basin35	428.090
Link135	302.530	0.014	Basin35	Basin36.2	427.330
Link136	405.940	0.014	Basin36.2	Basin30	426.900
Link137	421.990	0.014	Basin30	Node114	425.400
Link138	278.980	0.014	Node114	Node115	425.000
Link139	174.960	0.014	Node115	Node59	424.500
dummy26	1629.250	0.014	Node59	Basin29	0.000
Link152	5.500	0.014	N423	Node271	426.290
Link155	218.540	0.014	N423	Node272	424.680
Link243	159.860	0.014	Node272	Basin13	423.850
Pump1	7.120	0.014	Node271	Node125	0.000
Pump2	10.000	0.014	Node271	Node125	0.000
QuailRun	7.120	0.014	Node271	Node125	0.000
Pump2	10.000	0.014	Node271	Node125	0.000
Link452	121.120	0.014	Node125	Basin14	429.590
Link244	144.500	0.014	Basin14	Node274	429.050
Link245	406.150	0.014	Node274	Node249	428.130

Link Data

Name	Upstream Invert Elevation	Diameter (Height) ft
Link76	444.760	1.000
Link304	443.260	1.250
Link77	443.130	1.250
Link300	442.240	1.250
Link301	440.200	1.500
Link78	440.010	1.500
Link214	441.000	0.833
Link215	443.000	0.833
dummy17	0.050	0.050
dummy18	0.050	0.050
dummy19	0.050	0.050
dummy20	0.050	0.050
dummy21	0.050	0.050
dummy22	0.050	0.050
dummy40	0.050	0.050
dummy41	0.050	0.050
dummy24	0.050	0.050
Link191	430.500	1.500
dummy25	0.050	0.050
Link362	435.770	1.000
Link307.1	434.120	1.000
Link310	432.471	1.000
Link311	432.241	1.250
Link312	432.100	1.250
Link313	432.033	1.500
Link68	432.330	1.500
Link314	432.120	1.500
Link316	431.778	1.500
Link73	431.513	1.500
Link161	429.920	1.500
Link162	428.950	1.500
1383.1	430.240	1.410
1383.2	430.240	1.000
Link135	428.090	1.500
Link136	427.330	1.500
Link137	426.900	3.750
Link138	425.400	3.750
Link139	425.000	2.000
dummy26	0.050	0.050
Link152	426.960	1.000
Link155	427.160	0.833
Link243	424.730	1.000
Pump1	0.050	0.050
Pump2	0.050	0.050
QuailRun	0.050	0.050
Pump2	0.050	0.050
Link452	427.000	0.500
Link244	429.290	1.000
Link245	429.100	1.000

Link Data

Name	Length ft	Roughness	Upstream Node Name	Downstream Node Name	Downstream Invert Elevation
Link255	82.210	0.014	Node249	Node288	425.790
Link378.1	234.740	0.014	N499	Node401	450.330
Link44	410.130	0.014	Node401	Node27	449.130
Link37	51.250	0.014	Node27	Basin68	448.740
Link366	420.270	0.014	Basin68	Basin57	448.700
Link365	1114.840	0.014	Basin57	Basin49	443.720
Link146	39.260	0.014	Basin58	N448	445.640
Link140	154.070	0.014	N448	Node117	445.430
Link141	140.260	0.014	Node117	Node118	444.800
Link147	155.840	0.014	Node118	Node120	444.160
Link148	468.090	0.014	Node120	Basin49	443.620
L92	308.270	0.014	Basin49	N94	442.360
L93	499.810	0.014	N94	N446	439.570
L93.1	424.700	0.014	N446	Basin48	437.310
Link52	278.660	0.014	Node40	Node39	444.530
Link53	358.840	0.014	Node40	Basin50	443.720
Link50	26.480	0.014	Node38	Basin51	444.380
Link51	152.560	0.014	Node38	Node39	444.030
Link337	1782.010	0.014	Node39	Node43	439.720
Link159	1126.890	0.014	Basin50	Node43	439.720
Link56	241.150	0.014	Node43	Node44	439.310
Link57	357.060	0.014	Node44	Node45	438.970
Link58	198.000	0.014	Node45	Basin48	437.560
L27	331.840	0.014	Basin48	Basin47	436.730
Link29	329.940	0.014	Basin47	Basin56	435.100
Link26	271.180	0.014	Basin56	Node20	434.980
Link27	132.900	0.014	Node20	Node261	433.220
Link49	441.290	0.014	Node261	Basin41	431.300
Link14	426.140	0.014	Basin41	Node10	430.390
Link15	103.970	0.014	Node10	Node262	429.020
Link234	415.900	0.014	Node262	Basin33	427.720
Link319	803.140	0.014	Basin42.2	Node225	434.560
Link320	116.840	0.014	Node225	Node226	434.063
Link322	101.450	0.014	Node226	Node227	433.830
Link324	144.240	0.014	Node227	Basin42.1	430.900
Link31	360.890	0.014	Basin42.1	N445	430.190
Link149	160.430	0.014	N445	Node121	426.740
Link296	128.200	0.014	Basin42.3	Node214	431.264
Link297	271.740	0.014	Node214	Node215	430.499
Link302	123.590	0.014	Basin42.4	Node215	430.499
Link299	253.490	0.014	Node215	Basin34	426.740
Link150	70.080	0.014	Basin34	Node121	426.830
Link151	565.650	0.014	Node121	Basin33	427.620
Link256	332.850	0.014	Basin33	Node288	425.790
Link156	532.040	0.014	Node288	Node264	422.850
Link247	25.270	0.014	Node264	N498	422.820
Link352	559.090	0.014	N498	Node248	422.810
Link353	331.840	0.014	Node248	Node250	421.240
Link358	39.470	0.014	Node248	Node245	423.807

Link Data

Name	Upstream Invert Elevation	Diameter (Height) ft
Link255	428.130	1.250
Link378.1	450.820	1.250
Link44	449.830	1.500
Link37	448.780	1.750
Link366	448.590	1.750
Link365	448.800	2.000
Link146	445.830	1.250
Link140	445.590	1.250
Link141	445.430	1.250
Link147	444.600	1.250
Link148	444.160	1.250
L92	443.520	2.000
L93	442.360	2.000
L93.1	439.320	2.000
Link52	444.830	1.000
Link53	444.830	1.000
Link50	444.440	1.000
Link51	444.340	1.000
Link337	444.030	0.833
Link159	443.320	1.500
Link56	439.720	1.500
Link57	439.210	1.500
Link58	438.870	1.500
L27	437.310	2.500
Link29	436.530	2.500
Link26	435.100	2.500
Link27	433.630	4.000
Link49	433.120	4.000
Link14	431.200	4.000
Link15	430.290	4.000
Link234	428.920	4.000
Link319	436.000	1.000
Link320	434.560	1.250
Link322	434.063	1.250
Link324	433.830	1.250
Link31	430.900	1.500
Link149	430.190	1.500
Link296	431.650	0.833
Link297	431.264	0.833
Link302	430.870	0.833
Link299	430.499	1.000
Link150	426.740	2.000
Link151	426.830	2.000
Link256	427.620	4.000
Link156	425.790	4.000
Link247	422.800	3.000
Link352	422.820	3.000
Link353	422.810	3.000
Link358	423.810	1.000

Link Data

Name	Length ft	Roughness	Upstream Node Name	Downstream Node Name	Downstream Invert Elevation
Link354	42.720	0.014	Node250	Node251	421.490
Link356	293.450	0.014	Node251	Node252	421.200
Link357	447.870	0.014	Node252	Basin29	419.540
Link228	123.530	0.014	Node418	Node197	425.800
Link224	36.800	0.014	Node197	Node420	425.310
Link185	588.120	0.014	Node420	Basin31A	424.120
Link229	918.570	0.014	Node420	Node155	423.790
Link186	704.210	0.014	Basin31A	Node155	423.000
Link187	205.860	0.014	Node155	Node156	423.160
Link230	102.960	0.014	Node156	Node199	422.530
Link178	583.720	0.014	Basin72	Node142	444.000
Link80	625.390	0.014	Basin80	Node63	444.260
Link173	223.000	0.013	Basin77.1	Basin77.2	451.050
Link175	291.540	0.013	Basin77.2	Basin77.3	449.910
Link344	277.760	0.013	Basin77.3	Basin77.4	448.700
Link343	412.280	0.013	Basin77.4	Basin77.5	445.840
Link82	237.560	0.013	Basin77.5	Node65	444.340
Link176	781.200	0.013	Basin81	Node138	446.000
Link85	229.280	0.014	Basin78	Node70	446.150
Link83	206.810	0.014	Basin82	Node67	446.280
Link84	18.370	0.014	Node67	Node68	445.800
Link86	553.730	0.014	Basin79	Node72	445.980
Link333	208.940	0.014	Basin86	Node235	463.166
Link336	1017.160	0.014	Node235	Node234	454.710
Link172	15.750	0.014	Node234	Basin88	454.910
Link166	118.240	0.014	Basin85	Basin94	461.510
Link167	60.110	0.014	Basin92	Basin94	461.510
Link350	52.180	0.014	Basin87.1	Basin87	463.070
Link345	9.450	0.014	Basin87	Node241	462.998
Link363	46.660	0.014	Basin87	Node254	464.170
Link349	22.070	0.014	Node243	Node241	466.910
Link346	169.740	0.014	Node241	Node242	461.700
Link351	114.470	0.014	Basin93	Node242	462.600
Link347	10.530	0.014	Node242	Basin94	461.710
Link92	388.750	0.014	Basin94	Basin95	459.130
Link325	568.240	0.014	Basin95	N123	451.560
dummy3	990.120	0.014	Basin95	Basin88	0.000
Link208	147.780	0.014	Basin97B	Node181	474.140
dummy5	931.280	0.014	Basin97B	Basin97A	0.000
Link213	218.880	0.014	Basin104	Node181	474.390
Link217	255.830	0.014	Basin102	Node181	474.190
Link209	682.490	0.014	Node181	Node182	473.000
Link231	726.470	0.014	Node182	Node184	471.000
Link212	142.610	0.014	Node184	Node185	469.000
Link94	803.270	0.014	Basin97A	N225	468.290
dummy4	955.580	0.014	Basin97A	Basin103	0.000
Link99	205.600	0.014	Basin103	Basin105	461.780
Link232	780.760	0.014	Basin105	N144	461.220
Link95	310.580	0.014	N225	Node78	466.800

Link Data

Name	Upstream Invert Elevation	Diameter (Height) ft
Link354	421.240	3.000
Link356	421.490	3.000
Link357	421.200	3.000
Link228	426.250	2.500
Link224	425.350	0.833
Link185	425.180	2.000
Link229	425.180	2.000
Link186	424.120	2.500
Link187	423.160	1.500
Link230	422.830	2.500
Link178	446.080	0.833
Link80	445.540	0.667
Link173	451.890	1.000
Link175	450.900	1.000
Link344	449.710	1.000
Link343	448.250	1.000
Link82	445.640	1.000
Link176	448.000	0.667
Link85	447.240	1.000
Link83	446.840	1.000
Link84	446.180	1.000
Link86	448.250	0.667
Link333	466.760	0.833
Link336	463.000	1.000
Link172	454.710	1.500
Link166	463.000	2.000
Link167	463.000	2.000
Link350	463.720	0.833
Link345	463.070	1.000
Link363	464.500	1.000
Link349	462.600	0.160
Link346	462.998	1.000
Link351	463.720	1.000
Link347	461.550	1.250
Link92	461.510	1.000
Link325	458.930	1.250
dummy3	0.050	0.050
Link208	475.000	1.500
dummy5	0.050	0.050
Link213	479.660	1.000
Link217	547.000	1.500
Link209	473.670	2.000
Link231	473.000	2.000
Link212	471.000	2.000
Link94	472.190	2.000
dummy4	0.050	0.050
Link99	461.730	3.000
Link232	461.730	3.000
Link95	468.190	2.000

Link Data

Name	Length ft	Roughness	Upstream Node Name	Downstream Node Name	Downstream Invert Elevation
Link164	554.700	0.014	Basin91	Node78	467.950
Link98	141.630	0.014	Node78	Basin99	465.850
Link143	437.410	0.014	Basin99	Node435	463.090
Link409	370.700	0.014	Node435	Basin101	460.340
L129	89.770	0.014	Basin101	N134	456.380
Link169	233.680	0.014	N134	Node133	458.000
Link170	226.580	0.014	Node133	N434	458.000
Link171	143.180	0.014	N434	Basin98	455.560
L121	155.620	0.014	Basin98	Basin100	454.020
L122	244.520	0.014	Basin100	Basin96	453.960
L122.1	397.770	0.014	Basin96	N123	451.560
Link323	381.360	0.014	N123	Node350	448.660
Link88	647.070	0.014	Basin88	N111	450.720
Link87	484.110	0.014	N111	N112	449.220
L111	300.630	0.014	N112	N113	447.630
dummy8	295.490	0.014	N113	Node72	0.000
dummy9	235.970	0.014	Node72	Node68	0.000
dummy10	60.550	0.014	Node68	Node70	0.000
dummy11	256.850	0.014	Node70	Node138	0.000
dummy12	266.100	0.014	Node138	Node65	0.000
dummy13	22.770	0.014	Node65	Node63	0.000
dummy14	285.420	0.014	Node63	Node142	0.000
dummy15	40.550	0.014	Node142	Node192	0.000
dummy16	829.710	0.014	Node142	Node190	0.000
Link309	353.960	0.014	Basin60	Node334	447.700
dummy6	647.680	0.014	Basin60	Node31	0.000
Link378	257.650	0.014	Node31	N499	450.970
L180	396.240	0.014	Basin74	N187	474.690
Link113	291.750	0.014	N187	Node92	468.650
Link114	435.950	0.014	Node92	Node93	463.790
Link115	48.240	0.014	Node93	Node385	462.260
Link355	140.840	0.014	Node385	N177	450.000
Link329	556.770	0.014	Basin23.2	Node232	446.060
Link364	203.220	0.014	Basin23.2	N177	450.000
Link330	188.900	0.014	Node232	Node233	445.200
Link332	289.480	0.014	Node233	Node200	445.000
L172	383.620	0.014	Basin23.1	N179	446.580
L173	176.540	0.014	N179	N180	446.080
Link238	133.940	0.014	N180	Node200	445.700
MHrim	10.000	0.014	Node200	Node256	0.000
orf1	10.000	0.014	Node200	Node256	0.000
1703.1	10.000	0.014	Node200	Node99	0.000
w1	10.000	0.014	Node200	Node99	0.000
Link368	83.500	0.014	Node256	Node99	444.000
Link361	346.640	0.014	Basin83	N183	462.680
Link107	388.830	0.014	Basin89	N447.1	477.640
Link106	14.670	0.014	N447.1	Basin90.1	477.320
Link108	262.270	0.014	Basin90.1	Basin90.2	473.000
Link109	29.040	0.014	Basin90.2	Node386	473.130

Link Data

Name	Upstream Invert Elevation	Diameter (Height) ft
Link164	549.000	0.667
Link98	466.650	2.000
Link143	465.700	2.000
Link409	462.890	2.000
L129	456.240	2.000
Link169	456.380	6.000
Link170	458.000	3.000
Link171	458.000	6.000
L121	453.780	1.500
L122	454.020	1.250
L122.1	453.760	1.000
Link323	449.960	2.500
Link88	454.910	1.500
Link87	450.620	1.500
L111	449.120	1.500
dummy8	0.050	0.050
dummy9	0.050	0.050
dummy10	0.050	0.050
dummy11	0.050	0.050
dummy12	0.050	0.050
dummy13	0.050	0.050
dummy14	0.050	0.050
dummy15	0.050	0.050
dummy16	0.050	0.050
Link309	450.160	0.833
dummy6	0.050	0.050
Link378	451.470	1.250
L180	492.000	1.000
Link113	474.690	1.000
Link114	468.550	1.500
Link115	463.690	1.500
Link355	462.650	1.500
Link329	453.690	1.000
Link364	453.690	1.500
Link330	445.960	1.000
Link332	445.200	1.000
L172	448.070	2.000
L173	446.480	2.000
Link238	445.980	2.500
MHrim	0.050	0.050
orf1	0.050	0.050
1703.1	0.050	0.050
w1	0.050	0.050
Link368	445.000	1.500
Link361	467.650	1.000
Link107	480.000	4.000
Link106	477.640	1.000
Link108	477.220	1.250
Link109	472.900	1.500

Link Data

Name	Length ft	Roughness	Upstream Node Name	Downstream Node Name	Downstream Invert Elevation
Link110	308.310	0.014	Node386	Basin84	467.970
Link111	308.360	0.014	Basin84	N183	461.680
Link360	51.750	0.014	N183	Node388	459.260
Link112	33.480	0.014	Node388	Basin24	458.840
Link116	254.100	0.014	Basin24	Node94	458.840
Link117	169.640	0.014	Node94	Node95	458.459
Link118	327.550	0.014	Node95	Node96	458.164
Link192	123.310	0.014	Basin28	Node165	510.000
Link193	197.250	0.014	Node165	Node166	507.600
Link194	414.670	0.014	Node166	Node167	503.860
1458.1	105.060	0.014	Node167	Node168	503.830
ditch	105.060	0.014	Node167	Node168	500.000
Link198	422.440	0.014	Node168	Node171	494.000
Link199	85.520	0.014	Node171	Node172	493.970
Link200	147.240	0.014	Node172	Basin27	491.860
Link201	106.360	0.014	Basin27	Node174	489.810
Link202	61.760	0.014	Node174	Node175	490.990
Link203	56.950	0.014	Node175	Basin26	483.510
Link204	858.170	0.014	Basin26	N477	474.000
Link205	130.850	0.014	N477	Basin25	478.510
Link207	992.390	0.014	Basin25	Node116	464.000
Link123	885.990	0.014	Node116	Node96	458.164
Link240	798.770	0.014	Node96	Node99	443.000
Link246	737.710	0.014	Node99	Basin21	441.000
Link248	466.200	0.014	Basin21	Basin22	440.000
Link249	296.570	0.014	Basin22	N404	439.500
dummy1	484.150	0.014	N404	Basin20	0.000
1544.1	157.920	0.014	N404	Node105	441.300
1544.2	157.920	0.014	N404	Node105	439.630
Link251	380.200	0.014	Basin20	Node206	443.000
Link129	418.280	0.014	Node105	Node205	437.000
Link130	190.460	0.014	Node205	Node107	436.000
Link131	134.180	0.014	Node107	Node108	436.280
Link237	389.930	0.014	N177	Basin23.1	448.070

Link Data

Name	Upstream Invert Elevation	Diameter (Height) ft
Link110	472.980	1.500
Link111	467.870	1.500
Link360	461.580	2.000
Link112	459.260	2.500
Link116	458.840	2.000
Link117	458.726	2.000
Link118	458.459	2.000
Link192	511.000	5.000
Link193	510.000	1.500
Link194	507.590	1.000
1458.1	503.870	0.667
ditch	502.890	3.000
Link198	500.000	5.000
Link199	494.030	2.000
Link200	493.970	5.000
Link201	491.860	2.000
Link202	489.810	5.000
Link203	490.990	3.000
Link204	475.000	10.000
Link205	479.480	3.000
Link207	478.000	3.000
Link123	464.000	3.000
Link240	458.164	3.000
Link246	443.000	4.000
Link248	441.000	4.000
Link249	440.000	4.000
dummy1	0.050	0.050
1544.1	439.450	3.000
1544.2	439.290	4.500
Link251	443.000	3.000
Link129	439.630	5.000
Link130	437.000	8.000
Link131	439.210	10.000
Link237	450.000	1.500

Junction Data

Name	Node Name	Ground Elevation (Spill Crest)	Maximum Crown Elevation	Invert Elevation ft
Basin75	Basin75	460.870	460.870	458.670
Node35	Node35	460.740	460.740	457.740
Basin76.1	Basin76.1	461.420	461.420	456.720
Basin76.2	Basin76.2	461.470	461.470	457.755
Node229	Node229	461.900	461.900	456.810
Node230	Node230	459.910	459.910	456.279
N104	N104	459.580	459.580	455.730
Basin70	Basin70	458.680	458.680	454.780
Node30	Node30	457.490	457.490	453.190
Basin69	Basin69	455.300	455.300	451.600
Basin71	Basin71	456.970	456.970	454.700
Basin73	Basin73	446.000	446.000	443.000
Basin73.1	Basin73.1	443.000	443.000	440.000
Node140	Node140	440.000	440.000	437.000
Basin66	Basin66	445.400	445.400	438.650
Node342	Node342	442.610	442.610	436.310
Basin67	Basin67	442.580	442.580	434.430
Node344	Node344	440.000	440.000	431.960
Basin54	Basin54	441.130	441.130	433.430
Node12	Node12	440.190	440.190	431.290
Node347	Node347	440.000	440.000	429.060
Basin55	Basin55	436.000	436.000	430.000
N444	N444	434.000	434.000	431.000
Basin40	Basin40	439.030	439.030	430.780
N220	N220	436.000	436.000	429.770
Basin32	Basin32	437.000	437.000	434.000
Node150	Node150	433.000	433.000	430.000
Basin31C	Basin31C	430.000	430.000	427.390
Basin31D	Basin31D	432.000	432.000	428.500
Node152	Node152	432.000	432.000	426.180
Basin31B	Basin31B	433.260	433.260	428.160
Basin38A	Basin38A	435.800	435.800	433.480
N103	N103	435.700	435.700	433.460
Node196	Node196	434.000	434.000	432.000
Basin38B	Basin38B	435.000	435.000	432.000
Basin39	Basin39	434.400	434.400	430.500
Basin45	Basin45	437.800	437.800	435.280
Basin46	Basin46	441.000	441.000	434.013
Basin52	Basin52	441.900	441.900	439.600
Basin54.1	Basin54.1	441.700	441.700	437.650
Node48	Node48	440.840	440.840	436.590
Basin62	Basin62	450.900	450.900	443.390
Node334	Node334	453.750	453.750	447.650
N232	N232	452.600	452.600	444.200
Basin59	Basin59	450.680	450.680	447.780
Node61	Node61	451.560	451.560	444.760
Basin61	Basin61	452.110	452.110	443.260
Node331	Node331	451.580	451.580	443.130
Node326	Node326	445.740	445.740	442.240

Junction Data

Name	Node Name	Ground Elevation (Spill Crest)	Maximum Crown Elevation	Invert Elevation ft
Basin63	Basin63	444.300	444.300	440.200
Node323	Node323	443.360	443.360	440.010
Basin64	Basin64	444.000	444.000	441.000
Basin65	Basin65	446.500	446.500	443.000
Node190	Node190	445.000	445.000	442.160
Node188	Node188	443.000	443.000	438.000
Node322	Node322	442.000	442.000	439.140
Node49	Node49	440.000	440.000	434.500
Node146	Node146	438.000	438.000	434.000
Node161	Node161	435.000	435.000	433.600
Node148	Node148	434.000	434.000	430.000
Node212	Node212	434.000	434.000	431.000
Node158	Node158	432.000	432.000	430.000
Basin37	Basin37	434.000	434.000	430.500
Node163	Node163	432.000	432.000	430.000
Basin43.2	Basin43.2	439.000	439.000	435.770
Basin43.2.1	Basin43.2.1	438.500	438.320	434.120
Node219	Node219	438.000	438.000	432.470
Node220	Node220	436.000	436.000	432.241
Node221	Node221	435.500	435.500	432.100
Node222	Node222	435.500	435.500	432.033
Basin43.1	Basin43.1	434.830	434.830	432.330
Node54	Node54	434.870	434.870	432.120
Node223	Node223	436.400	436.400	431.778
Node57	Node57	435.260	435.260	431.513
Basin44	Basin44	434.970	434.970	429.920
Node127	Node127	433.700	433.700	428.950
Basin36.1	Basin36.1	432.740	432.740	430.240
Basin35	Basin35	430.740	430.740	428.090
Basin36.2	Basin36.2	430.740	430.740	427.330
Basin30	Basin30	431.000	431.000	426.900
Node114	Node114	429.150	429.150	425.400
Node115	Node115	429.000	429.000	425.000
Node59	Node59	428.000	428.000	424.500
N423	N423	430.260	430.260	426.960
Node272	Node272	429.330	429.330	424.680
Basin13	Basin13	430.000	430.000	423.700
Node271	Node271	430.490	430.490	425.000
Node125	Node125	430.260	430.260	425.000
Basin14	Basin14	431.790	431.790	429.290
Node274	Node274	431.800	431.800	429.050
Node249	Node249	431.880	431.880	428.130
N499	N499	455.820	455.820	450.820
Node401	Node401	455.230	455.230	449.830
Node27	Node27	455.330	455.330	448.780
Basin68	Basin68	455.590	455.590	448.590
Basin57	Basin57	454.680	454.680	448.700
Basin58	Basin58	448.030	448.030	445.830
N448	N448	448.290	448.290	445.590

Junction Data

Name	Node Name	Ground Elevation (Spill Crest)	Maximum Crown Elevation	Invert Elevation ft
Node117	Node117	446.980	446.980	445.430
Node118	Node118	447.000	447.000	444.600
Node120	Node120	448.110	448.110	443.660
Basin49	Basin49	449.020	449.020	443.520
N94	N94	447.060	447.060	442.360
N446	N446	443.370	443.370	439.320
Node40	Node40	446.580	446.580	444.830
Node38	Node38	448.340	448.340	444.340
Basin51	Basin51	447.830	447.830	444.280
Node39	Node39	447.380	447.380	444.030
Basin50	Basin50	446.620	446.620	443.320
Node43	Node43	443.220	443.220	439.720
Node44	Node44	442.460	442.460	439.210
Node45	Node45	442.920	442.920	438.870
Basin48	Basin48	441.210	441.210	437.310
Basin47	Basin47	440.830	440.830	436.530
Basin56	Basin56	441.450	441.450	435.100
Node20	Node20	439.980	439.980	433.630
Node261	Node261	438.820	438.820	433.120
Basin41	Basin41	436.850	436.850	431.200
Node10	Node10	435.740	435.740	430.290
Node262	Node262	434.670	434.670	428.920
Basin42.2	Basin42.2	439.000	439.000	436.000
Node225	Node225	436.000	436.000	434.560
Node226	Node226	438.000	438.000	434.063
Node227	Node227	438.000	438.000	433.830
Basin42.1	Basin42.1	436.100	436.100	430.900
N445	N445	433.790	433.790	430.190
Basin42.3	Basin42.3	435.000	435.000	431.650
Node214	Node214	434.000	434.000	431.264
Basin42.4	Basin42.4	435.000	435.000	430.870
Node215	Node215	434.000	434.000	430.499
Basin34	Basin34	433.500	433.500	426.740
Node121	Node121	433.000	433.000	426.740
Basin33	Basin33	433.270	433.270	427.620
Node288	Node288	431.000	431.000	425.790
Node264	Node264	429.200	429.200	422.800
N498	N498	428.000	428.000	422.820
Node248	Node248	425.810	425.810	422.810
Node245	Node245	425.000	425.000	423.807
Node250	Node250	424.490	424.490	421.240
Node251	Node251	424.490	424.490	421.490
Node252	Node252	425.000	425.000	421.200
Basin29	Basin29	426.000	426.000	419.540
Node418	Node418	431.100	431.100	426.250
Node197	Node197	431.000	431.000	425.350
Node420	Node420	430.000	430.000	425.180
Basin31A	Basin31A	428.900	428.900	424.120
Node155	Node155	428.100	428.100	423.000

Junction Data

Name	Node Name	Ground Elevation (Spill Crest)	Maximum Crown Elevation	Invert Elevation ft
Node156	Node156	428.600	428.600	422.830
Node199	Node199	428.730	428.730	422.380
Basin72	Basin72	448.000	448.000	446.080
Basin80	Basin80	448.890	448.890	445.540
Basin77.1	Basin77.1	458.340	458.340	451.890
Basin77.2	Basin77.2	460.150	460.150	450.900
Basin77.3	Basin77.3	458.210	458.210	449.710
Basin77.4	Basin77.4	456.150	456.150	448.250
Basin77.5	Basin77.5	450.240	450.240	445.640
Basin81	Basin81	451.000	451.000	448.000
Basin78	Basin78	450.240	450.240	447.240
Basin82	Basin82	451.090	451.090	446.840
Node67	Node67	449.880	449.880	446.180
Basin79	Basin79	452.250	452.250	448.250
Basin86	Basin86	468.000	468.000	466.760
Node235	Node235	464.000	464.000	463.000
Node234	Node234	460.560	460.560	454.710
Basin85	Basin85	470.000	470.000	463.000
Basin92	Basin92	470.000	470.000	463.000
Basin87.1	Basin87.1	466.000	466.000	463.720
Basin87	Basin87	467.070	467.070	463.070
Node254	Node254	466.170	465.170	464.170
Node243	Node243	462.760	462.760	462.600
Node241	Node241	467.070	467.070	462.998
Basin93	Basin93	465.720	465.720	463.720
Node242	Node242	467.300	467.300	461.550
Basin94	Basin94	467.230	467.230	461.510
Basin95	Basin95	467.230	467.230	458.930
Basin97B	Basin97B	481.000	481.000	475.000
Basin104	Basin104	484.120	484.120	479.660
Basin102	Basin102	560.540	560.540	547.000
Node181	Node181	482.440	482.440	473.670
Node182	Node182	476.000	476.000	473.000
Node184	Node184	474.000	474.000	471.000
Node185	Node185	473.000	473.000	469.000
Basin97A	Basin97A	478.590	478.590	472.190
Basin103	Basin103	466.480	466.480	461.730
Basin105	Basin105	466.000	466.000	461.730
N144	N144	466.000	466.000	461.220
N225	N225	475.890	475.890	468.190
Basin91	Basin91	550.000	550.000	549.000
Node78	Node78	474.250	474.250	466.650
Basin99	Basin99	473.750	473.750	465.700
Node435	Node435	472.740	472.740	462.890
Basin101	Basin101	465.690	465.690	456.240
N134	N134	465.690	465.690	456.380
Node133	Node133	464.000	464.000	458.000
N434	N434	464.000	464.000	458.000
Basin98	Basin98	462.600	462.600	453.780

Junction Data

Name	Node Name	Ground Elevation (Spill Crest)	Maximum Crown Elevation	Invert Elevation ft
Basin100	Basin100	458.670	458.670	454.020
Basin96	Basin96	458.310	458.310	453.760
N123	N123	457.360	457.360	449.960
Node350	Node350	457.290	457.290	448.660
Basin88	Basin88	461.160	461.160	454.910
N111	N111	454.470	454.470	450.620
N112	N112	453.820	453.820	449.120
N113	N113	450.000	450.000	447.630
Node72	Node72	450.000	450.000	445.980
Node68	Node68	450.000	450.000	445.800
Node70	Node70	450.000	450.000	446.150
Node138	Node138	449.000	449.000	446.000
Node65	Node65	448.000	448.000	444.340
Node63	Node63	446.000	446.000	444.260
Node142	Node142	447.500	447.500	444.000
Node192	Node192	448.500	448.500	441.750
Basin60	Basin60	455.810	455.810	450.160
Node31	Node31	455.270	455.270	451.470
Basin74	Basin74	494.800	494.800	492.000
N187	N187	477.440	477.440	474.690
Node92	Node92	471.500	471.500	468.550
Node93	Node93	468.040	468.040	463.690
Node385	Node385	468.010	468.010	462.180
Basin23.2	Basin23.2	462.230	462.230	453.690
Node232	Node232	450.610	450.610	445.960
Node233	Node233	448.500	448.500	445.200
Basin23.1	Basin23.1	454.570	454.570	448.070
N179	N179	451.730	451.730	446.480
N180	N180	449.770	449.770	445.980
Node200	Node200	449.000	449.000	445.000
Node256	Node256	449.000	446.500	445.000
Basin83	Basin83	469.400	469.400	467.650
Basin89	Basin89	484.000	484.000	480.000
N447.1	N447.1	481.640	481.640	477.640
Basin90.1	Basin90.1	479.270	479.270	477.220
Basin90.2	Basin90.2	476.200	476.200	472.900
Node386	Node386	476.130	476.130	472.980
Basin84	Basin84	470.920	470.920	467.870
N183	N183	466.180	466.180	461.580
Node388	Node388	464.560	464.560	459.260
Basin24	Basin24	463.050	463.050	458.840
Node94	Node94	463.020	463.020	458.726
Node95	Node95	462.000	462.000	458.459
Basin28	Basin28	517.000	517.000	511.000
Node165	Node165	515.000	515.000	510.000
Node166	Node166	510.000	510.000	505.630
Node167	Node167	508.000	508.000	502.890
Node168	Node168	505.000	505.000	500.000
Node171	Node171	499.000	499.000	494.000

Junction Data

Name	Node Name	Ground Elevation (Spill Crest)	Maximum Crown Elevation	Invert Elevation ft
Node172	Node172	499.000	499.000	493.970
Basin27	Basin27	497.000	497.000	491.860
Node174	Node174	498.000	498.000	489.810
Node175	Node175	496.000	496.000	490.990
Basin26	Basin26	490.000	490.000	475.000
N477	N477	485.760	485.760	474.000
Basin25	Basin25	482.590	482.590	478.000
Node116	Node116	468.000	468.000	464.000
Node96	Node96	463.000	463.000	458.164
Node99	Node99	449.000	449.000	443.000
Basin21	Basin21	447.000	447.000	441.000
Basin22	Basin22	446.000	446.000	440.000
N404	N404	445.000	445.000	439.290
Basin20	Basin20	446.000	446.000	443.000
Node206	Node206	446.000	446.000	443.000
Node105	Node105	445.000	445.000	439.630
Node205	Node205	445.000	445.000	437.000
Node107	Node107	450.000	450.000	436.000
Node108	Node108	447.000	447.000	435.000
N177	N177	459.230	459.230	450.000

Appendix C.2

Model Calibration



Stayton, Oregon

LEGEND

- Catch Basins
- Storm Drain Pipes
- Storm Drain Mainline
- Storm Drain Basin
- Outfall
- Detention/Retention Basin
- Open Channel
- Bioretention Swales

prepared by Jek
10-19-05

STORM WATER
MONITORING LOCATIONS

TEST SEQUENCE*

ID	SIZE	DESCRIPTION
1	24"	PLACE IN N. END OF VAULT (CB)
2	30"	PLACE IN OUTFALL
3	19"	PLACE IN MANHOLE
4	12"	PLACE IN CB
5	16"	PLACE IN SIDE OF MANHOLE
6	18"	PLACE IN CB (LIMITED BY BLANKET/BAND)
7	48"	AT OUTFALL OR MANHOLE
8	24"	DOWNSTREAM SIDE OF MH
9	19"	PLACE IN DOWNSTREAM SIDE OF CB
10	24"	PLACE IN MANHOLE

* ORDER OF TESTS (TWO FEET METERS)

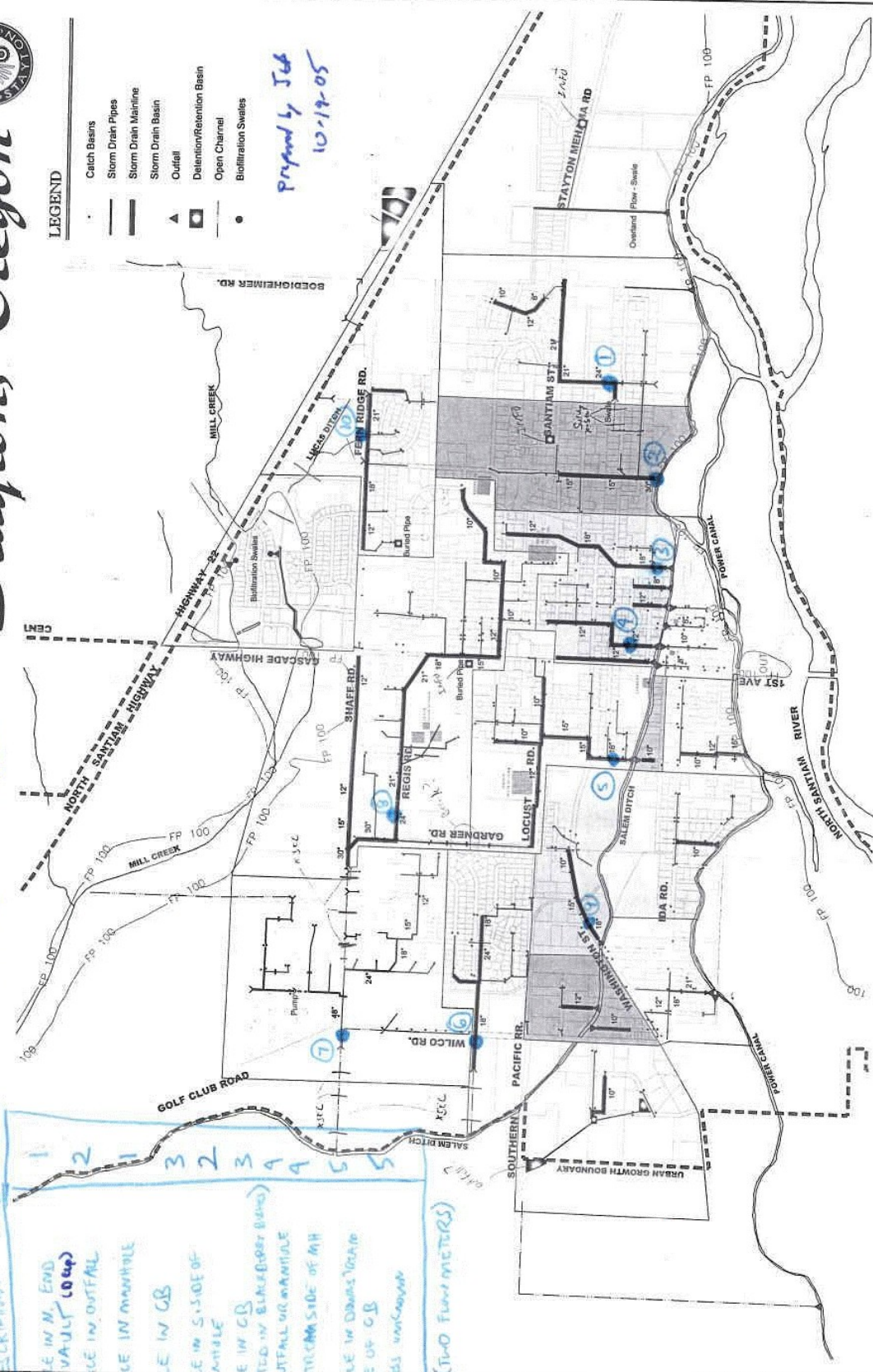
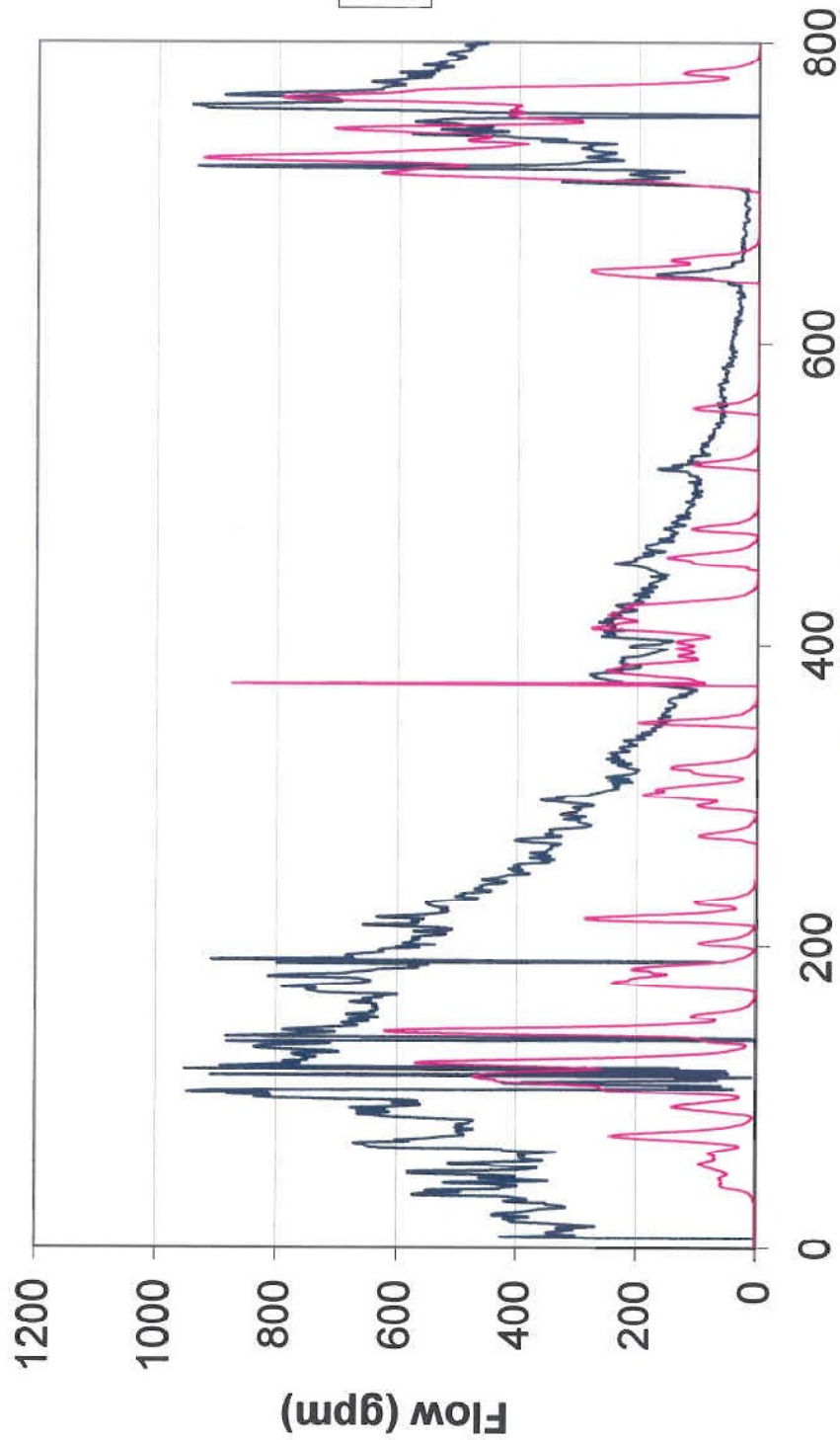


Figure 1 - Existing Storm Drain System



Site 1 Modeled/Observed Flow (gpm)

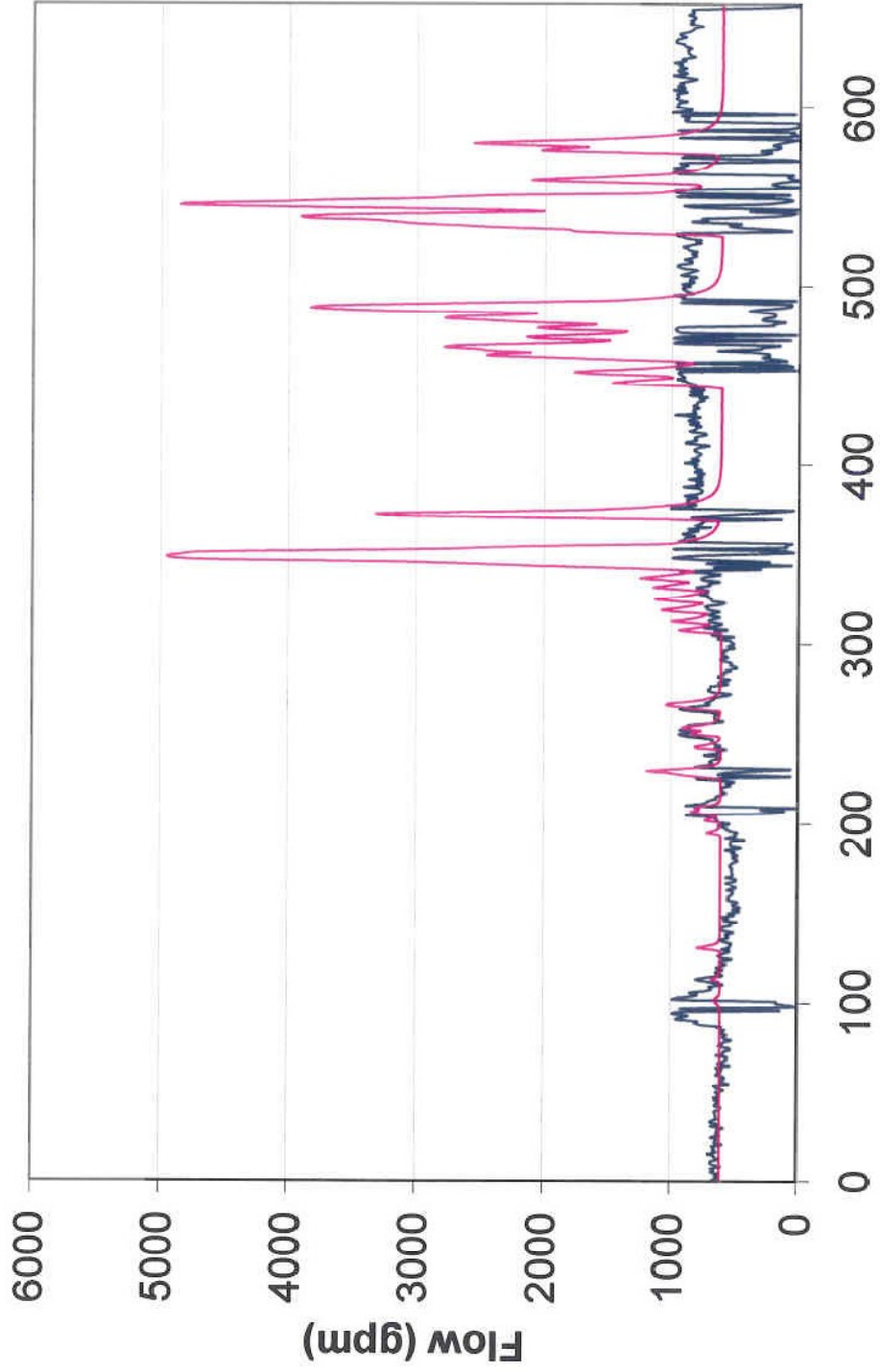
Jan 9-24, 2006



Data Point:
15 minute time increment

Site 2 Modeled/Observed Flow (gpm)

Jan 24-31, 2006



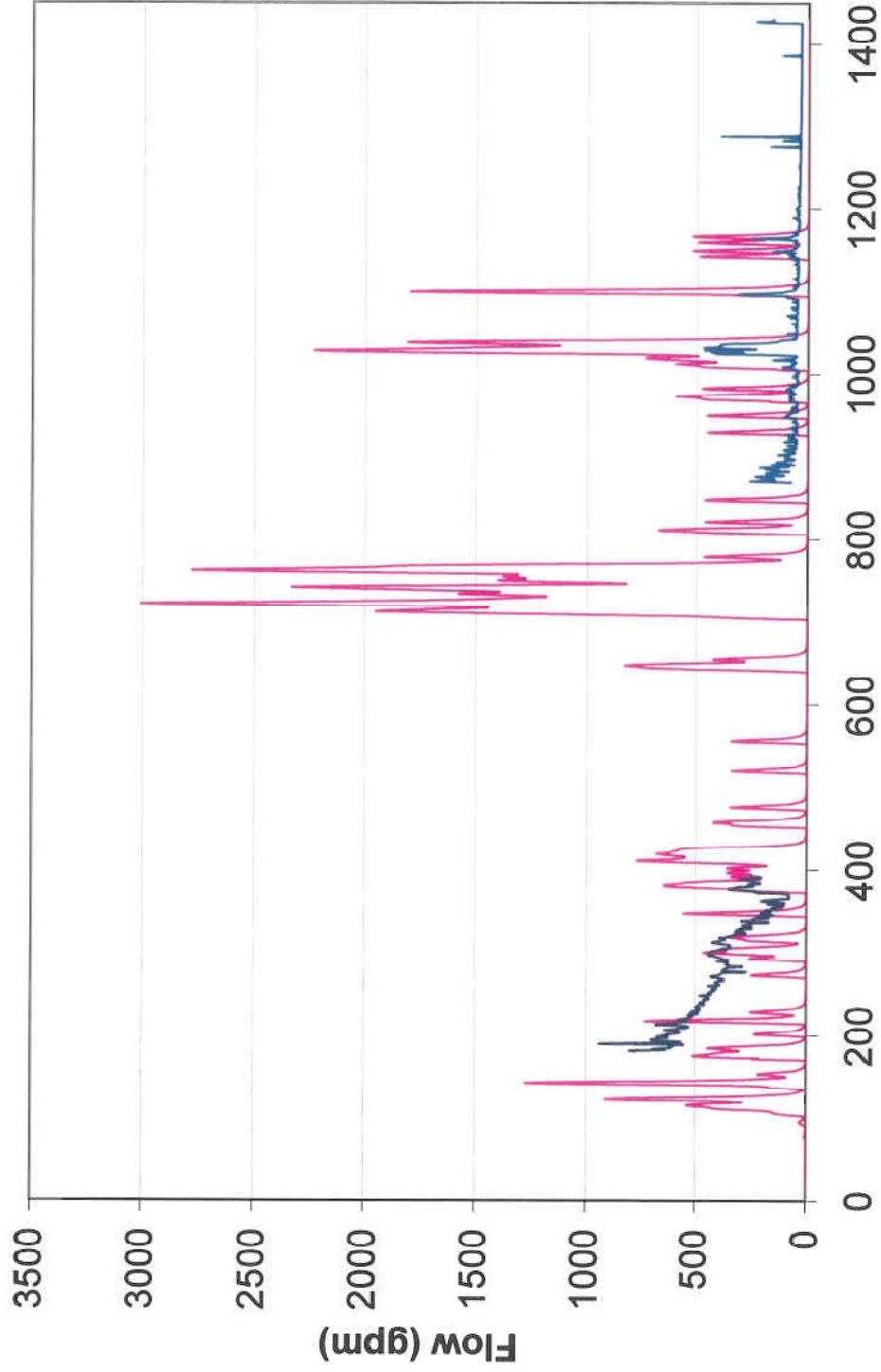
Data Point:

15 minute time increment

— Observed Flow
— Modeled Flow

Site 3 Modeled/Observed Flow (gpm)

Jan 9-24, 2006

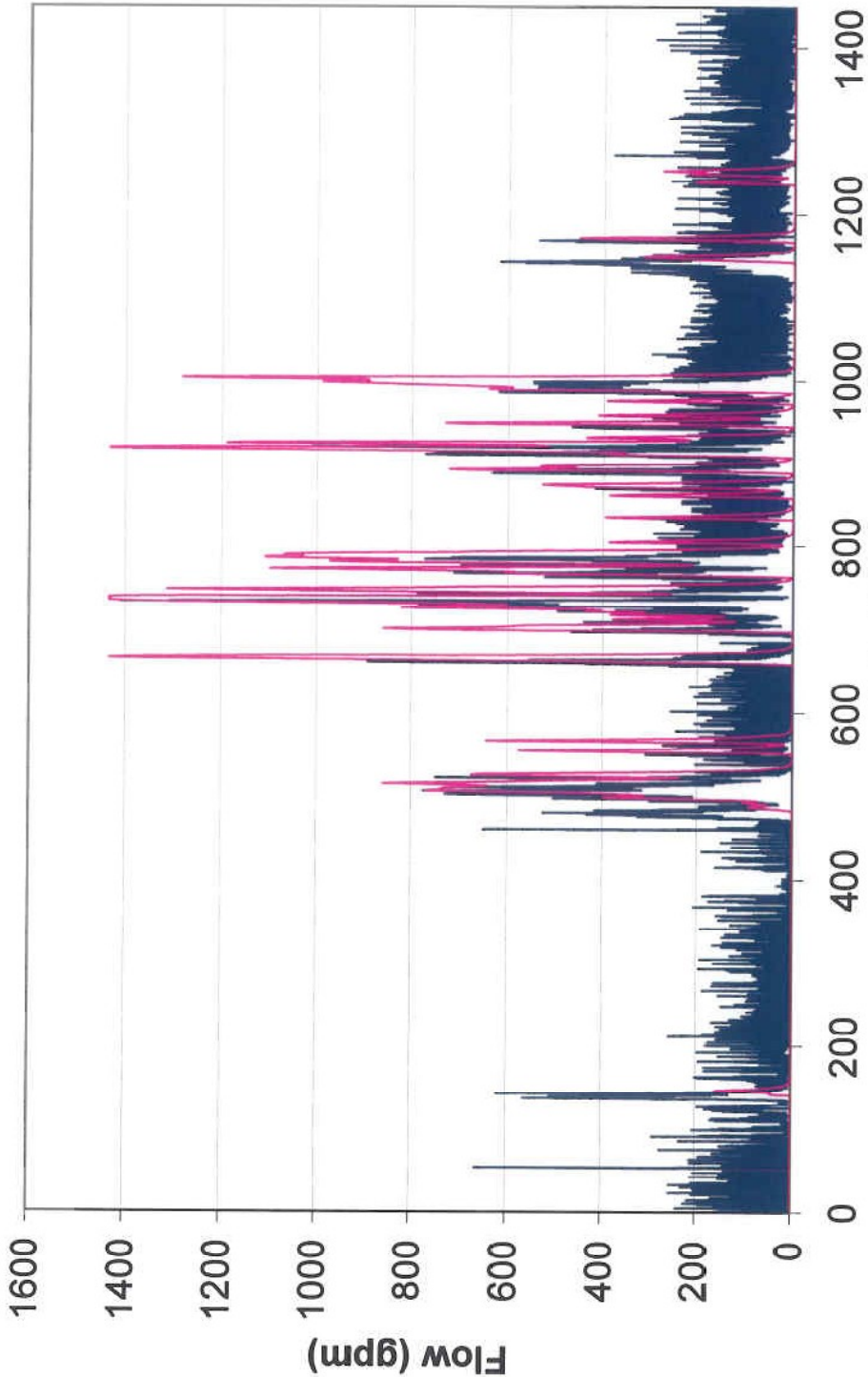


Data Point:

15 minute time increment

Site 4 Modeled/Observed Flow (gpm)

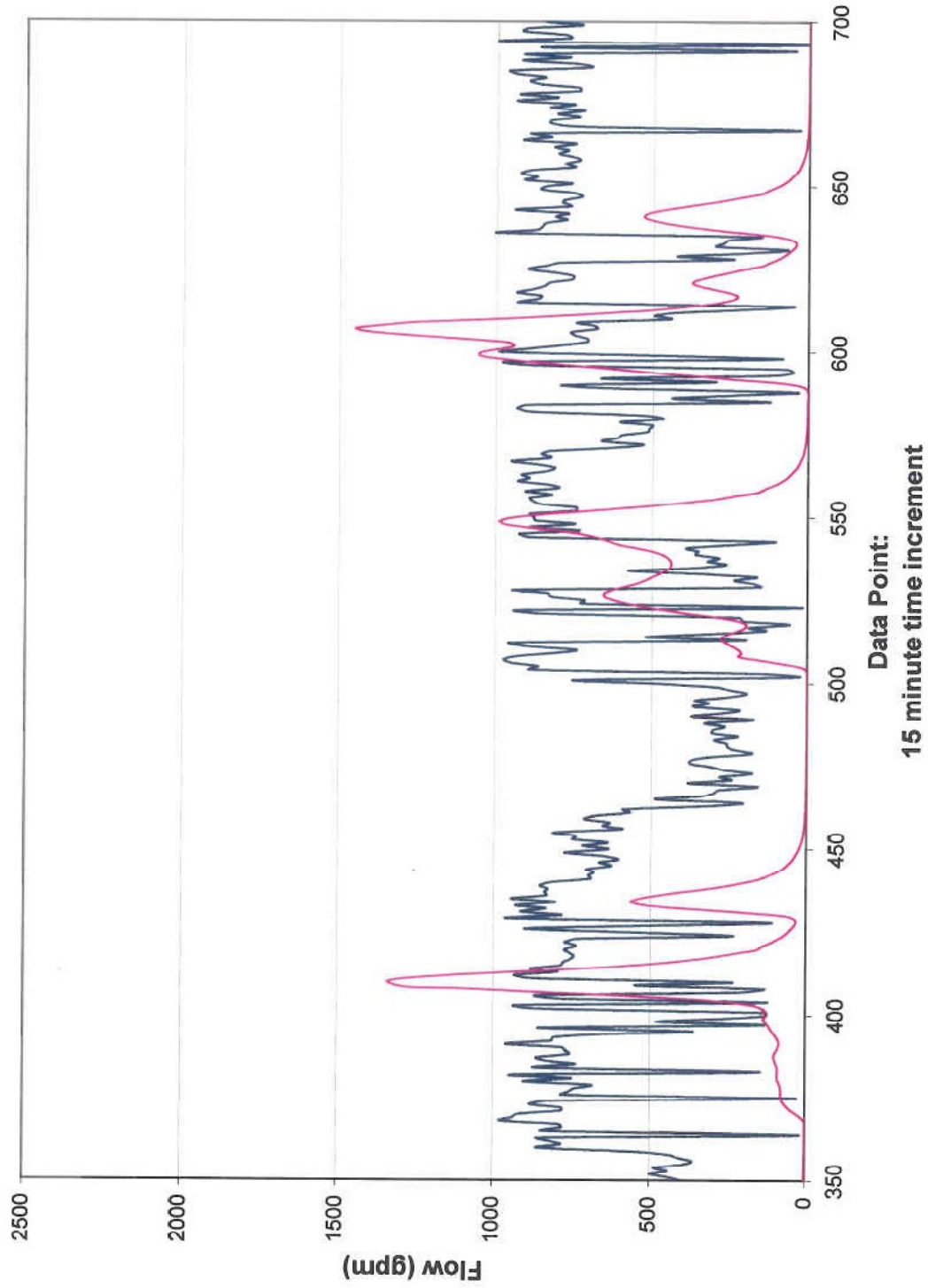
Nov 14-30, 2006



15 minute time increment

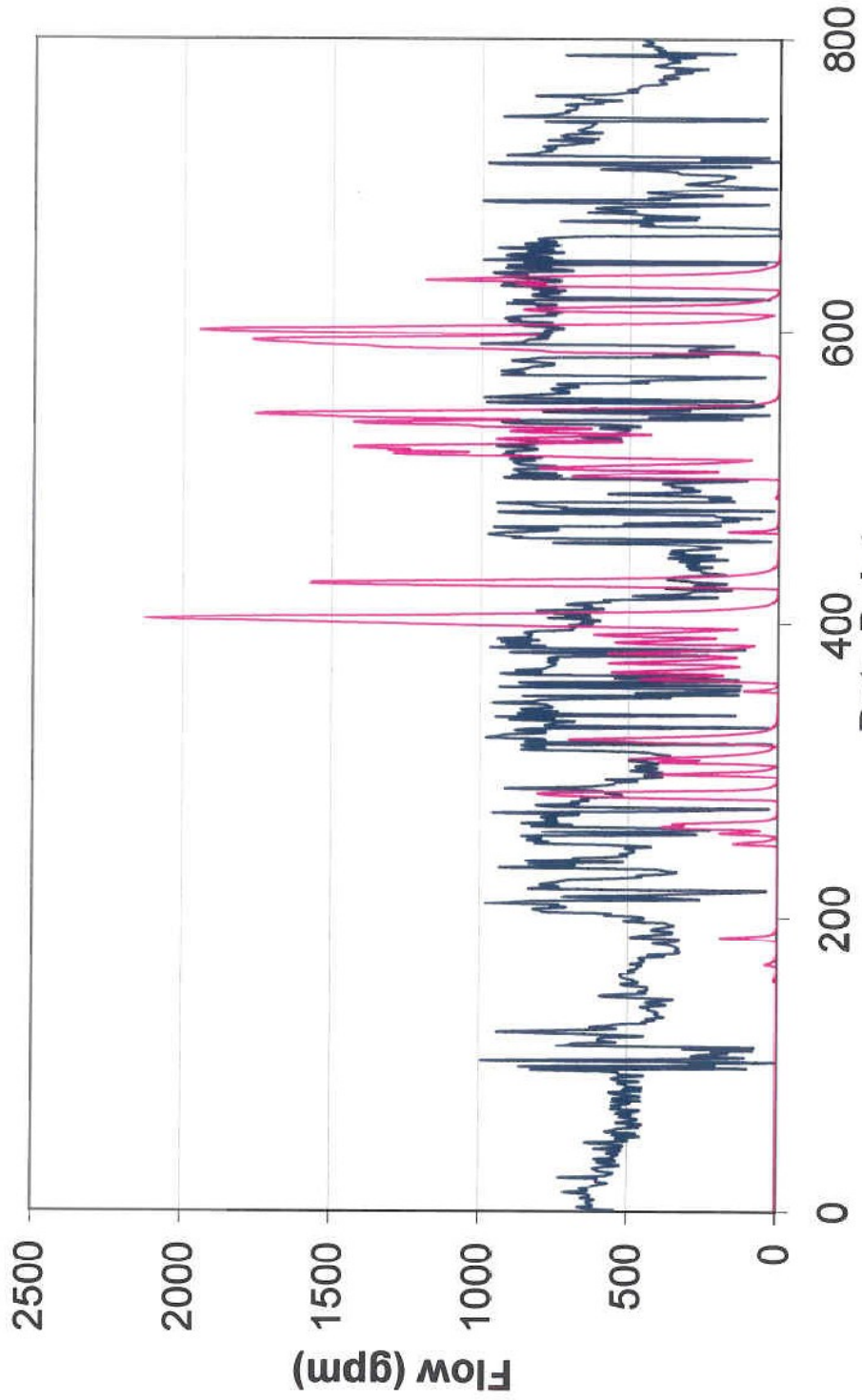
Site 5 Modeled/Observed Flow (gpm)

Jan 24-31, 2006



Site 6 Modeled/Observed Flow (gpm)

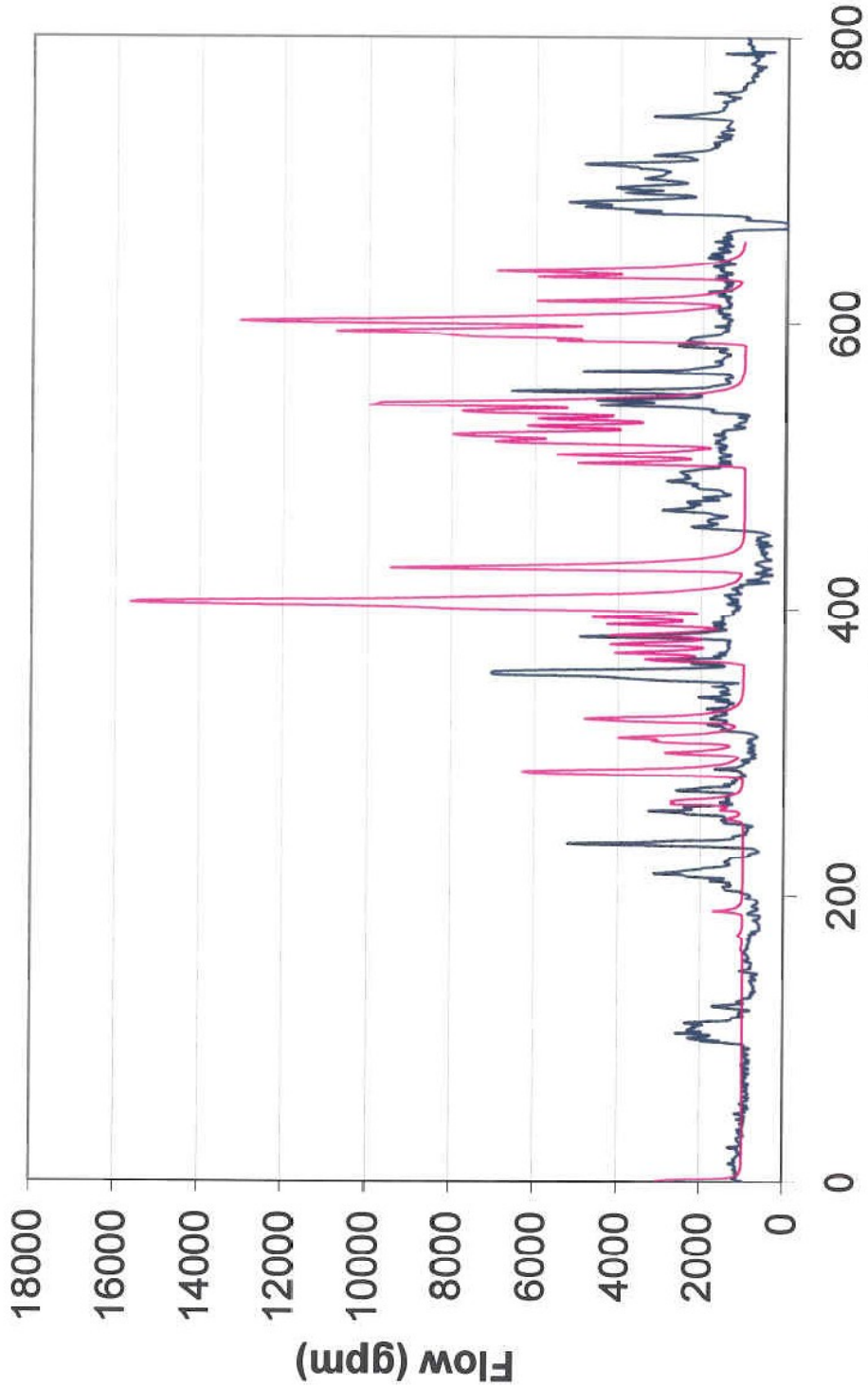
Jan 24-Feb 9, 2006



Data Point:
15 minute time increment

Site 7 Modeled/Observed Flow (gpm)

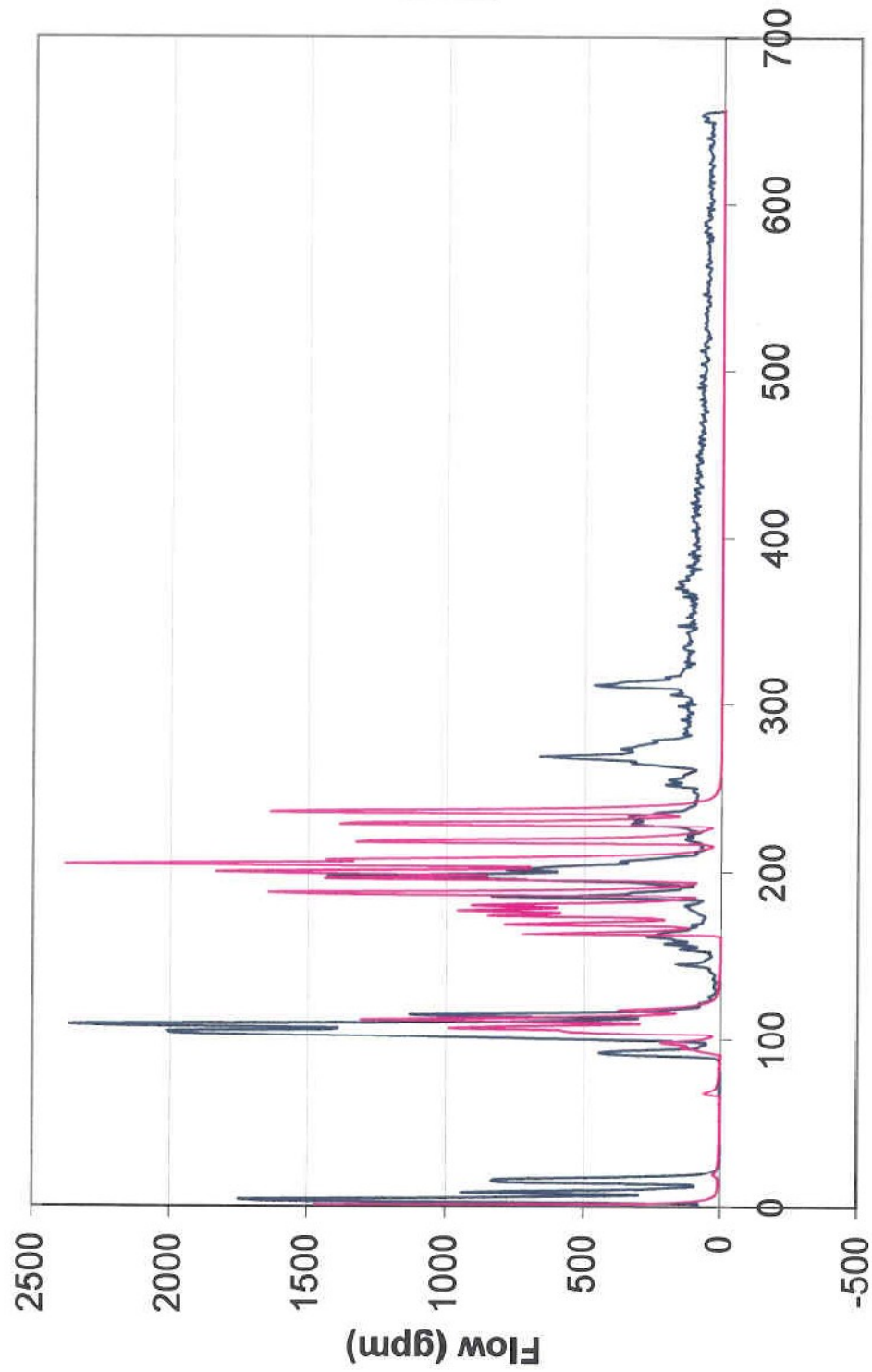
March 7-March 14, 2006



Data Point:
15 minute time increment

Site 8 Modeled/Observed Flow (gpm)

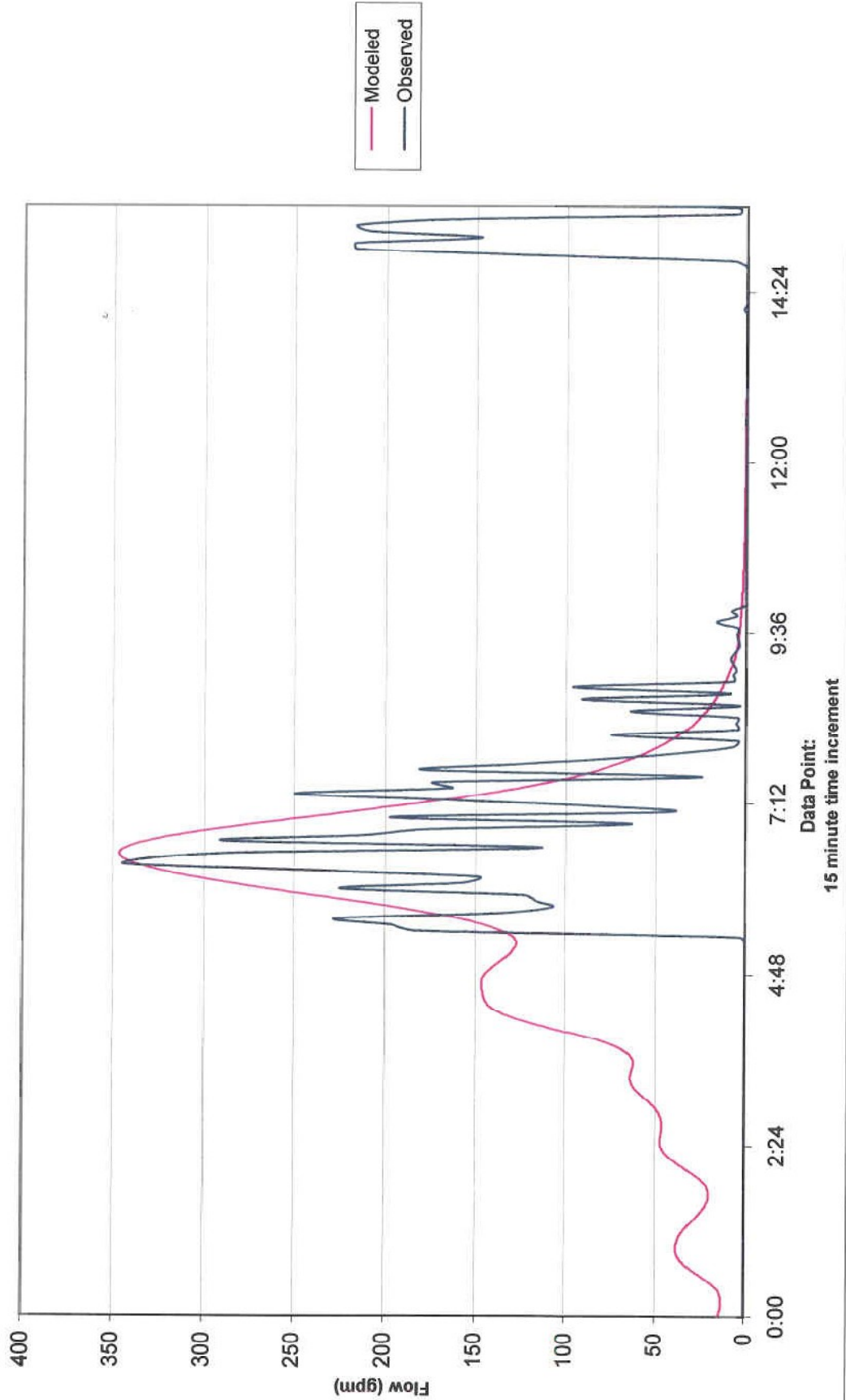
March 7-March 14, 2006



Data Point:
15 minute time increment

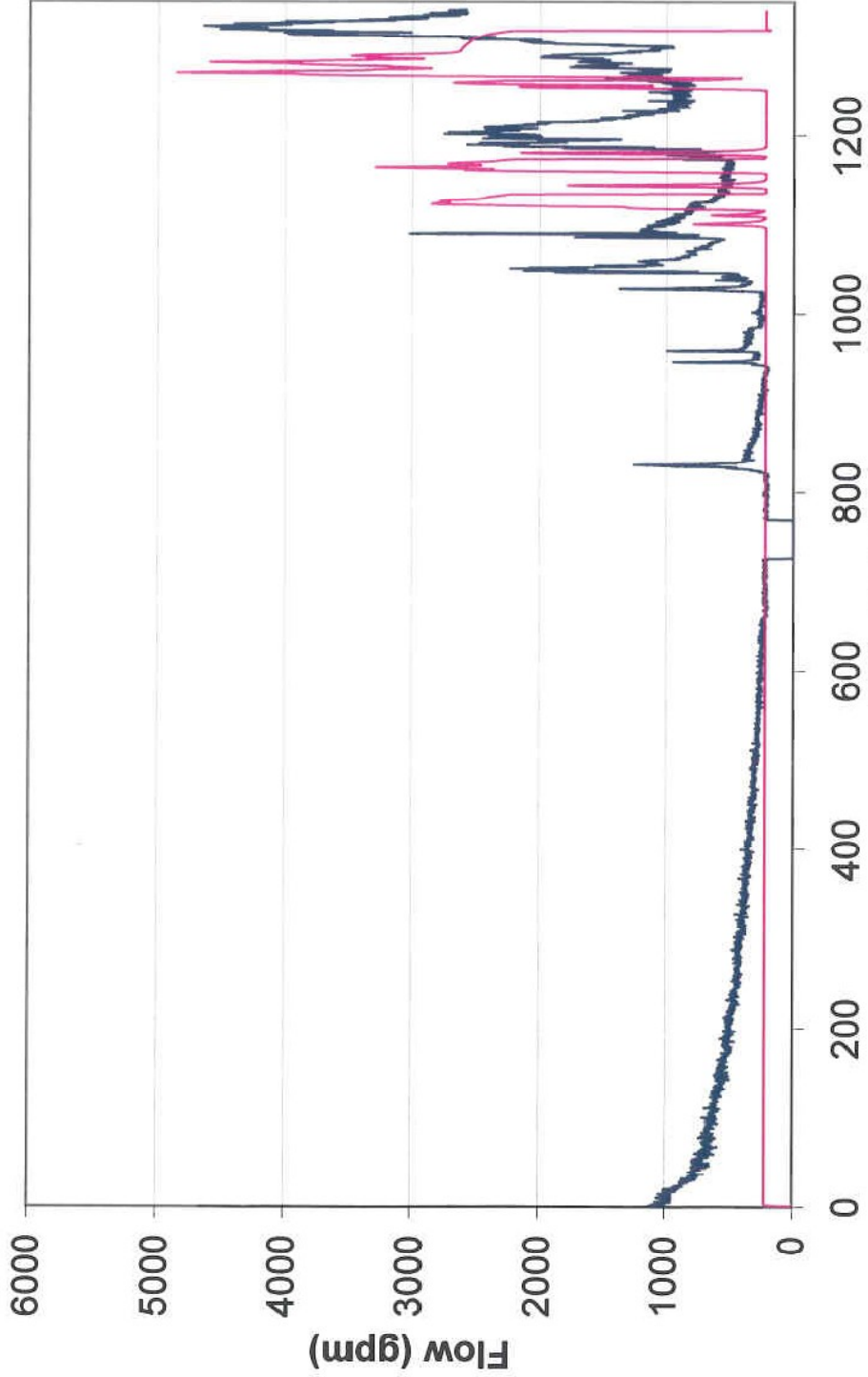
Site 9 Modeled/Observed Flow (gpm)

Jan 9-24, 2006



Site 10 Modeled/Observed Flow (gpm)

Nov 30- Dec 14, 2006



Data Point:

15 minute time increment

Observed Flow1
Modeled Flow

Appendix C.3

Model Results

Subcatchment Results

2-year Storm Event: 2.5 inches

Name	Total Rainfall in	Total Runoff Depth in	Total Infiltration in	Max Infil. Rate in/hr	Max Flow cfs
Basin75	2.500	0.785	1.715	0.482	3.281
Node35	2.500	1.187	1.313	0.357	0.817
Basin76.1	2.500	1.187	1.313	0.357	0.817
Basin76.2	2.500	1.187	1.313	0.357	3.318
Basin70	2.500	1.182	1.318	0.357	3.182
Basin69	2.500	1.688	0.812	0.186	14.411
Basin71	2.500	1.598	0.902	0.213	3.043
Basin73	2.500	1.701	0.799	0.186	1.040
Basin73.1	2.500	1.701	0.799	0.186	1.040
Basin66	2.500	0.535	1.965	0.566	0.796
Basin67	2.500	0.528	1.972	0.566	0.809
Basin54	2.500	0.652	1.848	0.526	0.628
Node12	2.500	0.652	1.848	0.526	0.628
Basin55	2.500	0.531	1.969	0.566	0.118
Basin40	2.500	0.609	1.891	0.540	2.036
Basin32	2.500	1.713	0.787	0.186	2.164
Basin31C	2.500	1.467	1.033	0.265	2.108
Basin31D	2.500	1.003	1.497	0.415	2.204
Basin31B	2.500	1.513	0.987	0.265	5.197
Basin38A	2.500	1.744	0.756	0.186	1.272
N103	2.500	1.719	0.781	0.186	0.653
Basin38B	2.500	1.719	0.781	0.186	0.653
Basin39	2.500	1.762	0.738	0.186	1.340
Basin45	2.500	1.318	1.182	0.313	0.907
Basin46	2.500	0.525	1.975	0.566	0.387
Basin52	2.500	1.322	1.178	0.313	2.644
Basin54.1	2.500	1.322	1.178	0.313	1.321
Basin62	2.500	0.570	1.930	0.553	0.361
Basin59	2.500	0.575	1.925	0.553	0.745
Basin61	2.500	0.570	1.930	0.553	0.283
Basin63	2.500	0.197	2.303	0.602	0.369
Basin64	2.500	0.570	1.930	0.553	0.353
Basin65	2.500	0.743	1.757	0.497	0.339
Basin37	2.500	1.703	0.797	0.186	3.278
Basin43.2	2.500	1.314	1.186	0.313	7.802
Basin43.1	2.500	1.314	1.186	0.313	1.949
Basin44	2.500	0.652	1.848	0.526	0.766
Basin36.1	2.500	1.541	0.959	0.240	3.174
Basin35	2.500	1.541	0.959	0.240	1.315
Basin36.2	2.500	1.541	0.959	0.240	3.174
Basin30	2.500	1.774	0.726	0.158	5.105
Basin13	2.500	0.946	1.554	0.433	3.455
Basin14	2.500	1.002	1.498	0.415	3.588
Basin68	2.500	1.001	1.499	0.415	7.129
Basin57	2.500	0.699	1.801	0.512	1.468
Basin58	2.500	0.947	1.553	0.433	2.942
Basin49	2.500	1.249	1.251	0.335	3.027
Basin51	2.500	1.535	0.965	0.240	5.885
Basin50	2.500	0.791	1.709	0.482	2.715

Subcatchment Results

Name	Total Rainfall in	Total Runoff Depth in	Total Infiltration in	Max Infil. Rate in/hr	Max Flow cfs
Basin48	2.500	0.520	1.980	0.566	0.467
Basin47	2.500	1.184	1.316	0.357	3.466
Basin56	2.500	0.655	1.845	0.526	0.619
Basin41	2.500	1.003	1.497	0.415	1.459
Basin42.2	2.500	1.320	1.180	0.313	3.648
Basin42.1	2.500	0.653	1.847	0.526	2.196
Basin42.3	2.500	1.978	0.522	0.101	2.616
Basin42.4	2.500	1.542	0.958	0.240	0.693
Basin34	2.500	1.774	0.726	0.158	6.025
Basin33	2.500	1.535	0.965	0.240	4.057
Basin29	2.500	0.949	1.551	0.433	6.372
Basin31A	2.500	1.526	0.974	0.240	14.001
Basin72	2.500	1.729	0.771	0.186	1.719
Basin80	2.500	1.692	0.808	0.186	2.561
Basin77.1	2.500	1.698	0.802	0.186	2.103
Basin77.2	2.500	1.698	0.802	0.186	2.103
Basin77.3	2.500	1.698	0.802	0.186	2.103
Basin77.4	2.500	1.698	0.802	0.186	2.103
Basin77.5	2.500	1.698	0.802	0.186	2.103
Basin81	2.500	1.001	1.499	0.415	0.829
Basin78	2.500	1.377	1.123	0.290	1.585
Basin82	2.500	1.120	1.380	0.377	1.596
Basin79	2.500	0.295	2.205	0.602	0.102
Basin86	2.500	0.245	2.255	0.602	0.332
Node234	2.500	0.245	2.255	0.602	0.332
Basin85	2.500	0.668	1.832	0.526	0.846
Basin92	2.500	0.462	2.038	0.602	0.380
Basin87.1	2.500	1.700	0.800	0.186	1.571
Basin87	2.500	1.700	0.800	0.186	1.786
Basin93	2.500	0.467	2.033	0.602	0.398
Basin94	2.500	0.653	1.847	0.526	0.708
Basin95	2.500	0.610	1.890	0.540	0.424
Basin97B	2.500	0.528	1.972	0.566	0.340
Basin104	2.500	0.567	1.933	0.553	1.909
Basin102	2.500	0.463	2.037	0.590	0.356
Basin97A	2.500	0.456	2.044	0.590	0.813
Basin103	2.500	0.598	1.902	0.540	0.905
Basin105	2.500	0.659	1.841	0.526	1.254
Basin91	2.500	0.454	2.046	0.590	0.642
Basin99	2.500	0.457	2.043	0.590	0.362
Basin101	2.500	0.453	2.047	0.590	0.300
Basin98	2.500	0.567	1.933	0.553	0.536
Basin100	2.500	0.531	1.969	0.566	0.389
Basin96	2.500	0.531	1.969	0.566	0.600
Basin88	2.500	0.174	2.326	0.602	0.419
Basin60	2.500	0.571	1.929	0.553	0.711
Basin74	2.500	0.525	1.975	0.566	1.153
Basin23.2	2.500	1.059	1.441	0.397	1.990
Basin23.1	2.500	1.059	1.441	0.397	1.990

Subcatchment Results

Name	Total Rainfall in	Total Runoff Depth in	Total Infiltration in	Max Infil. Rate in/hr	Max Flow cfs
Basin83	2.500	0.886	1.614	0.450	4.627
Basin89	2.500	0.698	1.802	0.512	5.688
N447.1	2.500	0.948	1.552	0.433	2.216
Basin90.1	2.500	0.697	1.803	0.512	0.592
Basin90.2	2.500	0.570	1.930	0.553	0.387
Basin84	2.500	0.889	1.611	0.450	1.262
Basin24	2.500	1.035	1.465	0.397	1.580
Basin28	2.500	0.744	1.756	0.497	10.543
Basin27	2.500	0.699	1.801	0.512	4.586
Basin26	2.500	0.739	1.761	0.497	1.674
Basin25	2.500	1.552	0.948	0.240	3.991
Basin21	2.500	1.462	1.038	0.265	6.098
Basin22	2.500	0.962	1.538	0.433	6.188
Basin20	2.500	1.461	1.039	0.265	10.454

Subcatchment Results

10-year Storm Event: 3.5 inches

Name	Total Rainfall in	Total Runoff Depth in	Total Infiltration in	Max Infil. Rate in/hr	Max Flow cfs
Basin75	3.500	1.492	2.008	0.549	7.583
Basin76.1	3.500	2.031	1.469	0.378	1.521
Basin76.2	3.500	2.031	1.469	0.378	6.175
Basin70	3.500	2.022	1.478	0.378	5.865
Basin69	3.500	2.629	0.871	0.175	22.838
Basin71	3.500	2.522	0.978	0.205	4.950
Basin73	3.500	2.649	0.851	0.175	3.295
Basin66	3.500	1.134	2.366	0.670	2.719
Basin67	3.500	1.120	2.380	0.670	2.833
Basin54	3.500	1.305	2.195	0.612	5.386
Basin55	3.500	1.125	2.375	0.670	0.354
Basin40	3.500	1.241	2.259	0.632	5.673
Basin32	3.500	2.668	0.832	0.175	3.447
Basin31C	3.500	2.377	1.123	0.265	3.577
Basin31D	3.500	1.792	1.708	0.456	4.465
Basin31B	3.500	2.452	1.048	0.265	8.727
Basin38A	3.500	2.716	0.784	0.175	2.019
Basin38B	3.500	2.677	0.823	0.175	1.031
Basin39	3.500	2.743	0.757	0.175	2.122
Basin45	3.500	2.194	1.306	0.323	1.600
Basin46	3.500	1.113	2.387	0.670	1.355
Basin52	3.500	2.201	1.299	0.323	4.689
Basin62	3.500	1.184	2.316	0.651	0.983
Basin59	3.500	1.194	2.306	0.651	2.045
Basin61	3.500	1.184	2.316	0.651	0.785
Basin63	3.500	0.576	2.924	0.843	0.880
Basin64	3.500	1.186	2.314	0.651	1.119
Basin65	3.500	1.435	2.065	0.571	0.833
Basin37	3.500	2.653	0.847	0.175	5.195
Basin43.2	3.500	2.188	1.312	0.323	13.876
Basin43.1	3.500	2.188	1.312	0.323	3.465
Basin44	3.500	1.306	2.194	0.612	2.099
Basin36.1	3.500	2.464	1.036	0.235	5.261
Basin35	3.500	2.464	1.036	0.235	2.180
Basin36.2	3.500	2.464	1.036	0.235	5.261
Basin30	3.500	2.727	0.773	0.146	7.928
Basin13	3.500	1.716	1.784	0.480	7.215
Basin14	3.500	1.790	1.710	0.456	7.252
Basin68	3.500	1.788	1.712	0.456	14.272
Basin57	3.500	1.375	2.125	0.592	3.807
Basin58	3.500	1.717	1.783	0.480	6.152
Basin49	3.500	2.107	1.393	0.351	5.505
Basin51	3.500	2.455	1.045	0.235	9.706
Basin50	3.500	1.504	1.996	0.549	6.172
Basin48	3.500	1.102	2.398	0.670	1.608
Basin47	3.500	2.025	1.475	0.378	6.431
Basin56	3.500	1.311	2.189	0.612	1.706
Basin41	3.500	1.793	1.707	0.456	2.959
Basin42.2	3.500	2.198	1.302	0.323	6.460

Subcatchment Results

Name	Total Rainfall in	Total Runoff Depth in	Total Infiltration in	Max Infil. Rate in/hr	Max Flow cfs
Basin42.1	3.500	1.307	2.193	0.612	5.733
Basin42.3	3.500	2.961	0.539	0.108	3.911
Basin42.4	3.500	2.466	1.034	0.235	1.147
Basin34	3.500	2.727	0.773	0.146	9.347
Basin33	3.500	2.455	1.045	0.235	6.742
Basin29	3.500	1.721	1.779	0.480	13.105
Basin31A	3.500	2.441	1.059	0.235	23.136
Basin72	3.500	2.693	0.807	0.175	2.712
Basin80	3.500	2.634	0.866	0.175	4.056
Basin77.1	3.500	2.645	0.855	0.175	3.335
Basin77.2	3.500	2.645	0.855	0.175	3.335
Basin77.3	3.500	2.645	0.855	0.175	3.335
Basin77.4	3.500	2.645	0.855	0.175	3.335
Basin77.5	3.500	2.645	0.855	0.175	3.335
Basin81	3.500	1.788	1.712	0.456	1.659
Basin78	3.500	2.262	1.238	0.294	2.735
Basin82	3.500	1.944	1.556	0.405	3.055
Basin79	3.500	0.747	2.753	0.788	0.363
Basin86	3.500	0.663	2.837	0.819	0.786
Basin85	3.500	1.336	2.164	0.612	2.331
Basin92	3.500	1.063	2.437	0.734	1.083
Basin87.1	3.500	2.648	0.852	0.175	2.501
Basin87	3.500	2.648	0.852	0.175	2.843
Basin93	3.500	1.076	2.424	0.734	1.219
Basin94	3.500	1.307	2.193	0.612	1.931
Basin95	3.500	1.245	2.255	0.632	1.223
Basin97B	3.500	1.120	2.380	0.670	1.054
Basin104	3.500	1.178	2.322	0.651	6.112
Basin102	3.500	1.026	2.474	0.705	1.602
Basin97A	3.500	1.009	2.491	0.705	3.655
Basin103	3.500	1.219	2.281	0.632	2.666
Basin105	3.500	1.318	2.182	0.612	3.389
Basin91	3.500	1.006	2.494	0.705	2.517
Basin99	3.500	1.013	2.487	0.705	1.162
Basin101	3.500	1.004	2.496	0.705	0.832
Basin98	3.500	1.179	2.321	0.651	1.583
Basin100	3.500	1.126	2.374	0.670	1.276
Basin96	3.500	1.127	2.373	0.670	2.088
Basin88	3.500	0.532	2.968	0.844	1.027
Basin60	3.500	1.188	2.312	0.651	1.924
Basin74	3.500	1.113	2.387	0.670	4.035
Basin23.1	3.500	1.864	1.636	0.431	7.736
Basin23.2	3.500	1.864	1.636	0.431	7.736
Basin83	3.500	1.631	1.869	0.504	9.913
Basin89	3.500	1.372	2.128	0.592	13.864
Basin90.1	3.500	1.371	2.129	0.592	1.528
Basin90.2	3.500	1.184	2.316	0.651	1.194
Basin84	3.500	1.637	1.863	0.504	2.740
Basin24	3.500	1.822	1.678	0.431	3.115

Subcatchment Results

Name	Total Rainfall in	Total Runoff Depth in	Total Infiltration in	Max Infil. Rate in/hr	Max Flow cfs
Basin28	3.500	1.438	2.062	0.571	25.375
Basin27	3.500	1.374	2.126	0.592	11.900
Basin26	3.500	1.429	2.071	0.571	4.122
Basin25	3.500	2.481	1.019	0.235	6.627
Basin21	3.500	2.370	1.130	0.265	10.357
Basin22	3.500	1.745	1.755	0.480	12.476
Basin20	3.500	2.368	1.132	0.265	17.660

Subcatchment Results

25-year Storm Event: 4.0 inches

Name	Total Rainfall in	Total Runoff Depth in	Total Infiltration in	Max Infil. Rate in/hr	Max Flow cfs
Basin75	4.000	1.881	2.119	0.570	10.037
Basin76.1	4.000	2.476	1.524	0.381	1.894
Basin76.2	4.000	2.476	1.524	0.381	7.689
Basin70	4.000	2.465	1.535	0.381	7.282
Basin69	4.000	3.108	0.892	0.169	27.100
Basin71	4.000	2.995	1.005	0.199	5.917
Basin73	4.000	3.132	0.868	0.169	1.947
Basin73.1	4.000	3.132	0.868	0.169	1.947
Basin66	4.000	1.477	2.523	0.709	3.921
Basin67	4.000	1.458	2.542	0.709	4.085
Basin54	4.000	1.671	2.329	0.642	2.344
Node12	4.000	1.671	2.329	0.642	2.344
Basin55	4.000	1.466	2.534	0.709	0.504
Basin40	4.000	1.598	2.402	0.665	7.875
Basin32	4.000	3.154	0.846	0.169	4.092
Basin31C	4.000	2.847	1.153	0.261	4.333
Basin31D	4.000	2.215	1.785	0.466	5.697
Basin31B	4.000	2.937	1.063	0.261	10.543
Basin38A	4.000	3.211	0.789	0.169	2.395
Basin38B	4.000	3.166	0.834	0.169	1.222
Basin39	4.000	3.244	0.756	0.169	2.516
Basin45	4.000	2.651	1.349	0.321	1.960
Basin46	4.000	1.450	2.550	0.709	1.950
Basin52	4.000	2.659	1.341	0.321	5.766
Basin54.1	4.000	2.659	1.341	0.321	2.881
Basin62	4.000	1.534	2.466	0.687	1.370
Basin59	4.000	1.547	2.453	0.687	2.850
Basin61	4.000	1.534	2.466	0.687	1.096
Basin63	4.000	0.817	3.183	0.916	1.233
Basin64	4.000	1.535	2.465	0.687	1.586
Basin65	4.000	1.818	2.182	0.595	1.118
Basin37	4.000	3.137	0.863	0.169	6.158
Basin43.2	4.000	2.644	1.356	0.321	17.053
Basin43.1	4.000	2.644	1.356	0.321	4.259
Basin44	4.000	1.672	2.328	0.642	2.885
Basin36.1	4.000	2.938	1.062	0.230	6.325
Basin35	4.000	2.938	1.062	0.230	2.621
Basin36.2	4.000	2.938	1.062	0.230	6.325
Basin30	4.000	3.211	0.789	0.140	9.339
Basin13	4.000	2.131	1.869	0.493	9.277
Basin14	4.000	2.213	1.787	0.466	9.242
Basin68	4.000	2.209	1.791	0.466	18.141
Basin57	4.000	1.751	2.249	0.619	5.156
Basin58	4.000	2.133	1.867	0.493	7.920
Basin49	4.000	2.557	1.443	0.351	6.809
Basin51	4.000	2.928	1.072	0.230	11.659
Basin50	4.000	1.895	2.105	0.570	8.151
Basin48	4.000	1.436	2.564	0.709	2.316
Basin47	4.000	2.469	1.531	0.381	8.001

Subcatchment Results

Name	Total Rainfall in	Total Runoff Depth in	Total Infiltration in	Max Infil. Rate in/hr	Max Flow cfs
Basin56	4.000	1.678	2.322	0.642	2.337
Basin41	4.000	2.215	1.785	0.466	3.779
Basin42.2	4.000	2.656	1.344	0.321	7.925
Basin42.1	4.000	1.673	2.327	0.642	7.838
Basin42.3	4.000	3.457	0.543	0.120	4.554
Basin42.4	4.000	2.941	1.059	0.230	1.379
Basin34	4.000	3.211	0.789	0.140	11.007
Basin33	4.000	2.927	1.073	0.230	8.112
Basin29	4.000	2.137	1.863	0.493	16.839
Basin31A	4.000	2.911	1.089	0.230	27.785
Basin72	4.000	3.184	0.816	0.169	3.210
Basin80	4.000	3.115	0.885	0.169	4.806
Basin77.1	4.000	3.127	0.873	0.169	3.954
Basin77.2	4.000	3.127	0.873	0.169	3.954
Basin77.3	4.000	3.127	0.873	0.169	3.954
Basin77.4	4.000	3.127	0.873	0.169	3.954
Basin77.5	4.000	3.127	0.873	0.169	3.954
Basin81	4.000	2.209	1.791	0.466	2.109
Basin78	4.000	2.720	1.280	0.291	3.329
Basin82	4.000	2.381	1.619	0.410	3.843
Basin79	4.000	1.022	2.978	0.845	0.644
Basin86	4.000	0.923	3.077	0.882	1.316
Basin85	4.000	1.711	2.289	0.642	3.205
Basin92	4.000	1.410	2.590	0.764	1.674
Basin87.1	4.000	3.131	0.869	0.169	2.969
Basin87	4.000	3.131	0.869	0.169	3.375
Basin93	4.000	1.427	2.573	0.764	1.913
Basin94	4.000	1.674	2.326	0.642	2.654
Basin95	4.000	1.602	2.398	0.665	1.704
Basin97B	4.000	1.460	2.540	0.709	1.510
Basin104	4.000	1.526	2.474	0.687	8.657
Basin102	4.000	1.354	2.646	0.750	2.389
Basin97A	4.000	1.331	2.669	0.750	5.461
Basin103	4.000	1.570	2.430	0.665	3.719
Basin105	4.000	1.688	2.312	0.642	4.660
Basin91	4.000	1.327	2.673	0.750	3.780
Basin99	4.000	1.336	2.664	0.750	1.711
Basin101	4.000	1.325	2.675	0.750	1.209
Basin98	4.000	1.527	2.473	0.687	2.234
Basin100	4.000	1.467	2.533	0.709	1.836
Basin96	4.000	1.468	2.532	0.709	3.004
Basin88	4.000	0.763	3.237	0.933	1.433
Basin60	4.000	1.538	2.462	0.687	2.676
Basin74	4.000	1.450	2.550	0.709	5.806
Basin23.2	4.000	2.293	1.707	0.438	4.877
Basin23.1	4.000	2.293	1.707	0.438	4.877
Basin83	4.000	2.035	1.965	0.519	12.859
Basin89	4.000	1.747	2.253	0.619	18.649
Basin90.1	4.000	1.746	2.254	0.619	2.075

Subcatchment Results

Name	Total Rainfall in	Total Runoff Depth in	Total Infiltration in	Max Infil. Rate in/hr	Max Flow cfs
Basin90.2	4.000	1.534	2.466	0.687	1.687
Basin84	4.000	2.042	1.958	0.519	3.566
Basin24	4.000	2.241	1.759	0.438	3.946
Basin28	4.000	1.821	2.179	0.595	33.976
Basin27	4.000	1.749	2.251	0.619	16.133
Basin26	4.000	1.810	2.190	0.595	5.518
Basin25	4.000	2.959	1.041	0.230	7.975
Basin21	4.000	2.838	1.162	0.261	12.547
Basin22	4.000	2.166	1.834	0.493	15.982
Basin20	4.000	2.836	1.164	0.261	21.384

Subcatchment Results

50-year Storm Event: 4.5 inches

Name	Total Rainfall in	Total Runoff Depth in	Total Infiltration in	Max Infil. Rate in/hr	Max Flow cfs
Basin75	4.500	2.285	2.215	0.586	12.617
Basin76.1	4.500	2.930	1.570	0.381	2.275
Basin76.2	4.500	2.930	1.570	0.381	9.235
Basin70	4.500	2.918	1.582	0.381	8.728
Basin69	4.500	3.591	0.909	0.163	31.359
Basin71	4.500	3.472	1.028	0.193	6.886
Basin73	4.500	3.619	0.881	0.163	2.250
Basin73.1	4.500	3.619	0.881	0.163	2.250
Basin66	4.500	1.842	2.658	0.740	5.222
Basin67	4.500	1.818	2.682	0.740	5.440
Basin54	4.500	2.055	2.445	0.665	3.031
Node12	4.500	2.055	2.445	0.665	3.031
Basin55	4.500	1.828	2.672	0.740	0.668
Basin40	4.500	1.974	2.526	0.691	10.260
Basin32	4.500	3.645	0.855	0.163	4.738
Basin31C	4.500	3.323	1.177	0.255	5.098
Basin31D	4.500	2.650	1.850	0.471	6.975
Basin31B	4.500	3.428	1.072	0.255	12.379
Basin38A	4.500	3.711	0.789	0.163	2.770
Basin38B	4.500	3.658	0.842	0.163	1.413
Basin39	4.500	3.748	0.752	0.163	2.909
Basin45	4.500	3.116	1.384	0.318	2.325
Basin46	4.500	1.808	2.692	0.740	2.602
Basin52	4.500	3.125	1.375	0.318	6.859
Basin54.1	4.500	3.125	1.375	0.318	3.427
Basin62	4.500	1.904	2.596	0.716	1.788
Basin59	4.500	1.920	2.580	0.716	3.723
Basin61	4.500	1.903	2.597	0.716	1.434
Basin63	4.500	1.085	3.415	0.976	1.845
Basin64	4.500	1.906	2.594	0.716	2.090
Basin65	4.500	2.218	2.282	0.613	1.419
Basin37	4.500	3.624	0.876	0.163	7.120
Basin43.2	4.500	3.107	1.393	0.318	20.279
Basin43.1	4.500	3.107	1.393	0.318	5.064
Basin44	4.500	2.057	2.443	0.665	3.728
Basin36.1	4.500	3.418	1.082	0.224	7.393
Basin35	4.500	3.418	1.082	0.224	3.063
Basin36.2	4.500	3.418	1.082	0.224	7.393
Basin30	4.500	3.697	0.803	0.144	10.745
Basin13	4.500	2.559	1.941	0.501	11.416
Basin14	4.500	2.648	1.852	0.471	11.300
Basin68	4.500	2.644	1.856	0.471	22.136
Basin57	4.500	2.145	2.355	0.639	6.600
Basin58	4.500	2.562	1.938	0.501	9.758
Basin49	4.500	3.016	1.484	0.349	8.146
Basin51	4.500	3.406	1.094	0.224	13.620
Basin50	4.500	2.303	2.197	0.586	10.247
Basin48	4.500	1.790	2.710	0.740	3.087
Basin47	4.500	2.922	1.578	0.381	9.605

Subcatchment Results

Name	Total Rainfall in	Total Runoff Depth in	Total Infiltration in	Max Infil. Rate in/hr	Max Flow cfs
Basin56	4.500	2.065	2.435	0.665	3.019
Basin41	4.500	2.651	1.849	0.471	4.629
Basin42.2	4.500	3.122	1.378	0.318	9.411
Basin42.1	4.500	2.058	2.442	0.665	10.099
Basin42.3	4.500	3.954	0.546	0.130	5.194
Basin42.4	4.500	3.421	1.079	0.224	1.611
Basin34	4.500	3.698	0.802	0.144	12.661
Basin33	4.500	3.405	1.095	0.224	9.489
Basin29	4.500	2.566	1.934	0.501	20.728
Basin31A	4.500	3.386	1.114	0.224	32.451
Basin72	4.500	3.678	0.822	0.163	3.707
Basin80	4.500	3.599	0.901	0.163	5.555
Basin77.1	4.500	3.613	0.887	0.163	4.572
Basin77.2	4.500	3.613	0.887	0.163	4.572
Basin77.3	4.500	3.613	0.887	0.163	4.572
Basin77.4	4.500	3.613	0.887	0.163	4.572
Basin77.5	4.500	3.613	0.887	0.163	4.572
Basin81	4.500	2.644	1.856	0.471	2.573
Basin78	4.500	3.186	1.314	0.287	3.928
Basin82	4.500	2.828	1.672	0.411	4.652
Basin79	4.500	1.322	3.178	0.896	0.967
Basin86	4.500	1.209	3.291	0.936	2.007
Basin85	4.500	2.105	2.395	0.665	4.136
Basin92	4.500	1.779	2.721	0.786	2.343
Basin87.1	4.500	3.618	0.882	0.163	3.436
Basin87	4.500	3.618	0.882	0.163	3.907
Basin93	4.500	1.801	2.699	0.786	2.698
Basin94	4.500	2.059	2.441	0.665	3.432
Basin95	4.500	1.980	2.520	0.691	2.220
Basin97B	4.500	1.820	2.680	0.740	2.006
Basin104	4.500	1.894	2.606	0.716	11.396
Basin102	4.500	1.704	2.796	0.787	3.261
Basin97A	4.500	1.676	2.824	0.787	7.432
Basin103	4.500	1.940	2.560	0.691	4.847
Basin105	4.500	2.076	2.424	0.665	6.016
Basin91	4.500	1.670	2.830	0.787	5.160
Basin99	4.500	1.682	2.818	0.787	2.324
Basin101	4.500	1.668	2.832	0.787	1.628
Basin98	4.500	1.895	2.605	0.716	2.937
Basin100	4.500	1.829	2.671	0.740	2.446
Basin96	4.500	1.831	2.669	0.740	4.008
Basin88	4.500	1.022	3.478	0.996	2.233
Basin60	4.500	1.909	2.591	0.716	3.492
Basin74	4.500	1.808	2.692	0.740	7.746
Basin23.2	4.500	2.733	1.767	0.442	5.914
Basin23.1	4.500	2.733	1.767	0.442	5.914
Basin83	4.500	2.454	2.046	0.530	15.929
Basin89	4.500	2.141	2.359	0.639	23.783
Basin90.1	4.500	2.139	2.361	0.639	2.659

Subcatchment Results

Name	Total Rainfall in	Total Runoff Depth in	Total Infiltration in	Max Infil. Rate in/hr	Max Flow cfs
Basin90.2	4.500	1.903	2.597	0.716	2.222
Basin84	4.500	2.462	2.038	0.530	4.428
Basin24	4.500	2.672	1.828	0.442	4.804
Basin28	4.500	2.222	2.278	0.613	43.067
Basin27	4.500	2.143	2.357	0.639	20.636
Basin26	4.500	2.208	2.292	0.613	7.011
Basin25	4.500	3.442	1.058	0.224	9.329
Basin21	4.500	3.313	1.187	0.255	14.755
Basin22	4.500	2.602	1.898	0.501	19.616
Basin20	4.500	3.310	1.190	0.255	25.136

Stayton, Or
Stormwater Model
Hydraulic Results

Link Name	Upstream Node Name	Upstream Invert Elevation ft	Downstream Node Name	Downstream Invert Elevation ft	Length ft	Conduit Slope ft/ft	Diameter ft	n value	Design Full Flow cfs	Max Flow cfs
1383.1	Basin36.1	430.24	Basin35	428.24	301.95	0.66	1.41	0.014	6.73	4.5
1383.2	Basin36.1	430.24	Basin35	428.09	301.95	0.71	1	0.014	2.79	1.81
1544.1	N404	439.45	Node105	441.3	157.92	-1.17	3	0.014	165.07	13.24
1544.2	N404	439.29	Node105	439.63	157.92	-0.22	4.5	0.014	157.23	29.37
ditch	Node167	502.89	Node168	500	105.06	2.75	3	0.014	169.45	4.9
L111	N112	449.12	N113	447.63	300.63	0.5	1.5	0.014	6.87	2.69
L121	Basin98	453.78	Basin100	454.02	155.62	-0.15	1.5	0.014	3.83	6.63
L122	Basin100	454.02	Basin96	453.96	244.52	0.02	1.25	0.014	0.94	4.48
L122.1	Basin96	453.76	N123	451.56	397.77	0.55	1	0.014	2.46	4.93
L129	Basin101	456.24	N134	456.38	89.77	-0.16	2	0.014	8.3	9.17
L172	Basin23.1	448.07	N179	446.58	383.62	0.39	2	0.014	13.09	11.61
L173	N179	446.48	N180	446.08	176.54	0.23	2	0.014	10	11.61
L180	Basin74	492	N187	474.69	396.24	4.37	1	0.014	6.91	5.8
L202	Basin40	430.78	N220	429.77	644.96	0.16	1.75	0.014	5.82	7.87
L27	Basin48	437.31	Basin47	436.73	331.84	0.17	2.5	0.014	15.92	23.91
L92	Basin49	443.52	N94	442.36	308.27	0.38	2	0.014	12.89	17.74
L93	N94	442.36	N446	439.57	499.81	0.56	2	0.014	15.69	17.27
L93.1	N446	439.32	Basin48	437.31	424.7	0.47	2	0.014	14.45	16.9
Link106	N447.1	477.64	Basin90.1	477.32	14.67	2.18	1	0.014	4.89	12.4
Link107	Basin89	480	N447.1	477.64	388.83	0.61	4	0.014	206.54	22.89
Link108	Basin90.1	477.22	Basin90.2	473	262.27	1.61	1.25	0.014	7.61	10.08
Link109	Basin90.2	472.9	Node386	473.13	29.04	-0.79	1.5	0.014	8.68	10.69
Link110	Node386	472.98	Basin84	467.97	308.31	1.62	1.5	0.014	12.43	10.69
Link111	Basin84	467.87	N183	461.68	308.36	2.01	1.5	0.014	13.82	12.49
Link112	Node388	459.26	Basin24	458.84	33.48	1.25	2.5	0.014	42.66	17.45
Link113	N187	474.69	Node92	468.65	291.75	2.07	1	0.014	4.76	5.65
Link114	Node92	468.55	Node93	463.79	435.95	1.09	1.5	0.014	10.19	5.65
Link115	Node93	463.69	Node385	462.26	48.24	2.96	1.5	0.014	16.79	5.65
Link116	Basin24	458.84	Node94	458.84	254.1	0	2	0.014	1.45	20.89
Link117	Node94	458.726	Node95	458.459	169.64	0.16	2	0.014	18.24	20.68
Link118	Node95	458.459	Node96	458.164	327.55	0.09	2	0.014	13.8	20.61
Link123	Node116	464	Node96	458.164	885.99	0.66	3	0.014	115.15	12.02
Link129	Node105	439.63	Node205	437	418.28	0.63	5	0.014	46.09	42.61
Link130	Node205	437	Node107	436	190.46	0.53	8	0.014	99.33	42.6
Link131	Node107	439.21	Node108	436.28	134.18	2.18	10	0.014	2572.56	148.2
Link135	Basin35	428.09	Basin36.2	427.33	302.53	0.25	1.5	0.014	4.89	10.5
Link136	Basin36.2	427.33	Basin30	426.9	405.94	0.11	1.5	0.014	13.32	15.66
Link137	Basin30	426.9	Node114	425.4	421.99	0.36	3.75	0.014	122.35	23.43
Link138	Node114	425.4	Node115	425	278.98	0.14	3.75	0.014	77.7	23.3
Link139	Node115	425	Node59	424.5	174.96	0.29	2	0.014	22.2	23.28
Link14	Basin41	431.2	Node10	430.39	426.14	0.19	4	0.014	58.15	35.3
Link140	N448	445.59	Node117	445.43	154.07	0.1	1.25	0.014	1.93	3.54
Link141	Node117	445.43	Node118	444.8	140.26	0.45	1.25	0.014	4.02	3.52
Link143	Basin99	465.7	Node435	463.09	437.41	0.6	2	0.014	16.23	9.01
Link146	Basin58	445.83	N448	445.64	39.26	0.48	1.25	0.014	4.17	5

Stayton, Or
Stormwater Model
Hydraulic Results

Link Name	Upstream Node Name	Upstream Invert Elevation ft	Downstream Node Name	Downstream Invert Elevation ft	Length ft	Conduit Slope ft/ft	Diameter ft	n value	Design Full Flow cfs	Max Flow cfs
Link147	Node118	444.6	Node120	444.16	155.84	0.28	1.25	0.014	3.19	4.28
Link148	Node120	444.16	Basin49	443.62	468.09	0.12	1.25	0.014	2.04	4.28
Link149	N445	430.19	Node121	426.74	160.43	2.15	1.5	0.014	14.3	8.97
Link15	Node10	430.29	Node262	429.02	103.97	1.22	4	0.014	147.42	35.3
Link150	Basin34	426.74	Node121	426.83	70.08	-0.13	2	0.014	7.53	12.76
Link151	Node121	426.83	Basin33	427.62	565.65	-0.14	2	0.014	7.85	16.34
Link152	N423	426.96	Node271	426.29	5.5	12.18	1	0.014	11.55	0.41
Link155	N423	427.16	Node272	424.68	218.54	1.13	0.833	0.014	2.16	-0.83
Link156	Node288	425.79	Node264	422.85	532.04	0.55	4	0.014	99.15	59.12
Link159	Basin50	443.32	Node43	439.72	1126.9	0.32	1.5	0.014	5.51	5.69
Link161	Basin44	429.92	Node127	428.95	294.36	0.33	1.5	0.014	5.6	6.75
Link162	Node127	428.95	Basin35	428.09	379.4	0.23	1.5	0.014	4.64	6.75
Link164	Basin91	549	Node78	467.95	554.7	14.61	0.667	0.014	4.29	3.77
Link166	Basin85	463	Basin94	461.51	118.24	1.26	2	0.014	23.58	3.2
Link167	Basin92	463	Basin94	461.51	60.11	2.48	2	0.014	33.07	1.67
Link169	N134	456.38	Node133	458	233.68	-0.69	6	0.014	626.58	8
Link170	Node133	458	N434	458	226.58	0	3	0.014	7.72	6.9
Link171	N434	458	Basin98	455.56	143.18	1.7	6	0.014	650.62	5.23
Link172	Node234	454.71	Basin88	454.91	15.75	-1.27	1.5	0.014	10.99	1.31
Link173	Basin77.1	451.89	Basin77.2	451.05	223	0.38	1	0.013	2.19	2.2
Link175	Basin77.2	450.9	Basin77.3	449.91	291.54	0.34	1	0.013	2.08	2.84
Link176	Basin81	448	Node138	446	781.2	0.26	0.667	0.013	0.61	0.87
Link177	Basin73	443	Basin73.1	440	251.7	1.19	0.833	0.014	2.22	1.95
Link177.	Basin73.1	440	Node140	437	251.71	1.19	0.833	0.014	2.22	3.1
Link178	Basin72	446.08	Node142	444	583.72	0.36	0.833	0.014	1.21	1.49
Link179	Basin55	433	N444	431	197.84	1.01	0.833	0.014	2.04	0.5
Link180	Basin46	434.013	Node146	434	665.49	0	0.667	0.014	0.05	1.13
Link181	Basin39	430.5	Node148	430	530.78	0.09	0.833	0.014	0.62	1.65
Link182	Basin32	434	Node150	430	929.68	0.43	1	0.014	2.17	2.15
Link184	Basin31C	427.39	Node152	426.37	322.88	0.32	1	0.014	1.86	3.15
Link185	Node420	425.18	Basin31A	424.12	588.12	0.18	2	0.014	8.92	-8.25
Link186	Basin31A	424.12	Node155	423	704.21	0.16	2.5	0.014	15.19	19.51
Link187	Node155	423.16	Node156	423.16	205.86	0	1.5	0.014	0.31	11.86
Link189	Basin38A	433.48	N103	433.46	47.82	0.04	0.833	0.014	0.42	1.74
Link19	Basin54	433.43	Node12	431.54	443.48	0.43	0.833	0.014	1.33	2.34
Link191	Basin37	430.5	Node163	430	700.79	0.07	1.5	0.014	2.61	5.61
Link192	Basin28	511	Node165	510	123.31	0.81	5	0.014	190.84	33.99
Link193	Node165	510	Node166	507.6	197.25	1.22	1.5	0.014	10.76	14.57
Link194	Node166	507.59	Node167	503.86	414.67	0.9	1	0.014	3.14	4.91
Link198	Node168	500	Node171	494	422.44	1.42	5	0.014	252.56	4.9
Link199	Node171	494.03	Node172	493.97	85.52	0.07	2	0.014	5.56	4.9
Link20	Node12	431.29	Node347	429.16	192.36	1.11	1	0.014	3.48	4.68
Link200	Node172	493.97	Basin27	491.86	147.24	1.43	5	0.014	289.5	4.9
Link201	Basin27	491.86	Node174	489.81	106.36	1.93	2	0.014	29.16	16.13
Link202	Node174	489.81	Node175	490.99	61.76	-1.91	5	0.014	292.92	16.13

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Link Name	Upstream Node Name	Upstream Invert Elevation ft	Downstream Node Name	Downstream Invert Elevation ft	Length ft	Conduit Slope ft/ft	Diameter ft	n value	Design Full Flow cfs	Max Flow cfs
Link203	Node175	490.99	Basin26	483.51	56.95	13.13	3	0.014	224.46	16.13
Link204	Basin26	475	N477	474	858.17	0.12	10	0.014	828.3	11.01
Link205	N477	479.48	Basin25	478.51	130.85	0.74	3	0.014	53.32	10.44
Link207	Basin25	478	Node116	464	992.39	1.41	3	0.014	121.35	12.24
Link208	Basin97B	475	Node181	474.14	147.78	0.58	1.5	0.014	7.44	1.51
Link209	Node181	473.67	Node182	473	682.49	0.1	2	0.014	6.58	11.1
Link212	Node184	471	Node185	469	142.61	1.4	2	0.014	24.88	10.64
Link213	Basin104	479.66	Node181	474.39	218.88	2.41	1	0.014	5.13	6.26
Link214	Basin64	441	Node188	438	331.68	0.9	0.833	0.014	1.93	1.58
Link215	Basin65	443	Node190	442.16	177.76	0.47	0.833	0.014	1.4	1.12
Link216	Basin71	454.7	Node192	441.75	856.89	1.51	1	0.014	4.07	4.51
Link217	Basin102	547	Node181	474.19	255.83	28.46	1.5	0.014	52.04	3.35
Link219	N103	433.46	Node196	432	229.5	0.64	0.833	0.014	1.62	1.68
Link220	Node196	432	Node158	430	245.54	0.81	1	0.014	1.34	1.15
Link221	Basin45	435.28	Node161	433.6	797.49	0.21	0.833	0.014	0.93	1.19
Link222	Basin31D	428.5	Node152	426.37	237.04	0.9	1.5	0.014	9.25	5.7
Link224	Node197	425.35	Node420	425.31	36.8	0.11	0.833	0.014	0.67	4.88
Link227	Node152	426.18	Node197	425.35	572.27	0.15	1.25	0.014	2.28	3.2
Link228	Node418	426.25	Node197	425.8	123.53	0.36	2.5	0.014	22.99	10.54
Link229	Node420	425.18	Node155	423.79	918.57	0.15	2	0.014	8.17	7.29
Link230	Node156	422.83	Node199	422.53	102.96	0.29	2.5	0.014	20.56	11.87
Link231	Node182	473	Node184	471	726.47	0.28	2	0.014	389.81	11.07
Link232	Basin105	461.73	N144	461.22	780.76	0.07	3	0.014	15.83	8.04
Link234	Node262	428.92	Basin33	427.72	415.9	0.29	4	0.014	71.65	35.3
Link237	N177	450	Basin23.1	448.07	389.93	0.49	1.5	0.014	6.86	7.6
Link238	N180	445.98	Node200	445.7	133.94	0.21	2.5	0.014	17.41	11.6
Link240	Node96	458.164	Node99	443	798.77	1.9	3	0.014	195.48	29.96
Link243	Node272	424.73	Basin13	423.85	159.86	0.55	1	0.014	2.45	-2.71
Link244	Basin14	429.29	Node274	429.05	144.5	0.17	1	0.014	1.35	2.78
Link245	Node274	429.1	Node249	428.13	406.15	0.24	1	0.014	1.62	2.26
Link246	Node99	443	Basin21	441	737.71	0.27	4	0.014	135.61	32.47
Link247	Node264	422.8	N498	422.82	25.27	-0.08	3	0.014	17.42	59.08
Link248	Basin21	441	Basin22	440	466.2	0.21	4	0.014	61.78	38.22
Link249	Basin22	440	N404	439.5	296.57	0.17	4	0.014	54.77	42.61
Link251	Basin20	443	Node206	443	380.2	0	3	0.014	3.23	21.31
Link255	Node249	428.13	Node288	425.79	82.21	2.85	1.25	0.014	10.12	2.38
Link256	Basin33	427.62	Node288	425.79	332.85	0.55	4	0.014	98.9	57.23
Link26	Basin56	435.1	Node20	434.98	271.18	0.04	2.5	0.014	8.01	30.32
Link27	Node20	433.63	Node261	433.22	132.9	0.31	4	0.014	74.08	32.52
Link29	Basin47	436.53	Basin56	435.1	329.94	0.43	2.5	0.014	25.07	28.09
Link293	Basin38B	432	Node212	431	189.51	0.53	0.667	0.014	0.82	1.22
Link296	Basin42.3	431.65	Node214	431.264	128.2	0.3	0.833	0.014	1.12	2.04
Link297	Node214	431.264	Node215	430.499	271.74	0.28	0.833	0.014	1.08	1.92
Link299	Node215	430.499	Basin34	426.74	253.49	1.48	1	0.014	4.03	2.42
Link300	Node326	442.24	Basin63	440.2	240.61	0.85	1.25	0.014	5.52	5.55

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Link Name	Upstream Node Name	Upstream Invert Elevation ft	Downstream Node Name	Downstream Invert Elevation ft	Length ft	Conduit Slope ft/ft	Diameter ft	n value	Design Full Flow cfs	Max Flow cfs
Link301	Basin63	440.2	Node323	440.26	464.41	-0.01	1.5	0.014	1.11	6.78
Link302	Basin42.4	430.87	Node215	430.499	123.59	0.3	0.833	0.014	1.11	1.44
Link303	Basin62	443.39	Node326	442.44	352.22	0.27	0.833	0.014	1.06	1.37
Link304	Basin61	443.26	Node331	443.23	312.44	0.01	1.25	0.014	0.59	4.48
Link306	N232	444.2	Basin61	443.36	166.92	0.5	1.25	0.014	4.26	1.91
Link307	Basin43.2	434.12	Node219	432.47	177.74	0.93	1	0.014	3.19	4.09
Link308	Node334	447.65	N232	444.35	522.16	0.63	0.833	0.014	1.62	1.9
Link309	Basin60	450.16	Node334	447.7	353.96	0.69	0.833	0.014	1.7	1.9
Link31	Basin42.1	430.9	N445	430.19	360.89	0.2	1.5	0.014	4.33	8.97
Link310	Node219	432.471	Node220	432.241	152.82	0.15	1	0.014	1.28	4.09
Link311	Node220	432.241	Node221	432.1	88.34	0.16	1.25	0.014	2.4	4.09
Link312	Node221	432.1	Node222	432.033	37.05	0.18	1.25	0.014	2.56	4.1
Link313	Node222	432.033	Node223	431.778	144.25	0.18	1.5	0.014	4.1	4.29
Link314	Node54	432.12	Node223	431.778	367.94	0.09	1.5	0.014	2.97	2.28
Link315	Basin66	438.65	Node342	436.46	235.54	0.93	1	0.014	3.19	3.93
Link316	Node223	431.778	Node57	431.513	284.53	0.09	1.5	0.014	2.98	5.79
Link317	Basin67	434.43	Node344	431.96	421.91	0.59	1.25	0.014	4.59	7.67
Link319	Basin42.2	436	Node225	434.56	803.14	0.18	1	0.014	1.4	2.65
Link320	Node225	434.56	Node226	434.063	116.84	0.43	1.25	0.014	3.91	3.5
Link322	Node226	434.063	Node227	433.83	101.45	0.23	1.25	0.014	2.88	3.51
Link323	N123	449.96	Node350	448.66	381.36	0.34	2.5	0.014	22.24	11.76
Link324	Node227	433.83	Basin42.1	430.9	144.24	2.03	1.25	0.014	8.55	3.51
Link325	Basin95	458.93	N123	451.56	568.24	1.3	1.25	0.014	6.83	7.35
Link326	Basin76.2	457.755	Node229	456.81	472.83	0.2	0.667	0.014	0.5	0.73
Link327	Node229	456.81	Node230	456.279	265.37	0.2	0.667	0.014	0.5	0.72
Link328	Node230	456.279	N104	455.73	274.51	0.2	0.667	0.014	0.5	0.62
Link329	Basin23.2	453.69	Node232	446.06	556.77	1.37	1	0.014	3.87	1.86
Link330	Node232	445.96	Node233	445.2	188.9	0.4	1	0.014	2.1	1.74
Link332	Node233	445.2	Node200	445	289.48	0.07	1	0.014	0.87	1.74
Link333	Basin86	466.76	Node235	463.166	208.94	1.72	0.833	0.014	2.67	1.32
Link336	Node235	463	Node234	454.71	1017.2	0.82	1	0.014	2.99	1.32
Link337	Node39	444.03	Node43	439.72	1782	0.24	0.833	0.014	1	1.17
Link343	Basin77.4	448.25	Basin77.5	445.84	412.28	0.58	1	0.013	2.72	4.44
Link344	Basin77.3	449.71	Basin77.4	448.7	277.76	0.36	1	0.013	2.15	3.55
Link345	Basin87	463.07	Node241	462.998	9.45	0.77	1	0.014	2.89	2.86
Link346	Node241	462.998	Node242	461.7	169.74	0.76	1	0.014	2.89	2.86
Link347	Node242	461.55	Basin94	461.71	10.53	-1.52	1.25	0.014	7.39	3.01
Link350	Basin87.1	463.72	Basin87	463.07	52.18	1.25	0.833	0.014	2.27	1.98
Link351	Basin93	463.72	Node242	462.6	114.47	0.98	1	0.014	3.27	2.38
Link352	N498	422.82	Node248	422.81	559.09	0	3	0.014	4.94	58.96
Link353	Node248	422.81	Node250	421.24	331.84	0.47	3	0.014	80.77	54.25
Link354	Node250	421.24	Node251	421.49	42.72	-0.59	3	0.014	47.38	53.69
Link355	Node385	462.65	N177	450	140.84	8.98	1.5	0.014	29.23	5.65
Link356	Node251	421.49	Node252	421.2	293.45	0.1	3	0.014	39.92	53.5
Link357	Node252	421.2	Basin29	419.54	447.87	0.37	3	0.014	69.85	53.48

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Link Name	Upstream Node Name	Upstream Invert Elevation ft	Downstream Node Name	Downstream Invert Elevation ft	Length ft	Conduit Slope ft/ft	Diameter ft	n value	Design Full Flow cfs	Max Flow cfs
Link358	Node248	423.81	Node245	423.807	39.47	0.01	1	0.014	0.29	4.45
Link360	N183	461.58	Node388	459.26	51.75	4.48	2	0.014	44.48	17.46
Link361	Basin83	467.65	N183	462.68	346.64	1.43	1	0.014	3.96	4.99
Link362	Basin43.2	435.77	Basin43.2.1	434.12	249.27	0.66	1	0.014	2.69	3.83
Link363	Basin87	464.5	Node254	464.17	46.66	0.71	1	0.014	2.78	4.82
Link364	Basin23.2	453.69	N177	450	203.22	1.82	1.5	0.014	13.14	3.01
Link365	Basin57	448.8	Basin49	443.72	1114.8	0.46	2	0.014	14.18	15.01
Link366	Basin68	448.59	Basin57	448.7	420.27	-0.03	1.75	0.014	2.38	14.2
Link368	Node256	445	Node99	444	83.5	1.2	1.5	0.014	10.67	4.09
Link37	Node27	448.78	Basin68	448.74	51.25	0.08	1.75	0.014	4.11	6.47
Link378	Node31	451.47	N499	450.97	257.65	0.19	1.25	0.014	2.64	6.19
Link378.	N499	450.82	Node401	450.33	234.74	0.21	1.25	0.014	2.74	6.19
Link394	Basin31B	428.16	Node418	426.6	248.65	0.63	2	0.014	16.64	10.54
Link40	N104	455.78	Basin70	454.88	242.83	0.37	0.833	0.014	1.24	2.09
Link409	Node435	462.89	Basin101	460.34	370.7	0.69	2	0.014	17.42	9
Link41	Basin70	454.78	Node30	453.64	276.76	0.41	0.833	0.014	1.31	2.7
Link42	Node30	453.19	Basin69	451.75	516.97	0.28	1	0.014	1.75	3.45
Link43	Basin69	451.6	Node31	451.47	43.62	0.3	1.25	0.014	3.27	8.83
Link44	Node401	449.83	Node27	449.13	410.13	0.17	1.5	0.014	4.03	6.19
Link452	Node125	427	Basin14	429.59	121.12	-2.14	0.5	0.014	0.76	0.78
Link46	Basin75	458.67	Node35	457.74	39.5	2.35	0.833	0.014	3.12	2.72
Link47	Node35	457.74	Basin76.1	456.92	234.6	0.35	0.833	0.014	1.2	1.08
Link48	Basin76.1	456.72	N104	456.28	279.37	0.16	0.833	0.014	0.81	1.46
Link49	Node261	433.12	Basin41	431.3	441.29	0.41	4	0.014	85.66	32.52
Link50	Node38	444.44	Basin51	444.38	26.48	0.23	1	0.014	1.57	-4.72
Link51	Node38	444.34	Node39	444.03	152.56	0.2	1	0.014	1.49	3.2
Link52	Node40	444.83	Node39	444.53	278.66	0.11	1	0.014	1.09	-2.17
Link53	Node40	444.83	Basin50	443.72	358.84	0.31	1	0.014	1.84	2.53
Link56	Node43	439.72	Node44	439.31	241.15	0.17	1.5	0.014	4.02	6.57
Link57	Node44	439.21	Node45	438.97	357.06	0.07	1.5	0.014	2.53	6.7
Link58	Node45	438.87	Basin48	437.56	198	0.66	1.5	0.014	7.93	6.7
Link59	Basin52	439.6	Basin54.1	437.75	719.45	0.26	1.25	0.014	3.04	3.93
Link60	Basin54.1	437.65	Node48	436.89	209.38	0.36	1.25	0.014	3.61	6.23
Link62	Node48	436.59	Node49	434.5	518.98	0.4	1.5	0.014	6.19	6.17
Link68	Basin43.1	432.33	Node54	432.12	25.09	0.84	1.5	0.014	8.92	-4.94
Link73	Node57	431.513	Basin44	430.22	25.03	5.17	1.5	0.014	22.17	5.75
Link75	Basin59	447.78	Node61	444.81	631.78	0.47	1	0.014	2.27	2.1
Link76	Node61	444.76	Basin61	443.96	120	0.67	1	0.014	2.7	2.1
Link77	Node331	443.13	Node326	442.54	362.85	0.16	1.25	0.014	2.42	4.48
Link78	Node323	440.01	Node322	439.14	157.05	0.55	1.5	0.014	7.26	6.78
Link79	Node342	436.31	Basin67	434.48	351.91	0.52	1.25	0.014	4.33	3.95
Link80	Basin80	445.54	Node63	444.26	625.39	0.2	0.667	0.014	0.51	0.99
Link82	Basin77.5	445.64	Node65	444.34	237.56	0.55	1	0.013	2.64	5.79
Link83	Basin82	446.84	Node67	446.28	206.81	0.27	1	0.014	1.72	3.84
Link84	Node67	446.18	Node68	445.8	18.37	2.07	1	0.014	4.76	3.84