

APPENDIX 1.2

OPTION 13 – SWMM MODEL OUTPUT

Option Description

The Broadway-Lomas detention pond was deleted from the model. The existing manhole number COA 32878.A was connected directly to an existing manhole COA32878.B with a proposed 4.5 ft diameter RCP pipe in Broadway. The BR21 Pond was simulated to detain runoff from Sub-catchment BR21. The pond outfall was simulated to drain into the Odelia Pond. The Santa Barbara Park Pump Station was included with a maximum capacity of 130 cfs (no detention pond). The storm drain from Commercial to Baca was re-routed to Broadway to drain into the Santa Barbara Park Pump Station. Upsized 36-in. to 48-in. storm drain from the Commercial-Indian School intersection south on Commercial to McKnight, then east on McKnight, then new 48-in. storm drain from the Commercial-McKnight intersection east to the Broadway-McKnight intersection, then south on Broadway to join into the Santa Barbara Park Pump Station. The links connecting manholes COA 29163 and COA7635, along Commercial and COA29132 and COA7628 along Broadway were deleted. The Broadway Pump Station was simulated at existing capacity of 130 cfs.

A weir was added to manhole COA32878.A. Modeling this weir in SWMM required two fictitious manholes labeled as WNODE1 and WNODE2. The inlet offset for the weir, which is height of the weir from the invert of the pipe to the top of the weir plate, was set at 4 feet in order to divert most of the flow from **BR1, BR4 and BR19** west on Lomas and away from the Broadway Pump Station. Storm drain north of Broadway Pump Station was upsized from 48-in. to 84-in. with a new length of 156 feet to simulate underground storage and better conveyance and added storage of 2- 84" RCP storage storm drains.

The North Wells Park Pond located at Summer and 5th St. was included. The storm drains from Cutler to McKnight on 4th St. were upsized from 36" to 48". A 48" RCP storm drain was included west from 3rd and Constitution and south along 5th St. to drain into the North Wells Park Pond. The pond outfall pipe is a 36" RCP storm drain south on 5th St. to Mountain, then east to 3rd St. where it joins the existing storm drain. The storm drain between Constitution and Mountain along 3rd St was deleted to direct flows to the North Wells Park Pond. The significant option components are summarized in **Table 6-1 (Summary of Model Filenames and Components)**.

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Options 12

DELETE EAST/WEST BOX BONDS

- WIFE SUMM 48 TO 84" @ 156 L.F.
TO SIMULATE 2 LIPS UNDERGROUND

DESCRIPTION

NOTE	LEGEND
ANNOTATED ON	 FLOOD DEPTH ≥ 1
EXISTING	 FLOOD DEPTH bet 0.51 -
CONDITIONS	 FLOOD DEPTH bet 0 - 0.5
100 YR - 24HR	 No Flood
RESULTS	

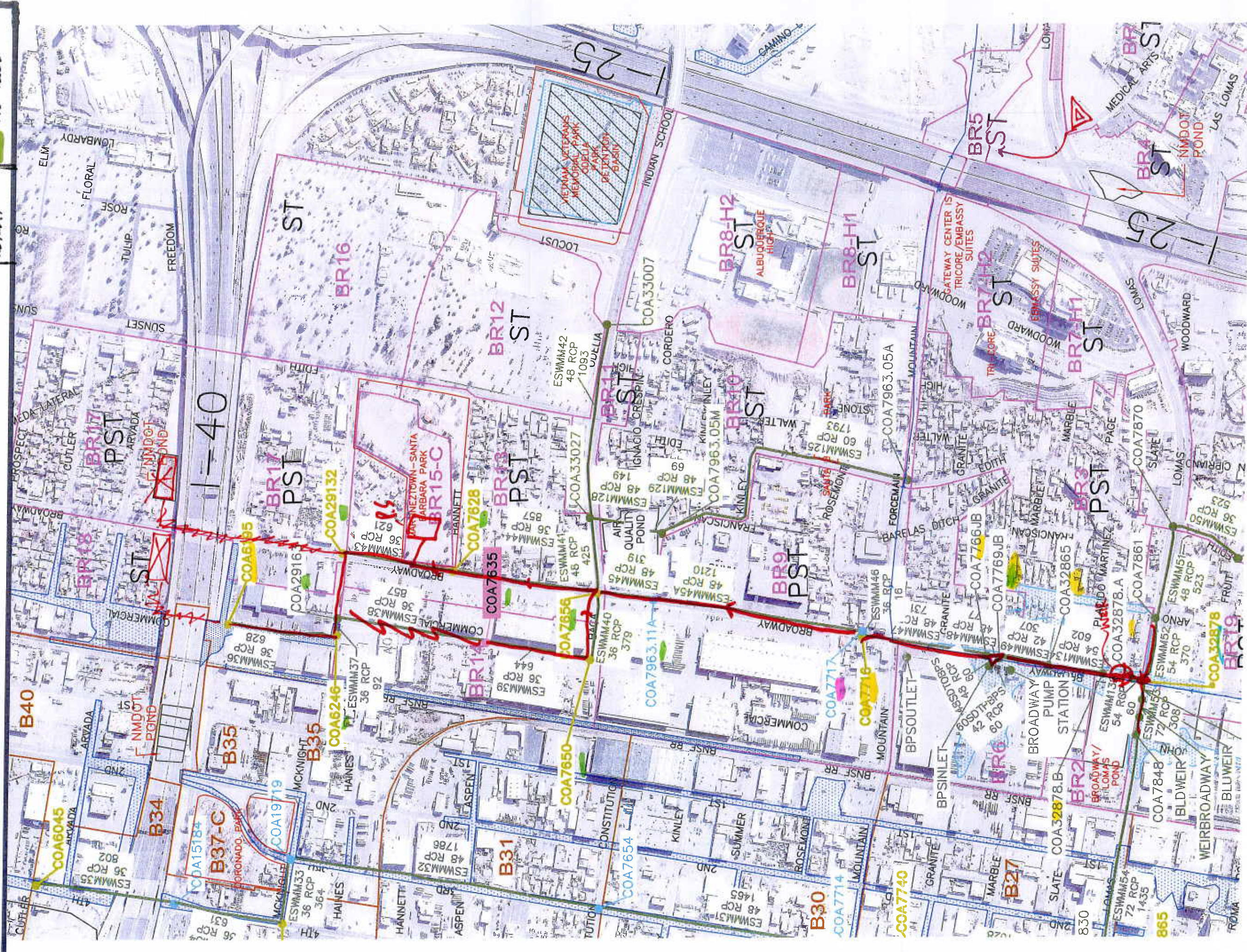


TABLE 6-22
SUMMARY OF OPTION 13 STREET PONDING AND MAN-HOLE FLOODING

Note- negative numbers imply that the HGL did not reach the manhole rim

Represents flooding depth over 1 ft

Represents flooding between 0.5ft - 0.99 ft

Represents flooding depth between 0 - 0.5 ft

MH Name	Manhole Invert Elev.	Max. Depth of Manhole	Manhole Rim Elev.	Maximum HGL	Node Flood Depth Above Manhole Rim	Flood Volume	Flood Volume	Hours Flooded
	(ft)	(ft)	(ft)	(ft)	(ft)	(10 ⁶ gal)	(acre-ft)	
	(a)	(a)	(b)	(c)	(d)	(e)	(f)	
COA6045	4957.51	7.82	4965.33	4965.34	0.01	0.277	0.850	2.42
COA15184	4954.19	10.04	4964.23	4964.43	0.2	0.768	2.357	3.61
COA6218	4953.66	9.34	4963	4963.43	0.43	0.89	2.731	4.04
COA7717	4951.23	7.5	4958.73	4960.76	2.03	0.42	1.289	3.63
COA19719	4952.3	9.98	4962.28	4963.06	0.78	1.181	3.624	4.49
COA7654	4951.67	8.59	4960.26	4960.28	0.02	0.073	0.224	0.58
COA25349	4945.26	11.07	4956.33	4956.34	0.01	0.085	0.261	0.2
COA25656	4948.86	10.32	4959.18	4959.33	0.15	0.246	0.755	1.9
COA25622	4948.24	9.58	4957.82	4957.84	0.02	0.075	0.230	0.94
COA7476	4950.32	7.85	4958.17	4958.32	0.15	0.232	0.712	1.49
COA7518	4947.94	8.89	4956.83	4957	0.17	0.23	0.706	1.66
COA24834	4944.52	7.06	4951.58	4951.93	0.35	1.587	4.870	4.01
COA25105	4946.31	10.2	4956.51	4956.52	0.01	0.037	0.114	0.36
COA25117	4945.26	11.29	4956.55	4956.56	0.01	0.009	0.028	0.09
COA7716	4948.88	9.23	4958.11	4958.12	0.01	0.001	0.003	0.01
COA7769JB	4944.52	11.81	4956.33	4957.76	1.43		0.000	
COA32865	4945.49	11.62	4957.11	4957.13	0.02	0.002	0.006	0.03
COA32878	4946.6	9.16	4955.76	4955.89	0.13	0.063	0.193	0.35
COA7848	4947.67	8.71	4956.38	4956.39	0.01	0.019	0.058	0.09
COA25109	4945.87	10.67	4956.54	4956.55	0.01	0.026	0.080	0.2
COA7963.11A	4948.2	12.95	4961.15	4961.17	0.02		0.000	
COA9229	4913.15	27	4940.15	4940.45	0.3	0.025	0.077	0.52
1F.H.MH1	4951.5	8	4959.5	4959.54	0.04	0	0.000	0.01

(a) Manhole invert elevation from SWMM input under Node Summary Table
 (b) Rim elevation = MH invert elevation + Max depth of manhole
 (c) Max HGL from SWMM output table under Node Depth Summary
 (d) Node Flood Depth above Manhole Rim = HGL Elev-Rim Elev
 (e) Flood volume from SWMM output table under Node Flooding Summary
 (f) 1 gallon = 3.06888 E-6 acre-ft

EPA STORM WATER MANAGEMENT MODEL - VERSION 5.0 (Build 5.0.022)

COA Mid Valley Existing Conditions SWMM 5.0.022 Model
Results Printed on August 24, 2011

NOTE: The summary statistics displayed in this report are
based on results found at every computational time step,
not just on results from each reporting time step.

Analysis Options

Flow Units CFS
Process Models:
 Rainfall/Runoff YES
 Snowmelt NO
 Groundwater NO
 Flow Routing YES
 Ponding Allowed YES
 Water Quality NO
Infiltration Method CURVE NUMBER
Flow Routing Method DYNWAVE
Starting Date JUL-01-2011 00:00:00
Ending Date JUL-06-2011 23:00:00
Antecedent Dry Days 0.0
Report Time Step 00:00:15
Wet Time Step 00:00:15
Dry Time Step 00:00:15
Routing Time Step 1.00 sec

WARNING 04: minimum elevation drop used for Conduit WEIRPIPE

Element Count

Number of rain gages 1
Number of subcatchments ... 70
Number of nodes 134
Number of links 136
Number of pollutants 0
Number of land uses 0

Raingage Summary

Name	Data Source	Data Type	Recording Interval
Gage1	Rain100hr24hr	CUMULATIVE	3 min.

Subcatchment Summary

Name	Area	Width	%Imperv	%Slope	Rain Gage	Outlet
A1	32.38	400.00	60.00	0.0800	Gage1	COA24916
A10	50.08	400.00	56.00	0.1351	Gage1	COA25048
A11	36.32	400.00	67.00	0.2105	Gage1	COA7518
A12	107.39	400.00	53.00	0.0702	Gage1	COA25656
A13	123.40	400.00	70.00	0.1177	Gage1	COA24834
A15	46.43	400.00	70.00	0.1835	Gage1	COA7444
A18	42.12	400.00	54.00	0.1802	Gage1	COA7476
A2	11.08	400.00	55.00	0.0000	Gage1	COA9083
A3	88.49	400.00	40.00	0.2000	Gage1	COA9069
A4	12.42	400.00	50.00	0.1071	Gage1	COA24859

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A5	78.59	400.00	55.00	0.1563	Gage1	COA9045
A6	47.22	400.00	42.00	0.1277	Gage1	COA8985
A7	38.26	400.00	52.00	0.1667	Gage1	COA25034
A8	22.07	400.00	57.00	0.2778	Gage1	COA25105
A9	29.10	400.00	58.00	0.2128	Gage1	COA25622
B1	40.10	400.00	67.00	0.2778	Gage1	COA22127
B10	13.89	400.00	64.00	0.1905	Gage1	COA22155
B11	12.41	400.00	19.00	0.9091	Gage1	TINGLEYPARKSURGEPOND
B12	9.50	400.00	70.00	0.1852	Gage1	COA9407
B13	20.03	400.00	61.00	0.1942	Gage1	COA13866
B14	28.24	400.00	85.00	0.3889	Gage1	COA22429
B15	41.75	400.00	90.00	0.1523	Gage1	COA9344
B16	29.92	400.00	86.00	0.2308	Gage1	COA9348
B17	17.56	400.00	90.00	0.0000	Gage1	COA9310
B18	13.98	400.00	98.00	0.0000	Gage1	COA9310
B20	16.96	400.00	85.00	0.2500	Gage1	COA22517
B21	30.91	400.00	70.00	0.3571	Gage1	COA24930
B22	33.42	400.00	70.00	0.1482	Gage1	COA9260
B23	9.35	400.00	99.00	0.1111	Gage1	COA9260
B24	18.44	400.00	90.00	0.0000	Gage1	COA22584
B25	39.65	400.00	96.00	0.1290	Gage1	COA7865
B26	59.34	400.00	75.00	0.0000	Gage1	COA25253
B27	51.52	400.00	88.00	0.1299	Gage1	COA7740
B28	64.91	400.00	70.00	0.1072	Gage1	COA7816
B29	105.31	400.00	65.00	0.1127	Gage1	COA25349
B3	5.08	400.00	64.00	0.1754	Gage1	COA9141
B30	51.79	400.00	82.00	0.1379	Gage1	NORTHWELLS PARK
B31	43.60	400.00	85.00	0.1149	Gage1	COA7654
B32	39.96	400.00	72.00	0.1709	Gage1	COA7638
B33	51.09	400.00	68.00	0.1010	Gage1	COA6231
B34	53.33	400.00	76.00	0.2010	Gage1	COA15184
B35	32.09	400.00	82.00	0.4008	Gage1	COA19719
B36	25.33	400.00	77.00	0.3150	Gage1	COA6045
B4	5.98	400.00	47.00	0.1205	Gage1	COA22174
B40	36.44	400.00	84.00	0.8037	Gage1	COA19719
B41	24.82	400.00	94.00	0.5333	Gage1	COA6149
B5	65.56	400.00	68.00	0.1553	Gage1	COA22169
B6	7.04	400.00	65.00	0.0917	Gage1	COA9431
B7	11.54	400.00	56.00	0.3529	Gage1	COA9426
B8	23.57	400.00	64.00	0.1478	Gage1	MHB22410
BR1	28.93	400.00	75.00	3.8667	Gage1	COA29178
BR10	36.43	400.00	31.00	5.1034	Gage1	COA7963.05M
BR11	9.74	400.00	65.00	4.5106	Gage1	COA33027
BR12	22.29	400.00	10.00	4.7826	Gage1	INLETS.B.PS
BR13	29.14	400.00	70.00	1.6667	Gage1	COA7656
BR14	19.80	400.00	89.00	0.4000	Gage1	COA7635
BR16	25.89	400.00	13.00	3.1858	Gage1	INLETS.B.PS
BR17	49.17	400.00	59.00	1.4286	Gage1	COA29132
BR18	33.13	400.00	75.00	1.4000	Gage1	COA6195
BR19	26.21	400.00	75.00	1.0370	Gage1	COA32878
BR2	5.67	400.00	50.00	0.5405	Gage1	COA32878.A
BR20	24.15	400.00	90.00	0.2222	Gage1	COA7848
BR21	23.81	400.00	80.00	3.2594	Gage1	BR21POND
BR3	37.23	400.00	66.00	2.3529	Gage1	COA32865
BR4	39.56	400.00	75.00	3.0586	Gage1	COA7870
BR5	10.73	400.00	59.00	4.1071	Gage1	COA7963.05A
BR6	28.63	400.00	82.00	0.6154	Gage1	COA7766JB
BR9	55.23	400.00	86.00	0.2353	Gage1	COA7717
B19.1	15.30	400.00	85.00	2.6286	Gage1	COA9152
B19.2	12.03	400.00	85.00	2.7942	Gage1	COA9248

Node Summary

Name	Type	Invert Elev.	Max. Depth	Ponded Area	External Inflow
COA6149	JUNCTION	4956.51	6.87	130067.0	
COA6231	JUNCTION	4955.06	7.45	130067.0	
COA6045	JUNCTION	4957.51	7.82	309545.0	
COA15184	JUNCTION	4954.19	10.04	224607.0	

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COA6218	JUNCTION	4953.66	9.34	224607.0	
COA6195	JUNCTION	4962.97	6.74	79450.0	
COA6246	JUNCTION	4962.06	7.85	79450.0	
COA29163	JUNCTION	4962.01	8.38	79450.0	
COA7635	JUNCTION	4957.34	7.29	27461.0	
COA7650	JUNCTION	4954.93	8.35	27461.0	
COA7656	JUNCTION	4947.40	15.22	13559.0	
COA7628	JUNCTION	4945.32	26.15	13559.0	
COA29132	JUNCTION	4961.85	14.23	18581.0	
COA33027	JUNCTION	4957.15	8.20	0.0	
COA33007	JUNCTION	4994.87	10.60	0.0	Yes
COA7717	JUNCTION	4951.23	7.50	21893.0	
COA19719	JUNCTION	4952.30	9.98	188061.0	
COA7654	JUNCTION	4951.67	8.59	228852.0	
COA7714	JUNCTION	4950.14	7.86	98694.3	
COA6259	JUNCTION	4953.72	10.36	64850.0	
COA7638	JUNCTION	4952.62	8.10	64850.0	
COA25807	JUNCTION	4953.18	7.28	64850.0	
COA25349	JUNCTION	4945.26	11.07	166821.0	
COA25656	JUNCTION	4948.86	10.32	197750.0	
COA25677	JUNCTION	4948.59	10.97	197750.0	
COA25622	JUNCTION	4948.24	9.58	159436.0	
COA7444	JUNCTION	4952.87	7.72	292160.0	Yes
COA7476	JUNCTION	4950.32	7.85	181489.0	
COA7518	JUNCTION	4947.94	8.89	167547.7	
COA24834	JUNCTION	4944.52	7.06	612333.2	
COA8985	JUNCTION	4940.76	11.38	241168.0	
COA24859	JUNCTION	4938.64	12.00	25798.0	
COA9015	JUNCTION	4942.91	8.45	25798.0	
COA25105	JUNCTION	4946.31	10.20	50544.0	
COA25117	JUNCTION	4945.26	11.29	50544.0	
COA25048	JUNCTION	4944.92	11.36	401053.0	
COA25034	JUNCTION	4943.82	10.70	171143.0	
COA9045	JUNCTION	4941.61	8.65	171143.0	
COA25352	JUNCTION	4945.06	11.31	166821.0	
COA7815	JUNCTION	4943.48	13.40	166821.0	
COA25253	JUNCTION	4941.66	12.95	84189.0	
COA7977	JUNCTION	4941.94	13.08	84189.0	
COA25238	JUNCTION	4941.20	13.47	84189.0	
COA25240	JUNCTION	4941.15	13.87	84189.0	
COA22584	JUNCTION	4940.18	14.49	117610.0	
COA9260	JUNCTION	4938.02	14.78	208149.0	
COA7740	JUNCTION	4949.69	8.25	166203.0	
COA7830	JUNCTION	4944.87	12.00	166203.0	
COA7865	JUNCTION	4946.34	10.46	45527.0	
COA7908	JUNCTION	4946.15	10.00	45527.0	
COA7912	JUNCTION	4945.61	10.68	45527.0	
COA7955	JUNCTION	4943.49	12.00	45527.0	
COA22517	JUNCTION	4943.59	11.00	97896.0	
COA7716	JUNCTION	4948.88	9.23	21893.0	
COA7766JB	JUNCTION	4943.95	12.33	40457.3	
COA7769JB	JUNCTION	4944.52	11.81	0.0	
COA32865	JUNCTION	4945.49	11.62	21867.0	
COA32878	JUNCTION	4946.60	9.16	26441.0	
COA7848	JUNCTION	4947.67	8.71	75622.0	
COA7861	JUNCTION	4947.76	10.18	0.0	
COA7870	JUNCTION	4957.75	12.84	0.0	Yes
COA29178	JUNCTION	4956.78	9.45	0.0	
COA7816	JUNCTION	4944.19	13.17	362909.0	
COA25109	JUNCTION	4945.87	10.67	50544.0	
BPSINLET	JUNCTION	4938.89	21.00	0.0	
COA9310	JUNCTION	4942.40	11.55	187810.0	
COA9348	JUNCTION	4939.63	11.79	195274.4	
COA9344	JUNCTION	4935.83	15.71	94192.0	
COA9340	JUNCTION	4935.64	16.65	94192.0	
COA22250	JUNCTION	4937.56	13.58	94192.0	
COA22429	JUNCTION	4937.26	13.07	183374.0	
COA13866	JUNCTION	4935.36	12.08	73420.0	
COA24930	JUNCTION	4937.17	11.05	174484.0	
COA24916	JUNCTION	4938.25	10.36	85713.0	
COA9248	JUNCTION	4947.65	10.07	11689.0	
COA32981	JUNCTION	4931.39	17.86	18760.0	

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COA9121	JUNCTION	4931.16	17.50	33447.0	
COA24902	JUNCTION	4939.07	10.00	85713.0	
COA24902A	JUNCTION	4939.73	8.82	140992.0	
COA9069	JUNCTION	4940.85	8.80	140992.0	
COA24997	JUNCTION	4936.14	13.35	140992.0	
COA9083	JUNCTION	4935.33	12.62	0.0	
UPSINLET	JUNCTION	4930.49	28.66	0.0	
COA9407	JUNCTION	4944.40	6.42	79526.0	
COA9426	JUNCTION	4943.03	6.39	22812.0	
COA22194	JUNCTION	4942.00	7.04	22812.0	
COA22191	JUNCTION	4940.79	8.13	22812.0	
COA9431	JUNCTION	4939.27	9.59	22229.0	
COA22176	JUNCTION	4938.45	10.72	22229.0	
COA22168	JUNCTION	4936.56	9.92	117391.0	
COA22174	JUNCTION	4928.49	16.58	35030.0	
COA22155	JUNCTION	4928.35	16.89	33447.0	
COA9141	JUNCTION	4928.21	17.88	20203.1	
COA22410	JUNCTION	4928.36	18.75	45178.0	
COA9129	JUNCTION	4930.24	16.01	45178.0	
COA9143	JUNCTION	4927.28	20.70	0.0	
COA22144	JUNCTION	4924.79	22.45	0.0	
COA22145	JUNCTION	4925.85	24.38	0.0	
COA22143	JUNCTION	4923.99	22.50	0.0	
COA10456	JUNCTION	4922.76	20.45	0.0	
COA10457	JUNCTION	4907.13	14.88	0.0	
COA7963.05A	JUNCTION	4971.98	7.11	0.0	Yes
COA7963.05M	JUNCTION	4952.69	10.31	0.0	
COA7963.11A	JUNCTION	4948.20	12.95	21893.0	
COA7963.T	JUNCTION	4932.21	9.25	0.0	
COA32878.A	JUNCTION	4946.50	9.08	21867.0	
COA32878.B	JUNCTION	4946.27	9.58	21867.0	
APSINLET	JUNCTION	4929.66	14.10	0.0	
IRON14TH	JUNCTION	4939.07	10.00	0.0	
BLDWEIR	JUNCTION	4946.60	9.16	0.0	
BLUWEIR	JUNCTION	4946.60	9.16	0.0	
COA22169	JUNCTION	4939.35	6.75	117391.0	
COA22127	JUNCTION	4937.86	7.66	226362.0	
COA32823	JUNCTION	4933.09	27.00	0.0	
COA9453	JUNCTION	4939.07	7.51	117391.0	
MHB22410	JUNCTION	4928.42	18.75	90355.0	
COA9152	JUNCTION	4929.67	27.00	0.0	
COA9229	JUNCTION	4913.15	27.00	8870.0	
MHB19A	JUNCTION	4933.00	27.00	0.0	
1F.E.MHA	JUNCTION	4961.50	14.21	13559.0	
INLETS.B.PS	JUNCTION	4945.07	26.93	13559.0	
1F.H.MH1	JUNCTION	4951.50	8.00	98694.3	
1F.H.MH2	JUNCTION	4950.50	8.00	98694.3	
WNODE1	JUNCTION	4946.50	9.08	0.0	
WNODE2	JUNCTION	4946.50	9.08	0.0	
APSOUTLET	OUTFALL	4960.84	0.00	0.0	
BPSOUTLET	OUTFALL	5106.00	0.00	0.0	
BaPSOUTLET	OUTFALL	4941.69	0.00	0.0	
OUT1	OUTFALL	5061.00	0.00	0.0	
OUTLET.S.B.P.S	OUTFALL	4972.00	0.00	0.0	
AIRQUALITYPOND	STORAGE	4952.26	12.40	0.0	
TINGLEYPARKSURGEPOND	STORAGE	4932.21	16.45	0.0	
BR21POND	STORAGE	5062.00	14.00	0.0	
NORTHWELLS PARK	STORAGE	4951.00	9.00	0.0	

Link Summary

Name	From Node	To Node	Type	Length	%Slope	Roughness
ESWMM57	COA6149	COA6231	CONDUIT	733.0	0.1378	0.0140
1F.H.SWMM8	COA6045	COA15184	CONDUIT	802.0	0.3915	0.0140
1F.H.SWMM9	COA15184	COA6218	CONDUIT	622.0	0.0096	0.0140
1F.DSWMM1	COA6195	COA6246	CONDUIT	636.0	0.1431	0.0140
1F.D.SWMM2	COA6246	COA29163	CONDUIT	120.0	0.2917	0.0140
1F.D.SWMM4	COA7635	COA7650	CONDUIT	613.0	0.3932	0.0140
1F.D.SWMM5	COA7650	COA7656	CONDUIT	386.0	0.1373	0.0140

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ESWMM41	COA33027	COA7656	CONDUIT	416.0	0.1803	0.0140
ESWMM42	COA33007	COA33027	CONDUIT	1096.0	3.4235	0.0140
1F.H.SWMM10	COA6218	COA19719	CONDUIT	369.0	0.1463	0.0140
ESWMM32	COA19719	COA7654	CONDUIT	1795.0	0.0713	0.0140
ESWMM58	COA6231	COA6259	CONDUIT	298.0	0.2349	0.0140
ESWMM59	COA6259	COA7638	CONDUIT	930.0	0.1183	0.0140
ESWMM60	COA25807	COA7638	CONDUIT	310.0	0.1806	0.0140
ESWMM91	COA25656	COA25677	CONDUIT	670.0	0.0403	0.0140
ESWMM92	COA25677	COA25622	CONDUIT	914.0	0.0306	0.0140
1F.H.SWMM1	COA7444	COA7476	CONDUIT	1361.0	0.1925	0.0140
1F.H.SWMM2	COA7476	COA7518	CONDUIT	895.0	0.2547	0.0140
1F.H.SWMM3	COA7518	COA24834	CONDUIT	1804.0	0.0815	0.0140
1F.H.SWMM4	COA24834	COA8985	CONDUIT	1437.0	0.1621	0.0140
ESWMM5	COA8985	COA24859	CONDUIT	442.0	0.4344	0.0140
ESWMM6	COA24859	COA9015	CONDUIT	670.0	0.0343	0.0140
ESWMM93	COA25622	COA25105	CONDUIT	752.0	0.2354	0.0140
ESWMM94	COA25105	COA25109	CONDUIT	280.0	0.1571	0.0140
ESWMM96	COA25117	COA25048	CONDUIT	342.0	0.0848	0.0140
ESWMM97	COA25048	COA25034	CONDUIT	747.0	0.1473	0.0140
ESWMM98	COA25034	COA9045	CONDUIT	1976.0	0.1088	0.0140
ESWMM61	COA25807	COA25349	CONDUIT	2789.0	0.2840	0.0140
ESWMM62	COA25349	COA25352	CONDUIT	60.0	0.3333	0.0140
ESWMM63	COA25352	COA7815	CONDUIT	305.0	0.3639	0.0140
ESWMM64	COA7815	COA25253	CONDUIT	1481.0	0.1229	0.0140
ESWMM65	COA7977	COA25253	CONDUIT	20.0	1.4001	0.0140
ESWMM66	COA7977	COA25238	CONDUIT	137.0	0.3723	0.0140
ESWMM67	COA25238	COA25240	CONDUIT	23.0	0.2174	0.0140
ESWMM68	COA25240	COA22584	CONDUIT	490.0	0.2612	0.0140
ESWMM69	COA22584	COA9260	CONDUIT	560.0	0.2268	0.0140
ESWMM30	COA7714	COA7740	CONDUIT	405.0	0.1111	0.0140
ESWMM29	COA7740	COA7830	CONDUIT	1028.0	0.1566	0.0140
ESWMM28	COA7830	COA7865	CONDUIT	391.0	0.1611	0.0140
ESWMM27	COA7865	COA7908	CONDUIT	355.0	0.0535	0.0140
ESWMM26	COA7912	COA7908	CONDUIT	13.0	5.2379	0.0140
ESWMM25	COA7912	COA7955	CONDUIT	360.0	0.1083	0.0140
ESWMM24	COA7955	COA22517	CONDUIT	968.0	0.1333	0.0140
ESWMM50	COA7870	COA29178	CONDUIT	441.0	0.1020	0.0140
ESWMM51	COA7870	COA7861	CONDUIT	517.0	1.8901	0.0140
ESWMM52	COA7861	COA32878	CONDUIT	350.0	0.2743	0.0140
BLUPIPE	COA32878	BLUWEIR	CONDUIT	300.0	0.0067	0.0140
ESWMM47	COA7716	COA7766JB	CONDUIT	725.0	0.6800	0.0140
ESWMM48	COA7769JB	COA7766JB	CONDUIT	156.0	0.3654	0.0140
ESWMM54	COA7848	COA7830	CONDUIT	1435.0	0.1951	0.0140
ESWMM55	COA7830	COA7816	CONDUIT	1092.0	0.0778	0.0140
ESWMM56	COA7816	COA7815	CONDUIT	739.0	0.0825	0.0140
ESWMM95	COA25109	COA25117	CONDUIT	389.0	0.1517	0.0140
48SDTOBPS	COA7766JB	BPSINLET	CONDUIT	60.0	0.1000	0.0140
ESWMM23	COA9248	COA22517	CONDUIT	821.0	0.4592	0.0140
ESWMM22	COA22517	COA9310	CONDUIT	1089.0	0.1093	0.0140
ESWMM21	COA9310	COA9348	CONDUIT	1101.0	0.2516	0.0140
ESWMM20	COA9348	COA9344	CONDUIT	373.0	0.1287	0.0140
ESWMM19	COA9344	COA9340	CONDUIT	375.0	0.1493	0.0140
ESWMM18	COA9340	COA22250	CONDUIT	346.0	0.1532	0.0140
ESWMM17	COA22250	COA22429	CONDUIT	366.0	0.0820	0.0140
ESWMM16	COA22429	COA13866	CONDUIT	361.0	0.4017	0.0140
ESWMM70	COA9260	COA13866	CONDUIT	1622.0	0.1178	0.0140
ESWMM15	COA24930	COA13866	CONDUIT	713.0	0.0898	0.0140
ESWMM71	COA13866	COA7963.T	CONDUIT	1026.0	0.3070	0.0140
ESWMM72	COA32981	COA9121	CONDUIT	80.0	0.2875	0.0140
ESWMM7	COA9015	COA9069	CONDUIT	1428.0	0.1366	0.0140
ESWMM12	COA24902	COA24902A	CONDUIT	479.0	0.0271	0.0140
ESWMM9	COA9069	COA24902A	CONDUIT	514.0	0.2218	0.0140
ESWMM99	COA9045	COA24902	CONDUIT	740.0	0.1649	0.0140
ESWMM8	COA9069	COA24997	CONDUIT	19.0	4.5838	0.0140
ESWMM10	COA24997	COA9083	CONDUIT	384.0	0.2109	0.0140
ESWMM11	COA24902A	COA9083	CONDUIT	376.0	1.2474	0.0140
ESWMM90	COA9407	COA9426	CONDUIT	393.0	0.3384	0.0140
ESWMM89	COA9426	COA22194	CONDUIT	356.0	0.2865	0.0140
ESWMM88	COA22194	COA22191	CONDUIT	296.0	0.4088	0.0140
ESWMM87	COA22191	COA9431	CONDUIT	328.0	0.4634	0.0140
ESWMM86	COA9431	COA22176	CONDUIT	172.0	0.5523	0.0140
ESWMM85	COA22176	COA22168	CONDUIT	612.0	0.3088	0.0140

ESWMM84	COA22168	COA22174	CONDUIT	337.0	2.3953	0.0140
ESWMM83	COA22174	COA22155	CONDUIT	386.0	0.0363	0.0140
ESWMM82	COA22155	COA9141	CONDUIT	510.0	0.0275	0.0240
ESWMM73	COA9121	COA9129	CONDUIT	327.0	0.2813	0.0240
ESWMM76	COA9141	COA9143	CONDUIT	210.0	0.4429	0.0240
ESWMM77	COA9143	COA22145	CONDUIT	377.0	0.3793	0.0240
ESWMM78	COA22145	COA22144	CONDUIT	370.0	0.2865	0.0240
ESWMM79	COA22144	COA22143	CONDUIT	202.0	0.3960	0.0240
ESWMM80	COA22143	COA10456	CONDUIT	301.0	0.4086	0.0240
ESWMM81	COA10456	COA10457	CONDUIT	243.0	6.4454	0.0240
ESWMM14	COA24916	COA24930	CONDUIT	717.0	0.1325	0.0140
ESWMM13	IRON14TH	COA24916	CONDUIT	659.0	0.1199	0.0140
ESWMM125	COA7963.05A	COA7963.05M	CONDUIT	1793.0	1.0759	0.0140
ESWMM71A	COA7963.T	COA32981	CONDUIT	149.0	0.5503	0.0140
ESWMM126	TINGLEYPARKSURGE	POND	CONDUIT	50.0	0.0040	0.0140
ESWMM127	AIRQUALITYPOND	COA7963.11A	CONDUIT	240.0	0.0250	0.0140
ESWMM128	COA33027	AIRQUALITYPOND	CONDUIT	149.0	3.2836	0.0140
ESWMM129	COA7963.05M	AIRQUALITYPOND	CONDUIT	69.0	0.6232	0.0140
60SDTOBPS	COA7769JB	BPSINLET	CONDUIT	60.0	0.8834	0.0140
ESWMM134	COA32878.B	COA7769JB	CONDUIT	595.0	0.2941	0.0140
ESWMM135	COA9083	APSINLET	CONDUIT	150.7	0.0730	0.0140
ESWMM53	COA7848	BLDWEIR	CONDUIT	308.0	0.3474	0.0140
ESWMM75	COA22410	COA9141	CONDUIT	100.0	0.1500	0.0240
1F.H.SWMM5	COA22169	COA9453	CONDUIT	194.0	0.1443	0.0140
1F.H.SWMM6	COA9453	COA22127	CONDUIT	870.0	0.1486	0.0140
1F.H.SWMM7	COA22127	COA10456	CONDUIT	1157.0	0.5272	0.0140
ESWMM201	COA9229	COA32823	CONDUIT	230.0	0.0261	0.0140
ESWMM203	COA32823	UPSINLET	CONDUIT	103.0	2.5251	0.0140
ESWMM200	COA9152	COA9229	CONDUIT	1665.0	0.0913	0.0140
ESWMM202	COA32823	MHB19A	CONDUIT	426.0	0.0211	0.0140
ESWMM500	COA24859	COA24997	CONDUIT	2116.0	0.1181	0.0140
ESWMM74	COA9129	MHB22410	CONDUIT	501.0	0.3633	0.0240
ESWMM74A	MHB22410	COA22410	CONDUIT	24.0	0.2500	0.0240
1F.E.SWMM1	COA29163	COA29132	CONDUIT	400.0	0.0400	0.0140
1F.E.SWMM2	COA29132	1F.E.MHA	CONDUIT	300.0	0.1167	0.0140
1F.H.SWMM11	COA7654	1F.H.MH1	CONDUIT	500.0	0.0340	0.0140
1F.H.SWMM12	1F.H.MH1	NORTHWELLSPARK	CONDUIT	100.0	0.5000	0.0100
1F.H.SWMM13	NORTHWELLSPARK	1F.H.MH2	CONDUIT	100.0	0.5000	0.0140
1F.H.SWMM14	1F.H.MH2	COA7714	CONDUIT	757.0	0.0476	0.0140
1F.J.SWMM3	1F.E.MHA	INLETS.B.PS	CONDUIT	150.0	0.2867	0.0140
1F.K.SWMM2	COA7717	COA7963.11A	CONDUIT	1213.0	0.2498	0.0140
IFE.SWMM5	COA7628	INLETS.B.PS	CONDUIT	224.0	0.0446	0.0140
1F.K.SWMM3	COA7963.11A	COA7656	CONDUIT	319.0	0.2508	0.0140
1F.K.SWMM4	COA7656	COA7628	CONDUIT	831.0	0.2503	0.0140
1F.L.SWMM5	COA32865	COA7769JB	CONDUIT	307.0	0.3160	0.0140
1F.L.SWMM4	COA32878.A	COA32878.B	CONDUIT	100.0	0.2300	0.0140
1FLSWMM1	COA32878	WNODE2	CONDUIT	60.0	0.1667	0.0140
WEIRPIPE	COA32878.A	WNODE1	CONDUIT	60.0	0.0017	0.0140
BROADWAYPUMPSTATION	BPSINLET	BPSOUTLET	TYPE4 PUMP			
ALCALDEPUMPSTATION	APSINLET	APSOUTLET	TYPE4 PUMP			
URBANPUMPSTATION	UPSINLET	COA9248	TYPE4 PUMP			
BARELASPUMPSTATION	COA10457	BaPSOUTLET	TYPE4 PUMP			
S.B.PS	INLETS.B.PS	OUTLET.S.B.P.S	TYPE4 PUMP			
WEIRIRON14TH	IRON14TH	COA24902	WEIR			
WEIRBROADWAY	BLUWEIR	BLDWEIR	WEIR			
NEWWEIR	WNODE1	WNODE2	WEIR			
OUTLET	BR21POND	OUT1	OUTLET			

Cross Section Summary

Conduit	Shape	Full Depth	Full Area	Hyd. Rad.	Max. Width	No. of Barrels	Full Flow
ESWMM57	CIRCULAR	3.50	9.62	0.88	3.50	1	34.68
1F.H.SWMM8	CIRCULAR	4.00	12.57	1.00	4.00	1	83.46
1F.H.SWMM9	CIRCULAR	4.00	12.57	1.00	4.00	1	13.10
1F.DSWMM1	CIRCULAR	4.00	12.57	1.00	4.00	1	50.45
1F.D.SWMM2	CIRCULAR	4.00	12.57	1.00	4.00	1	72.04
1F.D.SWMM4	CIRCULAR	4.00	12.57	1.00	4.00	1	83.63
1F.D.SWMM5	CIRCULAR	4.00	12.57	1.00	4.00	1	49.42

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ESWMM41	CIRCULAR	2.00	3.14	0.50	2.00	1	8.92
ESWMM42	CIRCULAR	4.00	12.57	1.00	4.00	1	246.80
1F.H.SWMM10	CIRCULAR	4.00	12.57	1.00	4.00	1	51.03
ESWMM32	CIRCULAR	4.00	12.57	1.00	4.00	1	35.62
ESWMM58	CIRCULAR	4.00	12.57	1.00	4.00	1	64.65
ESWMM59	CIRCULAR	4.50	15.90	1.13	4.50	1	62.80
ESWMM60	CIRCULAR	4.50	15.90	1.13	4.50	1	77.61
ESWMM91	CIRCULAR	3.00	7.07	0.75	3.00	1	12.43
ESWMM92	CIRCULAR	3.00	7.07	0.75	3.00	1	10.84
1F.H.SWMM1	CIRCULAR	4.00	12.57	1.00	4.00	1	58.52
1F.H.SWMM2	CIRCULAR	4.00	12.57	1.00	4.00	1	67.32
1F.H.SWMM3	CIRCULAR	4.00	12.57	1.00	4.00	1	38.08
1F.H.SWMM4	CIRCULAR	4.00	12.57	1.00	4.00	1	53.71
ESWMM5	CIRCULAR	4.00	12.57	1.00	4.00	1	87.91
ESWMM6	CIRCULAR	3.00	7.07	0.75	3.00	1	11.48
ESWMM93	CIRCULAR	3.00	7.07	0.75	3.00	1	30.05
ESWMM94	CIRCULAR	4.00	12.57	1.00	4.00	1	52.87
ESWMM96	CIRCULAR	4.00	12.57	1.00	4.00	1	38.84
ESWMM97	CIRCULAR	5.00	19.63	1.25	5.00	1	92.80
ESWMM98	CIRCULAR	5.00	19.63	1.25	5.00	1	79.77
ESWMM61	CIRCULAR	5.50	23.76	1.38	5.50	1	166.17
ESWMM62	CIRCULAR	5.50	23.76	1.38	5.50	1	180.03
ESWMM63	CIRCULAR	5.50	23.76	1.38	5.50	1	188.11
ESWMM64	CIRCULAR	6.00	28.27	1.50	6.00	1	137.86
ESWMM65	CIRCULAR	6.00	28.27	1.50	6.00	1	465.33
ESWMM66	CIRCULAR	6.00	28.27	1.50	6.00	1	239.94
ESWMM67	CIRCULAR	6.00	28.27	1.50	6.00	1	183.36
ESWMM68	CIRCULAR	6.00	28.27	1.50	6.00	1	200.99
ESWMM69	CIRCULAR	6.00	28.27	1.50	6.00	1	187.28
ESWMM30	CIRCULAR	4.00	12.57	1.00	4.00	1	44.46
ESWMM29	CIRCULAR	4.50	15.90	1.13	4.50	1	72.26
ESWMM28	CIRCULAR	4.50	15.90	1.13	4.50	1	73.30
ESWMM27	CIRCULAR	5.00	19.63	1.25	5.00	1	55.95
ESWMM26	CIRCULAR	5.00	19.63	1.25	5.00	1	553.49
ESWMM25	CIRCULAR	5.00	19.63	1.25	5.00	1	79.60
ESWMM24	CIRCULAR	5.50	23.76	1.38	5.50	1	113.83
ESWMM50	CIRCULAR	3.00	7.07	0.75	3.00	1	19.78
ESWMM51	CIRCULAR	4.00	12.57	1.00	4.00	1	183.38
ESWMM52	CIRCULAR	4.50	15.90	1.13	4.50	1	95.63
BLUPIPE	CIRCULAR	6.00	28.27	1.50	6.00	1	32.11
ESWMM47	CIRCULAR	4.00	12.57	1.00	4.00	2	109.99
ESWMM48	CIRCULAR	7.00	38.48	1.75	7.00	1	358.57
ESWMM54	CIRCULAR	6.00	28.27	1.50	6.00	1	173.71
ESWMM55	CIRCULAR	6.00	28.27	1.50	6.00	1	109.72
ESWMM56	CIRCULAR	6.00	28.27	1.50	6.00	1	112.98
ESWMM95	CIRCULAR	4.00	12.57	1.00	4.00	1	51.95
48SDTOBPS	CIRCULAR	4.00	12.57	1.00	4.00	1	42.18
ESWMM23	CIRCULAR	4.00	12.57	1.00	4.00	1	90.39
ESWMM22	CIRCULAR	5.50	23.76	1.38	5.50	1	103.08
ESWMM21	CIRCULAR	5.50	23.76	1.38	5.50	1	156.41
ESWMM20	CIRCULAR	6.00	28.27	1.50	6.00	1	141.07
ESWMM19	CIRCULAR	6.00	28.27	1.50	6.00	1	151.97
ESWMM18	CIRCULAR	6.00	28.27	1.50	6.00	1	153.91
ESWMM17	CIRCULAR	6.00	28.27	1.50	6.00	1	112.59
ESWMM16	CIRCULAR	6.00	28.27	1.50	6.00	1	249.24
ESWMM70	CIRCULAR	7.00	38.48	1.75	7.00	1	203.56
ESWMM15	CIRCULAR	6.00	28.27	1.50	6.00	1	117.82
ESWMM71	CIRCULAR	8.00	50.27	2.00	8.00	1	469.28
ESWMM72	CIRCULAR	8.00	50.27	2.00	8.00	1	454.12
ESWMM7	CIRCULAR	3.00	7.07	0.75	3.00	1	22.89
ESWMM12	CIRCULAR	6.00	28.27	1.50	6.00	1	64.79
ESWMM9	CIRCULAR	3.00	7.07	0.75	3.00	1	29.17
ESWMM99	CIRCULAR	5.00	19.63	1.25	5.00	1	98.20
ESWMM8	CIRCULAR	3.00	7.07	0.75	3.00	1	132.60
ESWMM10	CIRCULAR	4.00	12.57	1.00	4.00	1	61.26
ESWMM11	CIRCULAR	5.00	19.63	1.25	5.00	1	270.11
ESWMM90	CIRCULAR	3.50	9.62	0.88	3.50	1	54.35
ESWMM89	CIRCULAR	4.00	12.57	1.00	4.00	1	71.40
ESWMM88	CIRCULAR	4.50	15.90	1.13	4.50	1	116.75
ESWMM87	CIRCULAR	4.50	15.90	1.13	4.50	1	124.31
ESWMM86	CIRCULAR	4.50	15.90	1.13	4.50	1	135.71
ESWMM85	CIRCULAR	4.50	15.90	1.13	4.50	1	101.48

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ESWMM84	CIRCULAR	5.00	19.63	1.25	5.00	1	374.29
ESWMM83	CIRCULAR	5.00	19.63	1.25	5.00	1	46.06
ESWMM82	CIRCULAR	5.00	19.63	1.25	5.00	1	23.37
ESWMM73	CIRCULAR	8.00	50.27	2.00	8.00	1	262.05
ESWMM76	CIRCULAR	8.00	50.27	2.00	8.00	1	328.77
ESWMM77	CIRCULAR	8.00	50.27	2.00	8.00	1	304.27
ESWMM78	CIRCULAR	8.00	50.27	2.00	8.00	1	264.43
ESWMM79	CIRCULAR	8.00	50.27	2.00	8.00	1	310.91
ESWMM80	CIRCULAR	8.00	50.27	2.00	8.00	1	315.82
ESWMM81	CIRCULAR	8.00	50.27	2.00	8.00	1	1254.27
ESWMM14	CIRCULAR	5.50	23.76	1.38	5.50	1	113.50
ESWMM13	CIRCULAR	5.50	23.76	1.38	5.50	1	107.96
ESWMM125	CIRCULAR	5.00	19.63	1.25	5.00	1	250.85
ESWMM71A	CIRCULAR	8.00	50.27	2.00	8.00	1	628.30
ESWMM126	CIRCULAR	8.00	50.27	2.00	8.00	1	53.56
ESWMM127	CIRCULAR	4.00	12.57	1.00	4.00	1	21.09
ESWMM128	CIRCULAR	4.00	12.57	1.00	4.00	1	241.70
ESWMM129	CIRCULAR	5.00	19.63	1.25	5.00	1	190.92
60SDTOBPS	CIRCULAR	5.00	19.63	1.25	5.00	1	227.30
ESWMM134	CIRCULAR	4.50	15.90	1.13	4.50	1	99.03
ESWMM135	CIRCULAR	5.50	23.76	1.38	5.50	1	84.26
ESWMM53	CIRCULAR	6.00	28.27	1.50	6.00	1	231.79
ESWMM75	CIRCULAR	8.00	50.27	2.00	8.00	1	191.34
1F.H.SWMM5	CIRCULAR	4.00	12.57	1.00	4.00	1	50.67
1F.H.SWMM6	CIRCULAR	4.00	12.57	1.00	4.00	1	51.42
1F.H.SWMM7	CIRCULAR	4.00	12.57	1.00	4.00	1	96.85
ESWMM201	CIRCULAR	1.50	1.77	0.38	1.50	1	1.58
ESWMM203	CIRCULAR	3.50	9.62	0.88	3.50	1	148.45
ESWMM200	CIRCULAR	6.00	28.27	1.50	6.00	1	118.82
ESWMM202	CIRCULAR	6.50	33.18	1.63	6.50	1	70.76
ESWMM500	CIRCULAR	4.00	12.57	1.00	4.00	1	45.85
ESWMM74	CIRCULAR	8.00	50.27	2.00	8.00	1	297.77
ESWMM74A	RECT CLOSED	8.00	53.36	1.82	6.67	1	246.13
1F.E.SWMM1	CIRCULAR	4.00	12.57	1.00	4.00	1	26.68
1F.E.SWMM2	CIRCULAR	4.00	12.57	1.00	4.00	1	45.56
1F.H.SWMM11	CIRCULAR	4.00	12.57	1.00	4.00	1	24.59
1F.H.SWMM12	CIRCULAR	4.00	12.57	1.00	4.00	1	132.04
1F.H.SWMM13	CIRCULAR	3.00	7.07	0.75	3.00	1	43.79
1F.H.SWMM14	CIRCULAR	4.00	12.57	1.00	4.00	1	29.09
1F.J.SWMM3	CIRCULAR	4.00	12.57	1.00	4.00	1	71.42
1F.K.SWMM2	CIRCULAR	4.00	12.57	1.00	4.00	1	66.66
1F.E.SWMM5	CIRCULAR	4.00	12.57	1.00	4.00	1	28.18
1F.K.SWMM3	CIRCULAR	4.00	12.57	1.00	4.00	1	66.80
1F.K.SWMM4	CIRCULAR	4.00	12.57	1.00	4.00	1	66.73
1F.L.SWMM5	CIRCULAR	3.50	9.62	0.88	3.50	1	52.51
1F.L.SWMM4	CIRCULAR	4.50	15.90	1.13	4.50	1	87.57
1FLSWMM1	CIRCULAR	6.00	28.27	1.50	6.00	1	160.55
WEIRPIPE	CIRCULAR	6.00	28.27	1.50	6.00	1	16.05

Control Actions Taken

Runoff Quantity Continuity	Volume acre-feet	Depth inches

Total Precipitation	527.113	2.600
Evaporation Loss	0.000	0.000
Infiltration Loss	127.079	0.627
Surface Runoff	360.760	1.779
Final Surface Storage	39.276	0.194
Continuity Error (%)	-0.000	

Flow Routing Continuity	Volume acre-feet	Volume 10^6 gal

Dry Weather Inflow	0.000	0.000
Wet Weather Inflow	360.760	117.559

Groundwater Inflow	0.000	0.000
RDI Inflow	0.000	0.000
External Inflow	6.751	2.200
External Outflow	357.109	116.369
Internal Outflow	0.000	0.000
Storage Losses	0.000	0.000
Initial Stored Volume	0.000	0.000
Final Stored Volume	0.201	0.066
Continuity Error (%)	2.775	

Highest Continuity Errors

Node COA29163 (4.15%)
Node COA25352 (3.98%)
Node COA7963.11A (3.96%)
Node COA24834 (-3.68%)
Node BLUWEIR (3.06%)

Time-Step Critical Elements

Link ESWMM74A (1.73%)

Highest Flow Instability Indexes

Link WEIRBROADWAY (125)
Link S.B.PS (4)
Link ESWMM129 (3)
Link ESWMM5 (2)
Link ESWMM81 (2)

Routing Time Step Summary

Minimum Time Step	:	0.50 sec
Average Time Step	:	0.99 sec
Maximum Time Step	:	1.00 sec
Percent in Steady State	:	0.00
Average Iterations per Step	:	2.25

Subcatchment Runoff Summary

Subcatchment	Total Precip in	Total Runon in	Total Evap in	Total Infil in	Total Runoff in	Total Runoff 10^6 gal	Peak Runoff CFS	Runoff Coeff
A1	2.60	0.00	0.00	0.87	1.66	1.46	18.12	0.640
A10	2.60	0.00	0.00	0.87	1.65	2.25	24.64	0.635
A11	2.60	0.00	0.00	0.68	1.85	1.83	31.47	0.712
A12	2.60	0.00	0.00	1.01	1.51	4.41	31.40	0.581
A13	2.60	0.00	0.00	0.66	1.85	6.20	42.35	0.712
A15	2.60	0.00	0.00	0.62	1.90	2.39	34.15	0.731
A18	2.60	0.00	0.00	0.99	1.54	1.77	24.46	0.594
A2	2.60	0.00	0.00	1.15	0.00	0.00	0.00	0.000
A3	2.60	0.00	0.00	1.34	1.19	2.86	30.31	0.458
A4	2.60	0.00	0.00	1.03	1.52	0.51	13.38	0.584
A5	2.60	0.00	0.00	1.02	1.51	3.22	30.62	0.581
A6	2.60	0.00	0.00	1.24	1.30	1.67	20.90	0.500
A7	2.60	0.00	0.00	0.93	1.60	1.66	24.08	0.614
A8	2.60	0.00	0.00	0.79	1.73	1.04	23.40	0.665
A9	2.60	0.00	0.00	0.79	1.73	1.37	22.71	0.665
B1	2.60	0.00	0.00	0.62	1.90	2.06	29.88	0.729

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B10	2.60	0.00	0.00	0.64	1.88	0.71	17.34	0.722
B11	2.60	0.00	0.00	1.43	1.15	0.39	11.10	0.443
B12	2.60	0.00	0.00	0.54	1.97	0.51	15.14	0.759
B13	2.60	0.00	0.00	0.71	1.81	0.98	19.53	0.694
B14	2.60	0.00	0.00	0.28	2.24	1.71	39.76	0.860
B15	2.60	0.00	0.00	0.18	2.32	2.63	36.32	0.892
B16	2.60	0.00	0.00	0.26	2.25	1.83	33.26	0.865
B17	2.60	0.00	0.00	0.20	0.00	0.00	0.00	0.000
B18	2.60	0.00	0.00	0.04	0.00	0.00	0.00	0.000
B20	2.60	0.00	0.00	0.26	2.24	1.03	29.73	0.863
B21	2.60	0.00	0.00	0.59	1.93	1.62	29.60	0.744
B22	2.60	0.00	0.00	0.56	1.97	1.79	29.56	0.757
B23	2.60	0.00	0.00	0.02	2.48	0.63	19.50	0.954
B24	2.60	0.00	0.00	0.24	0.00	0.00	0.00	0.000
B25	2.60	0.00	0.00	0.07	2.43	2.62	36.35	0.934
B26	2.60	0.00	0.00	0.60	0.00	0.00	0.00	0.000
B27	2.60	0.00	0.00	0.22	2.28	3.20	39.07	0.879
B28	2.60	0.00	0.00	0.59	1.92	3.38	31.67	0.738
B29	2.60	0.00	0.00	0.73	1.78	5.09	34.99	0.684
B3	2.60	0.00	0.00	0.64	1.90	0.26	10.25	0.731
B30	2.60	0.00	0.00	0.33	2.18	3.06	38.80	0.837
B31	2.60	0.00	0.00	0.27	2.23	2.64	34.75	0.858
B32	2.60	0.00	0.00	0.52	1.99	2.16	33.49	0.765
B33	2.60	0.00	0.00	0.62	1.90	2.63	29.54	0.730
B34	2.60	0.00	0.00	0.45	2.06	2.99	40.56	0.793
B35	2.60	0.00	0.00	0.33	2.18	1.90	41.36	0.839
B36	2.60	0.00	0.00	0.41	2.10	1.45	34.23	0.809
B4	2.60	0.00	0.00	0.95	1.58	0.26	8.48	0.607
B40	2.60	0.00	0.00	0.29	2.22	2.20	54.14	0.854
B41	2.60	0.00	0.00	0.10	1.15	0.77	11.31	0.442
B5	2.60	0.00	0.00	0.64	1.88	3.34	31.12	0.722
B6	2.60	0.00	0.00	0.62	1.90	0.36	10.61	0.729
B7	2.60	0.00	0.00	0.78	1.74	0.54	18.58	0.669
B8	2.60	0.00	0.00	0.65	1.87	1.20	22.18	0.7
BR1	2.60	0.00	0.00	0.38	2.15	1.69	70.88	0.8
BR10	2.60	0.00	0.00	1.08	1.49	1.47	42.40	0.572
BR11	2.60	0.00	0.00	0.53	2.00	0.53	31.84	0.769
BR12	2.60	0.00	0.00	1.40	1.19	0.72	5.47	0.457
BR13	2.60	0.00	0.00	0.46	2.06	1.63	55.48	0.794
BR14	2.60	0.00	0.00	0.19	2.31	1.24	37.01	0.889
BR16	2.60	0.00	0.00	1.45	1.14	0.80	4.82	0.437
BR17	2.60	0.00	0.00	0.65	1.89	2.52	60.64	0.726
BR18	2.60	0.00	0.00	0.39	2.14	1.92	57.19	0.822
BR19	2.60	0.00	0.00	0.40	2.12	1.51	42.71	0.815
BR2	2.60	0.00	0.00	0.89	1.64	0.25	13.33	0.630
BR20	2.60	0.00	0.00	0.18	2.33	1.53	33.72	0.895
BR21	2.60	0.00	0.00	0.26	2.26	1.46	64.21	0.868
BR3	2.60	0.00	0.00	0.53	2.00	2.02	55.96	0.770
BR4	2.60	0.00	0.00	0.35	2.17	2.33	78.00	0.836
BR5	2.60	0.00	0.00	0.47	2.07	0.60	32.53	0.797
BR6	2.60	0.00	0.00	0.32	2.19	1.70	42.89	0.841
BR9	2.60	0.00	0.00	0.26	2.25	3.37	45.33	0.864
B19.1	2.60	0.00	0.00	0.24	2.27	0.94	52.47	0.874
B19.2	2.60	0.00	0.00	0.24	2.27	0.74	44.71	0.874

Node Depth Summary

Node	Type	Average Depth Feet	Maximum Depth Feet	Maximum HGL Feet	Time of Max Occurrence days hr:min
COA6149	JUNCTION	0.11	1.96	4958.47	0 02:04
COA6231	JUNCTION	0.19	3.06	4958.12	0 02:06
COA6045	JUNCTION	0.26	7.83	4965.34	0 01:31
COA15184	JUNCTION	0.61	10.24	4964.43	0 02:15
COA6218	JUNCTION	0.54	9.77	4963.43	0 03:13
COA6195	JUNCTION	0.13	6.83	4969.80	0 01:39
COA6246	JUNCTION	0.42	7.85	4969.91	0 01:34

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COA29163	JUNCTION	0.18	8.38	4970.39	0	01:40
COA7635	JUNCTION	0.09	3.35	4960.69	0	01:34
COA7650	JUNCTION	0.19	8.35	4963.28	0	02:23
COA7656	JUNCTION	0.59	15.23	4962.63	0	02:24
COA7628	JUNCTION	0.70	15.12	4960.44	0	01:34
COA29132	JUNCTION	0.21	14.23	4976.08	0	01:43
COA33027	JUNCTION	0.08	3.05	4960.20	0	02:39
COA33007	JUNCTION	0.01	1.21	4996.08	0	00:16
COA7717	JUNCTION	0.39	9.53	4960.76	0	02:33
COA19719	JUNCTION	1.25	10.76	4963.06	0	02:59
COA7654	JUNCTION	0.65	8.61	4960.28	0	03:24
COA7714	JUNCTION	0.60	7.86	4958.00	0	03:09
COA6259	JUNCTION	0.21	3.92	4957.64	0	02:06
COA7638	JUNCTION	0.78	4.38	4957.00	0	02:05
COA25807	JUNCTION	0.18	2.92	4956.10	0	02:11
COA25349	JUNCTION	0.42	11.08	4956.34	0	02:03
COA25656	JUNCTION	0.56	10.47	4959.33	0	02:20
COA25677	JUNCTION	0.66	10.97	4959.56	0	02:05
COA25622	JUNCTION	0.40	9.60	4957.84	0	01:54
COA7444	JUNCTION	0.29	7.72	4960.59	0	01:38
COA7476	JUNCTION	0.30	8.00	4958.32	0	02:15
COA7518	JUNCTION	0.52	9.06	4957.00	0	02:27
COA24834	JUNCTION	0.63	7.41	4951.93	0	03:14
COA8985	JUNCTION	0.52	11.38	4952.14	0	01:37
COA24859	JUNCTION	0.60	8.58	4947.22	0	01:53
COA9015	JUNCTION	0.08	3.25	4946.16	0	01:53
COA25105	JUNCTION	0.38	10.21	4956.52	0	01:46
COA25117	JUNCTION	0.45	11.30	4956.56	0	01:45
COA25048	JUNCTION	0.38	11.36	4956.28	0	01:48
COA25034	JUNCTION	0.43	10.70	4954.52	0	01:45
COA9045	JUNCTION	0.49	8.65	4950.26	0	01:46
COA25352	JUNCTION	0.43	11.31	4956.37	0	01:54
COA7815	JUNCTION	0.71	13.40	4956.88	0	01:56
COA25253	JUNCTION	0.90	12.95	4954.61	0	02:06
COA7977	JUNCTION	0.58	12.91	4954.85	0	02:15
COA25238	JUNCTION	0.88	13.47	4954.67	0	02:06
COA25240	JUNCTION	0.89	13.49	4954.64	0	02:15
COA22584	JUNCTION	0.64	14.49	4954.67	0	02:09
COA9260	JUNCTION	0.80	14.78	4952.80	0	02:02
COA7740	JUNCTION	0.60	8.25	4957.94	0	02:08
COA7830	JUNCTION	0.79	12.00	4956.87	0	01:56
COA7865	JUNCTION	0.66	10.46	4956.80	0	01:51
COA7908	JUNCTION	0.82	10.00	4956.15	0	01:52
COA7912	JUNCTION	0.28	10.68	4956.29	0	01:48
COA7955	JUNCTION	1.62	12.00	4955.49	0	01:56
COA22517	JUNCTION	0.32	11.00	4954.59	0	01:51
COA7716	JUNCTION	0.03	9.24	4958.12	0	01:34
COA7766JB	JUNCTION	0.21	12.33	4956.28	0	01:35
COA7769JB	JUNCTION	0.12	13.24	4957.76	0	01:36
COA32865	JUNCTION	0.17	11.64	4957.13	0	01:38
COA32878	JUNCTION	1.33	9.29	4955.89	0	01:46
COA7848	JUNCTION	0.25	8.72	4956.39	0	01:51
COA7861	JUNCTION	0.26	20.40	4968.16	0	01:28
COA7870	JUNCTION	0.10	30.57	4988.32	0	01:28
COA29178	JUNCTION	4.82	45.78	5002.56	0	01:28
COA7816	JUNCTION	0.71	13.17	4957.36	0	01:50
COA25109	JUNCTION	0.37	10.68	4956.55	0	01:46
BPSINLET	JUNCTION	0.26	17.96	4956.85	0	01:36
COA9310	JUNCTION	0.25	11.55	4953.95	0	01:50
COA9348	JUNCTION	0.39	11.79	4951.42	0	01:49
COA9344	JUNCTION	3.41	15.71	4951.54	0	01:53
COA9340	JUNCTION	2.79	16.65	4952.29	0	02:16
COA22250	JUNCTION	0.40	13.58	4951.14	0	02:10
COA22429	JUNCTION	0.35	13.07	4950.33	0	02:16
COA13866	JUNCTION	0.67	12.08	4947.44	0	02:18
COA24930	JUNCTION	0.38	11.05	4948.22	0	01:55
COA24916	JUNCTION	0.26	10.36	4948.61	0	01:49
COA9248	JUNCTION	0.10	10.07	4957.72	0	01:51
COA32981	JUNCTION	0.74	9.51	4940.90	0	02:19
COA9121	JUNCTION	0.79	9.43	4940.59	0	02:19
COA24902	JUNCTION	1.35	5.64	4944.71	0	01:49
COA24902A	JUNCTION	0.54	3.51	4943.24	0	01:50

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COA9069	JUNCTION	0.13	3.17	4944.02	0	01:54
COA24997	JUNCTION	0.54	7.57	4943.71	0	01:54
COA9083	JUNCTION	0.65	5.80	4941.13	0	01:54
UPSINLET	JUNCTION	0.24	5.67	4936.16	0	02:23
COA9407	JUNCTION	0.05	1.30	4945.70	0	01:30
COA9426	JUNCTION	0.07	2.03	4945.06	0	01:31
COA22194	JUNCTION	0.06	1.77	4943.77	0	01:31
COA22191	JUNCTION	0.06	1.81	4942.60	0	01:32
COA9431	JUNCTION	0.19	2.24	4941.51	0	01:33
COA22176	JUNCTION	0.08	2.29	4940.74	0	01:34
COA22168	JUNCTION	0.04	1.13	4937.69	0	01:34
COA22174	JUNCTION	0.52	8.55	4937.04	0	01:34
COA22155	JUNCTION	0.59	10.95	4939.30	0	01:34
COA9141	JUNCTION	0.70	7.71	4935.92	0	01:50
COA22410	JUNCTION	0.81	8.21	4936.57	0	01:50
COA9129	JUNCTION	0.75	9.12	4939.36	0	02:20
COA9143	JUNCTION	0.70	7.38	4934.66	0	01:51
COA22144	JUNCTION	0.67	6.20	4930.99	0	01:53
COA22145	JUNCTION	0.74	7.02	4932.87	0	01:53
COA22143	JUNCTION	0.69	5.46	4929.45	0	01:53
COA10456	JUNCTION	0.41	3.06	4925.82	0	01:54
COA10457	JUNCTION	0.24	4.77	4911.90	0	01:54
COA7963.05A	JUNCTION	0.04	1.63	4973.61	0	00:13
COA7963.05M	JUNCTION	0.30	7.52	4960.21	0	02:41
COA7963.11A	JUNCTION	0.55	12.97	4961.17	0	02:24
COA7963.T	JUNCTION	0.64	9.13	4941.34	0	02:19
COA32878.A	JUNCTION	0.10	9.08	4955.58	0	01:37
COA32878.B	JUNCTION	0.09	9.47	4955.74	0	01:36
APSINLET	JUNCTION	0.24	8.17	4937.83	0	01:54
IRON14TH	JUNCTION	0.13	6.86	4945.93	0	01:48
BLDWEIR	JUNCTION	1.32	10.22	4956.82	0	01:43
BLUWEIR	JUNCTION	1.32	10.48	4957.08	0	01:43
COA22169	JUNCTION	0.24	3.24	4942.59	0	01:58
COA22127	JUNCTION	0.18	2.32	4940.18	0	01:52
COA32823	JUNCTION	0.07	3.06	4936.15	0	02:23
COA9453	JUNCTION	0.31	2.91	4941.98	0	01:58
MHB22410	JUNCTION	0.82	9.04	4937.46	0	02:03
COA9152	JUNCTION	5.09	10.84	4940.51	0	02:02
COA9229	JUNCTION	20.03	27.30	4940.45	0	02:05
MHB19A	JUNCTION	0.16	3.15	4936.15	0	02:24
1F.E.MHA	JUNCTION	0.18	11.32	4972.82	0	01:42
INLETS.B.PS	JUNCTION	0.59	15.61	4960.68	0	01:34
1F.H.MH1	JUNCTION	0.48	8.04	4959.54	0	03:50
1F.H.MH2	JUNCTION	0.68	8.00	4958.50	0	02:03
WNODE1	JUNCTION	0.10	9.12	4955.62	0	01:39
WNODE2	JUNCTION	1.43	9.66	4956.16	0	01:54
APSOUTLET	OUTFALL	0.00	0.00	4960.84	0	00:00
BPSOUTLET	OUTFALL	0.00	0.00	5106.00	0	00:00
BaPSOUTLET	OUTFALL	0.00	0.00	4941.69	0	00:00
OUT1	OUTFALL	0.00	0.00	5061.00	0	00:00
OUTLET.S.B.P.S	OUTFALL	0.00	0.00	4972.00	0	00:00
AIRQUALITYPOND	STORAGE	0.42	7.92	4960.18	0	02:44
TINGLEYPARKSURGEPOND	STORAGE	0.64	8.92	4941.13	0	02:45
BR21POND	STORAGE	0.22	6.48	5068.48	0	02:26
NORTHWELLSPARK	STORAGE	0.59	7.82	4958.82	0	05:28

Node Inflow Summary

Node	Type	Maximum Lateral Inflow CFS	Maximum Total Inflow CFS	Time of Max Occurrence days hr:min	Lateral Inflow Volume 10^6 gal	Total Inflow Volume 10^6 gal
COA6149	JUNCTION	11.31	11.31	0 02:03	0.774	0.777
COA6231	JUNCTION	29.54	40.09	0 02:03	2.632	3.410
COA6045	JUNCTION	34.23	74.95	0 01:28	1.448	1.743
COA15184	JUNCTION	40.56	76.86	0 01:40	2.986	4.743
COA6218	JUNCTION	0.00	154.63	0 05:10	0.000	4.663

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COA6195	JUNCTION	57.19	57.19	0	01:30	1.922	1.922
COA6246	JUNCTION	0.00	68.26	0	01:51	0.000	1.944
COA29163	JUNCTION	0.00	97.01	0	01:51	0.000	1.910
COA7635	JUNCTION	37.01	37.01	0	01:33	1.242	1.243
COA7650	JUNCTION	0.00	45.08	0	01:39	0.000	1.251
COA7656	JUNCTION	55.47	97.02	0	01:35	1.634	10.891
COA7628	JUNCTION	0.00	59.12	0	03:35	0.000	9.857
COA29132	JUNCTION	60.64	103.99	0	01:34	2.519	4.350
COA33027	JUNCTION	31.84	42.12	0	00:16	0.529	1.688
COA33007	JUNCTION	43.49	43.49	0	00:15	0.809	0.809
COA7717	JUNCTION	45.33	51.85	0	01:28	3.367	3.388
COA19719	JUNCTION	95.40	139.55	0	01:33	4.099	8.581
COA7654	JUNCTION	34.75	135.35	0	03:22	2.641	11.092
COA7714	JUNCTION	0.00	59.45	0	03:09	0.000	13.962
COA6259	JUNCTION	0.00	39.92	0	02:03	0.000	3.405
COA7638	JUNCTION	33.49	70.33	0	02:03	2.159	5.565
COA25807	JUNCTION	0.00	70.43	0	02:02	0.000	5.560
COA25349	JUNCTION	34.99	156.90	0	01:58	5.088	10.653
COA25656	JUNCTION	31.40	31.40	0	02:03	4.407	4.407
COA25677	JUNCTION	0.00	53.61	0	02:40	0.000	4.451
COA25622	JUNCTION	22.71	49.75	0	02:41	1.367	5.744
COA7444	JUNCTION	36.85	43.02	0	01:37	2.893	2.894
COA7476	JUNCTION	24.46	68.56	0	01:38	1.767	4.632
COA7518	JUNCTION	31.47	76.60	0	01:37	1.826	6.451
COA24834	JUNCTION	42.35	101.37	0	02:03	6.199	12.612
COA8985	JUNCTION	20.90	83.06	0	01:37	1.667	14.743
COA24859	JUNCTION	13.38	94.98	0	01:37	0.512	15.275
COA9015	JUNCTION	0.00	26.07	0	01:45	0.000	1.665
COA25105	JUNCTION	23.40	69.03	0	01:33	1.036	6.731
COA25117	JUNCTION	0.00	73.40	0	01:36	0.000	6.581
COA25048	JUNCTION	24.64	104.53	0	01:47	2.246	8.787
COA25034	JUNCTION	24.08	118.89	0	01:45	1.659	10.474
COA9045	JUNCTION	30.62	127.58	0	01:53	3.221	13.687
COA25352	JUNCTION	0.00	368.32	0	01:54	0.000	10.453
COA7815	JUNCTION	0.00	307.02	0	01:51	0.000	31.835
COA25253	JUNCTION	0.00	190.03	0	01:43	0.000	31.725
COA7977	JUNCTION	0.00	181.91	0	01:43	0.000	31.760
COA25238	JUNCTION	0.00	173.05	0	01:43	0.000	31.758
COA25240	JUNCTION	0.00	169.48	0	01:43	0.000	31.795
COA22584	JUNCTION	0.00	171.29	0	01:47	0.000	31.793
COA9260	JUNCTION	47.72	199.93	0	02:07	2.416	34.130
COA7740	JUNCTION	39.07	82.00	0	03:09	3.196	16.975
COA7830	JUNCTION	0.00	180.93	0	01:35	0.000	22.147
COA7865	JUNCTION	36.35	102.10	0	01:56	2.616	6.190
COA7908	JUNCTION	0.00	111.76	0	01:52	0.000	6.108
COA7912	JUNCTION	0.00	136.45	0	01:52	0.000	6.092
COA7955	JUNCTION	0.00	101.44	0	01:56	0.000	6.110
COA22517	JUNCTION	29.73	146.30	0	01:43	1.033	8.772
COA7716	JUNCTION	0.00	58.81	0	01:33	0.000	0.088
COA7766JB	JUNCTION	42.89	95.62	0	01:31	1.700	2.912
COA7769JB	JUNCTION	0.00	131.64	0	01:31	0.000	4.289
COA32865	JUNCTION	55.95	55.95	0	01:30	2.024	2.025
COA32878	JUNCTION	42.70	191.57	0	01:30	1.509	5.818
COA7848	JUNCTION	33.72	170.44	0	01:35	1.525	5.335
COA7861	JUNCTION	0.00	148.86	0	01:30	0.000	4.292
COA7870	JUNCTION	77.99	148.84	0	01:30	2.604	4.291
COA29178	JUNCTION	70.85	70.85	0	01:30	1.688	1.688
COA7816	JUNCTION	31.67	133.81	0	01:37	3.382	21.819
COA25109	JUNCTION	0.00	80.12	0	01:46	0.000	6.669
BPSINLET	JUNCTION	0.00	134.43	0	01:39	0.000	5.992
COA9310	JUNCTION	0.00	119.28	0	01:45	0.000	8.630
COA9348	JUNCTION	33.26	152.92	0	01:45	1.828	10.416
COA9344	JUNCTION	36.32	198.21	0	01:50	2.630	12.843
COA9340	JUNCTION	0.00	188.54	0	01:53	0.000	12.779
COA22250	JUNCTION	0.00	182.56	0	02:10	0.000	12.573
COA22429	JUNCTION	39.76	206.65	0	01:51	1.715	14.072
COA13866	JUNCTION	19.53	389.48	0	02:03	0.982	52.028
COA24930	JUNCTION	29.60	64.19	0	01:58	1.623	3.160
COA24916	JUNCTION	18.12	73.29	0	01:47	1.463	1.718
COA9248	JUNCTION	44.71	48.82	0	01:30	0.742	1.696
COA32981	JUNCTION	0.00	278.19	0	03:14	0.000	52.334
COA9121	JUNCTION	0.00	278.19	0	03:14	0.000	52.334

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COA24902	JUNCTION	0.00	153.92	0	01:48	0.000	13.704
COA24902A	JUNCTION	0.00	145.57	0	01:49	0.000	14.906
COA9069	JUNCTION	30.31	52.66	0	01:54	2.864	4.549
COA24997	JUNCTION	0.00	85.69	0	01:56	0.000	16.923
COA9083	JUNCTION	0.00	218.87	0	01:54	0.000	31.828
UPSINLET	JUNCTION	0.00	11.39	0	02:23	0.000	0.956
COA9407	JUNCTION	15.13	15.13	0	01:30	0.509	0.509
COA9426	JUNCTION	18.58	32.99	0	01:30	0.545	1.054
COA22194	JUNCTION	0.00	32.74	0	01:31	0.000	1.048
COA22191	JUNCTION	0.00	32.66	0	01:32	0.000	1.052
COA9431	JUNCTION	10.61	42.42	0	01:32	0.363	1.414
COA22176	JUNCTION	0.00	42.16	0	01:33	0.000	1.414
COA22168	JUNCTION	0.00	41.97	0	01:34	0.000	1.414
COA22174	JUNCTION	8.48	48.27	0	01:34	0.256	1.671
COA22155	JUNCTION	17.34	66.01	0	01:34	0.708	2.380
COA9141	JUNCTION	10.25	322.66	0	01:47	0.262	56.174
COA22410	JUNCTION	0.00	283.16	0	02:59	0.000	53.533
COA9129	JUNCTION	0.00	278.19	0	03:14	0.000	52.335
COA9143	JUNCTION	0.00	315.69	0	01:50	0.000	56.173
COA22144	JUNCTION	0.00	315.26	0	01:53	0.000	56.174
COA22145	JUNCTION	0.00	315.45	0	01:51	0.000	56.174
COA22143	JUNCTION	0.00	315.24	0	01:53	0.000	56.173
COA10456	JUNCTION	0.00	374.26	0	01:54	0.000	61.576
COA10457	JUNCTION	0.00	374.26	0	01:54	0.000	61.609
COA7963.05A	JUNCTION	48.69	48.69	0	00:12	1.226	1.226
COA7963.05M	JUNCTION	42.40	74.22	0	01:29	1.472	2.707
COA7963.11A	JUNCTION	0.00	118.34	0	01:35	0.000	9.265
COA7963.T	JUNCTION	0.00	334.92	0	01:50	0.000	53.003
COA32878.A	JUNCTION	13.33	90.14	0	01:29	0.252	2.251
COA32878.B	JUNCTION	0.00	86.65	0	01:30	0.000	2.263
APSINLET	JUNCTION	0.00	218.89	0	01:54	0.000	31.828
IRON14TH	JUNCTION	0.00	59.14	0	01:47	0.000	0.197
BLDWEIR	JUNCTION	0.00	137.04	0	01:35	0.000	3.732
BLUWEIR	JUNCTION	0.00	137.49	0	01:35	0.000	3.851
COA22169	JUNCTION	31.12	31.12	0	01:57	3.340	3.340
COA22127	JUNCTION	29.88	59.17	0	01:49	2.064	5.403
COA32823	JUNCTION	0.00	13.60	0	01:45	0.000	0.982
COA9453	JUNCTION	0.00	31.12	0	01:57	0.000	3.340
MHB22410	JUNCTION	22.18	283.16	0	02:59	1.198	53.533
COA9152	JUNCTION	52.45	52.45	0	01:29	0.944	0.944
COA9229	JUNCTION	0.00	47.28	0	01:30	0.000	0.938
MHB19A	JUNCTION	0.00	2.06	0	01:46	0.000	0.026
1F.E.MHA	JUNCTION	0.00	104.00	0	01:34	0.000	4.345
INLETS.B.PS	JUNCTION	10.29	119.59	0	01:42	1.518	15.708
1F.H.MH1	JUNCTION	0.00	244.24	0	03:50	0.000	10.948
1F.H.MH2	JUNCTION	0.00	59.45	0	03:09	0.000	13.875
WNODE1	JUNCTION	0.00	77.91	0	01:30	0.000	1.999
WNODE2	JUNCTION	0.00	77.86	0	01:30	0.000	2.006
APSOUTLET	OUTFALL	0.00	218.89	0	01:54	0.000	31.828
BPSOUTLET	OUTFALL	0.00	130.00	0	01:34	0.000	5.992
BaPSOUTLET	OUTFALL	0.00	374.26	0	01:54	0.000	61.419
OUT1	OUTFALL	0.00	9.48	0	02:26	0.000	1.459
OUTLET.S.B.P.S	OUTFALL	0.00	106.14	0	01:34	0.000	15.664
AIRQUALITYPOND	STORAGE	0.00	206.83	0	01:31	0.000	5.234
TINGLEYPARKSURGE POND	STORAGE	11.10	96.86	0	01:50	0.388	1.059
BR21POND	STORAGE	64.19	64.19	0	01:30	1.459	1.459
NORTHWELLS PARK	STORAGE	38.79	200.98	0	03:51	3.059	13.918

***** 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
COA6045	JUNCTION	2.79	3.828	0.000
COA15184	JUNCTION	4.60	6.062	0.000
COA6218	JUNCTION	5.01	5.302	0.000

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COA6195	JUNCTION	0.69	2.827	0.000
COA6246	JUNCTION	0.66	3.555	0.000
COA29163	JUNCTION	0.75	4.382	0.000
COA7650	JUNCTION	1.83	4.354	0.000
COA7656	JUNCTION	2.44	4.226	0.000
COA7628	JUNCTION	5.76	11.121	11.029
COA29132	JUNCTION	0.69	10.230	0.000
COA7717	JUNCTION	3.75	5.530	0.000
COA19719	JUNCTION	5.42	5.943	0.000
COA7654	JUNCTION	6.68	4.608	0.000
COA7714	JUNCTION	6.40	3.861	0.000
COA25349	JUNCTION	1.67	5.578	0.000
COA25656	JUNCTION	3.12	7.473	0.000
COA25677	JUNCTION	1.93	7.901	0.000
COA25622	JUNCTION	1.54	6.462	0.000
COA7444	JUNCTION	0.98	3.641	0.000
COA7476	JUNCTION	1.53	3.989	0.000
COA7518	JUNCTION	3.21	4.958	0.000
COA24834	JUNCTION	4.49	1.456	0.000
COA8985	JUNCTION	4.53	5.950	0.000
COA24859	JUNCTION	0.62	1.081	3.419
COA9015	JUNCTION	0.07	0.246	5.204
COA25105	JUNCTION	1.57	6.206	0.000
COA25117	JUNCTION	1.50	7.276	0.000
COA25048	JUNCTION	0.90	6.361	0.000
COA25034	JUNCTION	0.95	5.702	0.000
COA9045	JUNCTION	0.32	3.590	0.000
COA25352	JUNCTION	1.79	5.812	0.000
COA7815	JUNCTION	2.16	7.305	0.000
COA25253	JUNCTION	2.05	6.952	0.000
COA7977	JUNCTION	1.53	6.910	0.170
COA25238	JUNCTION	1.78	7.240	0.000
COA25240	JUNCTION	1.35	7.176	0.384
COA22584	JUNCTION	1.90	8.490	0.000
COA9260	JUNCTION	1.96	7.780	0.000
COA7740	JUNCTION	3.42	3.750	0.000
COA7830	JUNCTION	0.63	4.292	0.000
COA7865	JUNCTION	0.70	4.984	0.000
COA7908	JUNCTION	0.95	5.002	0.000
COA7912	JUNCTION	0.64	4.461	0.000
COA7955	JUNCTION	0.85	5.114	0.000
COA22517	JUNCTION	1.48	5.502	0.000
COA7716	JUNCTION	0.36	5.236	0.000
COA7766JB	JUNCTION	0.81	5.334	0.000
COA7769JB	JUNCTION	0.68	6.244	0.000
COA32865	JUNCTION	1.13	8.142	0.000
COA32878	JUNCTION	0.93	3.267	0.000
COA7848	JUNCTION	0.67	2.720	0.000
COA7861	JUNCTION	1.08	15.902	0.000
COA7870	JUNCTION	0.23	23.820	0.000
COA29178	JUNCTION	0.76	38.506	0.000
COA7816	JUNCTION	1.71	7.172	0.000
COA25109	JUNCTION	1.58	6.677	0.000
BPSINLET	JUNCTION	1.06	7.863	3.037
COA9310	JUNCTION	1.40	6.051	0.000
COA9348	JUNCTION	1.90	5.751	0.000
COA9344	JUNCTION	2.08	6.352	0.000
COA9340	JUNCTION	2.26	7.981	0.000
COA22250	JUNCTION	2.41	7.582	0.000
COA22429	JUNCTION	2.34	7.072	0.000
COA13866	JUNCTION	2.10	4.081	0.000
COA24930	JUNCTION	2.05	5.051	0.000
COA24916	JUNCTION	1.55	4.831	0.000
COA9248	JUNCTION	0.11	6.074	0.000
COA32981	JUNCTION	2.59	1.511	8.349
COA9121	JUNCTION	2.59	1.431	8.069
COA9069	JUNCTION	0.02	0.058	5.632
COA24997	JUNCTION	0.41	0.728	5.782
COA9083	JUNCTION	0.20	0.295	6.825
UPSINLET	JUNCTION	2.22	2.166	22.994
COA22174	JUNCTION	3.30	3.550	8.030
COA22155	JUNCTION	3.36	5.952	5.938

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COA22410	JUNCTION	0.44	0.214	10.536
COA9129	JUNCTION	2.58	1.116	6.894
COA7963.05M	JUNCTION	2.91	2.523	2.787
COA7963.11A	JUNCTION	3.16	4.969	0.000
COA7963.T	JUNCTION	2.56	1.130	0.120
COA32878.A	JUNCTION	0.73	3.081	0.000
COA32878.B	JUNCTION	0.93	4.973	0.107
BLDWEIR	JUNCTION	0.92	4.220	0.000
BLUWEIR	JUNCTION	0.93	4.479	0.000
MHB22410	JUNCTION	2.60	1.042	9.708
COA9229	JUNCTION	0.82	1.299	0.000
1F.E.MHA	JUNCTION	0.14	7.317	2.893
1F.H.MH1	JUNCTION	6.25	4.040	0.000
1F.H.MH2	JUNCTION	7.06	4.000	0.000
WNODE1	JUNCTION	0.74	3.123	0.000
WNODE2	JUNCTION	0.94	3.663	0.000
AIRQUALITYPOND	STORAGE	3.18	2.916	4.484
TINGLEYPARKSURGEPOND	STORAGE	2.57	0.919	7.531
BR21POND	STORAGE	143.00	6.476	7.524
NORTHWELLSPARK	STORAGE	7.07	3.815	1.185

***** 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 10^6 gal	Maximum Ponded Depth Feet
COA6045	2.30	48.72	0 01:29	0.224	7.83
COA15184	3.53	66.28	0 01:28	0.672	10.24
COA6218	3.93	142.23	0 05:10	0.871	9.77
COA6195	0.43	29.02	0 01:34	0.067	6.83
COA6246	0.20	42.50	0 01:43	0.031	7.85
COA29163	0.07	44.86	0 01:40	0.011	8.38
COA7650	0.10	31.17	0 02:22	0.012	8.35
COA7656	0.03	38.73	0 02:23	0.005	15.23
COA29132	0.01	13.71	0 01:43	0.000	14.23
COA7717	3.43	50.25	0 01:28	0.402	9.53
COA19719	4.24	80.31	0 01:33	1.183	10.76
COA7654	2.37	129.62	0 03:22	0.367	8.61
COA7714	0.57	34.90	0 03:09	0.044	7.86
COA25349	0.20	131.11	0 01:50	0.092	11.08
COA25656	1.90	23.04	0 02:01	0.248	10.47
COA25677	0.77	38.80	0 02:41	0.058	10.97
COA25622	0.87	28.83	0 02:22	0.069	9.60
COA7444	0.78	28.24	0 01:37	0.047	7.72
COA7476	1.50	33.60	0 01:38	0.237	8.00
COA7518	1.71	30.73	0 01:34	0.230	9.06
COA24834	3.97	52.48	0 01:55	1.591	7.41
COA8985	0.01	10.40	0 01:37	0.000	11.38
COA25105	0.35	34.14	0 01:55	0.035	10.21
COA25117	0.13	46.98	0 01:43	0.019	11.30
COA25048	0.11	44.07	0 01:46	0.020	11.36
COA25034	0.16	49.09	0 01:45	0.023	10.70
COA9045	0.05	17.31	0 01:46	0.004	8.65
COA25352	0.13	153.80	0 02:14	0.041	11.31
COA7815	0.21	122.65	0 01:49	0.102	13.40
COA25253	0.02	27.91	0 02:06	0.003	12.95
COA25238	0.01	7.65	0 02:12	0.000	13.47
COA22584	0.01	38.06	0 02:09	0.003	14.49
COA9260	0.03	40.06	0 02:15	0.006	14.78
COA7740	0.04	20.42	0 02:07	0.004	8.25
COA7830	0.05	69.91	0 01:51	0.014	12.00
COA7865	0.05	51.21	0 01:47	0.013	10.46
COA7908	0.01	109.39	0 01:52	0.004	10.00
COA7912	0.01	45.33	0 01:48	0.002	10.68
COA7955	0.17	53.74	0 01:56	0.044	12.00

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COA22517	0.25	45.42	0	01:51	0.059	11.00
COA7716	0.03	28.23	0	01:34	0.003	9.24
COA7766JB	0.04	37.80	0	01:35	0.005	12.33
COA32865	0.07	51.40	0	01:38	0.008	11.64
COA32878	0.32	35.53	0	01:52	0.049	9.29
COA7848	0.08	68.59	0	01:51	0.015	8.72
COA7816	0.35	91.41	0	01:50	0.104	13.17
COA25109	0.22	77.97	0	01:46	0.024	10.68
COA9310	0.06	36.64	0	01:50	0.010	11.55
COA9348	0.09	75.48	0	01:49	0.027	11.79
COA9344	0.02	69.97	0	01:53	0.006	15.71
COA9340	0.02	55.12	0	02:16	0.009	16.65
COA22250	0.04	92.71	0	02:10	0.016	13.58
COA22429	0.06	114.96	0	02:16	0.024	13.07
COA13866	0.02	42.00	0	01:47	0.004	12.08
COA24930	0.09	41.22	0	01:55	0.018	11.05
COA24916	0.03	44.65	0	01:57	0.006	10.36
COA9248	0.02	18.30	0	01:44	0.002	10.07
COA7963.11A	1.79	64.27	0	04:35	0.513	12.97
COA32878.A	0.02	2.72	0	01:35	0.000	9.08
COA9229	0.52	9.61	0	01:51	0.025	27.30
1F.H.MH1	0.55	232.21	0	03:50	0.211	8.04
1F.H.MH2	0.01	3.98	0	02:03	0.000	8.00

Storage Volume Summary

Storage Unit	Average Volume 1000 ft3	Avg Pcnt Full	E&I Pcnt Loss	Maximum Volume 1000 ft3	Max Pcnt Full	Time of Max Occurrence days hr:min	Maximum Outflow CFS
AIRQUALITYPOND	10.745	2	0	369.631	53	0 02:44	81.39
TINGLEYPARKSURGEPOND	1.554	0	0	90.804	3	0 02:45	39.30
BR21POND	2.997	1	0	93.907	35	0 02:26	9.48
NORTHWELLSPARK	44.254	6	0	614.394	85	0 05:28	225.33

Outfall Loading Summary

Outfall Node	Flow Freq. Pcnt.	Avg. Flow CFS	Max. Flow CFS	Total Volume 10^6 gal
APSOUTLET	99.29	9.16	218.89	31.828
BPSOUTLET	87.96	2.02	130.00	5.992
BaPSOUTLET	97.67	18.10	374.26	61.419
OUT1	43.22	0.99	9.48	1.459
OUTLET.S.B.P.S	18.69	24.18	106.14	15.664
System	69.36	54.44	828.15	116.361

Link Flow Summary

Link	Type	Maximum Flow CFS	Time of Max Occurrence days hr:min	Maximum Veloc ft/sec	Max/ Full Flow	Max/ Full Depth
ESWMM57	CONDUIT	11.18	0 02:04	1.97	0.32	0.65
1F.H.SWMM8	CONDUIT	45.58	0 05:12	4.04	0.55	1.00
1F.H.SWMM9	CONDUIT	49.72	0 01:54	3.96	3.80	1.00
1F.DSWMM1	CONDUIT	68.26	0 01:51	5.43	1.35	1.00
1F.D.SWMM2	CONDUIT	97.01	0 01:51	7.72	1.35	1.00

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1F.D.SWMM4	CONDUIT	45.08	0	01:39	4.91	0.54	0.92
1F.D.SWMM5	CONDUIT	44.51	0	01:39	4.14	0.90	1.00
ESWMM41	CONDUIT	10.89	0	01:49	4.39	1.22	1.00
ESWMM42	CONDUIT	42.12	0	00:16	13.85	0.17	0.39
1F.H.SWMM10	CONDUIT	107.59	0	05:10	8.56	2.11	1.00
ESWMM32	CONDUIT	73.21	0	01:29	5.88	2.06	1.00
ESWMM58	CONDUIT	39.92	0	02:03	4.44	0.62	0.79
ESWMM59	CONDUIT	39.65	0	02:03	2.62	0.63	0.92
ESWMM60	CONDUIT	70.43	0	02:02	5.45	0.91	0.81
ESWMM91	CONDUIT	53.61	0	02:40	7.58	4.31	1.00
ESWMM92	CONDUIT	42.57	0	02:41	6.02	3.93	1.00
1F.H.SWMM1	CONDUIT	44.14	0	01:38	3.74	0.75	1.00
1F.H.SWMM2	CONDUIT	49.62	0	03:11	4.06	0.74	1.00
1F.H.SWMM3	CONDUIT	68.94	0	01:37	5.84	1.81	1.00
1F.H.SWMM4	CONDUIT	65.05	0	05:22	5.30	1.21	1.00
ESWMM5	CONDUIT	83.36	0	01:37	6.63	0.95	1.00
ESWMM6	CONDUIT	26.07	0	01:45	4.90	2.27	1.00
ESWMM93	CONDUIT	50.07	0	01:55	7.08	1.67	1.00
ESWMM94	CONDUIT	72.67	0	02:00	5.78	1.37	1.00
ESWMM96	CONDUIT	79.92	0	01:47	6.36	2.06	1.00
ESWMM97	CONDUIT	95.93	0	01:51	4.89	1.03	1.00
ESWMM98	CONDUIT	96.97	0	01:53	4.94	1.22	1.00
ESWMM61	CONDUIT	83.48	0	02:06	4.37	0.50	0.77
ESWMM62	CONDUIT	368.32	0	01:54	15.50	2.05	1.00
ESWMM63	CONDUIT	158.88	0	01:50	6.69	0.84	1.00
ESWMM64	CONDUIT	190.03	0	01:43	6.73	1.38	1.00
ESWMM65	CONDUIT	181.91	0	01:43	6.50	0.39	1.00
ESWMM66	CONDUIT	173.05	0	01:43	6.24	0.72	1.00
ESWMM67	CONDUIT	169.48	0	01:43	6.19	0.92	1.00
ESWMM68	CONDUIT	171.29	0	01:47	6.06	0.85	1.00
ESWMM69	CONDUIT	167.86	0	02:09	5.94	0.90	1.00
ESWMM30	CONDUIT	63.64	0	03:09	5.06	1.43	1.00
ESWMM29	CONDUIT	64.28	0	03:48	4.88	0.89	1.00
ESWMM28	CONDUIT	65.82	0	01:56	4.14	0.90	1.00
ESWMM27	CONDUIT	96.79	0	01:47	4.93	1.73	1.00
ESWMM26	CONDUIT	136.45	0	01:52	6.95	0.25	1.00
ESWMM25	CONDUIT	101.44	0	01:56	5.17	1.27	1.00
ESWMM24	CONDUIT	88.20	0	02:22	3.71	0.77	1.00
ESWMM50	CONDUIT	70.86	0	01:30	10.02	3.58	1.00
ESWMM51	CONDUIT	148.86	0	01:30	11.85	0.81	1.00
ESWMM52	CONDUIT	148.87	0	01:30	9.36	1.56	1.00
BLUPIPE	CONDUIT	137.49	0	01:35	4.86	4.28	1.00
ESWMM47	CONDUIT	58.81	0	01:33	3.09	0.27	1.00
ESWMM48	CONDUIT	52.98	0	01:31	2.12	0.15	1.00
ESWMM54	CONDUIT	159.43	0	01:35	5.64	0.92	1.00
ESWMM55	CONDUIT	107.45	0	01:36	4.02	0.98	1.00
ESWMM56	CONDUIT	157.11	0	01:51	5.56	1.39	1.00
ESWMM95	CONDUIT	73.40	0	01:36	5.84	1.41	1.00
48SDTOBPS	CONDUIT	60.78	0	01:35	5.06	1.44	1.00
ESWMM23	CONDUIT	48.79	0	01:30	5.31	0.54	1.00
ESWMM22	CONDUIT	119.28	0	01:45	5.03	1.16	1.00
ESWMM21	CONDUIT	119.86	0	01:45	5.04	0.77	1.00
ESWMM20	CONDUIT	161.97	0	01:50	5.73	1.15	1.00
ESWMM19	CONDUIT	188.54	0	01:53	6.67	1.24	1.00
ESWMM18	CONDUIT	182.56	0	02:10	6.46	1.19	1.00
ESWMM17	CONDUIT	171.75	0	01:51	6.07	1.53	1.00
ESWMM16	CONDUIT	186.36	0	02:16	6.59	0.75	1.00
ESWMM70	CONDUIT	188.62	0	02:02	4.90	0.93	1.00
ESWMM15	CONDUIT	63.58	0	01:58	3.04	0.54	1.00
ESWMM71	CONDUIT	334.92	0	01:50	6.66	0.71	1.00
ESWMM72	CONDUIT	278.19	0	03:14	5.53	0.61	1.00
ESWMM7	CONDUIT	23.78	0	02:02	3.85	1.04	1.00
ESWMM12	CONDUIT	129.74	0	01:49	6.51	2.00	0.68
ESWMM9	CONDUIT	20.95	0	02:00	2.99	0.72	1.00
ESWMM99	CONDUIT	129.90	0	01:57	6.96	1.32	0.93
ESWMM8	CONDUIT	33.45	0	02:00	10.28	0.25	1.00
ESWMM10	CONDUIT	85.79	0	01:56	6.83	1.40	1.00
ESWMM11	CONDUIT	134.52	0	01:50	7.81	0.50	0.82
ESWMM90	CONDUIT	15.00	0	01:31	3.38	0.28	0.47
ESWMM89	CONDUIT	32.74	0	01:31	5.60	0.46	0.47
ESWMM88	CONDUIT	32.66	0	01:32	5.58	0.28	0.40
ESWMM87	CONDUIT	32.48	0	01:33	4.69	0.26	0.45

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ESWMM86	CONDUIT	42.16	0	01:33	5.49	0.31	0.49
ESWMM85	CONDUIT	41.97	0	01:34	7.59	0.41	0.38
ESWMM84	CONDUIT	41.86	0	01:35	3.42	0.11	0.61
ESWMM83	CONDUIT	49.45	0	01:34	2.52	1.07	1.00
ESWMM82	CONDUIT	65.28	0	01:34	3.39	2.79	1.00
ESWMM73	CONDUIT	278.19	0	03:14	5.53	1.06	1.00
ESWMM76	CONDUIT	315.69	0	01:50	6.50	0.96	0.94
ESWMM77	CONDUIT	315.45	0	01:51	6.65	1.04	0.90
ESWMM78	CONDUIT	315.26	0	01:53	7.10	1.19	0.83
ESWMM79	CONDUIT	315.24	0	01:53	8.03	1.01	0.73
ESWMM80	CONDUIT	315.23	0	01:54	11.69	1.00	0.53
ESWMM81	CONDUIT	374.26	0	01:54	24.04	0.30	0.49
ESWMM14	CONDUIT	55.20	0	01:47	2.33	0.49	1.00
ESWMM13	CONDUIT	59.14	0	01:47	2.56	0.55	1.00
ESWMM125	CONDUIT	47.69	0	00:14	7.66	0.19	0.58
ESWMM71A	CONDUIT	278.19	0	03:14	5.53	0.44	1.00
ESWMM126	CONDUIT	93.23	0	01:50	1.85	1.74	1.00
ESWMM127	CONDUIT	118.47	0	01:31	10.06	5.62	1.00
ESWMM128	CONDUIT	37.02	0	00:16	9.23	0.15	0.88
ESWMM129	CONDUIT	65.07	0	01:29	6.61	0.34	1.00
60SDTOBPS	CONDUIT	88.01	0	01:35	6.38	0.39	1.00
ESWMM134	CONDUIT	77.47	0	01:31	5.16	0.78	1.00
ESWMM135	CONDUIT	218.89	0	01:54	9.92	2.60	0.88
ESWMM53	CONDUIT	136.99	0	01:35	4.85	0.59	1.00
ESWMM75	CONDUIT	283.18	0	02:59	5.84	1.48	0.98
1F.H.SWMM5	CONDUIT	31.12	0	01:57	3.05	0.61	0.77
1F.H.SWMM6	CONDUIT	31.10	0	01:59	3.68	0.60	0.64
1F.H.SWMM7	CONDUIT	59.07	0	01:52	7.95	0.61	0.57
ESWMM201	CONDUIT	13.60	0	01:45	7.78	8.63	1.00
ESWMM203	CONDUIT	11.39	0	02:23	9.67	0.08	0.94
ESWMM200	CONDUIT	47.28	0	01:30	3.40	0.40	0.99
ESWMM202	CONDUIT	2.06	0	01:46	1.16	0.03	0.48
ESWMM500	CONDUIT	59.45	0	05:37	4.73	1.30	1.00
ESWMM74	CONDUIT	278.19	0	03:14	5.53	0.93	1.00
ESWMM74A	CONDUIT	283.16	0	02:59	5.41	1.15	1.00
1F.E.SWMM1	CONDUIT	52.60	0	01:43	4.19	1.97	1.00
1F.E.SWMM2	CONDUIT	104.00	0	01:34	8.29	2.28	1.00
1F.H.SWMM11	CONDUIT	111.75	0	02:15	10.07	4.54	1.00
1F.H.SWMM12	CONDUIT	189.10	0	03:51	23.57	1.43	1.00
1F.H.SWMM13	CONDUIT	59.45	0	03:09	8.41	1.36	1.00
1F.H.SWMM14	CONDUIT	59.45	0	03:09	4.73	2.04	1.00
1F.J.SWMM3	CONDUIT	103.97	0	01:34	8.83	1.46	0.89
1F.K.SWMM2	CONDUIT	44.85	0	01:30	3.57	0.67	1.00
1F.E.SWMM5	CONDUIT	59.13	0	03:37	4.71	2.10	1.00
1F.K.SWMM3	CONDUIT	84.72	0	01:35	6.74	1.27	1.00
1F.K.SWMM4	CONDUIT	59.12	0	03:35	4.70	0.89	1.00
1F.L.SWMM5	CONDUIT	70.75	0	01:35	7.35	1.35	1.00
1F.L.SWMM4	CONDUIT	86.65	0	01:30	6.17	0.99	1.00
1FLSWMM1	CONDUIT	77.86	0	01:30	2.75	0.48	1.00
WEIRPIPE	CONDUIT	76.86	0	01:29	3.85	4.79	1.00
BROADWAYPUMPSTATION	PUMP	130.00	0	01:34		1.00	
ALCALDEPUMPSTATION	PUMP	218.89	0	01:54		0.81	
URBANPUMPSTATION	PUMP	11.39	0	02:23		0.95	
BARELASPUMPSTATION	PUMP	374.26	0	01:54		0.92	
S.B.PS	PUMP	106.14	0	01:34		0.82	
WEIRIRON14TH	WEIR	24.53	0	01:48			0.21
WEIRBROADWAY	WEIR	137.04	0	01:35			1.00
NEWWEIR	WEIR	77.91	0	01:30			1.00
OUTLET	DUMMY	9.48	0	02:26			

***** Flow Classification Summary *****

Conduit	Adjusted /Actual Length	Fraction of Time in Flow Class							Avg. Froude Number	Avg. Flow Change
		Dry	Up Dry	Down Dry	Sub Crit	Sup Crit	Up Crit	Down Crit		
ESWMM57	1.00	0.01	0.00	0.00	0.05	0.00	0.00	0.94	0.32	0.0000
1F.H.SWMM8	1.00	0.01	0.00	0.00	0.37	0.00	0.00	0.62	0.31	0.0003

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1F.H.SWMM9	1.00	0.01	0.00	0.00	0.06	0.00	0.00	0.93	0.19	0.0015
1F.DSWMM1	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.06	0.0001
1F.D.SWMM2	1.00	0.01	0.00	0.00	0.99	0.00	0.00	0.00	0.27	0.0001
1F.D.SWMM4	1.00	0.01	0.00	0.00	0.99	0.00	0.00	0.00	0.23	0.0000
1F.D.SWMM5	1.00	0.01	0.00	0.00	0.00	0.04	0.00	0.96	0.30	0.0001
ESWMM41	1.00	0.09	0.00	0.00	0.03	0.00	0.00	0.88	0.13	0.0001
ESWMM42	1.00	0.00	0.00	0.00	0.03	0.00	0.00	0.97	0.03	0.0000
1F.H.SWMM10	1.00	0.01	0.00	0.00	0.21	0.00	0.00	0.78	0.36	0.0004
ESWMM32	1.00	0.01	0.00	0.00	0.99	0.00	0.00	0.00	0.14	0.0003
ESWMM58	1.00	0.01	0.00	0.00	0.02	0.00	0.00	0.97	0.58	0.0000
ESWMM59	1.00	0.01	0.00	0.00	0.99	0.00	0.00	0.00	0.05	0.0000
ESWMM60	1.00	0.01	0.00	0.00	0.99	0.00	0.00	0.00	0.09	0.0000
ESWMM91	1.00	0.01	0.00	0.00	0.99	0.00	0.00	0.00	0.13	0.0006
ESWMM92	1.00	0.01	0.00	0.00	0.21	0.00	0.00	0.78	0.29	0.0007
1F.H.SWMM1	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.33	0.0001
1F.H.SWMM2	1.00	0.00	0.00	0.00	0.78	0.00	0.00	0.22	0.44	0.0001
1F.H.SWMM3	1.00	0.00	0.00	0.00	0.04	0.00	0.00	0.96	0.34	0.0001
1F.H.SWMM4	1.00	0.00	0.00	0.00	0.04	0.00	0.00	0.96	0.52	0.0000
ESWMM5	1.00	0.00	0.00	0.00	0.21	0.00	0.00	0.79	1.00	0.0000
ESWMM6	1.00	0.87	0.09	0.00	0.04	0.00	0.00	0.00	0.01	0.0000
ESWMM93	1.00	0.01	0.00	0.00	0.17	0.00	0.00	0.82	0.65	0.0003
ESWMM94	1.00	0.01	0.00	0.00	0.99	0.00	0.00	0.00	0.45	0.0002
ESWMM96	1.00	0.01	0.00	0.00	0.73	0.00	0.00	0.26	0.40	0.0002
ESWMM97	1.00	0.01	0.00	0.00	0.99	0.00	0.00	0.00	0.40	0.0001
ESWMM98	1.00	0.01	0.00	0.00	0.99	0.00	0.00	0.00	0.38	0.0000
ESWMM61	1.00	0.01	0.00	0.00	0.99	0.00	0.00	0.00	0.26	0.0000
ESWMM62	1.00	0.01	0.00	0.00	0.99	0.00	0.00	0.00	0.53	0.0002
ESWMM63	1.00	0.00	0.00	0.00	0.20	0.00	0.00	0.79	0.76	0.0002
ESWMM64	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.21	0.0001
ESWMM65	1.52	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.24	0.0000
ESWMM66	1.00	0.00	0.00	0.00	0.99	0.00	0.00	0.00	0.53	0.0000
ESWMM67	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.16	0.0000
ESWMM68	1.00	0.01	0.00	0.00	0.99	0.00	0.00	0.00	0.50	0.0000
ESWMM69	1.00	0.01	0.00	0.00	0.08	0.00	0.00	0.92	0.73	0.0000
ESWMM30	1.00	0.01	0.00	0.00	0.99	0.00	0.00	0.00	0.25	0.0005
ESWMM29	1.00	0.01	0.00	0.00	0.02	0.00	0.00	0.97	0.48	0.0000
ESWMM28	1.00	0.93	0.00	0.00	0.03	0.00	0.00	0.03	0.03	0.0001
ESWMM27	1.00	0.01	0.00	0.00	0.99	0.00	0.00	0.00	0.03	0.0001
ESWMM26	3.14	0.01	0.00	0.00	0.03	0.00	0.96	0.00	0.08	0.0000
ESWMM25	1.00	0.01	0.00	0.00	0.04	0.00	0.00	0.95	0.35	0.0002
ESWMM24	1.00	0.00	0.01	0.00	0.99	0.00	0.00	0.00	0.25	0.0001
ESWMM50	1.00	0.01	0.00	0.00	0.00	0.00	0.99	0.00	0.05	0.0000
ESWMM51	1.00	0.00	0.00	0.00	0.06	0.04	0.00	0.90	1.35	0.0000
ESWMM52	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.02	0.0000
BLUPIPE	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.01	0.0001
ESWMM47	1.00	0.00	0.95	0.00	0.04	0.00	0.00	0.00	0.00	0.0000
ESWMM48	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.14	0.0000
ESWMM54	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.04	0.0000
ESWMM55	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.24	0.0002
ESWMM56	1.00	0.00	0.00	0.00	0.66	0.00	0.00	0.34	0.36	0.0003
ESWMM95	1.00	0.01	0.00	0.00	0.99	0.00	0.00	0.00	0.35	0.0002
48SDTOBPS	1.00	0.00	0.00	0.00	0.01	0.00	0.00	0.98	0.41	0.0000
ESWMM23	1.00	0.00	0.00	0.00	0.18	0.00	0.00	0.82	0.41	0.0001
ESWMM22	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.32	0.0001
ESWMM21	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.17	0.0000
ESWMM20	1.00	0.01	0.00	0.00	0.08	0.00	0.00	0.92	0.39	0.0001
ESWMM19	1.00	0.01	0.00	0.00	0.06	0.00	0.00	0.93	0.44	0.0001
ESWMM18	1.00	0.01	0.00	0.00	0.99	0.00	0.00	0.00	0.32	0.0001
ESWMM17	1.00	0.00	0.00	0.00	0.99	0.00	0.00	0.00	0.31	0.0001
ESWMM16	1.00	0.00	0.00	0.00	0.23	0.01	0.00	0.75	0.66	0.0001
ESWMM70	1.00	0.00	0.00	0.00	0.05	0.00	0.00	0.94	0.46	0.0000
ESWMM15	1.00	0.00	0.00	0.00	0.10	0.00	0.00	0.89	0.30	0.0001
ESWMM71	1.00	0.00	0.00	0.00	0.91	0.00	0.00	0.08	0.68	0.0000
ESWMM72	1.00	0.01	0.00	0.00	0.99	0.00	0.00	0.00	0.47	0.0000
ESWMM7	1.00	0.70	0.17	0.00	0.10	0.00	0.00	0.03	0.03	0.0000
ESWMM12	1.00	0.01	0.00	0.00	0.99	0.00	0.00	0.00	0.18	0.0000
ESWMM9	1.00	0.01	0.14	0.00	0.85	0.00	0.00	0.00	0.04	0.0000
ESWMM99	1.00	0.00	0.00	0.00	0.08	0.00	0.00	0.91	0.57	0.0000
ESWMM8	1.50	0.00	0.00	0.00	0.02	0.01	0.00	0.97	2.28	0.0000
ESWMM10	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.32	0.0000
ESWMM11	1.00	0.00	0.01	0.00	0.99	0.00	0.00	0.00	0.36	0.0000
ESWMM90	1.00	0.01	0.00	0.00	0.25	0.00	0.00	0.74	0.36	0.0000

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ESWMM89	1.00	0.01	0.00	0.00	0.27	0.00	0.00	0.73	0.41	0.0000
ESWMM88	1.00	0.01	0.00	0.00	0.99	0.00	0.00	0.00	0.46	0.0000
ESWMM87	1.00	0.01	0.00	0.00	0.99	0.00	0.00	0.00	0.11	0.0000
ESWMM86	1.00	0.01	0.00	0.00	0.99	0.00	0.00	0.00	0.38	0.0000
ESWMM85	1.00	0.01	0.00	0.00	0.83	0.17	0.00	0.00	0.49	0.0000
ESWMM84	1.00	0.01	0.07	0.00	0.92	0.00	0.00	0.00	0.13	0.0000
ESWMM83	1.00	0.01	0.00	0.00	0.99	0.00	0.00	0.00	0.03	0.0000
ESWMM82	1.00	0.00	0.00	0.00	0.99	0.00	0.00	0.00	0.01	0.0000
ESWMM73	1.00	0.01	0.00	0.00	0.99	0.00	0.00	0.00	0.39	0.0000
ESWMM76	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.48	0.0000
ESWMM77	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.42	0.0000
ESWMM78	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.43	0.0000
ESWMM79	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.39	0.0000
ESWMM80	1.00	0.00	0.00	0.00	0.95	0.04	0.00	0.00	0.58	0.0000
ESWMM81	1.00	0.01	0.00	0.00	0.37	0.62	0.00	0.00	1.97	0.0003
ESWMM14	1.00	0.00	0.00	0.00	0.36	0.00	0.00	0.63	0.32	0.0001
ESWMM13	1.00	0.10	0.82	0.00	0.07	0.00	0.00	0.00	0.00	0.0000
ESWMM125	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.10	0.0000
ESWMM71A	1.00	0.01	0.00	0.00	0.99	0.00	0.00	0.00	0.69	0.0000
ESWMM126	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.01	0.0002
ESWMM127	1.00	0.00	0.00	0.00	0.04	0.00	0.00	0.96	0.28	0.0032
ESWMM128	1.00	0.00	0.09	0.00	0.90	0.00	0.00	0.00	0.03	0.0000
ESWMM129	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.18	0.0000
60SDTOBPS	1.00	0.00	0.00	0.00	0.01	0.00	0.00	0.98	0.85	0.0000
ESWMM134	1.00	0.00	0.40	0.00	0.60	0.00	0.00	0.00	0.08	0.0000
ESWMM135	1.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.62	0.0000
ESWMM53	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.02	0.0000
ESWMM75	1.00	0.00	0.00	0.00	0.99	0.00	0.00	0.00	0.37	0.0000
1F.H.SWMM5	1.00	0.01	0.00	0.00	0.99	0.00	0.00	0.00	0.18	0.0000
1F.H.SWMM6	1.00	0.01	0.00	0.00	0.99	0.00	0.00	0.00	0.39	0.0000
1F.H.SWMM7	1.00	0.01	0.00	0.00	0.00	0.00	0.00	0.99	0.89	0.0000
ESWMM201	1.00	0.01	0.00	0.00	0.99	0.00	0.00	0.00	0.21	0.0000
ESWMM203	1.00	0.01	0.02	0.00	0.84	0.14	0.00	0.00	0.32	0.0000
ESWMM200	1.00	0.01	0.00	0.00	0.99	0.00	0.00	0.00	0.05	0.0000
ESWMM202	1.00	0.01	0.01	0.00	0.98	0.00	0.00	0.00	0.00	0.0000
ESWMM500	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.43	0.0000
ESWMM74	1.00	0.01	0.00	0.00	0.99	0.00	0.00	0.00	0.42	0.0000
ESWMM74A	1.00	0.01	0.00	0.00	0.99	0.00	0.00	0.00	0.12	0.0000
1F.E.SWMM1	1.00	0.00	0.00	0.00	0.99	0.00	0.00	0.00	0.12	0.0001
1F.E.SWMM2	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.34	0.0001
1F.H.SWMM11	1.00	0.01	0.00	0.00	0.99	0.00	0.00	0.00	0.27	0.0014
1F.H.SWMM12	1.00	0.01	0.00	0.00	0.99	0.01	0.00	0.00	0.41	0.0005
1F.H.SWMM13	1.00	0.01	0.00	0.00	0.99	0.00	0.00	0.00	0.39	0.0002
1F.H.SWMM14	1.00	0.01	0.00	0.00	0.99	0.00	0.00	0.00	0.27	0.0003
1F.J.SWMM3	1.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.67	0.0000
1F.K.SWMM2	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.34	0.0003
1F.E.SWMM5	1.00	0.00	0.00	0.00	0.31	0.00	0.00	0.69	0.34	0.0001
1F.K.SWMM3	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.46	0.0008
1F.K.SWMM4	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.26	0.0000
1F.L.SWMM5	1.00	0.00	0.00	0.00	0.84	0.15	0.00	0.00	0.60	0.0000
1F.L.SWMM4	1.00	0.01	0.00	0.00	0.99	0.00	0.00	0.00	0.18	0.0000
1FLSWMM1	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.0000
WEIRPIPE	1.00	0.01	0.00	0.00	0.99	0.00	0.00	0.00	0.01	0.0001

***** Conduit Surcharge Summary *****

Conduit	Hours Full			Hours	Hours
	Both Ends	Upstream	Dnstream	Above Full Normal Flow	Capacity Limited
1F.H.SWMM8	2.61	2.61	2.68	0.01	0.08
1F.H.SWMM9	4.93	4.93	4.94	3.16	4.12
1F.DSWMM1	0.69	0.69	0.69	0.17	0.22
1F.D.SWMM2	0.65	0.65	0.66	0.02	0.16
1F.D.SWMM5	1.82	1.82	1.84	0.01	0.13
ESWMM41	1.89	1.89	1.89	0.34	0.07
1F.H.SWMM10	4.63	4.63	4.66	0.05	0.65
ESWMM32	5.56	5.56	5.61	4.03	3.94

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ESWMM91	1.98	1.98	1.98	3.00	1.07
ESWMM92	1.52	1.52	1.57	3.35	1.38
1F.H.SWMM1	0.95	0.95	0.97	0.01	0.01
1F.H.SWMM2	1.53	1.53	1.53	0.01	0.01
1F.H.SWMM3	3.81	3.81	3.81	1.64	1.69
1F.H.SWMM4	4.53	4.53	4.53	4.13	4.52
ESWMM5	4.71	4.71	4.71	0.01	4.51
ESWMM6	0.07	0.07	0.07	2.49	0.07
ESWMM93	1.93	1.93	1.93	1.50	0.95
ESWMM94	1.44	1.44	1.47	0.17	0.76
ESWMM96	1.26	1.26	1.26	1.23	0.56
ESWMM97	0.76	0.76	0.77	0.01	0.16
ESWMM98	0.22	0.22	0.23	0.16	0.20
ESWMM62	1.65	1.65	1.66	0.01	0.39
ESWMM63	1.78	1.78	1.78	0.01	0.38
ESWMM64	2.04	2.04	2.04	0.25	1.63
ESWMM65	1.53	1.53	1.53	0.01	0.01
ESWMM66	1.53	1.53	1.53	0.01	0.14
ESWMM67	1.78	1.78	1.78	0.01	1.78
ESWMM68	1.33	1.33	1.33	0.01	0.13
ESWMM69	1.90	1.90	1.90	0.01	0.18
ESWMM30	4.52	4.52	4.61	4.21	3.92
ESWMM29	0.32	0.32	0.33	0.01	0.15
ESWMM28	0.64	0.64	0.65	0.01	0.13
ESWMM27	0.95	0.95	0.95	1.14	0.76
ESWMM26	0.64	0.64	0.64	0.01	0.01
ESWMM25	1.27	1.27	1.27	0.11	0.97
ESWMM24	0.67	0.67	0.71	0.01	0.09
ESWMM50	0.23	0.23	0.23	0.80	0.01
ESWMM51	0.38	0.38	0.39	0.01	0.03
ESWMM52	1.07	1.07	1.07	0.35	0.68
BLUPIPE	0.92	0.92	0.92	0.70	0.48
ESWMM47	0.36	0.36	0.36	0.01	0.01
ESWMM48	0.68	0.68	0.68	0.01	0.01
ESWMM54	0.66	0.66	0.66	0.01	0.12
ESWMM55	1.05	1.05	1.10	0.01	0.35
ESWMM56	1.51	1.51	1.57	0.16	0.32
ESWMM95	1.46	1.46	1.47	0.12	0.63
48SDTOBPS	1.19	1.19	1.19	0.49	1.18
ESWMM23	0.11	0.11	0.12	0.01	0.01
ESWMM22	1.22	1.22	1.25	0.11	1.03
ESWMM21	1.40	1.40	1.41	0.01	0.18
ESWMM20	1.87	1.87	1.88	0.01	0.30
ESWMM19	2.15	2.15	2.16	0.08	1.42
ESWMM18	2.29	2.29	2.30	0.03	0.66
ESWMM17	2.29	2.29	2.30	0.42	1.97
ESWMM16	2.34	2.34	2.35	0.01	0.11
ESWMM70	1.96	1.96	1.96	0.01	0.32
ESWMM15	2.05	2.05	2.07	0.01	0.10
ESWMM71	2.10	2.10	2.10	0.01	0.47
ESWMM72	2.59	2.59	2.59	0.01	2.57
ESWMM7	0.02	0.02	0.02	0.15	0.02
ESWMM12	0.01	0.01	0.01	1.91	0.01
ESWMM9	0.12	0.12	0.12	0.01	0.01
ESWMM99	0.01	0.01	0.01	0.55	0.01
ESWMM8	0.14	0.14	0.14	0.01	0.01
ESWMM10	2.28	2.28	2.28	4.76	2.28
ESWMM83	3.29	3.29	3.30	0.05	0.24
ESWMM82	3.33	3.33	3.33	0.77	0.69
ESWMM73	2.58	2.58	2.58	2.23	2.56
ESWMM77	0.01	0.01	0.01	0.55	0.01
ESWMM78	0.01	0.01	0.01	2.69	0.01
ESWMM79	0.01	0.01	0.01	0.33	0.01
ESWMM14	1.59	1.59	1.60	0.01	0.15
ESWMM13	0.26	0.26	0.27	0.01	0.02
ESWMM71A	2.56	2.56	2.56	0.01	0.01
ESWMM126	2.56	2.56	2.56	0.16	1.15
ESWMM127	3.05	3.05	3.17	4.89	1.17
ESWMM129	2.91	2.91	2.91	0.01	0.01
60SDTOBPS	1.01	1.01	1.01	0.01	0.01
ESWMM134	0.93	0.93	0.93	0.01	0.02
ESWMM135	0.01	0.01	0.01	4.81	0.01

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ESWMM53	0.67	0.67	0.67	0.01	0.01
ESWMM75	0.01	0.01	0.01	3.19	0.01
ESWMM201	1.76	1.76	1.76	3.30	1.76
ESWMM500	4.60	4.60	4.60	4.86	4.60
ESWMM74	2.58	2.58	2.58	0.01	2.22
ESWMM74A	0.44	0.44	0.44	2.73	0.44
1F.E.SWMM1	0.69	0.69	0.69	0.74	0.45
1F.E.SWMM2	0.13	0.13	0.14	0.87	0.13
1F.H.SWMM11	5.99	5.99	6.07	4.03	3.24
1F.H.SWMM12	6.24	6.24	6.30	0.03	0.65
1F.H.SWMM13	8.29	8.29	8.29	4.57	6.65
1F.H.SWMM14	6.36	6.36	6.44	7.74	5.71
1F.J.SWMM3	0.01	0.01	0.01	0.57	0.01
1F.K.SWMM2	3.75	3.75	3.77	0.01	0.65
1F.E.SWMM5	5.62	5.62	5.62	5.40	5.06
1F.K.SWMM3	5.06	5.06	5.06	0.10	1.86
1F.K.SWMM4	5.14	5.14	5.14	0.01	2.29
1F.L.SWMM5	1.12	1.12	1.12	0.10	0.24
1F.L.SWMM4	0.92	0.92	0.92	0.01	0.74
1FLSWMM1	0.93	0.93	0.93	0.01	0.06
WEIRPIPE	0.73	0.73	0.73	1.67	0.06

Pumping Summary

Pump	Percent Utilized	Number of Start-Ups	Min Flow CFS	Avg Flow CFS	Max Flow CFS	Total Volume 10^6 gal	Power Usage Kw-hr	% Time Off Pump Curve	Low	High
BROADWAYPUMPSTATION	87.89	83	0.00	2.02	130.00	5.991	2990.11	98.7	0.1	
ALCALDEPUMPSTATION	99.29	37	0.00	9.16	218.89	31.828	2893.02	98.5	0.0	
URBANPUMPSTATION	3.49	1645	0.00	7.39	11.39	0.954	46.74	42.2	0.0	
BARELASPUMPSTATION	97.66	3172	0.00	18.10	374.26	61.418	6237.72	96.3	0.0	
S.B.PS	18.21	13815	0.00	24.18	106.14	15.664	956.54	0.0	0.0	

Analysis begun on: Tue Jan 24 16:52:05 2012
Analysis ended on: Tue Jan 24 16:54:54 2012
Total elapsed time: 00:02:49