



TOWNSHIP of HOPEWELL
MERCER COUNTY

201 WASHINGTON CROSSING – PENNINGTON ROAD
TITUSVILLE, NEW JERSEY 08560-1410

PROJECT / APPLICATION

BLOCK: 93

LOT: 19, 20, 45.01, 46, p/o 60

ADDRESS: 61 NURSERY RD., SCOTCH RD., NURSERY RD., NURSERY RD., 137 NURSERY RD.

PROJECT NAME: MAJOR SUBDIVISION, PRELIMINARY/FINAL AND SITE PLAN,
PRELIMINARY/FINAL (VENUE AT HOPEWELL)

SWM Revised 3.31.25
Pages 1001-2000

Stage-Discharge for Pond B-7: Basin #7 (continued)

Elevation (feet)	Primary (cfs)
210.63	352.51
210.64	355.55
210.65	358.61
210.66	361.68
210.67	364.76
210.68	367.84
210.69	370.94
210.70	374.05
210.71	377.17
210.72	380.30
210.73	383.45
210.74	386.60
210.75	389.76
210.76	392.93
210.77	396.12
210.78	399.31
210.79	402.51
210.80	405.73
210.81	408.95
210.82	412.19
210.83	415.43
210.84	418.69
210.85	421.96
210.86	425.23
210.87	428.58
210.88	431.94
210.89	435.32
210.90	438.70
210.91	442.09
210.92	445.50
210.93	448.92
210.94	452.35
210.95	455.79
210.96	459.24
210.97	462.70
210.98	466.18
210.99	469.66
211.00	473.16

Stage-Area-Storage for Pond B-7: Basin #7

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
206.47	0	0	206.99	6,298	1,637
206.48	121	1	207.00	6,419	1,701
206.49	242	2	207.01	6,429	1,765
206.50	363	5	207.02	6,439	1,830
206.51	484	10	207.03	6,448	1,894
206.52	606	15	207.04	6,458	1,959
206.53	727	22	207.05	6,468	2,023
206.54	848	30	207.06	6,478	2,088
206.55	969	39	207.07	6,487	2,153
206.56	1,090	49	207.08	6,497	2,218
206.57	1,211	61	207.09	6,507	2,283
206.58	1,332	73	207.10	6,517	2,348
206.59	1,453	87	207.11	6,526	2,413
206.60	1,574	102	207.12	6,536	2,478
206.61	1,696	119	207.13	6,546	2,544
206.62	1,817	136	207.14	6,556	2,609
206.63	1,938	155	207.15	6,565	2,675
206.64	2,059	175	207.16	6,575	2,741
206.65	2,180	196	207.17	6,585	2,806
206.66	2,301	219	207.18	6,595	2,872
206.67	2,422	242	207.19	6,604	2,938
206.68	2,543	267	207.20	6,614	3,004
206.69	2,664	293	207.21	6,624	3,071
206.70	2,786	320	207.22	6,634	3,137
206.71	2,907	349	207.23	6,643	3,203
206.72	3,028	378	207.24	6,653	3,270
206.73	3,149	409	207.25	6,663	3,336
206.74	3,270	441	207.26	6,673	3,403
206.75	3,391	475	207.27	6,683	3,470
206.76	3,512	509	207.28	6,692	3,537
206.77	3,633	545	207.29	6,702	3,604
206.78	3,755	582	207.30	6,712	3,671
206.79	3,876	620	207.31	6,722	3,738
206.80	3,997	659	207.32	6,731	3,805
206.81	4,118	700	207.33	6,741	3,872
206.82	4,239	742	207.34	6,751	3,940
206.83	4,360	785	207.35	6,761	4,007
206.84	4,481	829	207.36	6,770	4,075
206.85	4,602	874	207.37	6,780	4,143
206.86	4,723	921	207.38	6,790	4,211
206.87	4,845	969	207.39	6,800	4,279
206.88	4,966	1,018	207.40	6,809	4,347
206.89	5,087	1,068	207.41	6,819	4,415
206.90	5,208	1,120	207.42	6,829	4,483
206.91	5,329	1,172	207.43	6,839	4,551
206.92	5,450	1,226	207.44	6,848	4,620
206.93	5,571	1,281	207.45	6,858	4,688
206.94	5,692	1,338	207.46	6,868	4,757
206.95	5,813	1,395	207.47	6,878	4,826
206.96	5,935	1,454	207.48	6,887	4,895
206.97	6,056	1,514	207.49	6,897	4,964
206.98	6,177	1,575	207.50	6,907	5,033

Stage-Area-Storage for Pond B-7: Basin #7 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
207.51	6,917	5,102	208.03	7,426	8,830
207.52	6,927	5,171	208.04	7,436	8,905
207.53	6,936	5,240	208.05	7,447	8,979
207.54	6,946	5,310	208.06	7,457	9,054
207.55	6,956	5,379	208.07	7,467	9,128
207.56	6,966	5,449	208.08	7,478	9,203
207.57	6,975	5,518	208.09	7,488	9,278
207.58	6,985	5,588	208.10	7,498	9,353
207.59	6,995	5,658	208.11	7,509	9,428
207.60	7,005	5,728	208.12	7,519	9,503
207.61	7,014	5,798	208.13	7,529	9,578
207.62	7,024	5,868	208.14	7,540	9,653
207.63	7,034	5,939	208.15	7,550	9,729
207.64	7,044	6,009	208.16	7,560	9,804
207.65	7,053	6,080	208.17	7,571	9,880
207.66	7,063	6,150	208.18	7,581	9,956
207.67	7,073	6,221	208.19	7,591	10,032
207.68	7,083	6,292	208.20	7,602	10,108
207.69	7,092	6,362	208.21	7,612	10,184
207.70	7,102	6,433	208.22	7,622	10,260
207.71	7,112	6,505	208.23	7,633	10,336
207.72	7,122	6,576	208.24	7,643	10,413
207.73	7,131	6,647	208.25	7,654	10,489
207.74	7,141	6,718	208.26	7,664	10,566
207.75	7,151	6,790	208.27	7,674	10,642
207.76	7,161	6,861	208.28	7,685	10,719
207.77	7,171	6,933	208.29	7,695	10,796
207.78	7,180	7,005	208.30	7,705	10,873
207.79	7,190	7,077	208.31	7,716	10,950
207.80	7,200	7,149	208.32	7,726	11,027
207.81	7,210	7,221	208.33	7,736	11,105
207.82	7,219	7,293	208.34	7,747	11,182
207.83	7,229	7,365	208.35	7,757	11,260
207.84	7,239	7,437	208.36	7,767	11,337
207.85	7,249	7,510	208.37	7,778	11,415
207.86	7,258	7,582	208.38	7,788	11,493
207.87	7,268	7,655	208.39	7,798	11,571
207.88	7,278	7,728	208.40	7,809	11,649
207.89	7,288	7,800	208.41	7,819	11,727
207.90	7,297	7,873	208.42	7,829	11,805
207.91	7,307	7,946	208.43	7,840	11,883
207.92	7,317	8,020	208.44	7,850	11,962
207.93	7,327	8,093	208.45	7,860	12,040
207.94	7,336	8,166	208.46	7,871	12,119
207.95	7,346	8,240	208.47	7,881	12,198
207.96	7,356	8,313	208.48	7,891	12,277
207.97	7,366	8,387	208.49	7,902	12,356
207.98	7,375	8,460	208.50	7,912	12,435
207.99	7,385	8,534	208.51	7,922	12,514
208.00	7,395	8,608	208.52	7,933	12,593
208.01	7,405	8,682	208.53	7,943	12,673
208.02	7,416	8,756	208.54	7,953	12,752

Stage-Area-Storage for Pond B-7: Basin #7 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
208.55	7,964	12,832	209.07	8,503	17,113
208.56	7,974	12,911	209.08	8,513	17,198
208.57	7,984	12,991	209.09	8,524	17,283
208.58	7,995	13,071	209.10	8,534	17,368
208.59	8,005	13,151	209.11	8,545	17,454
208.60	8,015	13,231	209.12	8,556	17,539
208.61	8,026	13,311	209.13	8,566	17,625
208.62	8,036	13,392	209.14	8,577	17,710
208.63	8,046	13,472	209.15	8,587	17,796
208.64	8,057	13,553	209.16	8,598	17,882
208.65	8,067	13,633	209.17	8,608	17,968
208.66	8,077	13,714	209.18	8,619	18,054
208.67	8,088	13,795	209.19	8,629	18,141
208.68	8,098	13,876	209.20	8,640	18,227
208.69	8,108	13,957	209.21	8,651	18,313
208.70	8,119	14,038	209.22	8,661	18,400
208.71	8,129	14,119	209.23	8,672	18,487
208.72	8,139	14,200	209.24	8,682	18,573
208.73	8,150	14,282	209.25	8,693	18,660
208.74	8,160	14,363	209.26	8,703	18,747
208.75	8,171	14,445	209.27	8,714	18,834
208.76	8,181	14,527	209.28	8,724	18,922
208.77	8,191	14,609	209.29	8,735	19,009
208.78	8,202	14,691	209.30	8,746	19,096
208.79	8,212	14,773	209.31	8,756	19,184
208.80	8,222	14,855	209.32	8,767	19,271
208.81	8,233	14,937	209.33	8,777	19,359
208.82	8,243	15,020	209.34	8,788	19,447
208.83	8,253	15,102	209.35	8,798	19,535
208.84	8,264	15,185	209.36	8,809	19,623
208.85	8,274	15,267	209.37	8,819	19,711
208.86	8,284	15,350	209.38	8,830	19,799
208.87	8,295	15,433	209.39	8,840	19,888
208.88	8,305	15,516	209.40	8,851	19,976
208.89	8,315	15,599	209.41	8,862	20,065
208.90	8,326	15,682	209.42	8,872	20,153
208.91	8,336	15,766	209.43	8,883	20,242
208.92	8,346	15,849	209.44	8,893	20,331
208.93	8,357	15,933	209.45	8,904	20,420
208.94	8,367	16,016	209.46	8,914	20,509
208.95	8,377	16,100	209.47	8,925	20,598
208.96	8,388	16,184	209.48	8,935	20,687
208.97	8,398	16,268	209.49	8,946	20,777
208.98	8,408	16,352	209.50	8,957	20,866
208.99	8,419	16,436	209.51	8,967	20,956
209.00	8,429	16,520	209.52	8,978	21,046
209.01	8,440	16,604	209.53	8,988	21,136
209.02	8,450	16,689	209.54	8,999	21,226
209.03	8,461	16,773	209.55	9,009	21,316
209.04	8,471	16,858	209.56	9,020	21,406
209.05	8,482	16,943	209.57	9,030	21,496
209.06	8,492	17,028	209.58	9,041	21,586

Stage-Area-Storage for Pond B-7: Basin #7 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
209.59	9,051	21,677	210.11	9,609	26,527
209.60	9,062	21,767	210.12	9,621	26,623
209.61	9,073	21,858	210.13	9,632	26,719
209.62	9,083	21,949	210.14	9,643	26,815
209.63	9,094	22,040	210.15	9,655	26,912
209.64	9,104	22,131	210.16	9,666	27,009
209.65	9,115	22,222	210.17	9,678	27,105
209.66	9,125	22,313	210.18	9,689	27,202
209.67	9,136	22,404	210.19	9,700	27,299
209.68	9,146	22,496	210.20	9,712	27,396
209.69	9,157	22,587	210.21	9,723	27,493
209.70	9,167	22,679	210.22	9,735	27,591
209.71	9,178	22,771	210.23	9,746	27,688
209.72	9,189	22,862	210.24	9,757	27,785
209.73	9,199	22,954	210.25	9,769	27,883
209.74	9,210	23,046	210.26	9,780	27,981
209.75	9,220	23,139	210.27	9,792	28,079
209.76	9,231	23,231	210.28	9,803	28,177
209.77	9,241	23,323	210.29	9,814	28,275
209.78	9,252	23,416	210.30	9,826	28,373
209.79	9,262	23,508	210.31	9,837	28,471
209.80	9,273	23,601	210.32	9,848	28,570
209.81	9,284	23,694	210.33	9,860	28,668
209.82	9,294	23,787	210.34	9,871	28,767
209.83	9,305	23,879	210.35	9,883	28,866
209.84	9,315	23,973	210.36	9,894	28,965
209.85	9,326	24,066	210.37	9,905	29,064
209.86	9,336	24,159	210.38	9,917	29,163
209.87	9,347	24,253	210.39	9,928	29,262
209.88	9,357	24,346	210.40	9,940	29,361
209.89	9,368	24,440	210.41	9,951	29,461
209.90	9,379	24,533	210.42	9,962	29,560
209.91	9,389	24,627	210.43	9,974	29,660
209.92	9,400	24,721	210.44	9,985	29,760
209.93	9,410	24,815	210.45	9,997	29,860
209.94	9,421	24,909	210.46	10,008	29,960
209.95	9,431	25,004	210.47	10,019	30,060
209.96	9,442	25,098	210.48	10,031	30,160
209.97	9,452	25,192	210.49	10,042	30,260
209.98	9,463	25,287	210.50	10,054	30,361
209.99	9,473	25,382	210.51	10,065	30,462
210.00	9,484	25,477	210.52	10,076	30,562
210.01	9,495	25,571	210.53	10,088	30,663
210.02	9,507	25,666	210.54	10,099	30,764
210.03	9,518	25,762	210.55	10,110	30,865
210.04	9,530	25,857	210.56	10,122	30,966
210.05	9,541	25,952	210.57	10,133	31,067
210.06	9,552	26,048	210.58	10,145	31,169
210.07	9,564	26,143	210.59	10,156	31,270
210.08	9,575	26,239	210.60	10,167	31,372
210.09	9,587	26,335	210.61	10,179	31,474
210.10	9,598	26,431	210.62	10,190	31,576

Stage-Area-Storage for Pond B-7: Basin #7 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
210.63	10,202	31,677
210.64	10,213	31,780
210.65	10,224	31,882
210.66	10,236	31,984
210.67	10,247	32,086
210.68	10,259	32,189
210.69	10,270	32,292
210.70	10,281	32,394
210.71	10,293	32,497
210.72	10,304	32,600
210.73	10,315	32,703
210.74	10,327	32,807
210.75	10,338	32,910
210.76	10,350	33,013
210.77	10,361	33,117
210.78	10,372	33,221
210.79	10,384	33,324
210.80	10,395	33,428
210.81	10,407	33,532
210.82	10,418	33,636
210.83	10,429	33,741
210.84	10,441	33,845
210.85	10,452	33,949
210.86	10,464	34,054
210.87	10,475	34,159
210.88	10,486	34,263
210.89	10,498	34,368
210.90	10,509	34,473
210.91	10,520	34,579
210.92	10,532	34,684
210.93	10,543	34,789
210.94	10,555	34,895
210.95	10,566	35,000
210.96	10,577	35,106
210.97	10,589	35,212
210.98	10,600	35,318
210.99	10,612	35,424
211.00	10,623	35,530

Summary for Pond B-8: Basin #8

Inflow Area = 2.090 ac, 23.06% Impervious, Inflow Depth = 6.12" for Current 100 yr event
 Inflow = 13.40 cfs @ 12.17 hrs, Volume= 1.067 af
 Outflow = 6.27 cfs @ 12.36 hrs, Volume= 0.933 af, Atten= 53%, Lag= 11.1 min
 Primary = 6.27 cfs @ 12.36 hrs, Volume= 0.933 af
 Routed to Link PDA-1 : Proposed Drainage Area #1

Routing by Stor-Ind method, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 Peak Elev= 180.40' @ 12.36 hrs Surf.Area= 14,686 sf Storage= 19,627 cf

Plug-Flow detention time= 272.6 min calculated for 0.932 af (87% of inflow)
 Center-of-Mass det. time= 213.5 min (1,009.9 - 796.4)

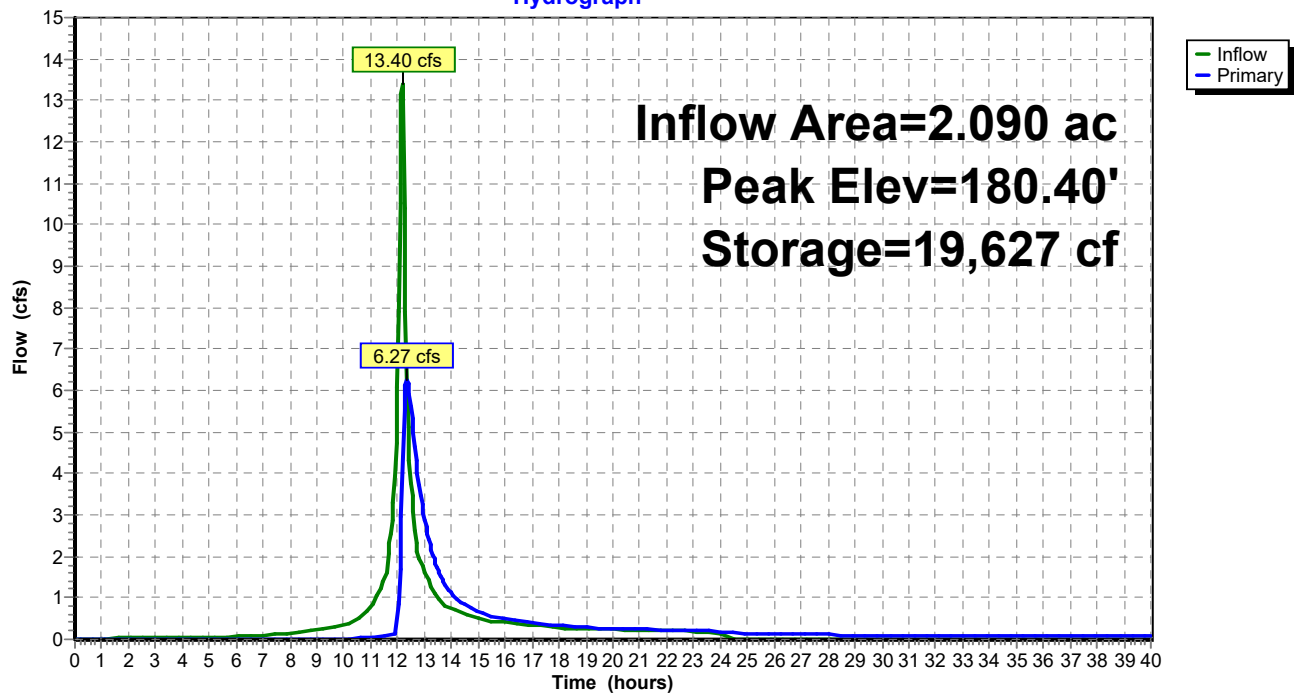
Volume	Invert	Avail.Storage	Storage Description
#1	179.00'	44,379 cf	Custom Stage Data (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
179.00	13,283	0	0
180.00	14,274	13,779	13,779
181.00	15,293	14,784	28,562
182.00	16,341	15,817	44,379

Device	Routing	Invert	Outlet Devices
#1	Primary	178.23'	18.0" Round Culvert L= 46.0' Ke= 0.500 Inlet / Outlet Invert= 178.23' / 178.00' S= 0.0050 '/' Cc= 0.900 n= 0.013, Flow Area= 1.77 sf
#2	Device 1	179.17'	2.5" Vert. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#3	Device 1	179.79'	4.0' long Sharp-Crested Rectangular Weir 2 End Contraction(s)
#4	Primary	180.83'	50.0' long + 3.0 '/' SideZ x 5.0' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 Coef. (English) 2.34 2.50 2.70 2.68 2.68 2.66 2.65 2.65 2.65 2.65 2.67 2.66 2.68 2.70 2.74 2.79 2.88

Primary OutFlow Max=6.26 cfs @ 12.36 hrs HW=180.40' (Free Discharge)

1=Culvert (Passes 6.26 cfs of 8.81 cfs potential flow)
 2=Orifice/Grate (Orifice Controls 0.17 cfs @ 5.12 fps)
 3=Sharp-Crested Rectangular Weir (Weir Controls 6.08 cfs @ 2.56 fps)
 4=Broad-Crested Rectangular Weir (Controls 0.00 cfs)

Pond B-8: Basin #8**Hydrograph**

Stage-Discharge for Pond B-8: Basin #8

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
179.00	0.00	179.52	0.08	180.04	1.76	180.56	8.68
179.01	0.00	179.53	0.08	180.05	1.86	180.57	8.85
179.02	0.00	179.54	0.08	180.06	1.96	180.58	9.01
179.03	0.00	179.55	0.09	180.07	2.06	180.59	9.17
179.04	0.00	179.56	0.09	180.08	2.16	180.60	9.34
179.05	0.00	179.57	0.09	180.09	2.27	180.61	9.50
179.06	0.00	179.58	0.09	180.10	2.37	180.62	9.67
179.07	0.00	179.59	0.09	180.11	2.48	180.63	9.84
179.08	0.00	179.60	0.09	180.12	2.59	180.64	9.90
179.09	0.00	179.61	0.10	180.13	2.70	180.65	9.94
179.10	0.00	179.62	0.10	180.14	2.81	180.66	9.98
179.11	0.00	179.63	0.10	180.15	2.93	180.67	10.03
179.12	0.00	179.64	0.10	180.16	3.04	180.68	10.07
179.13	0.00	179.65	0.10	180.17	3.16	180.69	10.11
179.14	0.00	179.66	0.10	180.18	3.28	180.70	10.15
179.15	0.00	179.67	0.10	180.19	3.40	180.71	10.19
179.16	0.00	179.68	0.10	180.20	3.52	180.72	10.24
179.17	0.00	179.69	0.11	180.21	3.64	180.73	10.28
179.18	0.00	179.70	0.11	180.22	3.77	180.74	10.32
179.19	0.00	179.71	0.11	180.23	3.89	180.75	10.36
179.20	0.00	179.72	0.11	180.24	4.02	180.76	10.40
179.21	0.00	179.73	0.11	180.25	4.15	180.77	10.44
179.22	0.00	179.74	0.11	180.26	4.28	180.78	10.49
179.23	0.01	179.75	0.11	180.27	4.41	180.79	10.53
179.24	0.01	179.76	0.11	180.28	4.54	180.80	10.57
179.25	0.01	179.77	0.12	180.29	4.67	180.81	10.61
179.26	0.01	179.78	0.12	180.30	4.81	180.82	10.65
179.27	0.02	179.79	0.12	180.31	4.94	180.83	10.69
179.28	0.02	179.80	0.13	180.32	5.08	180.84	10.85
179.29	0.02	179.81	0.16	180.33	5.22	180.85	11.10
179.30	0.03	179.82	0.19	180.34	5.36	180.86	11.42
179.31	0.03	179.83	0.23	180.35	5.50	180.87	11.79
179.32	0.03	179.84	0.27	180.36	5.64	180.88	12.20
179.33	0.04	179.85	0.32	180.37	5.78	180.89	12.65
179.34	0.04	179.86	0.37	180.38	5.93	180.90	13.14
179.35	0.05	179.87	0.42	180.39	6.07	180.91	13.66
179.36	0.05	179.88	0.48	180.40	6.22	180.92	14.22
179.37	0.05	179.89	0.54	180.41	6.36	180.93	14.80
179.38	0.05	179.90	0.60	180.42	6.51	180.94	15.41
179.39	0.06	179.91	0.67	180.43	6.66	180.95	16.05
179.40	0.06	179.92	0.74	180.44	6.81	180.96	16.72
179.41	0.06	179.93	0.81	180.45	6.96	180.97	17.41
179.42	0.06	179.94	0.89	180.46	7.11	180.98	18.12
179.43	0.06	179.95	0.97	180.47	7.26	180.99	18.86
179.44	0.07	179.96	1.04	180.48	7.42	181.00	19.62
179.45	0.07	179.97	1.13	180.49	7.57	181.01	20.40
179.46	0.07	179.98	1.21	180.50	7.73	181.02	21.20
179.47	0.07	179.99	1.30	180.51	7.89	181.03	22.03
179.48	0.07	180.00	1.39	180.52	8.04	181.04	22.91
179.49	0.08	180.01	1.48	180.53	8.20	181.05	23.82
179.50	0.08	180.02	1.57	180.54	8.36	181.06	24.76
179.51	0.08	180.03	1.66	180.55	8.52	181.07	25.72

Stage-Discharge for Pond B-8: Basin #8 (continued)

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
181.08	26.70	181.60	107.42
181.09	27.71	181.61	109.30
181.10	28.75	181.62	111.19
181.11	29.81	181.63	113.09
181.12	30.89	181.64	115.04
181.13	32.00	181.65	117.01
181.14	33.13	181.66	118.98
181.15	34.29	181.67	120.98
181.16	35.47	181.68	122.98
181.17	36.68	181.69	125.00
181.18	37.91	181.70	127.03
181.19	39.16	181.71	129.07
181.20	40.44	181.72	131.13
181.21	41.74	181.73	133.19
181.22	43.07	181.74	135.28
181.23	44.42	181.75	137.37
181.24	45.82	181.76	139.48
181.25	47.25	181.77	141.60
181.26	48.70	181.78	143.73
181.27	50.18	181.79	145.87
181.28	51.68	181.80	148.03
181.29	53.22	181.81	150.20
181.30	54.77	181.82	152.38
181.31	56.36	181.83	154.58
181.32	57.97	181.84	156.73
181.33	59.60	181.85	158.90
181.34	61.27	181.86	161.07
181.35	62.95	181.87	163.26
181.36	64.67	181.88	165.46
181.37	66.41	181.89	167.66
181.38	68.18	181.90	169.88
181.39	69.98	181.91	172.11
181.40	71.80	181.92	174.35
181.41	73.65	181.93	176.60
181.42	75.52	181.94	178.86
181.43	77.42	181.95	181.13
181.44	79.09	181.96	183.41
181.45	80.76	181.97	185.70
181.46	82.45	181.98	188.00
181.47	84.15	181.99	190.31
181.48	85.86	182.00	192.63
181.49	87.59		
181.50	89.33		
181.51	91.08		
181.52	92.84		
181.53	94.62		
181.54	96.41		
181.55	98.22		
181.56	100.03		
181.57	101.86		
181.58	103.70		
181.59	105.56		

Stage-Area-Storage for Pond B-8: Basin #8

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
179.00	13,283	0	179.52	13,798	7,041
179.01	13,293	133	179.53	13,808	7,179
179.02	13,303	266	179.54	13,818	7,317
179.03	13,313	399	179.55	13,828	7,456
179.04	13,323	532	179.56	13,838	7,594
179.05	13,333	665	179.57	13,848	7,732
179.06	13,342	799	179.58	13,858	7,871
179.07	13,352	932	179.59	13,868	8,009
179.08	13,362	1,066	179.60	13,878	8,148
179.09	13,372	1,199	179.61	13,888	8,287
179.10	13,382	1,333	179.62	13,897	8,426
179.11	13,392	1,467	179.63	13,907	8,565
179.12	13,402	1,601	179.64	13,917	8,704
179.13	13,412	1,735	179.65	13,927	8,843
179.14	13,422	1,869	179.66	13,937	8,983
179.15	13,432	2,004	179.67	13,947	9,122
179.16	13,442	2,138	179.68	13,957	9,262
179.17	13,451	2,272	179.69	13,967	9,401
179.18	13,461	2,407	179.70	13,977	9,541
179.19	13,471	2,542	179.71	13,987	9,681
179.20	13,481	2,676	179.72	13,997	9,821
179.21	13,491	2,811	179.73	14,006	9,961
179.22	13,501	2,946	179.74	14,016	10,101
179.23	13,511	3,081	179.75	14,026	10,241
179.24	13,521	3,216	179.76	14,036	10,381
179.25	13,531	3,352	179.77	14,046	10,522
179.26	13,541	3,487	179.78	14,056	10,662
179.27	13,551	3,623	179.79	14,066	10,803
179.28	13,560	3,758	179.80	14,076	10,944
179.29	13,570	3,894	179.81	14,086	11,084
179.30	13,580	4,029	179.82	14,096	11,225
179.31	13,590	4,165	179.83	14,106	11,366
179.32	13,600	4,301	179.84	14,115	11,507
179.33	13,610	4,437	179.85	14,125	11,649
179.34	13,620	4,573	179.86	14,135	11,790
179.35	13,630	4,710	179.87	14,145	11,931
179.36	13,640	4,846	179.88	14,155	12,073
179.37	13,650	4,983	179.89	14,165	12,214
179.38	13,660	5,119	179.90	14,175	12,356
179.39	13,669	5,256	179.91	14,185	12,498
179.40	13,679	5,392	179.92	14,195	12,640
179.41	13,689	5,529	179.93	14,205	12,782
179.42	13,699	5,666	179.94	14,215	12,924
179.43	13,709	5,803	179.95	14,224	13,066
179.44	13,719	5,940	179.96	14,234	13,208
179.45	13,729	6,078	179.97	14,244	13,351
179.46	13,739	6,215	179.98	14,254	13,493
179.47	13,749	6,352	179.99	14,264	13,636
179.48	13,759	6,490	180.00	14,274	13,779
179.49	13,769	6,628	180.01	14,284	13,921
179.50	13,779	6,765	180.02	14,294	14,064
179.51	13,788	6,903	180.03	14,305	14,207

Stage-Area-Storage for Pond B-8: Basin #8 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
180.04	14,315	14,350	180.56	14,845	21,932
180.05	14,325	14,493	180.57	14,855	22,080
180.06	14,335	14,637	180.58	14,865	22,229
180.07	14,345	14,780	180.59	14,875	22,378
180.08	14,356	14,924	180.60	14,885	22,526
180.09	14,366	15,067	180.61	14,896	22,675
180.10	14,376	15,211	180.62	14,906	22,824
180.11	14,386	15,355	180.63	14,916	22,973
180.12	14,396	15,499	180.64	14,926	23,123
180.13	14,406	15,643	180.65	14,936	23,272
180.14	14,417	15,787	180.66	14,947	23,421
180.15	14,427	15,931	180.67	14,957	23,571
180.16	14,437	16,075	180.68	14,967	23,720
180.17	14,447	16,220	180.69	14,977	23,870
180.18	14,457	16,364	180.70	14,987	24,020
180.19	14,468	16,509	180.71	14,997	24,170
180.20	14,478	16,654	180.72	15,008	24,320
180.21	14,488	16,799	180.73	15,018	24,470
180.22	14,498	16,943	180.74	15,028	24,620
180.23	14,508	17,088	180.75	15,038	24,771
180.24	14,519	17,234	180.76	15,048	24,921
180.25	14,529	17,379	180.77	15,059	25,072
180.26	14,539	17,524	180.78	15,069	25,222
180.27	14,549	17,670	180.79	15,079	25,373
180.28	14,559	17,815	180.80	15,089	25,524
180.29	14,570	17,961	180.81	15,099	25,675
180.30	14,580	18,107	180.82	15,110	25,826
180.31	14,590	18,252	180.83	15,120	25,977
180.32	14,600	18,398	180.84	15,130	26,128
180.33	14,610	18,544	180.85	15,140	26,280
180.34	14,620	18,691	180.86	15,150	26,431
180.35	14,631	18,837	180.87	15,161	26,583
180.36	14,641	18,983	180.88	15,171	26,734
180.37	14,651	19,130	180.89	15,181	26,886
180.38	14,661	19,276	180.90	15,191	27,038
180.39	14,671	19,423	180.91	15,201	27,190
180.40	14,682	19,570	180.92	15,211	27,342
180.41	14,692	19,716	180.93	15,222	27,494
180.42	14,702	19,863	180.94	15,232	27,646
180.43	14,712	20,011	180.95	15,242	27,799
180.44	14,722	20,158	180.96	15,252	27,951
180.45	14,733	20,305	180.97	15,262	28,104
180.46	14,743	20,452	180.98	15,273	28,256
180.47	14,753	20,600	180.99	15,283	28,409
180.48	14,763	20,747	181.00	15,293	28,562
180.49	14,773	20,895	181.01	15,303	28,715
180.50	14,784	21,043	181.02	15,314	28,868
180.51	14,794	21,191	181.03	15,324	29,021
180.52	14,804	21,339	181.04	15,335	29,175
180.53	14,814	21,487	181.05	15,345	29,328
180.54	14,824	21,635	181.06	15,356	29,481
180.55	14,834	21,783	181.07	15,366	29,635

Stage-Area-Storage for Pond B-8: Basin #8 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
181.08	15,377	29,789	181.60	15,922	37,926
181.09	15,387	29,943	181.61	15,932	38,086
181.10	15,398	30,097	181.62	15,943	38,245
181.11	15,408	30,251	181.63	15,953	38,405
181.12	15,419	30,405	181.64	15,964	38,564
181.13	15,429	30,559	181.65	15,974	38,724
181.14	15,440	30,713	181.66	15,985	38,884
181.15	15,450	30,868	181.67	15,995	39,044
181.16	15,461	31,022	181.68	16,006	39,204
181.17	15,471	31,177	181.69	16,016	39,364
181.18	15,482	31,332	181.70	16,027	39,524
181.19	15,492	31,487	181.71	16,037	39,684
181.20	15,503	31,642	181.72	16,048	39,845
181.21	15,513	31,797	181.73	16,058	40,005
181.22	15,524	31,952	181.74	16,069	40,166
181.23	15,534	32,107	181.75	16,079	40,327
181.24	15,545	32,263	181.76	16,089	40,487
181.25	15,555	32,418	181.77	16,100	40,648
181.26	15,565	32,574	181.78	16,110	40,809
181.27	15,576	32,729	181.79	16,121	40,970
181.28	15,586	32,885	181.80	16,131	41,132
181.29	15,597	33,041	181.81	16,142	41,293
181.30	15,607	33,197	181.82	16,152	41,455
181.31	15,618	33,353	181.83	16,163	41,616
181.32	15,628	33,509	181.84	16,173	41,778
181.33	15,639	33,666	181.85	16,184	41,940
181.34	15,649	33,822	181.86	16,194	42,102
181.35	15,660	33,979	181.87	16,205	42,264
181.36	15,670	34,135	181.88	16,215	42,426
181.37	15,681	34,292	181.89	16,226	42,588
181.38	15,691	34,449	181.90	16,236	42,750
181.39	15,702	34,606	181.91	16,247	42,913
181.40	15,712	34,763	181.92	16,257	43,075
181.41	15,723	34,920	181.93	16,268	43,238
181.42	15,733	35,077	181.94	16,278	43,400
181.43	15,744	35,235	181.95	16,289	43,563
181.44	15,754	35,392	181.96	16,299	43,726
181.45	15,765	35,550	181.97	16,310	43,889
181.46	15,775	35,708	181.98	16,320	44,052
181.47	15,786	35,865	181.99	16,331	44,216
181.48	15,796	36,023	182.00	16,341	44,379
181.49	15,807	36,181			
181.50	15,817	36,340			
181.51	15,827	36,498			
181.52	15,838	36,656			
181.53	15,848	36,814			
181.54	15,859	36,973			
181.55	15,869	37,132			
181.56	15,880	37,290			
181.57	15,890	37,449			
181.58	15,901	37,608			
181.59	15,911	37,767			

Summary for Pond B-9: Basin #9

Inflow Area = 1.503 ac, 52.63% Impervious, Inflow Depth = 6.98" for Current 100 yr event
 Inflow = 10.47 cfs @ 12.17 hrs, Volume= 0.874 af
 Outflow = 5.41 cfs @ 12.33 hrs, Volume= 0.746 af, Atten= 48%, Lag= 9.5 min
 Primary = 5.41 cfs @ 12.33 hrs, Volume= 0.746 af
 Routed to Link PDA-1 : Proposed Drainage Area #1

Routing by Stor-Ind method, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 Peak Elev= 180.48' @ 12.33 hrs Surf.Area= 12,188 sf Storage= 16,989 cf

Plug-Flow detention time= 315.6 min calculated for 0.746 af (85% of inflow)
 Center-of-Mass det. time= 249.4 min (1,022.0 - 772.6)

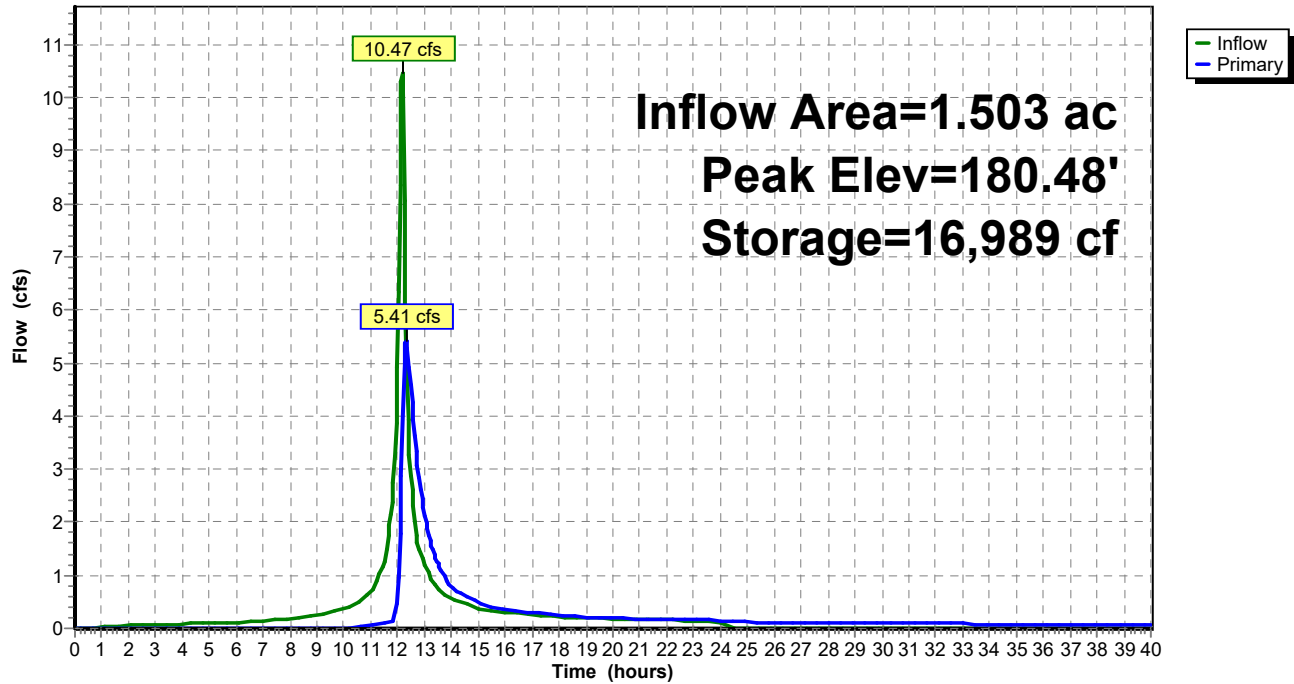
Volume	Invert	Avail.Storage	Storage Description
#1	179.00'	36,641 cf	Custom Stage Data (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
179.00	10,720	0	0
180.00	11,700	11,210	11,210
181.00	12,708	12,204	23,414
182.00	13,745	13,227	36,641

Device	Routing	Invert	Outlet Devices
#1	Primary	178.23'	18.0" Round Culvert L= 45.0' Ke= 0.500 Inlet / Outlet Invert= 178.23' / 178.00' S= 0.0051 '/' Cc= 0.900 n= 0.013, Flow Area= 1.77 sf
#2	Device 1	179.30'	2.5" Vert. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#3	Device 1	179.93'	4.0' long Sharp-Crested Rectangular Weir 2 End Contraction(s)
#4	Primary	181.95'	50.0' long + 3.0 '/' SideZ x 5.0' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 Coef. (English) 2.34 2.50 2.70 2.68 2.68 2.66 2.65 2.65 2.65 2.65 2.67 2.66 2.68 2.70 2.74 2.79 2.88

Primary OutFlow Max=5.39 cfs @ 12.33 hrs HW=180.48' (Free Discharge)

1=Culvert (Passes 5.39 cfs of 9.22 cfs potential flow)
 2=Orifice/Grate (Orifice Controls 0.17 cfs @ 5.00 fps)
 3=Sharp-Crested Rectangular Weir(Weir Controls 5.22 cfs @ 2.43 fps)
 4=Broad-Crested Rectangular Weir(Controls 0.00 cfs)

Pond B-9: Basin #9**Hydrograph**

Stage-Discharge for Pond B-9: Basin #9

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
179.00	0.00	179.52	0.06	180.04	0.61	180.56	6.51
179.01	0.00	179.53	0.06	180.05	0.67	180.57	6.66
179.02	0.00	179.54	0.06	180.06	0.74	180.58	6.81
179.03	0.00	179.55	0.06	180.07	0.81	180.59	6.96
179.04	0.00	179.56	0.06	180.08	0.89	180.60	7.11
179.05	0.00	179.57	0.07	180.09	0.97	180.61	7.27
179.06	0.00	179.58	0.07	180.10	1.05	180.62	7.42
179.07	0.00	179.59	0.07	180.11	1.13	180.63	7.57
179.08	0.00	179.60	0.07	180.12	1.21	180.64	7.73
179.09	0.00	179.61	0.07	180.13	1.30	180.65	7.89
179.10	0.00	179.62	0.08	180.14	1.39	180.66	8.04
179.11	0.00	179.63	0.08	180.15	1.48	180.67	8.20
179.12	0.00	179.64	0.08	180.16	1.57	180.68	8.36
179.13	0.00	179.65	0.08	180.17	1.66	180.69	8.52
179.14	0.00	179.66	0.08	180.18	1.76	180.70	8.68
179.15	0.00	179.67	0.08	180.19	1.86	180.71	8.85
179.16	0.00	179.68	0.09	180.20	1.96	180.72	9.01
179.17	0.00	179.69	0.09	180.21	2.06	180.73	9.17
179.18	0.00	179.70	0.09	180.22	2.16	180.74	9.34
179.19	0.00	179.71	0.09	180.23	2.27	180.75	9.50
179.20	0.00	179.72	0.09	180.24	2.37	180.76	9.67
179.21	0.00	179.73	0.09	180.25	2.48	180.77	9.84
179.22	0.00	179.74	0.10	180.26	2.59	180.78	10.01
179.23	0.00	179.75	0.10	180.27	2.70	180.79	10.18
179.24	0.00	179.76	0.10	180.28	2.81	180.80	10.35
179.25	0.00	179.77	0.10	180.29	2.93	180.81	10.52
179.26	0.00	179.78	0.10	180.30	3.04	180.82	10.69
179.27	0.00	179.79	0.10	180.31	3.16	180.83	10.73
179.28	0.00	179.80	0.10	180.32	3.28	180.84	10.77
179.29	0.00	179.81	0.10	180.33	3.40	180.85	10.81
179.30	0.00	179.82	0.11	180.34	3.52	180.86	10.85
179.31	0.00	179.83	0.11	180.35	3.65	180.87	10.89
179.32	0.00	179.84	0.11	180.36	3.77	180.88	10.93
179.33	0.00	179.85	0.11	180.37	3.89	180.89	10.97
179.34	0.00	179.86	0.11	180.38	4.02	180.90	11.01
179.35	0.00	179.87	0.11	180.39	4.15	180.91	11.05
179.36	0.01	179.88	0.11	180.40	4.28	180.92	11.09
179.37	0.01	179.89	0.11	180.41	4.41	180.93	11.13
179.38	0.01	179.90	0.12	180.42	4.54	180.94	11.17
179.39	0.01	179.91	0.12	180.43	4.68	180.95	11.20
179.40	0.02	179.92	0.12	180.44	4.81	180.96	11.24
179.41	0.02	179.93	0.12	180.45	4.95	180.97	11.28
179.42	0.02	179.94	0.13	180.46	5.08	180.98	11.32
179.43	0.03	179.95	0.16	180.47	5.22	180.99	11.36
179.44	0.03	179.96	0.19	180.48	5.36	181.00	11.40
179.45	0.03	179.97	0.23	180.49	5.50	181.01	11.43
179.46	0.04	179.98	0.27	180.50	5.64	181.02	11.47
179.47	0.04	179.99	0.32	180.51	5.78	181.03	11.51
179.48	0.05	180.00	0.37	180.52	5.93	181.04	11.55
179.49	0.05	180.01	0.42	180.53	6.07	181.05	11.58
179.50	0.05	180.02	0.48	180.54	6.22	181.06	11.62
179.51	0.05	180.03	0.54	180.55	6.36	181.07	11.66

Stage-Discharge for Pond B-9: Basin #9 (continued)

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
181.08	11.70	181.60	13.48
181.09	11.73	181.61	13.52
181.10	11.77	181.62	13.55
181.11	11.81	181.63	13.58
181.12	11.84	181.64	13.61
181.13	11.88	181.65	13.64
181.14	11.92	181.66	13.67
181.15	11.95	181.67	13.71
181.16	11.99	181.68	13.74
181.17	12.02	181.69	13.77
181.18	12.06	181.70	13.80
181.19	12.10	181.71	13.83
181.20	12.13	181.72	13.86
181.21	12.17	181.73	13.89
181.22	12.20	181.74	13.93
181.23	12.24	181.75	13.96
181.24	12.27	181.76	13.99
181.25	12.31	181.77	14.02
181.26	12.34	181.78	14.05
181.27	12.38	181.79	14.08
181.28	12.41	181.80	14.11
181.29	12.45	181.81	14.14
181.30	12.48	181.82	14.17
181.31	12.52	181.83	14.20
181.32	12.55	181.84	14.23
181.33	12.59	181.85	14.26
181.34	12.62	181.86	14.29
181.35	12.66	181.87	14.32
181.36	12.69	181.88	14.35
181.37	12.72	181.89	14.38
181.38	12.76	181.90	14.41
181.39	12.79	181.91	14.44
181.40	12.83	181.92	14.47
181.41	12.86	181.93	14.50
181.42	12.89	181.94	14.53
181.43	12.93	181.95	14.56
181.44	12.96	181.96	14.71
181.45	12.99	181.97	14.95
181.46	13.03	181.98	15.26
181.47	13.06	181.99	15.62
181.48	13.09	182.00	16.02
181.49	13.13		
181.50	13.16		
181.51	13.19		
181.52	13.22		
181.53	13.26		
181.54	13.29		
181.55	13.32		
181.56	13.35		
181.57	13.39		
181.58	13.42		
181.59	13.45		

Stage-Area-Storage for Pond B-9: Basin #9

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
179.00	10,720	0	179.52	11,230	5,707
179.01	10,730	107	179.53	11,239	5,819
179.02	10,740	215	179.54	11,249	5,932
179.03	10,749	322	179.55	11,259	6,044
179.04	10,759	430	179.56	11,269	6,157
179.05	10,769	537	179.57	11,279	6,270
179.06	10,779	645	179.58	11,288	6,382
179.07	10,789	753	179.59	11,298	6,495
179.08	10,798	861	179.60	11,308	6,608
179.09	10,808	969	179.61	11,318	6,722
179.10	10,818	1,077	179.62	11,328	6,835
179.11	10,828	1,185	179.63	11,337	6,948
179.12	10,838	1,293	179.64	11,347	7,062
179.13	10,847	1,402	179.65	11,357	7,175
179.14	10,857	1,510	179.66	11,367	7,289
179.15	10,867	1,619	179.67	11,377	7,402
179.16	10,877	1,728	179.68	11,386	7,516
179.17	10,887	1,837	179.69	11,396	7,630
179.18	10,896	1,945	179.70	11,406	7,744
179.19	10,906	2,054	179.71	11,416	7,858
179.20	10,916	2,164	179.72	11,426	7,972
179.21	10,926	2,273	179.73	11,435	8,087
179.22	10,936	2,382	179.74	11,445	8,201
179.23	10,945	2,492	179.75	11,455	8,316
179.24	10,955	2,601	179.76	11,465	8,430
179.25	10,965	2,711	179.77	11,475	8,545
179.26	10,975	2,820	179.78	11,484	8,660
179.27	10,985	2,930	179.79	11,494	8,775
179.28	10,994	3,040	179.80	11,504	8,890
179.29	11,004	3,150	179.81	11,514	9,005
179.30	11,014	3,260	179.82	11,524	9,120
179.31	11,024	3,370	179.83	11,533	9,235
179.32	11,034	3,481	179.84	11,543	9,351
179.33	11,043	3,591	179.85	11,553	9,466
179.34	11,053	3,701	179.86	11,563	9,582
179.35	11,063	3,812	179.87	11,573	9,697
179.36	11,073	3,923	179.88	11,582	9,813
179.37	11,083	4,033	179.89	11,592	9,929
179.38	11,092	4,144	179.90	11,602	10,045
179.39	11,102	4,255	179.91	11,612	10,161
179.40	11,112	4,366	179.92	11,622	10,277
179.41	11,122	4,478	179.93	11,631	10,393
179.42	11,132	4,589	179.94	11,641	10,510
179.43	11,141	4,700	179.95	11,651	10,626
179.44	11,151	4,812	179.96	11,661	10,743
179.45	11,161	4,923	179.97	11,671	10,859
179.46	11,171	5,035	179.98	11,680	10,976
179.47	11,181	5,147	179.99	11,690	11,093
179.48	11,190	5,258	180.00	11,700	11,210
179.49	11,200	5,370	180.01	11,710	11,327
179.50	11,210	5,483	180.02	11,720	11,444
179.51	11,220	5,595	180.03	11,730	11,561

Stage-Area-Storage for Pond B-9: Basin #9 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
180.04	11,740	11,679	180.56	12,264	17,920
180.05	11,750	11,796	180.57	12,275	18,043
180.06	11,760	11,914	180.58	12,285	18,166
180.07	11,771	12,031	180.59	12,295	18,288
180.08	11,781	12,149	180.60	12,305	18,411
180.09	11,791	12,267	180.61	12,315	18,535
180.10	11,801	12,385	180.62	12,325	18,658
180.11	11,811	12,503	180.63	12,335	18,781
180.12	11,821	12,621	180.64	12,345	18,904
180.13	11,831	12,740	180.65	12,355	19,028
180.14	11,841	12,858	180.66	12,365	19,152
180.15	11,851	12,976	180.67	12,375	19,275
180.16	11,861	13,095	180.68	12,385	19,399
180.17	11,871	13,214	180.69	12,396	19,523
180.18	11,881	13,332	180.70	12,406	19,647
180.19	11,892	13,451	180.71	12,416	19,771
180.20	11,902	13,570	180.72	12,426	19,895
180.21	11,912	13,689	180.73	12,436	20,020
180.22	11,922	13,808	180.74	12,446	20,144
180.23	11,932	13,928	180.75	12,456	20,269
180.24	11,942	14,047	180.76	12,466	20,393
180.25	11,952	14,167	180.77	12,476	20,518
180.26	11,962	14,286	180.78	12,486	20,643
180.27	11,972	14,406	180.79	12,496	20,768
180.28	11,982	14,526	180.80	12,506	20,893
180.29	11,992	14,645	180.81	12,516	21,018
180.30	12,002	14,765	180.82	12,527	21,143
180.31	12,012	14,885	180.83	12,537	21,268
180.32	12,023	15,006	180.84	12,547	21,394
180.33	12,033	15,126	180.85	12,557	21,519
180.34	12,043	15,246	180.86	12,567	21,645
180.35	12,053	15,367	180.87	12,577	21,770
180.36	12,063	15,487	180.88	12,587	21,896
180.37	12,073	15,608	180.89	12,597	22,022
180.38	12,083	15,729	180.90	12,607	22,148
180.39	12,093	15,850	180.91	12,617	22,274
180.40	12,103	15,971	180.92	12,627	22,401
180.41	12,113	16,092	180.93	12,637	22,527
180.42	12,123	16,213	180.94	12,648	22,653
180.43	12,133	16,334	180.95	12,658	22,780
180.44	12,144	16,456	180.96	12,668	22,906
180.45	12,154	16,577	180.97	12,678	23,033
180.46	12,164	16,699	180.98	12,688	23,160
180.47	12,174	16,820	180.99	12,698	23,287
180.48	12,184	16,942	181.00	12,708	23,414
180.49	12,194	17,064	181.01	12,718	23,541
180.50	12,204	17,186	181.02	12,729	23,668
180.51	12,214	17,308	181.03	12,739	23,796
180.52	12,224	17,430	181.04	12,749	23,923
180.53	12,234	17,553	181.05	12,760	24,051
180.54	12,244	17,675	181.06	12,770	24,178
180.55	12,254	17,797	181.07	12,781	24,306

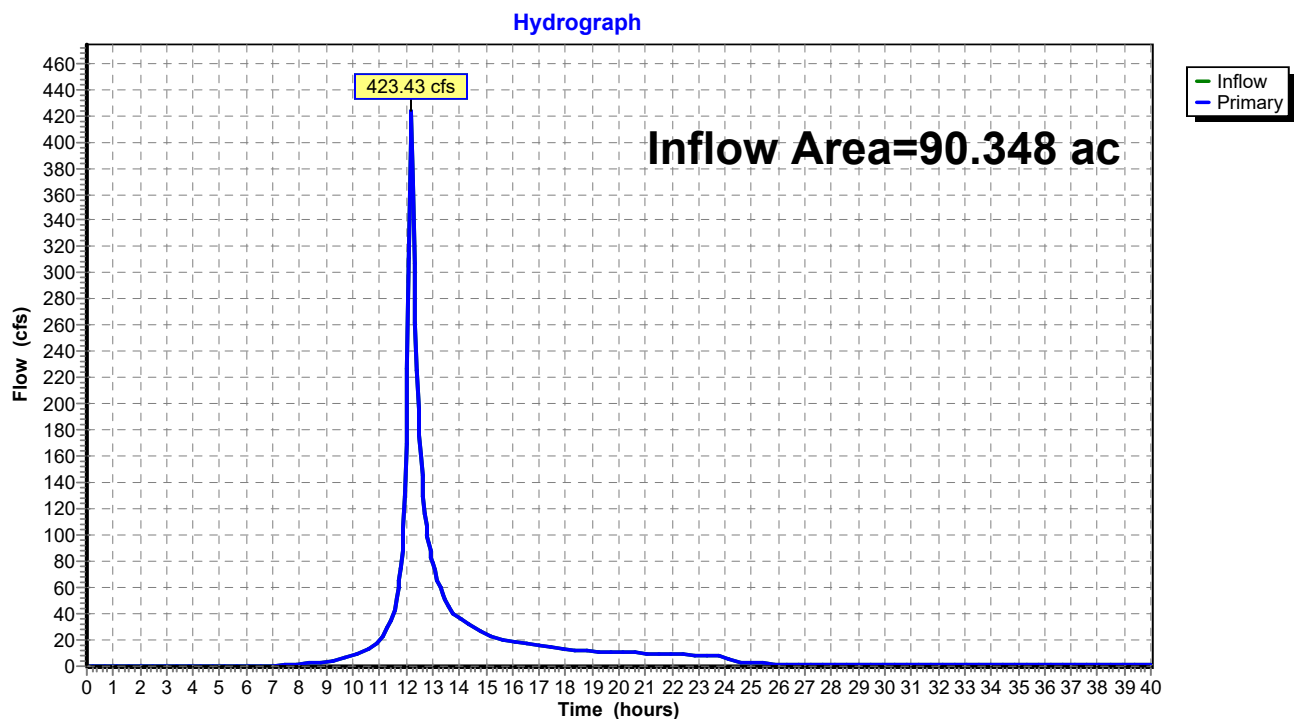
Stage-Area-Storage for Pond B-9: Basin #9 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
181.08	12,791	24,434	181.60	13,330	31,225
181.09	12,801	24,562	181.61	13,341	31,359
181.10	12,812	24,690	181.62	13,351	31,492
181.11	12,822	24,818	181.63	13,361	31,626
181.12	12,832	24,946	181.64	13,372	31,759
181.13	12,843	25,075	181.65	13,382	31,893
181.14	12,853	25,203	181.66	13,392	32,027
181.15	12,864	25,332	181.67	13,403	32,161
181.16	12,874	25,461	181.68	13,413	32,295
181.17	12,884	25,589	181.69	13,424	32,429
181.18	12,895	25,718	181.70	13,434	32,564
181.19	12,905	25,847	181.71	13,444	32,698
181.20	12,915	25,976	181.72	13,455	32,833
181.21	12,926	26,106	181.73	13,465	32,967
181.22	12,936	26,235	181.74	13,475	33,102
181.23	12,947	26,364	181.75	13,486	33,237
181.24	12,957	26,494	181.76	13,496	33,372
181.25	12,967	26,623	181.77	13,506	33,507
181.26	12,978	26,753	181.78	13,517	33,642
181.27	12,988	26,883	181.79	13,527	33,777
181.28	12,998	27,013	181.80	13,538	33,912
181.29	13,009	27,143	181.81	13,548	34,048
181.30	13,019	27,273	181.82	13,558	34,183
181.31	13,029	27,403	181.83	13,569	34,319
181.32	13,040	27,534	181.84	13,579	34,455
181.33	13,050	27,664	181.85	13,589	34,590
181.34	13,061	27,795	181.86	13,600	34,726
181.35	13,071	27,925	181.87	13,610	34,862
181.36	13,081	28,056	181.88	13,621	34,999
181.37	13,092	28,187	181.89	13,631	35,135
181.38	13,102	28,318	181.90	13,641	35,271
181.39	13,112	28,449	181.91	13,652	35,408
181.40	13,123	28,580	181.92	13,662	35,544
181.41	13,133	28,711	181.93	13,672	35,681
181.42	13,144	28,843	181.94	13,683	35,818
181.43	13,154	28,974	181.95	13,693	35,955
181.44	13,164	29,106	181.96	13,704	36,092
181.45	13,175	29,238	181.97	13,714	36,229
181.46	13,185	29,369	181.98	13,724	36,366
181.47	13,195	29,501	181.99	13,735	36,503
181.48	13,206	29,633	182.00	13,745	36,641
181.49	13,216	29,765			
181.50	13,227	29,898			
181.51	13,237	30,030			
181.52	13,247	30,162			
181.53	13,258	30,295			
181.54	13,268	30,428			
181.55	13,278	30,560			
181.56	13,289	30,693			
181.57	13,299	30,826			
181.58	13,309	30,959			
181.59	13,320	31,092			

Summary for Link PDA-1: Proposed Drainage Area #1

Inflow Area = 90.348 ac, 16.68% Impervious, Inflow Depth > 5.44" for Current 100 yr event
Inflow = 423.43 cfs @ 12.19 hrs, Volume= 40.994 af
Primary = 423.43 cfs @ 12.19 hrs, Volume= 40.994 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs

Link PDA-1: Proposed Drainage Area #1

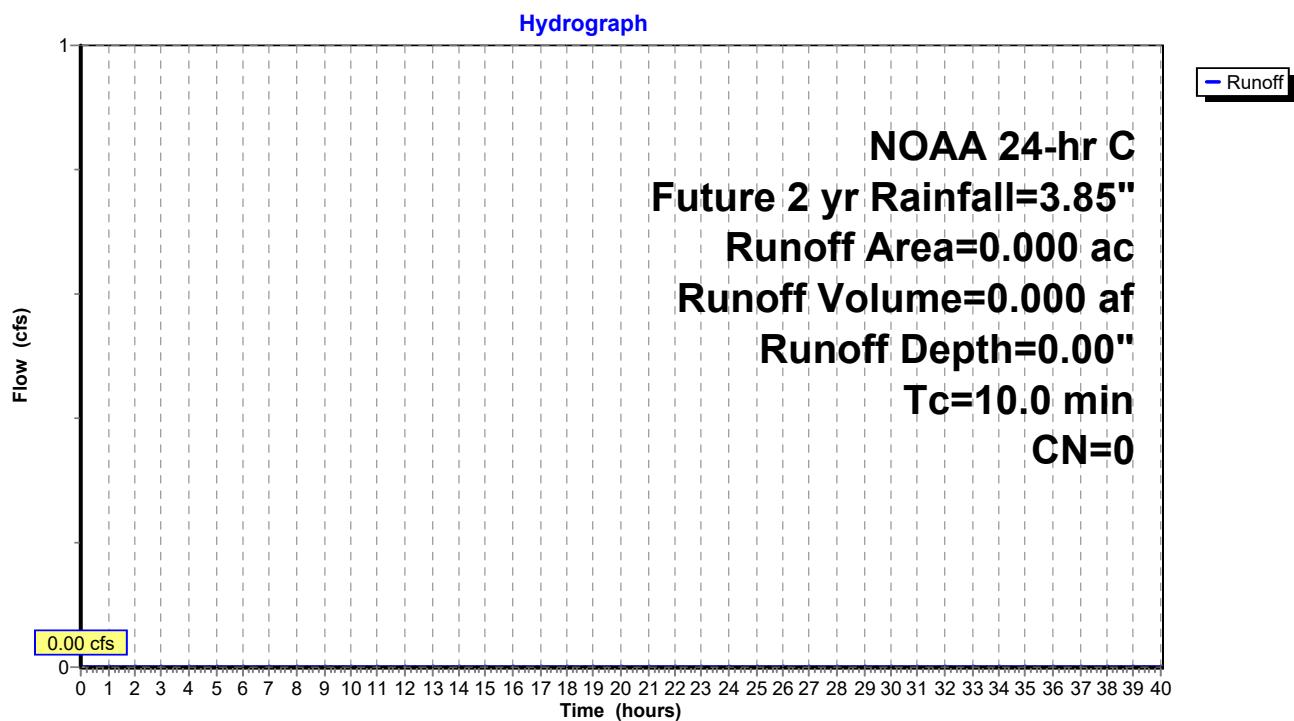
Summary for Subcatchment 1I: PDA-1 (impervious)

Runoff = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af, Depth= 0.00"
 Routed to Pond B-1 : Basin #1

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 NOAA 24-hr C Future 2 yr Rainfall=3.85"

Area (ac)	CN	Description
* 0.000	98	Pavement, HSG C
* 0.000	98	Concrete, HSG C
0.000	0	Weighted Average

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.0					Direct Entry,

Subcatchment 1I: PDA-1 (impervious)

Summary for Subcatchment 1P: PDA-1 (pervious)

Runoff = 1.44 cfs @ 12.18 hrs, Volume= 0.110 af, Depth= 1.49"
 Routed to Pond B-1 : Basin #1

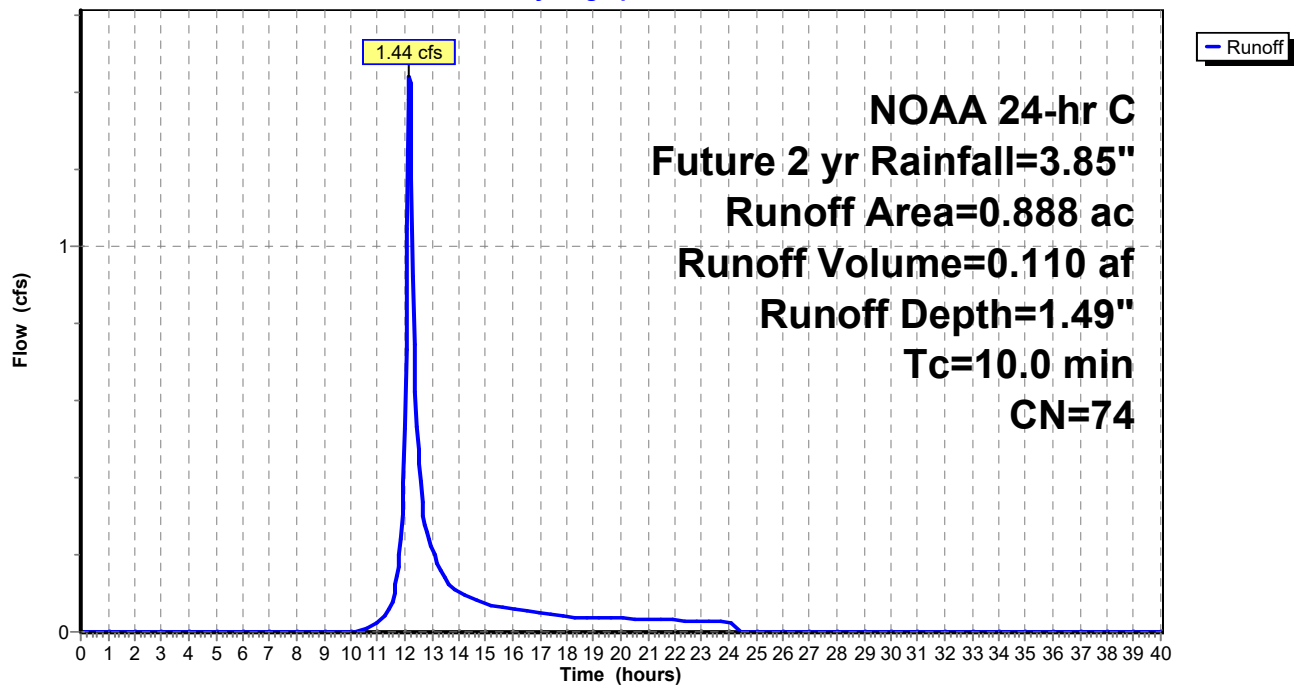
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 NOAA 24-hr C Future 2 yr Rainfall=3.85"

Area (ac)	CN	Description
0.888	74	>75% Grass cover, Good, HSG C
0.888		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.0					Direct Entry,

Subcatchment 1P: PDA-1 (pervious)

Hydrograph



Summary for Subcatchment 2I: PDA-2 (impervious)

Runoff = 2.53 cfs @ 12.17 hrs, Volume= 0.218 af, Depth= 3.62"
 Routed to Pond B-2 : Basin #2

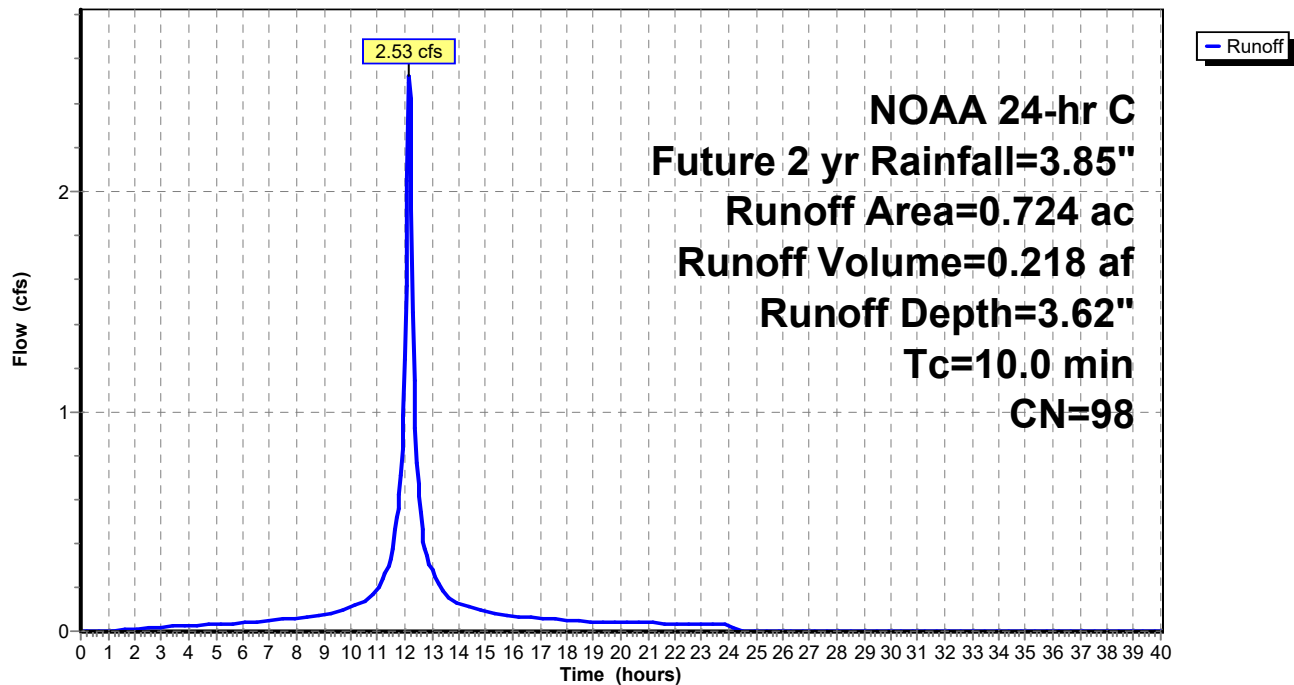
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 NOAA 24-hr C Future 2 yr Rainfall=3.85"

Area (ac)	CN	Description
* 0.490	98	Roof, HSG C
* 0.196	98	Pavement, HSG C
* 0.038	98	Concrete, HSG C
0.724	98	Weighted Average
0.724		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.0					Direct Entry,

Subcatchment 2I: PDA-2 (impervious)

Hydrograph



Summary for Subcatchment 2P: PDA-2 (pervious)

Runoff = 1.90 cfs @ 12.18 hrs, Volume= 0.145 af, Depth= 1.49"
 Routed to Pond B-2 : Basin #2

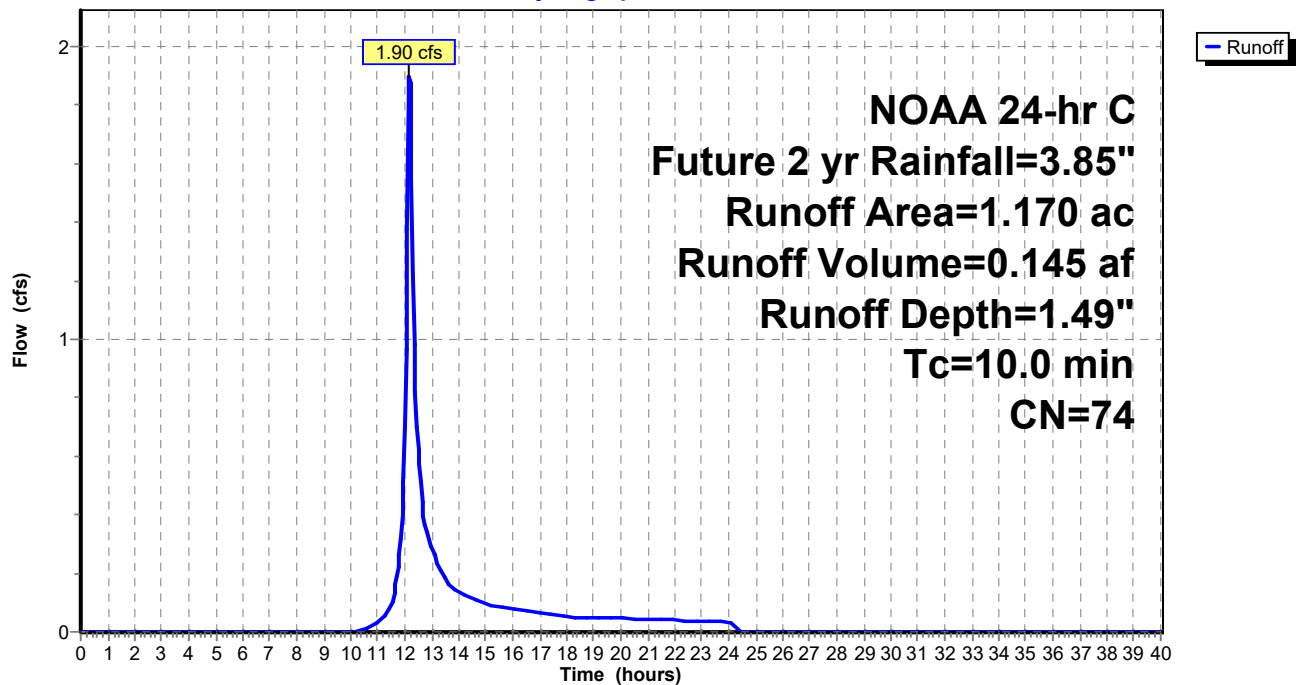
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 NOAA 24-hr C Future 2 yr Rainfall=3.85"

Area (ac)	CN	Description
1.170	74	>75% Grass cover, Good, HSG C
1.170		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.0					Direct Entry,

Subcatchment 2P: PDA-2 (pervious)

Hydrograph



Summary for Subcatchment 3I: PDA-3 (impervious)

Runoff = 2.08 cfs @ 12.17 hrs, Volume= 0.180 af, Depth= 3.62"
 Routed to Pond B-3 : Basin #3

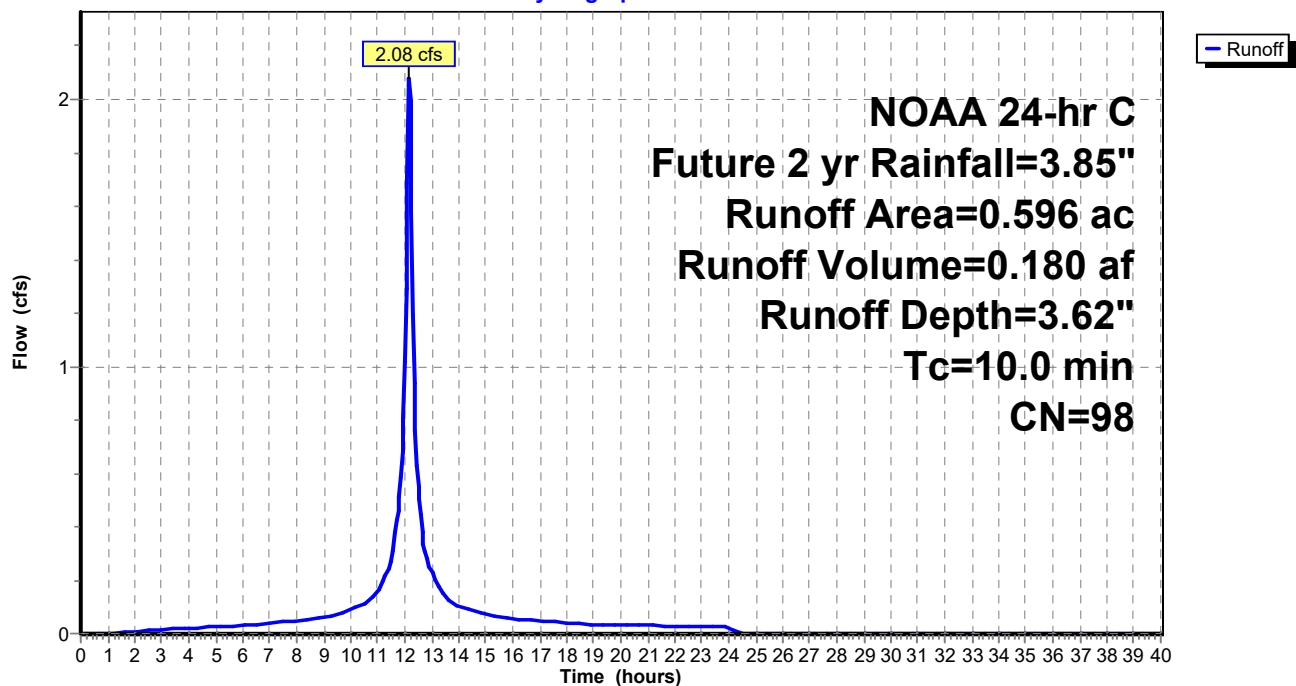
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 NOAA 24-hr C Future 2 yr Rainfall=3.85"

Area (ac)	CN	Description
* 0.304	98	Pavement, HSG C
* 0.035	98	Concrete, HSG C
0.257	98	Unconnected roofs, HSG C
0.596	98	Weighted Average
0.596		100.00% Impervious Area
0.257		43.12% Unconnected

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.0					Direct Entry,

Subcatchment 3I: PDA-3 (impervious)

Hydrograph



Summary for Subcatchment 3P: PDA-3 (pervious)

Runoff = 1.55 cfs @ 12.18 hrs, Volume= 0.119 af, Depth= 1.49"
 Routed to Pond B-3 : Basin #3

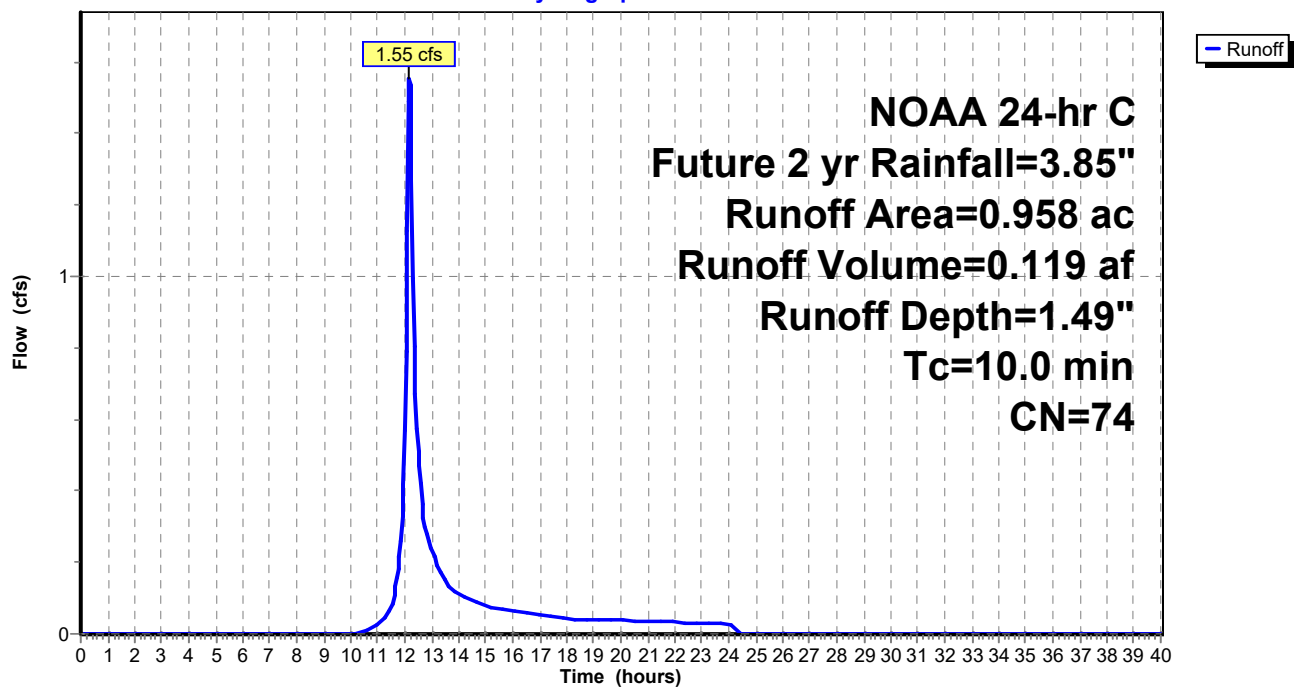
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 NOAA 24-hr C Future 2 yr Rainfall=3.85"

Area (ac)	CN	Description
0.958	74	>75% Grass cover, Good, HSG C
0.958		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.0					Direct Entry,

Subcatchment 3P: PDA-3 (pervious)

Hydrograph



Summary for Subcatchment 4AI: PDA-4A (impervious)

Runoff = 3.00 cfs @ 12.17 hrs, Volume= 0.259 af, Depth= 3.62"
 Routed to Pond B-4A : Basin #4A

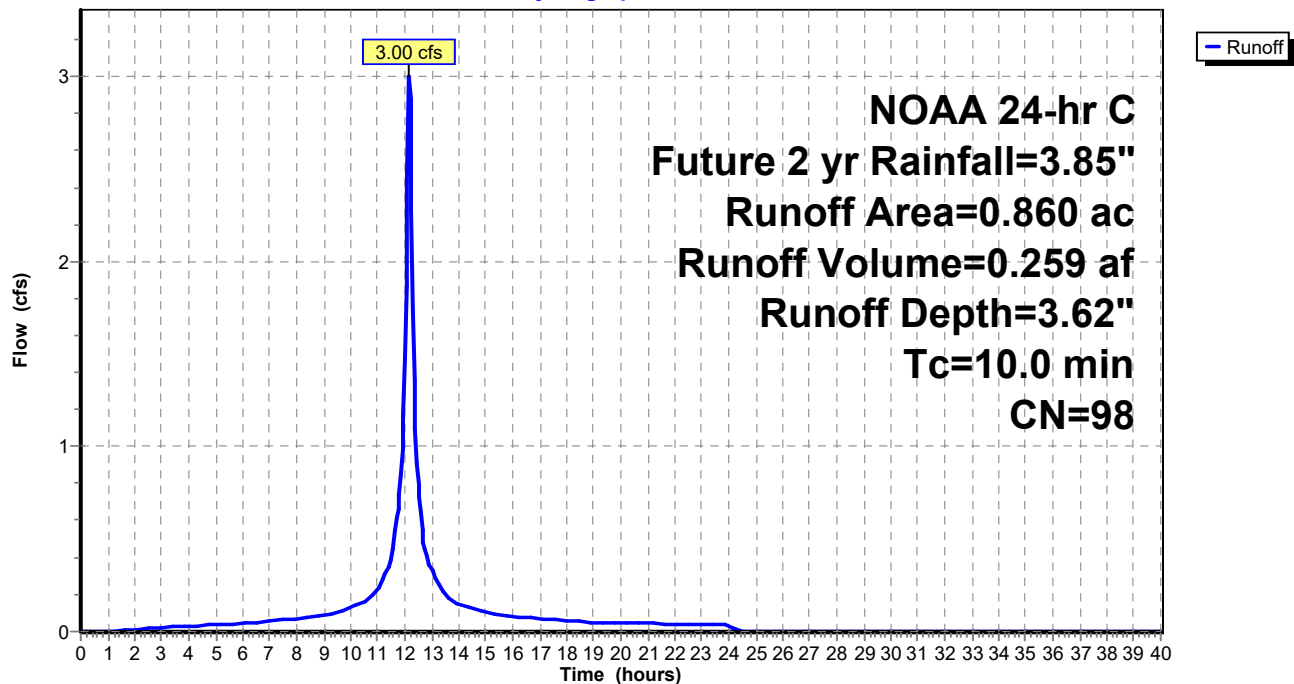
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 NOAA 24-hr C Future 2 yr Rainfall=3.85"

Area (ac)	CN	Description
* 0.742	98	Pavement, HSG C
* 0.118	98	Concrete, HSG C
0.860	98	Weighted Average
0.860		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.0					Direct Entry,

Subcatchment 4AI: PDA-4A (impervious)

Hydrograph



Summary for Subcatchment 4AP: PDA-4A (pervious)

Runoff = 2.39 cfs @ 12.18 hrs, Volume= 0.182 af, Depth= 1.49"
 Routed to Pond B-4A : Basin #4A

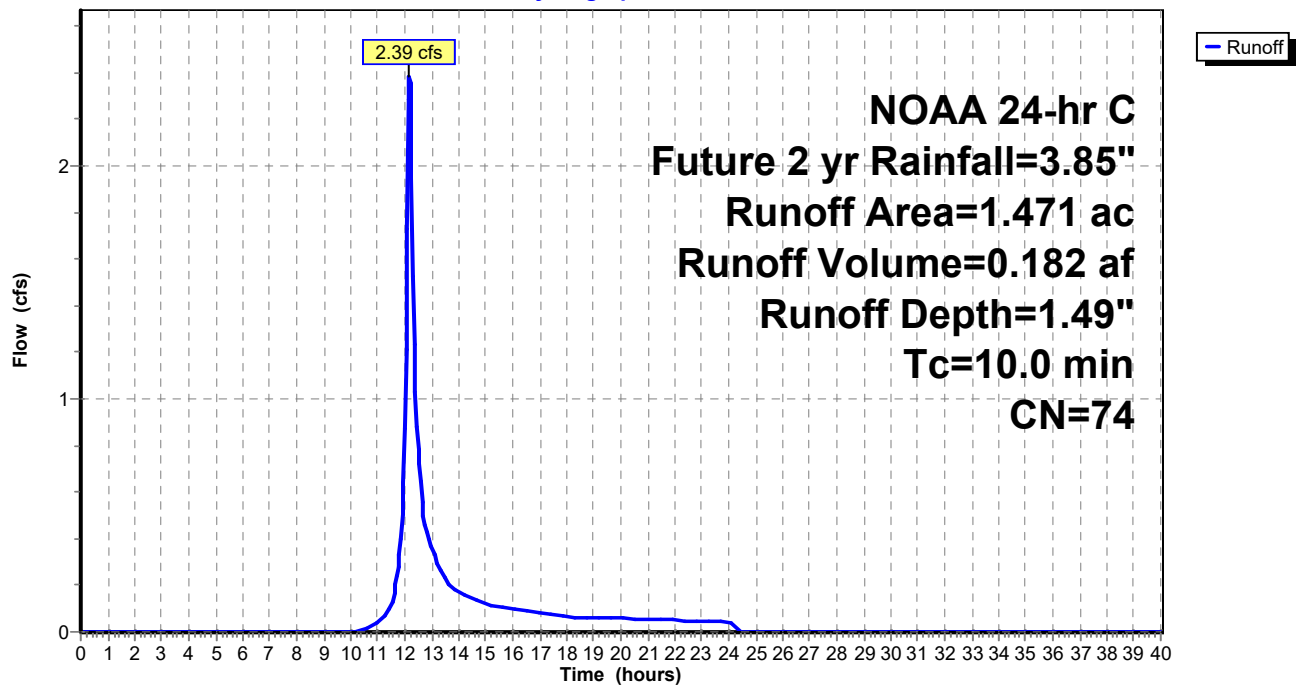
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 NOAA 24-hr C Future 2 yr Rainfall=3.85"

Area (ac)	CN	Description
1.471	74	>75% Grass cover, Good, HSG C
1.471		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.0					Direct Entry,

Subcatchment 4AP: PDA-4A (pervious)

Hydrograph



Summary for Subcatchment 4BI: PDA-4B (impervious)

Runoff = 3.00 cfs @ 12.17 hrs, Volume= 0.259 af, Depth= 3.62"
 Routed to Pond B-4B : Basin #4B

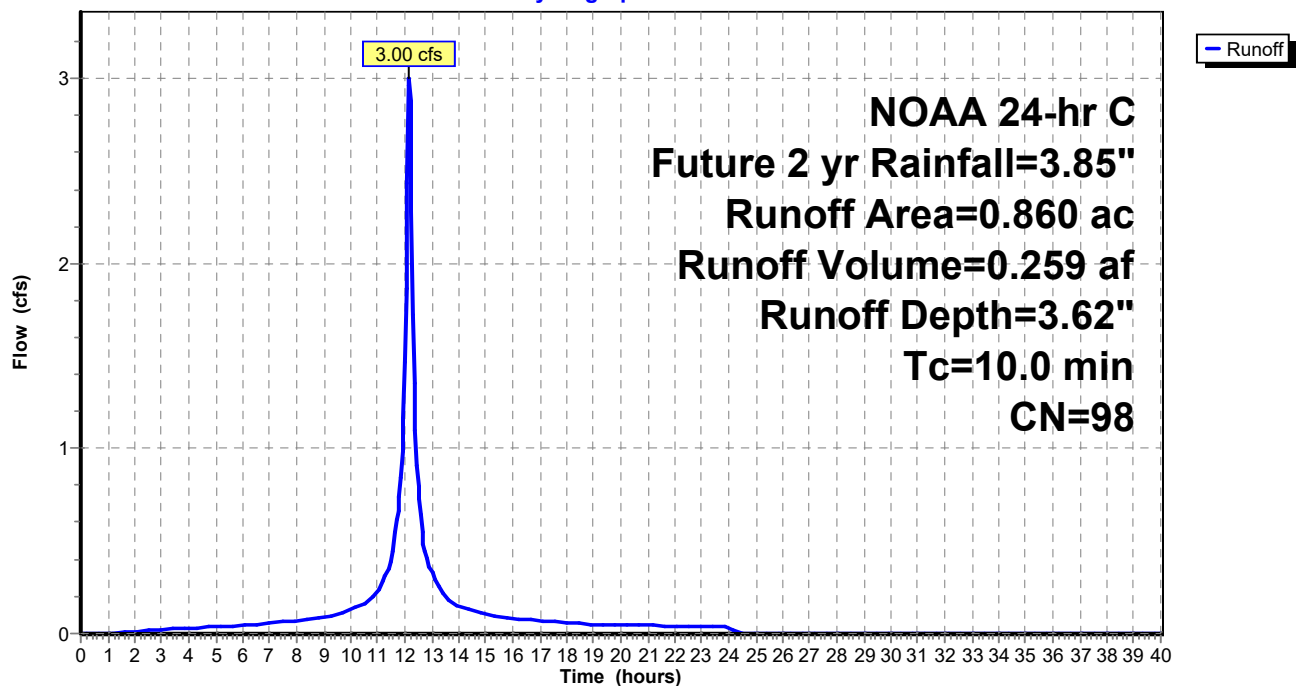
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 NOAA 24-hr C Future 2 yr Rainfall=3.85"

Area (ac)	CN	Description
* 0.742	98	Pavement, HSG C
* 0.118	98	Concrete, HSG C
0.860	98	Weighted Average
0.860		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.0					Direct Entry,

Subcatchment 4BI: PDA-4B (impervious)

Hydrograph



Summary for Subcatchment 4BP: PDA-4B (pervious)

Runoff = 2.39 cfs @ 12.18 hrs, Volume= 0.182 af, Depth= 1.49"
 Routed to Pond B-4B : Basin #4B

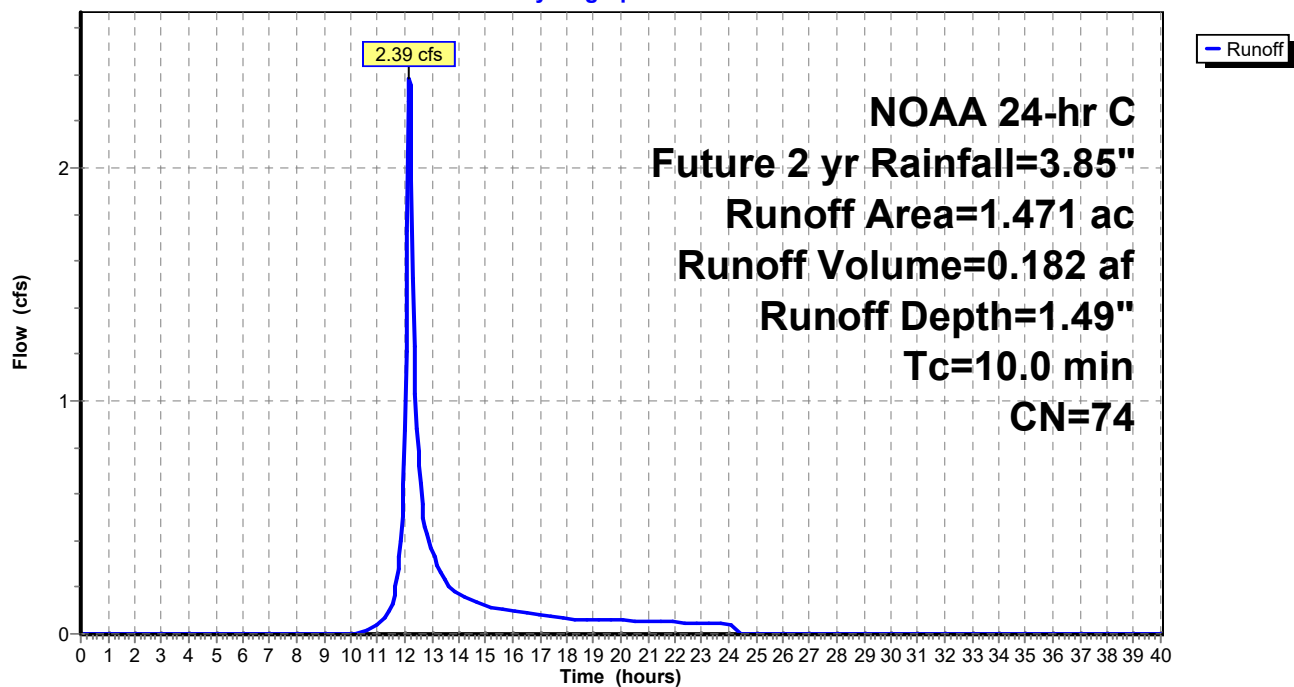
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 NOAA 24-hr C Future 2 yr Rainfall=3.85"

Area (ac)	CN	Description
1.471	74	>75% Grass cover, Good, HSG C
1.471		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.0					Direct Entry,

Subcatchment 4BP: PDA-4B (pervious)

Hydrograph



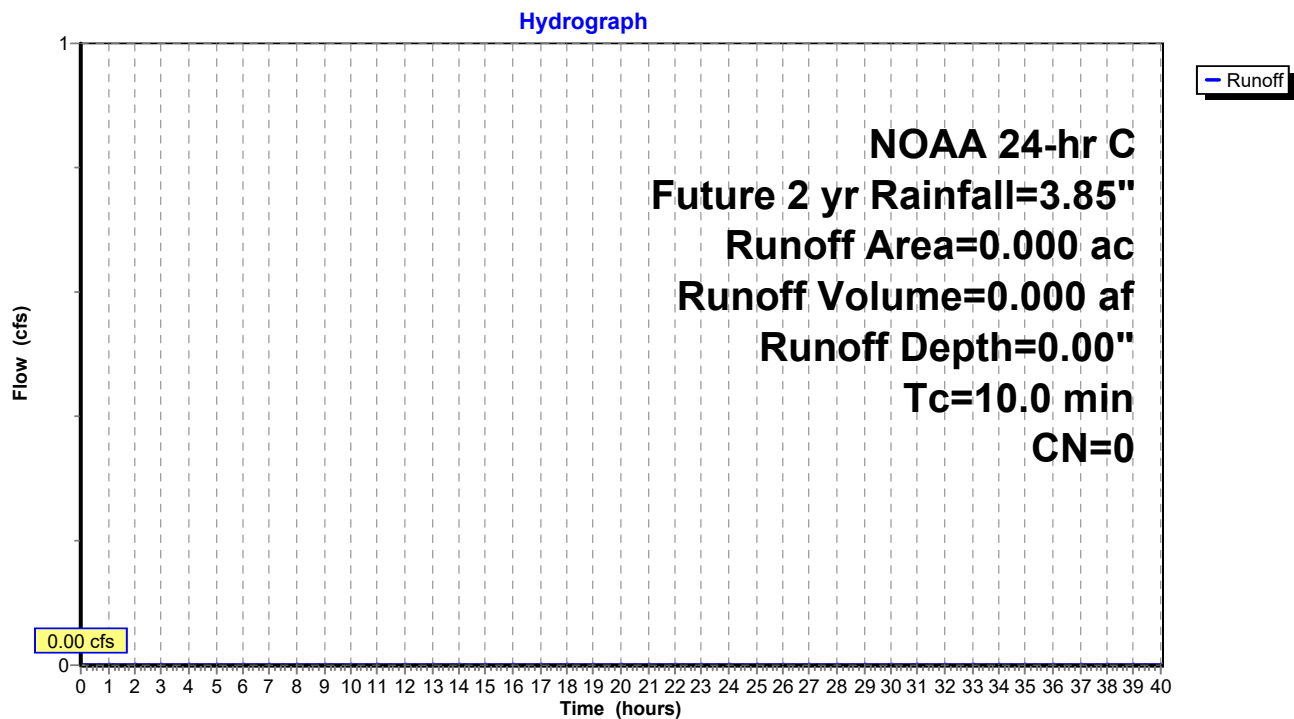
Summary for Subcatchment 5I: PDA-5 (impervious)

Runoff = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af, Depth= 0.00"
 Routed to Pond B-5 : Basin #5

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 NOAA 24-hr C Future 2 yr Rainfall=3.85"

Area (ac)	CN	Description
* 0.000	98	Pavement, HSG C
* 0.000	98	Concrete, HSG C
0.000	0	Weighted Average

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.0					Direct Entry,

Subcatchment 5I: PDA-5 (impervious)

Summary for Subcatchment 5P: PDA-5 (pervious)

Runoff = 1.10 cfs @ 12.18 hrs, Volume= 0.084 af, Depth= 1.49"
 Routed to Pond B-5 : Basin #5

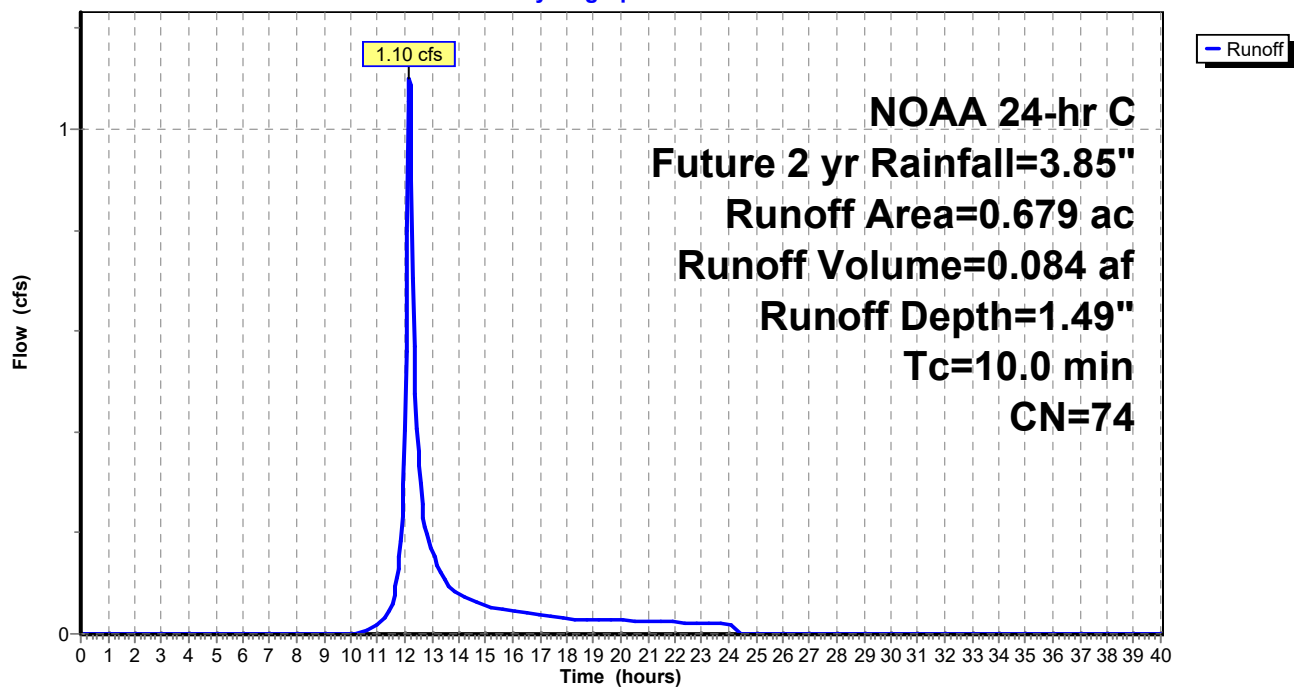
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 NOAA 24-hr C Future 2 yr Rainfall=3.85"

Area (ac)	CN	Description
0.679	74	>75% Grass cover, Good, HSG C
0.679		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.0					Direct Entry,

Subcatchment 5P: PDA-5 (pervious)

Hydrograph



Summary for Subcatchment 6I: PDA-6 (impervious)

Runoff = 2.42 cfs @ 12.17 hrs, Volume= 0.209 af, Depth= 3.62"
 Routed to Pond B-6 : Basin #6

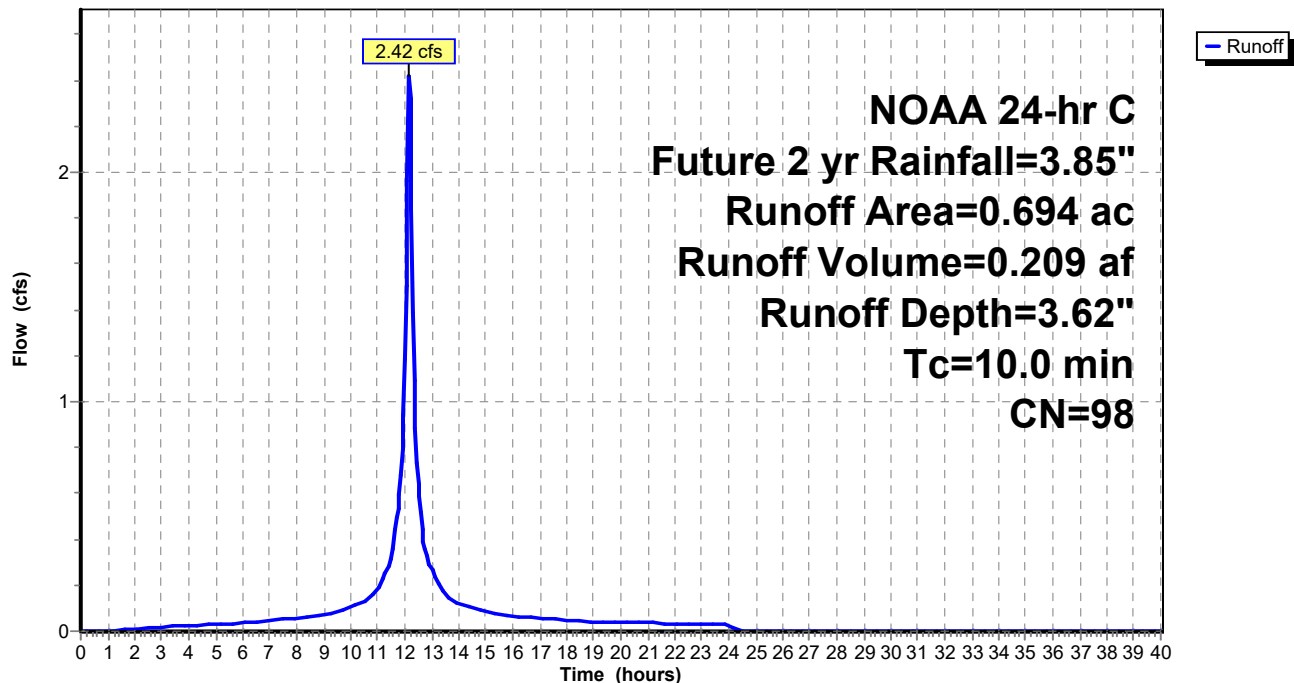
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 NOAA 24-hr C Future 2 yr Rainfall=3.85"

Area (ac)	CN	Description
* 0.459	98	Pavement, HSG C
* 0.129	98	Roof, HSG C
* 0.106	98	Concrete, HSG C
0.694	98	Weighted Average
0.694		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.0					Direct Entry,

Subcatchment 6I: PDA-6 (impervious)

Hydrograph



Summary for Subcatchment 6P: PDA-6 (pervious)

Runoff = 0.81 cfs @ 12.18 hrs, Volume= 0.062 af, Depth= 1.49"
 Routed to Pond B-6 : Basin #6

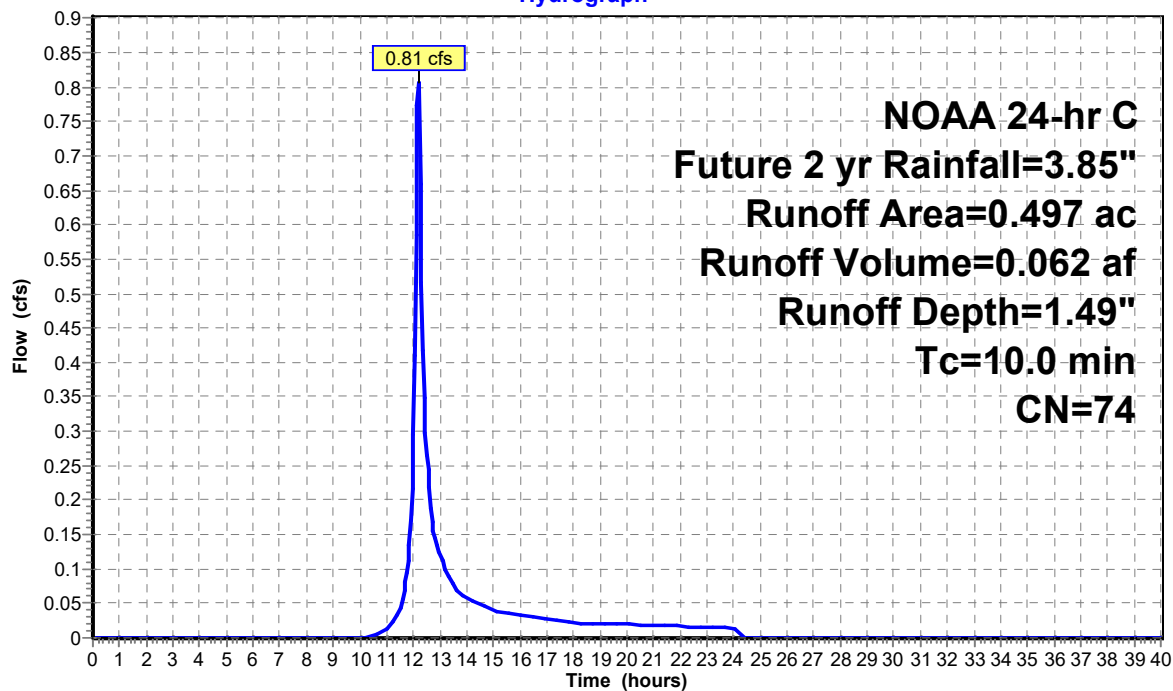
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 NOAA 24-hr C Future 2 yr Rainfall=3.85"

Area (ac)	CN	Description
0.497	74	>75% Grass cover, Good, HSG C
0.497		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.0					Direct Entry,

Subcatchment 6P: PDA-6 (pervious)

Hydrograph



Summary for Subcatchment 7I: PDA-7 (impervious)

Runoff = 3.43 cfs @ 12.17 hrs, Volume= 0.296 af, Depth= 3.62"
 Routed to Pond B-7 : Basin #7

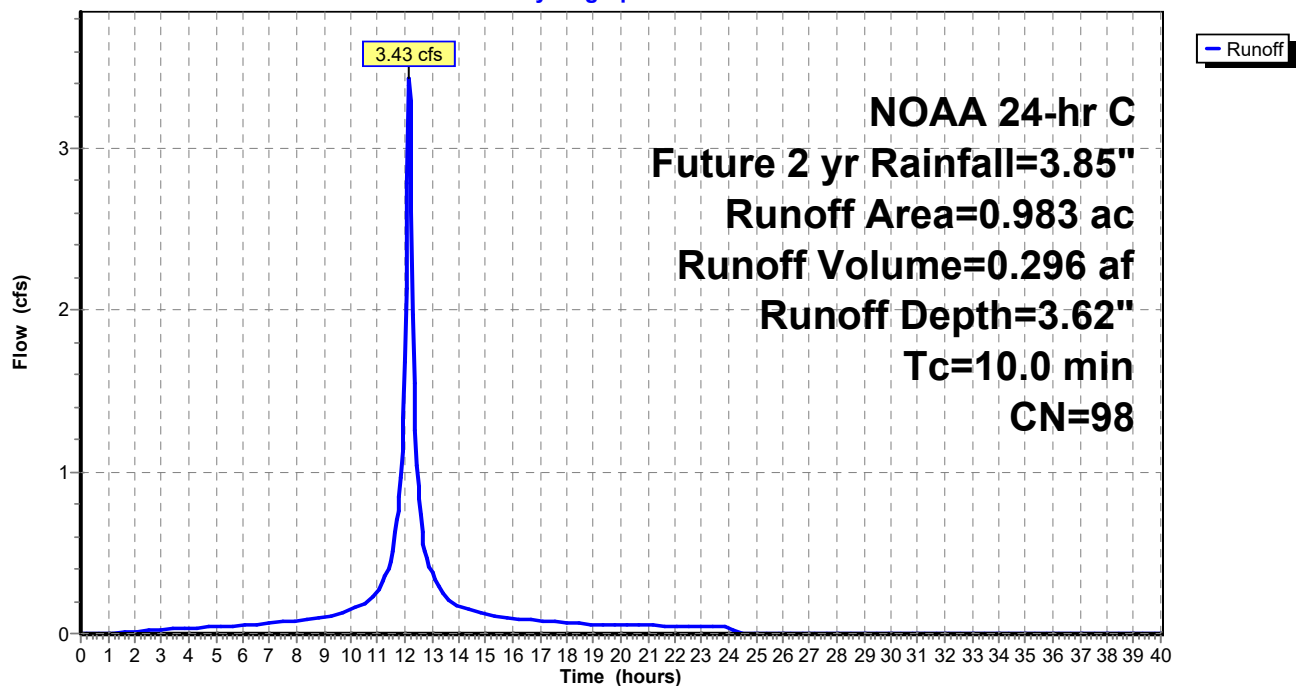
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 NOAA 24-hr C Future 2 yr Rainfall=3.85"

Area (ac)	CN	Description
* 0.886	98	Pavement, HSG C
* 0.097	98	Concrete, HSG C
0.983	98	Weighted Average
0.983		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.0					Direct Entry,

Subcatchment 7I: PDA-7 (impervious)

Hydrograph



Summary for Subcatchment 7P: PDA-7 (pervious)

Runoff = 0.94 cfs @ 12.18 hrs, Volume= 0.072 af, Depth= 1.49"
 Routed to Pond B-7 : Basin #7

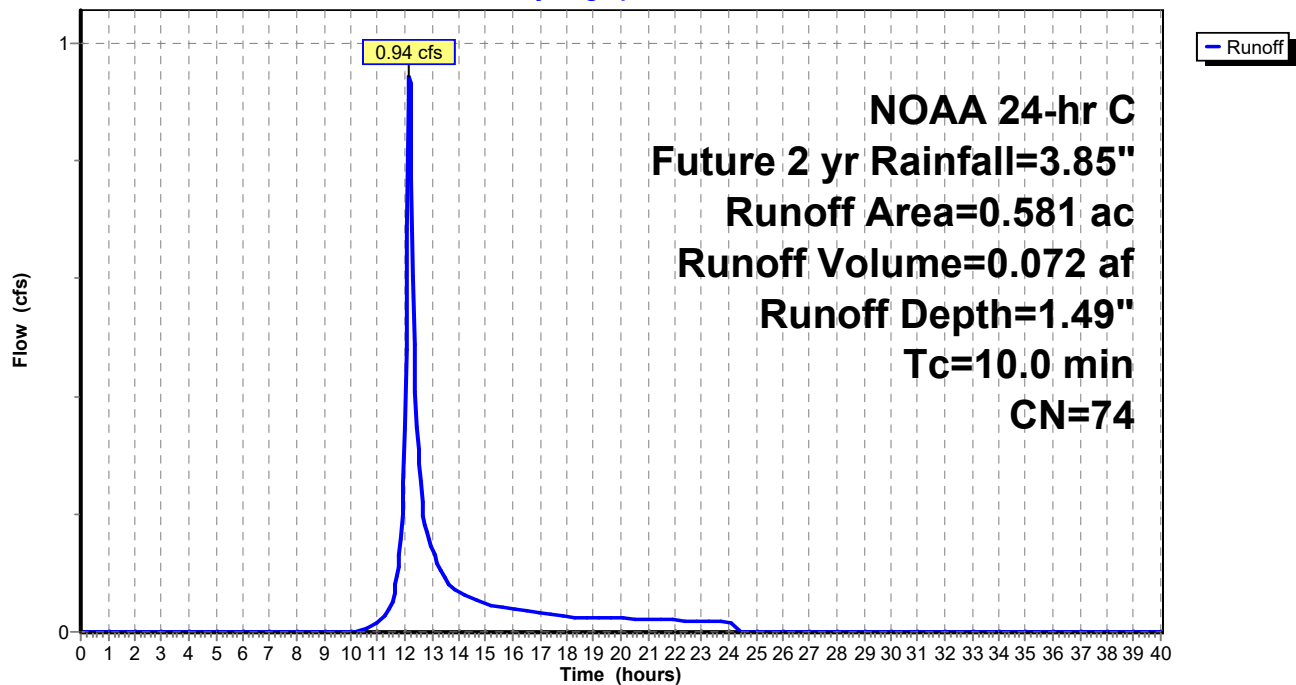
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 NOAA 24-hr C Future 2 yr Rainfall=3.85"

Area (ac)	CN	Description
0.581	74	>75% Grass cover, Good, HSG C
0.581		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.0					Direct Entry,

Subcatchment 7P: PDA-7 (pervious)

Hydrograph



Summary for Subcatchment 8I: PDA-8 (impervious)

Runoff = 1.68 cfs @ 12.17 hrs, Volume= 0.145 af, Depth= 3.62"
 Routed to Pond B-8 : Basin #8

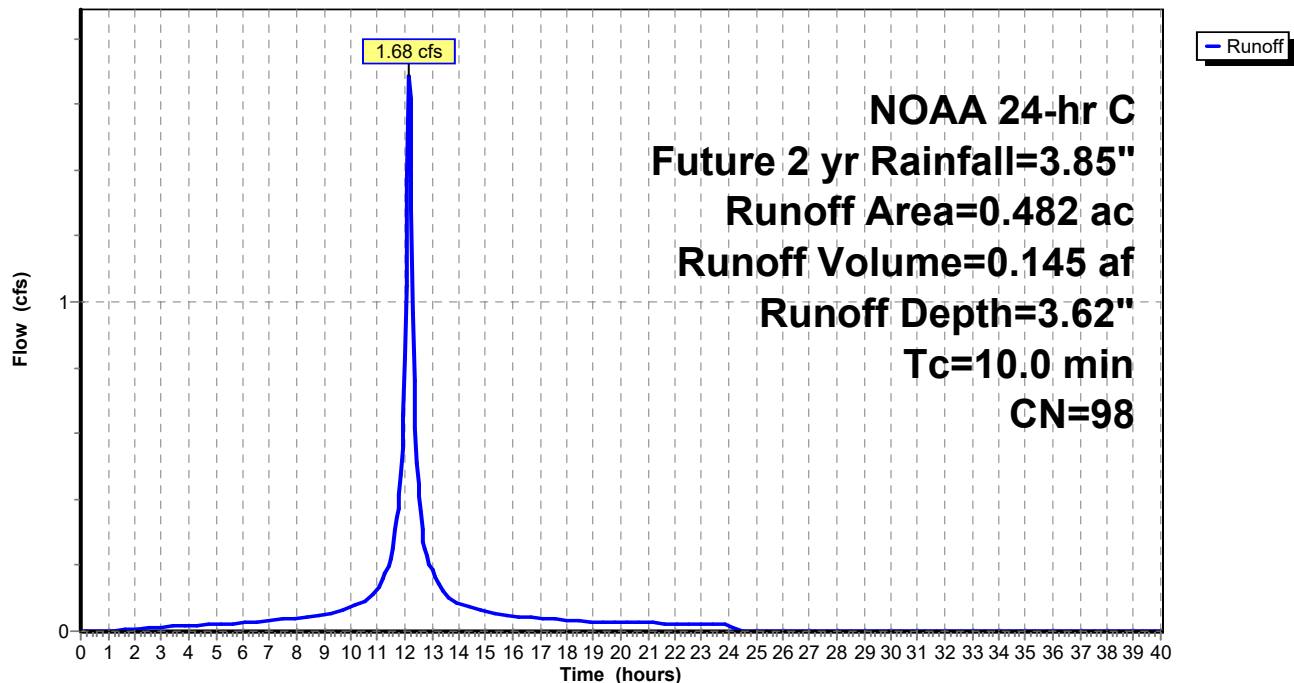
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 NOAA 24-hr C Future 2 yr Rainfall=3.85"

Area (ac)	CN	Description
* 0.000	98	Pavement, HSG C
* 0.482	98	Roof, HSG C
* 0.000	98	Concrete, HSG C
0.482	98	Weighted Average
0.482		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.0					Direct Entry,

Subcatchment 8I: PDA-8 (impervious)

Hydrograph



Summary for Subcatchment 8P: PDA-8 (pervious)

Runoff = 2.61 cfs @ 12.18 hrs, Volume= 0.199 af, Depth= 1.49"
Routed to Pond B-8 : Basin #8

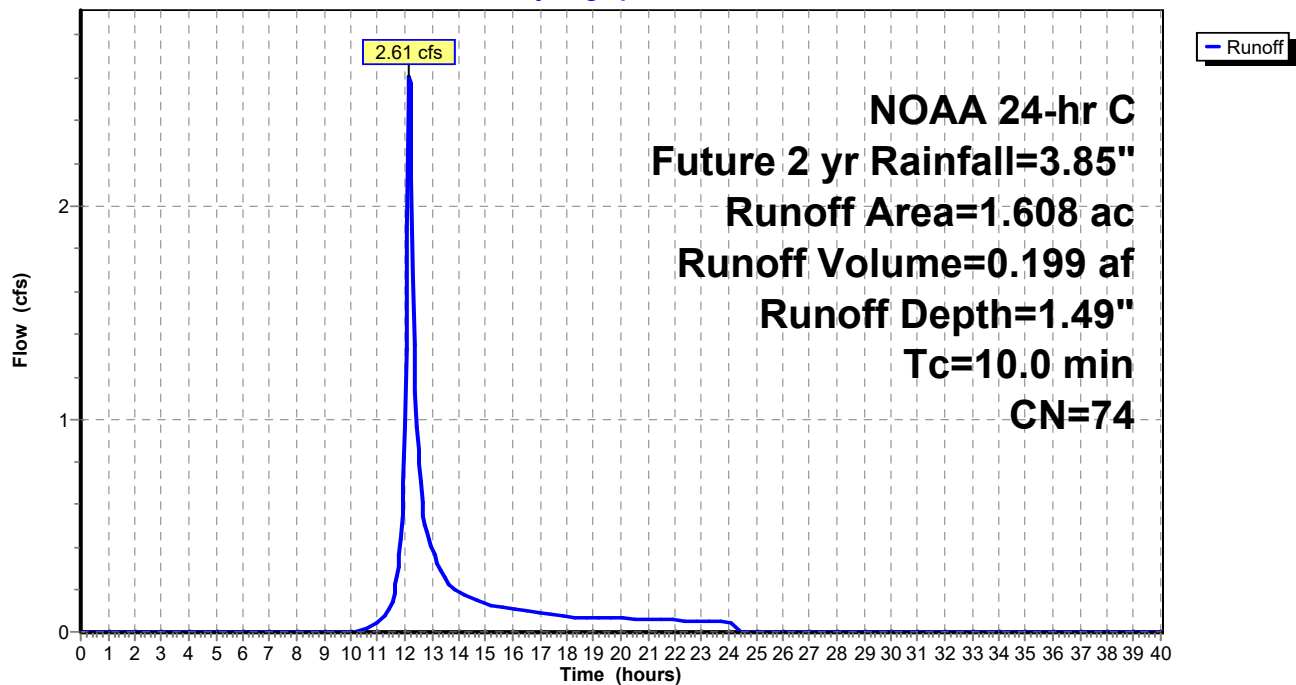
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
NOAA 24-hr C Future 2 yr Rainfall=3.85"

Area (ac)	CN	Description
1.608	74	>75% Grass cover, Good, HSG C
1.608		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.0					Direct Entry,

Subcatchment 8P: PDA-8 (pervious)

Hydrograph



Summary for Subcatchment 9I: PDA-9 (impervious)

Runoff = 2.76 cfs @ 12.17 hrs, Volume= 0.238 af, Depth= 3.62"
Routed to Pond B-9 : Basin #9

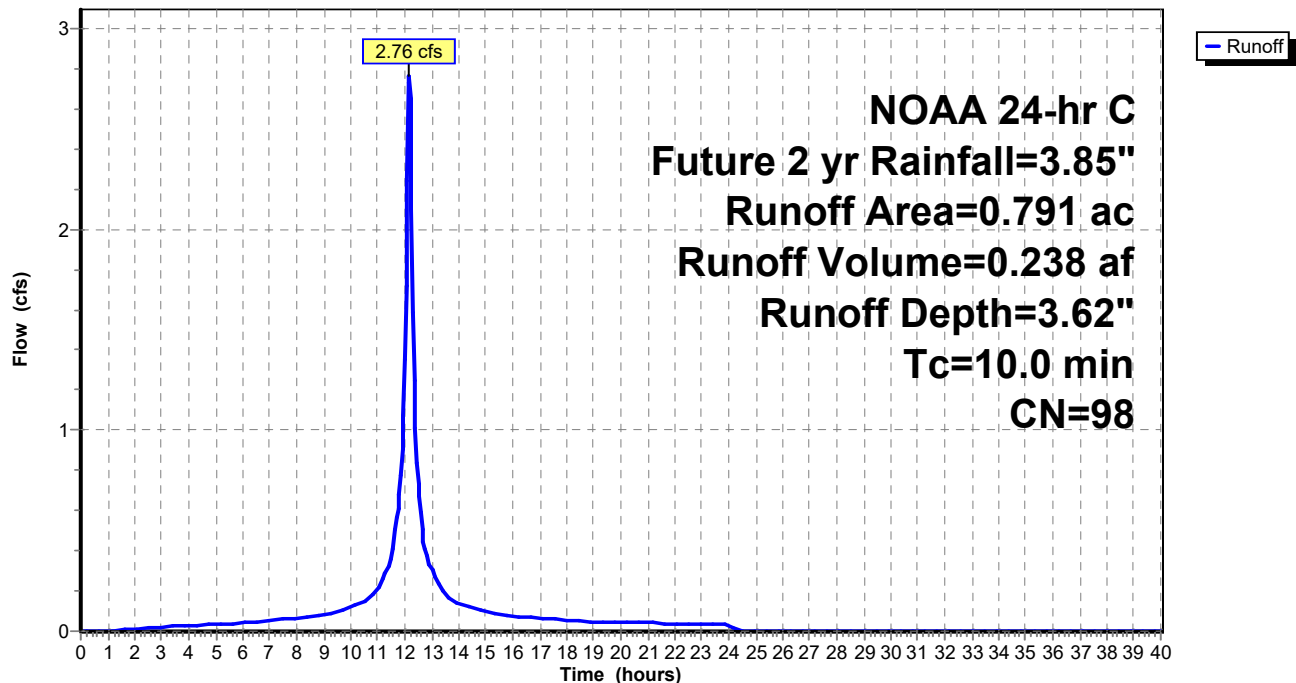
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
NOAA 24-hr C Future 2 yr Rainfall=3.85"

Area (ac)	CN	Description
* 0.286	98	Pavement, HSG C
* 0.450	98	Roof, HSG C
* 0.055	98	Concrete, HSG C
0.791	98	Weighted Average
0.791		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.0					Direct Entry,

Subcatchment 9I: PDA-9 (impervious)

Hydrograph



Summary for Subcatchment 9P: PDA-9 (pervious)

Runoff = 1.16 cfs @ 12.18 hrs, Volume= 0.088 af, Depth= 1.49"
 Routed to Pond B-9 : Basin #9

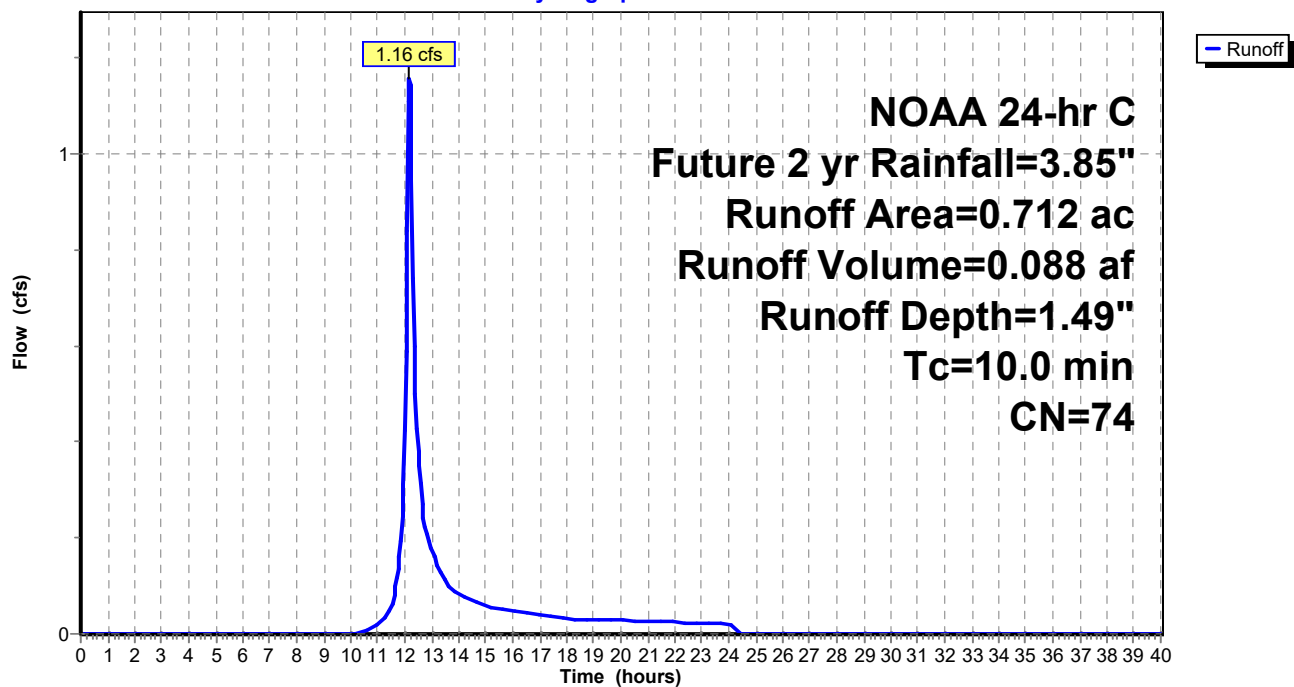
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 NOAA 24-hr C Future 2 yr Rainfall=3.85"

Area (ac)	CN	Description
0.712	74	>75% Grass cover, Good, HSG C
0.712		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.0					Direct Entry,

Subcatchment 9P: PDA-9 (pervious)

Hydrograph



Summary for Subcatchment 10I: PDA-10 (impervious)

Runoff = 3.31 cfs @ 12.17 hrs, Volume= 0.286 af, Depth= 3.62"
 Routed to Pond B-10 : Basin #10

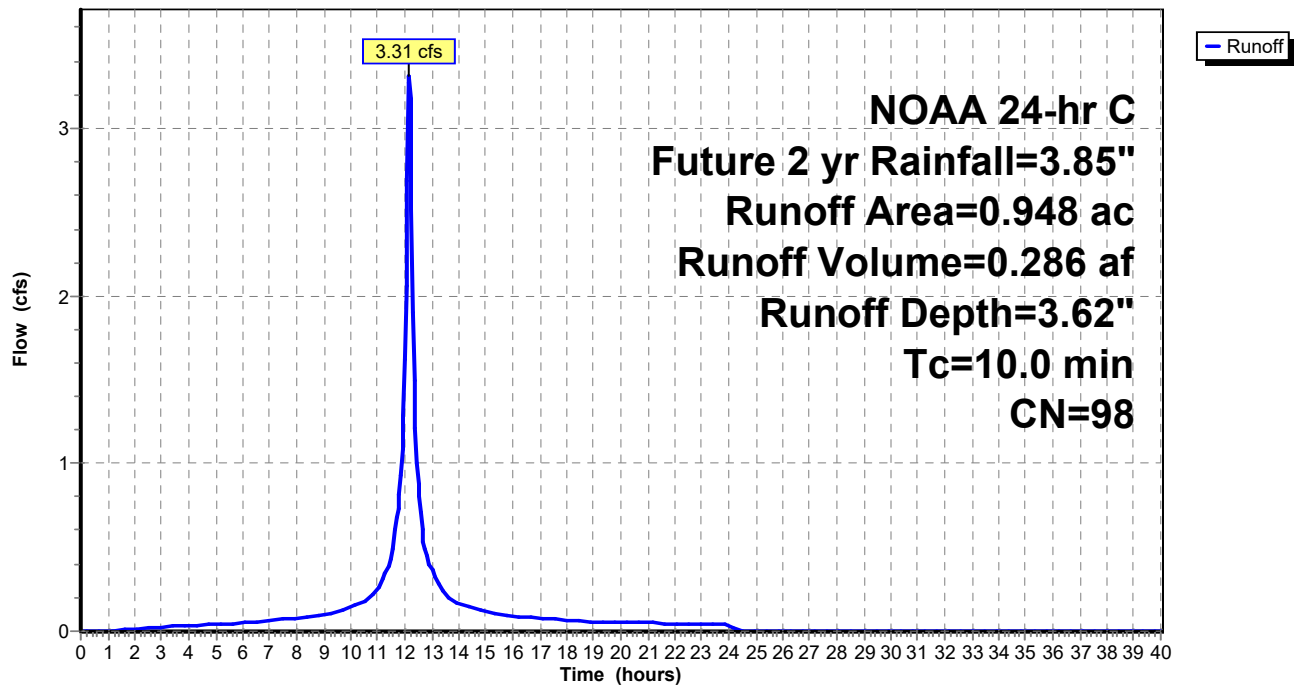
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 NOAA 24-hr C Future 2 yr Rainfall=3.85"

Area (ac)	CN	Description
* 0.570	98	Pavement, HSG C
* 0.321	98	Roof, HSG C
* 0.057	98	Concrete, HSG C
0.948	98	Weighted Average
0.948		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.0					Direct Entry,

Subcatchment 10I: PDA-10 (impervious)

Hydrograph



Summary for Subcatchment 10P: PDA-10 (pervious)

Runoff = 1.18 cfs @ 12.18 hrs, Volume= 0.090 af, Depth= 1.49"
 Routed to Pond B-10 : Basin #10

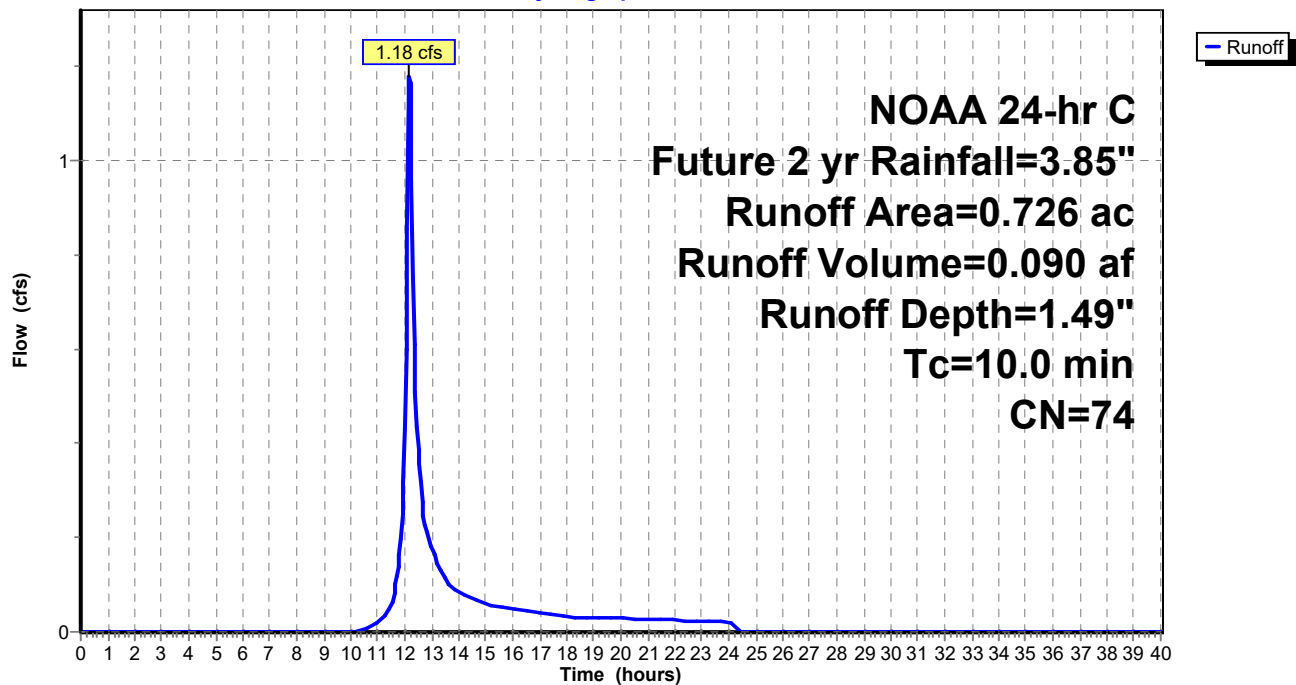
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 NOAA 24-hr C Future 2 yr Rainfall=3.85"

Area (ac)	CN	Description
0.726	74	>75% Grass cover, Good, HSG C
0.726		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.0					Direct Entry,

Subcatchment 10P: PDA-10 (pervious)

Hydrograph



Summary for Subcatchment 11I: PDA-11 (impervious)

Runoff = 4.55 cfs @ 12.17 hrs, Volume= 0.393 af, Depth= 3.62"
 Routed to Pond B-11 : Basin #11

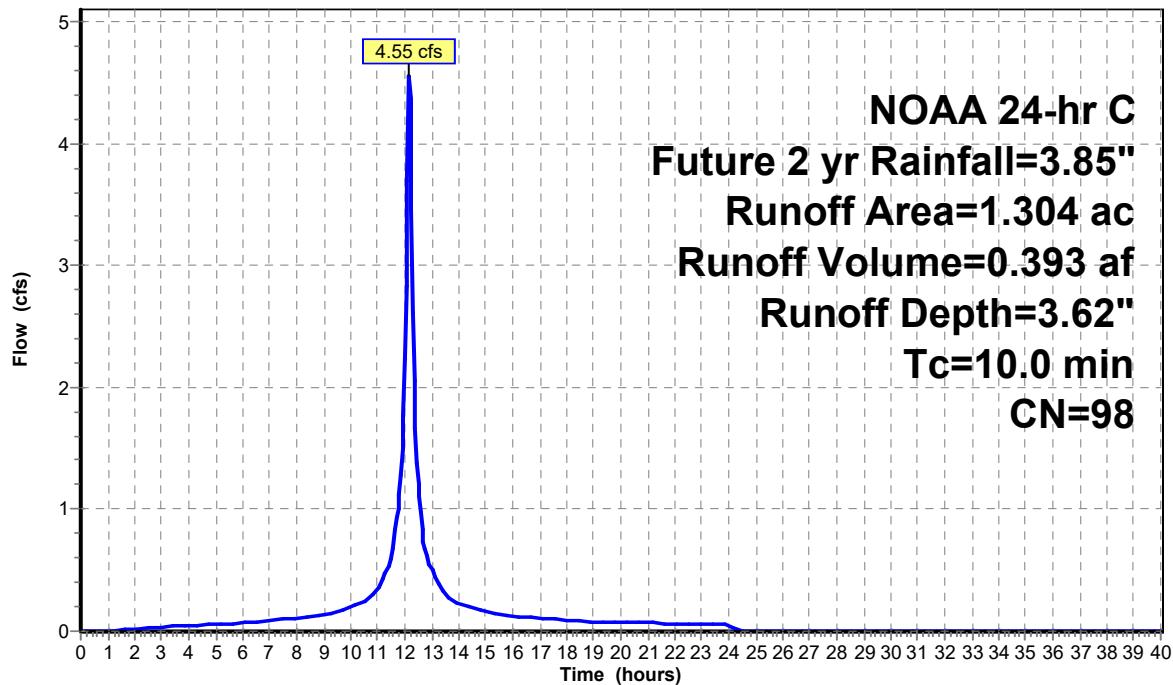
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 NOAA 24-hr C Future 2 yr Rainfall=3.85"

Area (ac)	CN	Description
* 0.166	98	Concrete, HSG C
0.231	98	Roofs, HSG C
0.907	98	Paved roads w/curbs & sewers, HSG C
1.304	98	Weighted Average
1.304		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.0					Direct Entry,

Subcatchment 11I: PDA-11 (impervious)

Hydrograph



Summary for Subcatchment 11P: PDA-11 (pervious)

Runoff = 1.50 cfs @ 12.18 hrs, Volume= 0.115 af, Depth= 1.49"
 Routed to Pond B-11 : Basin #11

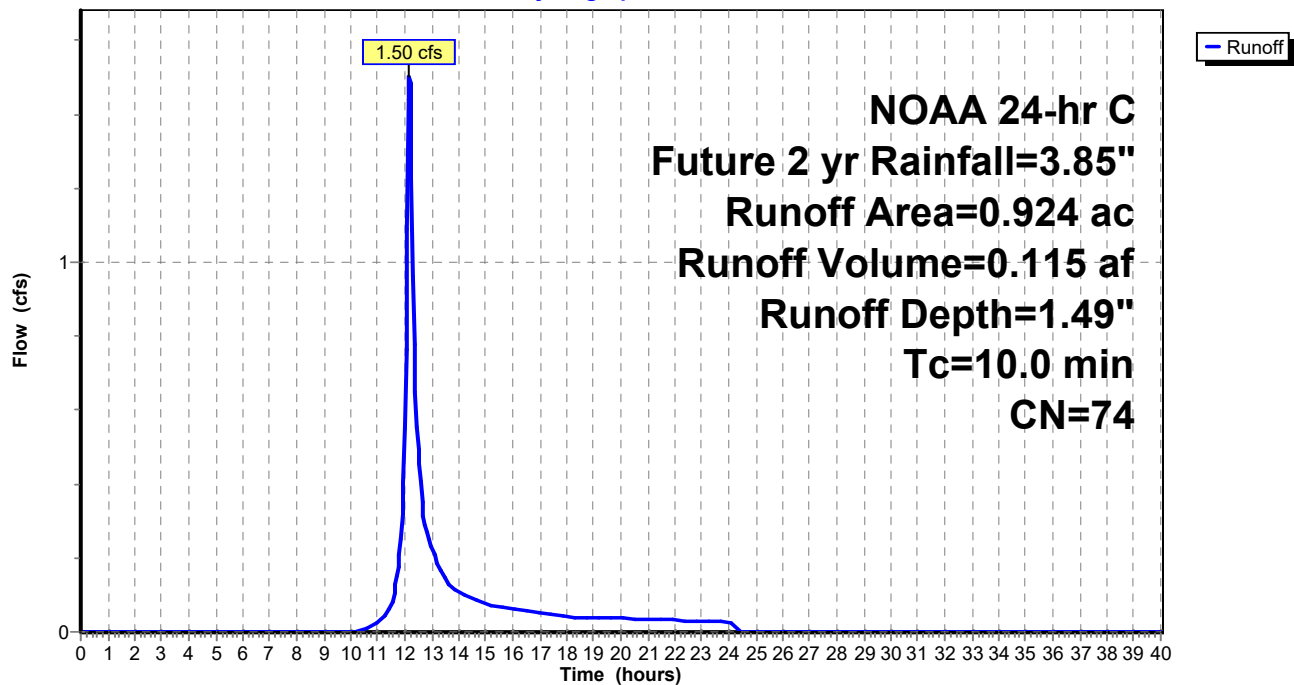
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 NOAA 24-hr C Future 2 yr Rainfall=3.85"

Area (ac)	CN	Description
0.924	74	>75% Grass cover, Good, HSG C
0.924		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.0					Direct Entry,

Subcatchment 11P: PDA-11 (pervious)

Hydrograph



Summary for Subcatchment 12I: PDA-12 (impervious)

Runoff = 3.79 cfs @ 12.17 hrs, Volume= 0.327 af, Depth= 3.62"
 Routed to Pond B-12 : Basin #12

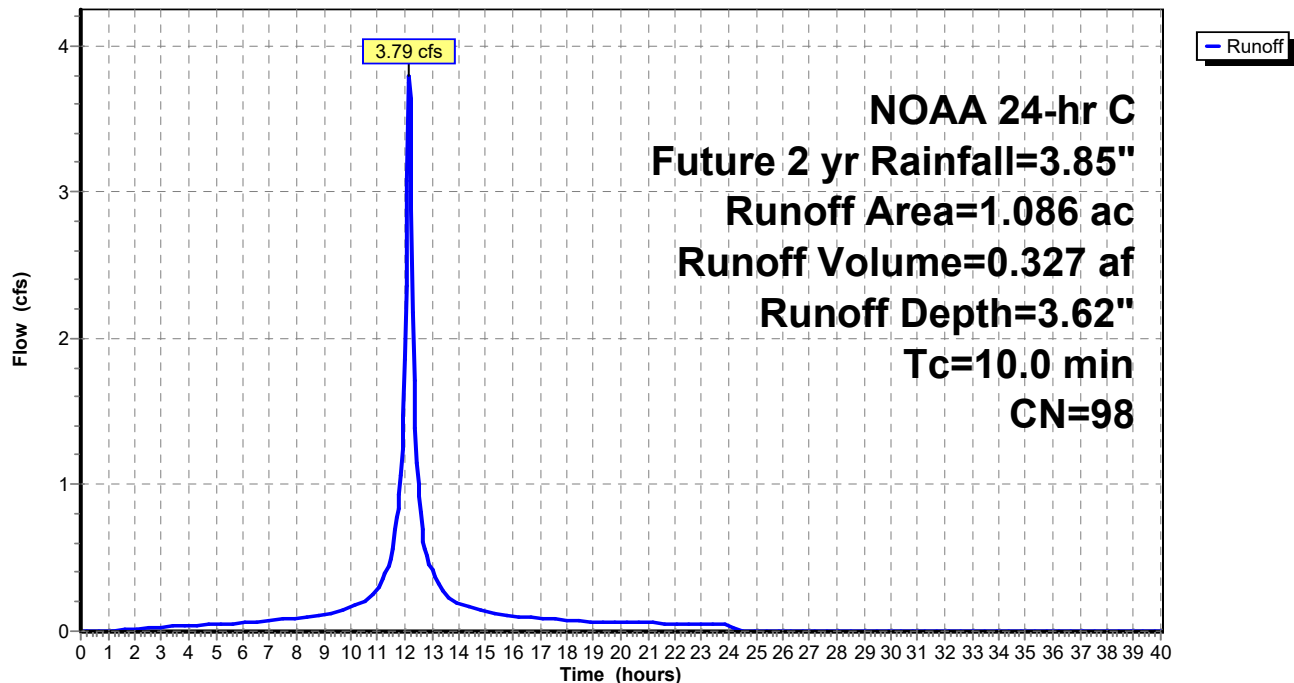
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 NOAA 24-hr C Future 2 yr Rainfall=3.85"

Area (ac)	CN	Description
* 0.404	98	Pavement, HSG C
* 0.643	98	Roof, HSG C
* 0.039	98	Concrete, HSG C
1.086	98	Weighted Average
1.086		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.0					Direct Entry,

Subcatchment 12I: PDA-12 (impervious)

Hydrograph



Summary for Subcatchment 12P: PDA-12 (pervious)

Runoff = 2.17 cfs @ 12.18 hrs, Volume= 0.166 af, Depth= 1.49"
Routed to Pond B-12 : Basin #12

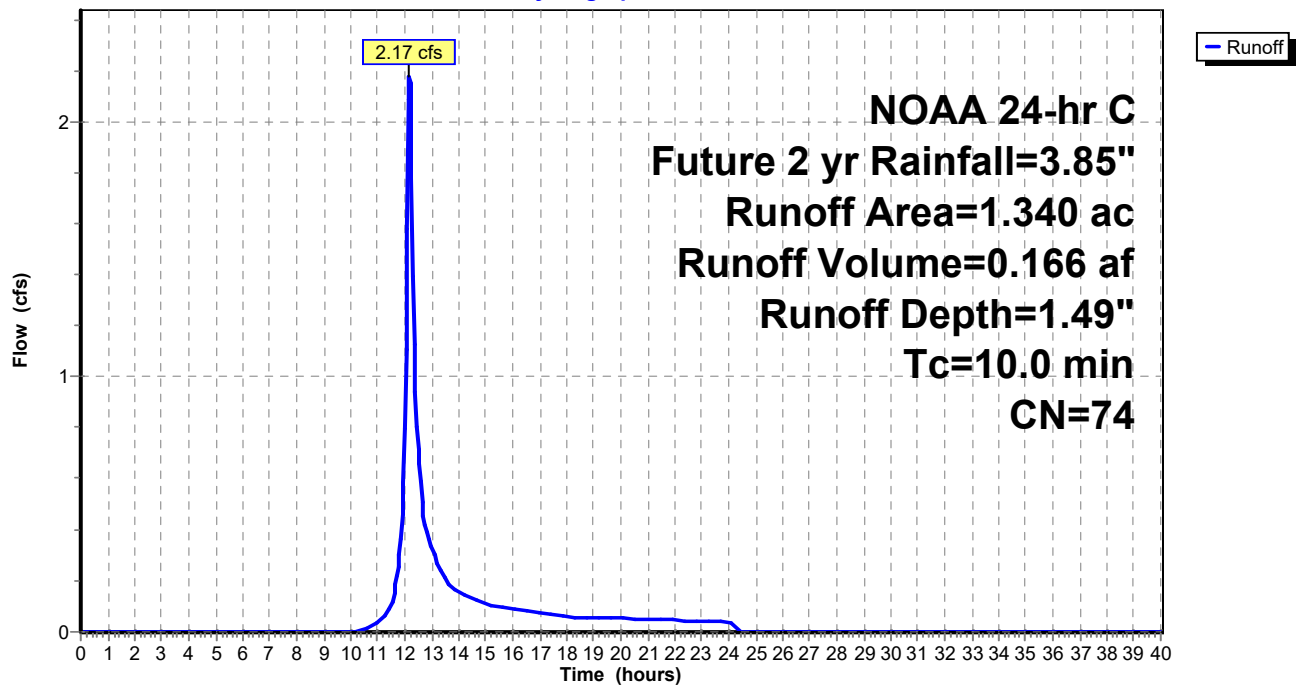
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
NOAA 24-hr C Future 2 yr Rainfall=3.85"

Area (ac)	CN	Description
1.340	74	>75% Grass cover, Good, HSG C
1.340		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.0					Direct Entry,

Subcatchment 12P: PDA-12 (pervious)

Hydrograph



Summary for Subcatchment 13I: PDA-13 (impervious)

Runoff = 5.12 cfs @ 12.17 hrs, Volume= 0.442 af, Depth= 3.62"
 Routed to Pond B-13 : Basin #13

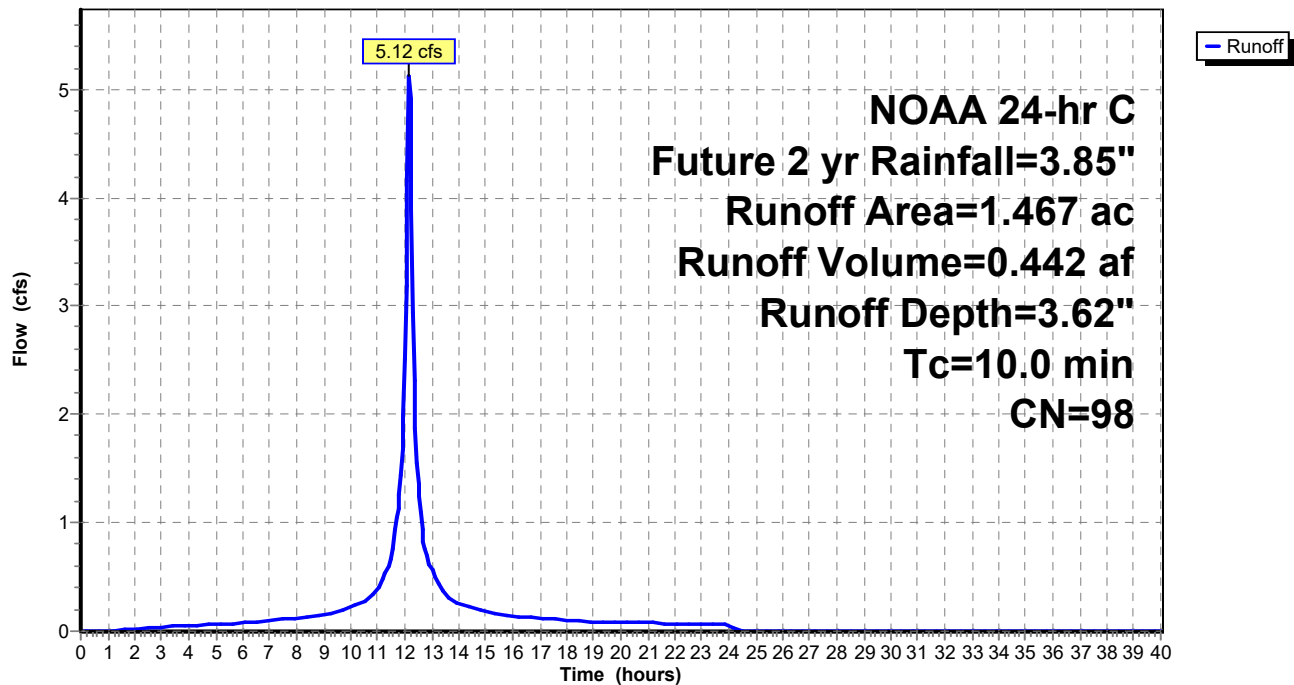
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 NOAA 24-hr C Future 2 yr Rainfall=3.85"

Area (ac)	CN	Description
* 0.678	98	Pavement, HSG C
* 0.707	98	Roof, HSG C
* 0.082	98	Concrete, HSG C
1.467	98	Weighted Average
1.467		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.0					Direct Entry,

Subcatchment 13I: PDA-13 (impervious)

Hydrograph



Summary for Subcatchment 13P: PDA-13 (pervious)

Runoff = 1.43 cfs @ 12.18 hrs, Volume= 0.109 af, Depth= 1.49"
 Routed to Pond B-13 : Basin #13

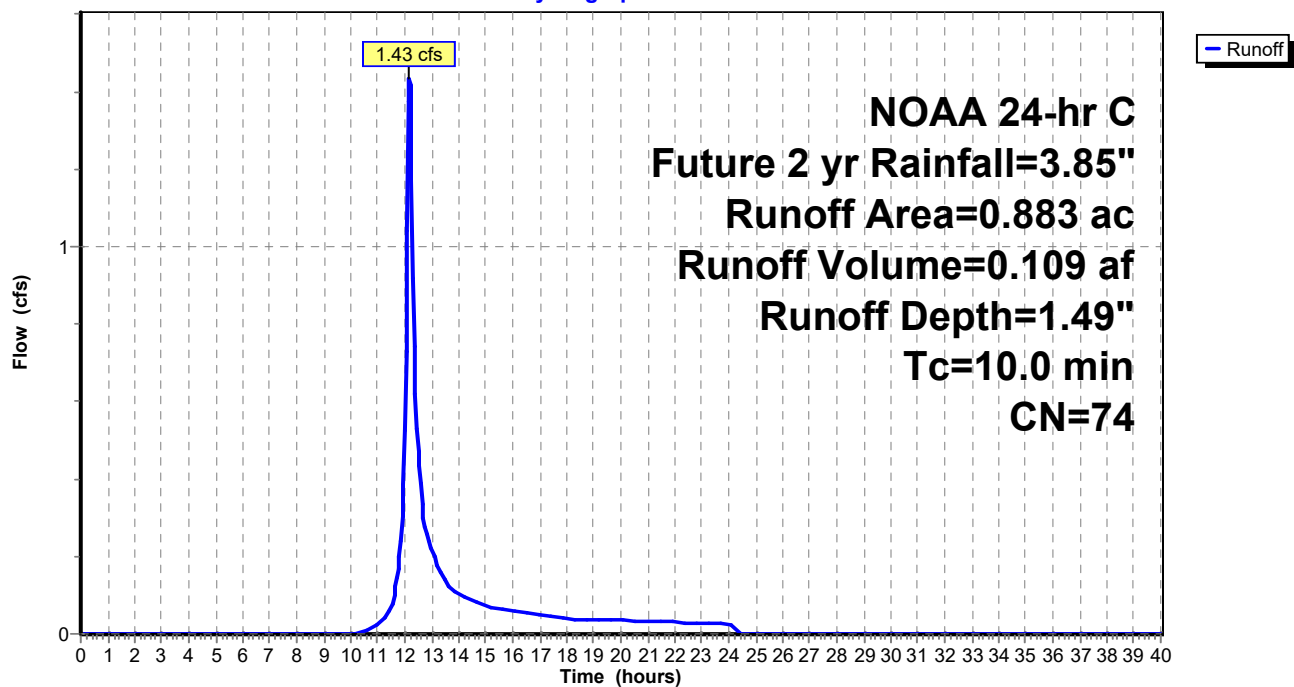
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 NOAA 24-hr C Future 2 yr Rainfall=3.85"

Area (ac)	CN	Description
0.883	74	>75% Grass cover, Good, HSG C
0.883		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.0					Direct Entry,

Subcatchment 13P: PDA-13 (pervious)

Hydrograph



Summary for Subcatchment 14I: PDA-14 (impervious)

Runoff = 1.77 cfs @ 12.17 hrs, Volume= 0.153 af, Depth= 3.62"
 Routed to Pond B-14 : Basin #14

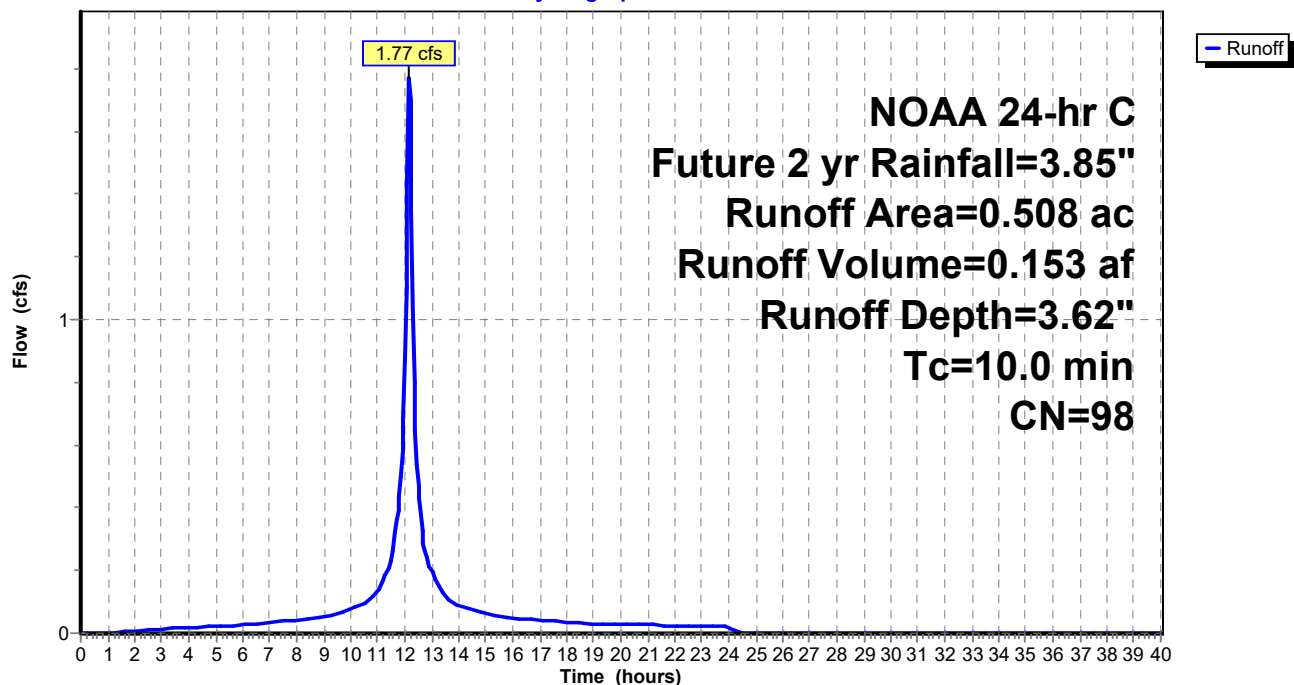
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 NOAA 24-hr C Future 2 yr Rainfall=3.85"

Area (ac)	CN	Description
* 0.308	98	Pavement, HSG C
* 0.064	98	Roof, HSG C
* 0.136	98	Concrete, HSG C
0.508	98	Weighted Average
0.508		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.0					Direct Entry,

Subcatchment 14I: PDA-14 (impervious)

Hydrograph



Summary for Subcatchment 14P: PDA-14 (pervious)

Runoff = 2.66 cfs @ 12.18 hrs, Volume= 0.203 af, Depth= 1.49"
 Routed to Pond B-14 : Basin #14

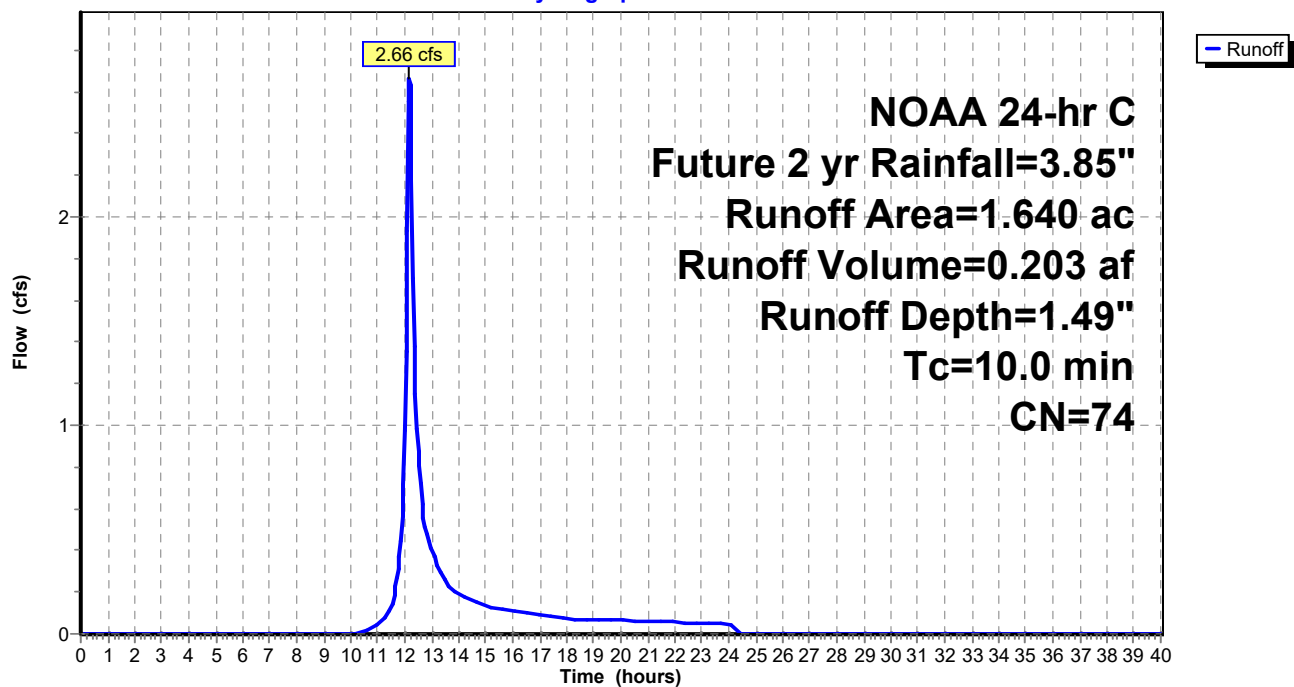
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 NOAA 24-hr C Future 2 yr Rainfall=3.85"

Area (ac)	CN	Description
1.640	74	>75% Grass cover, Good, HSG C
1.640		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.0					Direct Entry,

Subcatchment 14P: PDA-14 (pervious)

Hydrograph



Summary for Subcatchment 15I: PDA-15 (impervious)

Runoff = 4.85 cfs @ 12.17 hrs, Volume= 0.418 af, Depth= 3.62"
 Routed to Pond B-15 : Basin #15

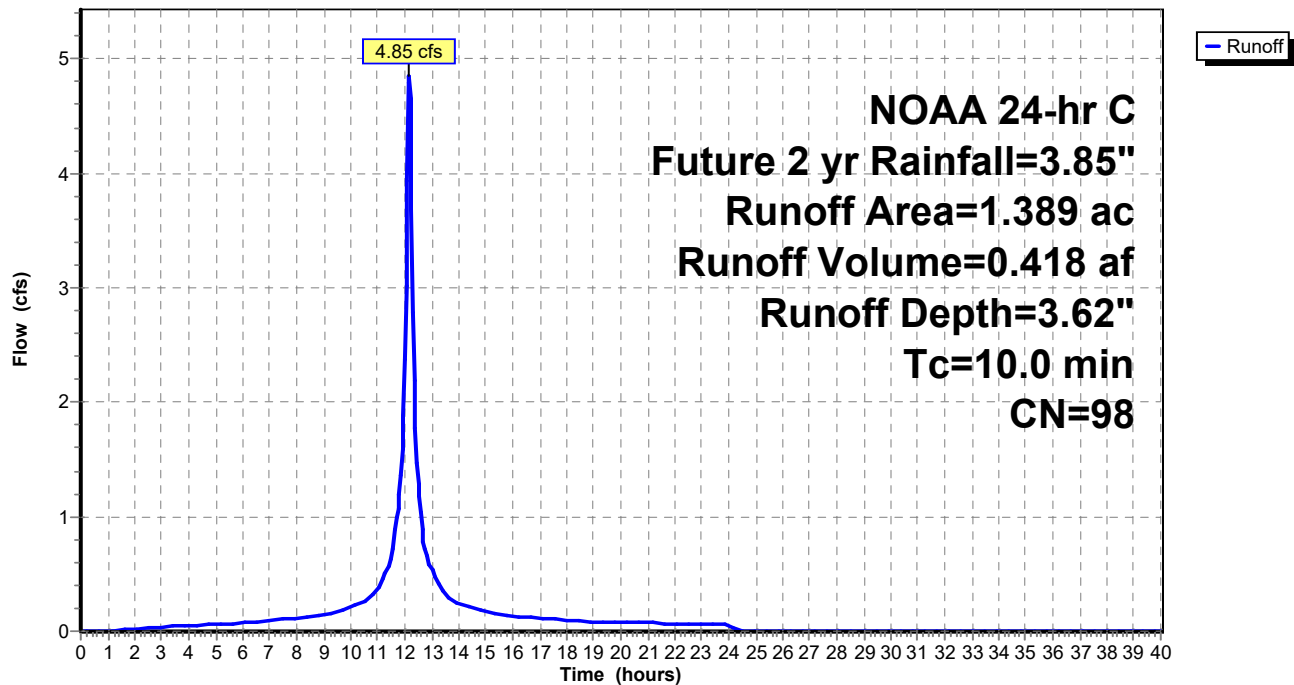
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 NOAA 24-hr C Future 2 yr Rainfall=3.85"

Area (ac)	CN	Description
* 0.501	98	Pavement, HSG C
* 0.836	98	Roof, HSG C
* 0.052	98	Concrete, HSG C
1.389	98	Weighted Average
1.389		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.0					Direct Entry,

Subcatchment 15I: PDA-15 (impervious)

Hydrograph



Summary for Subcatchment 15P: PDA-15 (pervious)

Runoff = 1.58 cfs @ 12.18 hrs, Volume= 0.121 af, Depth= 1.49"
 Routed to Pond B-15 : Basin #15

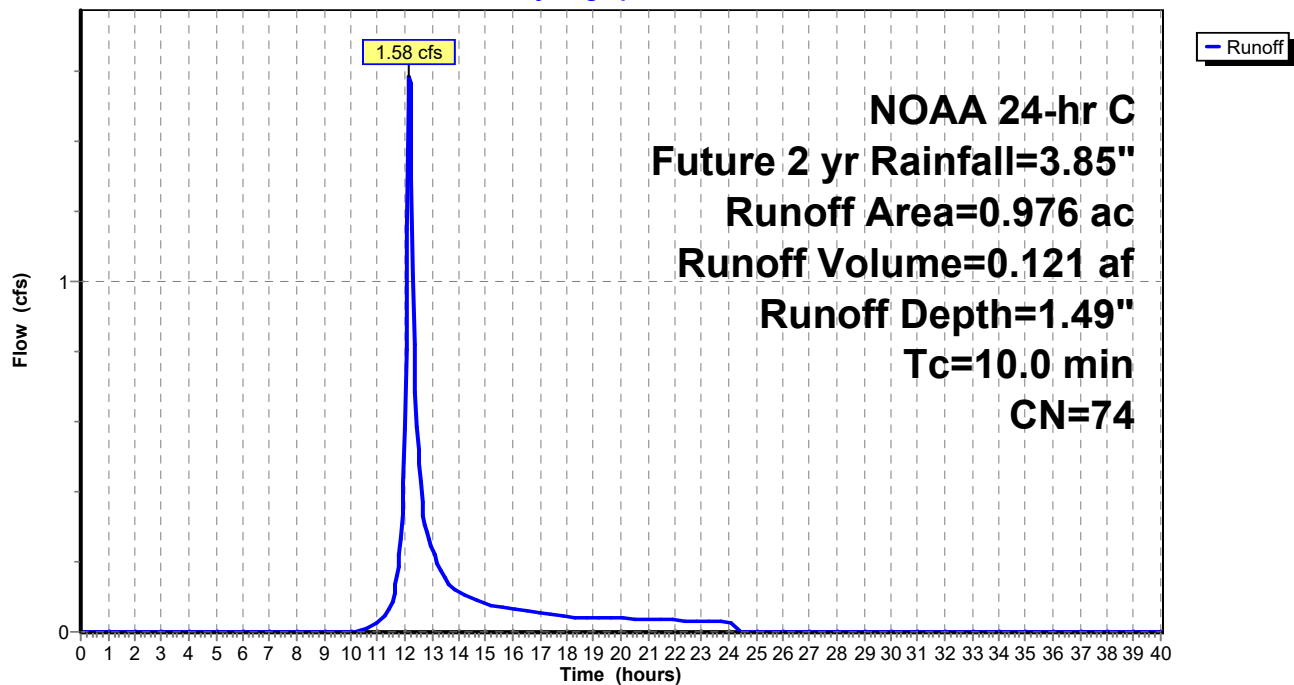
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 NOAA 24-hr C Future 2 yr Rainfall=3.85"

Area (ac)	CN	Description
0.976	74	>75% Grass cover, Good, HSG C
0.976		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.0					Direct Entry,

Subcatchment 15P: PDA-15 (pervious)

Hydrograph



Summary for Subcatchment 16A1: PDA-16A (impervious)

Runoff = 2.98 cfs @ 12.17 hrs, Volume= 0.257 af, Depth= 3.62"
 Routed to Pond B-16A : Basin #16A

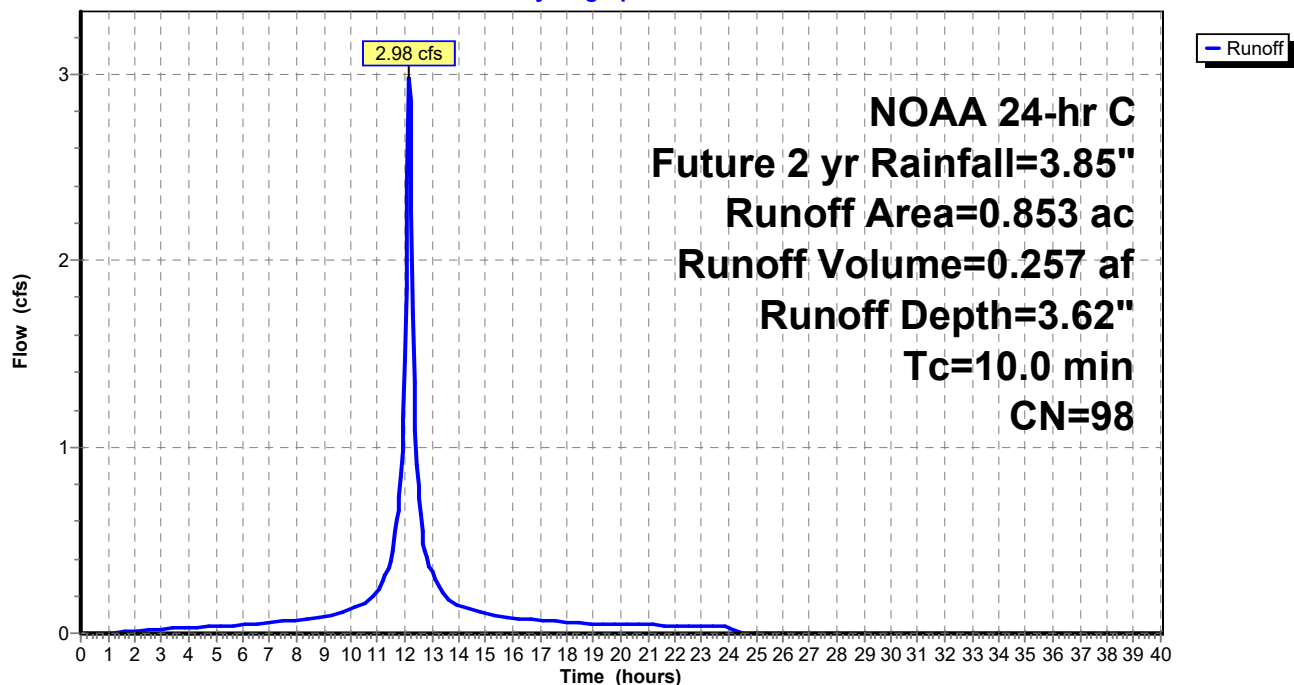
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 NOAA 24-hr C Future 2 yr Rainfall=3.85"

Area (ac)	CN	Description
* 0.072	98	Pavement, HSG C
* 0.771	98	Roof, HSG C
* 0.010	98	Concrete, HSG C
0.853	98	Weighted Average
0.853		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.0					Direct Entry,

Subcatchment 16A1: PDA-16A (impervious)

Hydrograph



Summary for Subcatchment 16AP: PDA-16A (pervious)

Runoff = 1.66 cfs @ 12.18 hrs, Volume= 0.127 af, Depth= 1.49"
 Routed to Pond B-16A : Basin #16A

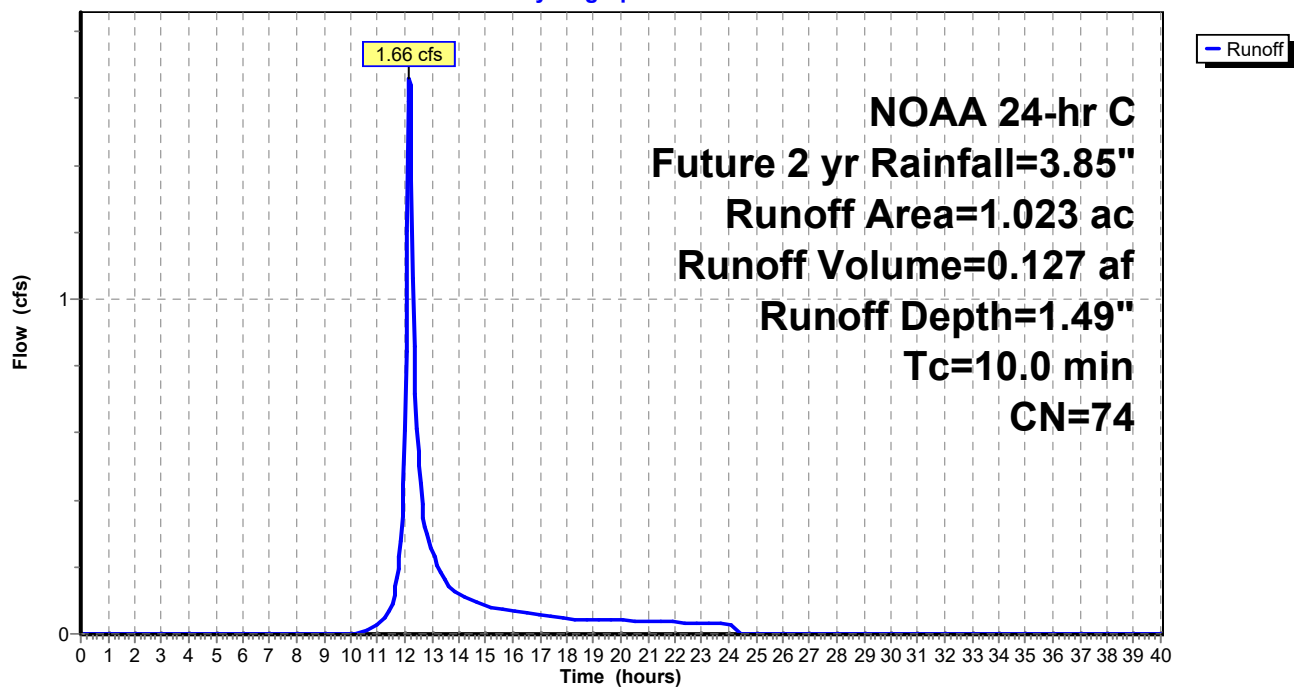
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 NOAA 24-hr C Future 2 yr Rainfall=3.85"

Area (ac)	CN	Description
1.023	74	>75% Grass cover, Good, HSG C
1.023		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.0					Direct Entry,

Subcatchment 16AP: PDA-16A (pervious)

Hydrograph



Summary for Subcatchment 16BI: PDA-16B (impervious)

Runoff = 2.87 cfs @ 12.17 hrs, Volume= 0.247 af, Depth= 3.62"
 Routed to Pond B-16B : Basin #16B

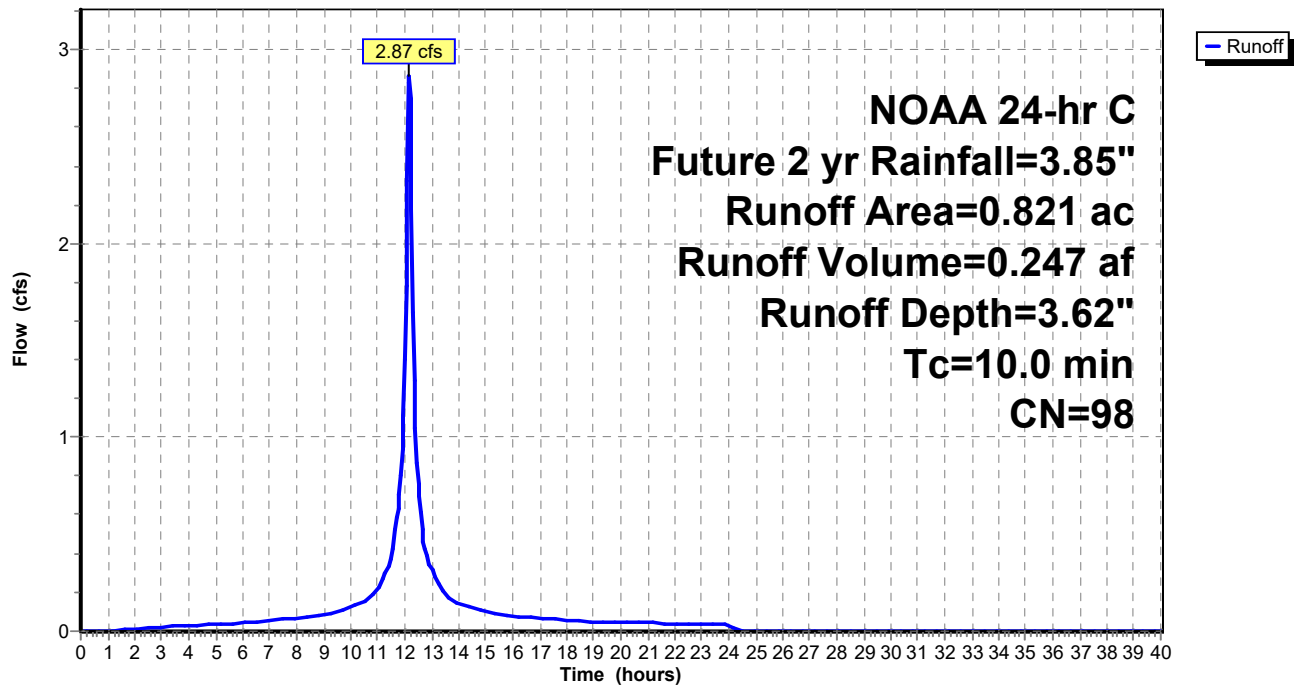
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 NOAA 24-hr C Future 2 yr Rainfall=3.85"

Area (ac)	CN	Description
* 0.621	98	Pavement, HSG C
* 0.064	98	Roof, HSG C
* 0.136	98	Concrete, HSG C
0.821	98	Weighted Average
0.821		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.0					Direct Entry,

Subcatchment 16BI: PDA-16B (impervious)

Hydrograph



Summary for Subcatchment 16BP: PDA-16B (pervious)

Runoff = 1.71 cfs @ 12.18 hrs, Volume= 0.131 af, Depth= 1.49"
 Routed to Pond B-16B : Basin #16B

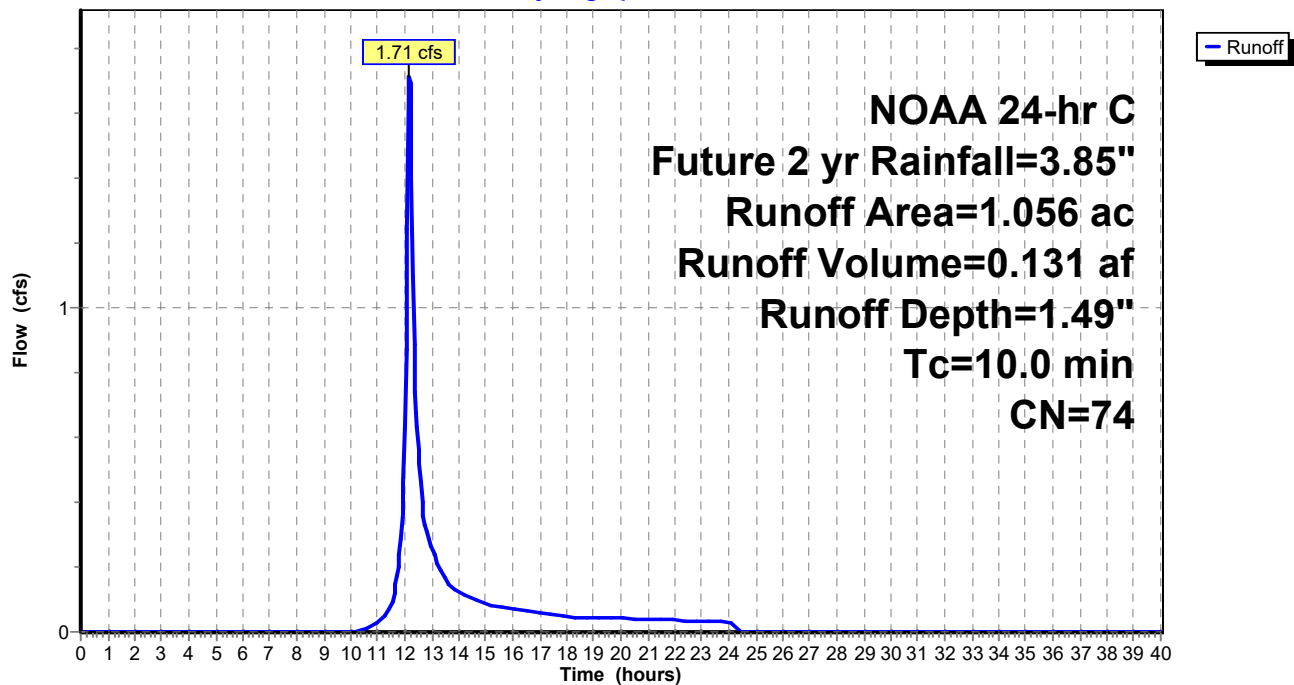
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 NOAA 24-hr C Future 2 yr Rainfall=3.85"

Area (ac)	CN	Description
1.056	74	>75% Grass cover, Good, HSG C
1.056		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.0					Direct Entry,

Subcatchment 16BP: PDA-16B (pervious)

Hydrograph



Summary for Subcatchment 17A1: PDA-17A (impervious)

Runoff = 0.67 cfs @ 12.17 hrs, Volume= 0.058 af, Depth= 3.62"
 Routed to Pond B-17A : Basin #17A

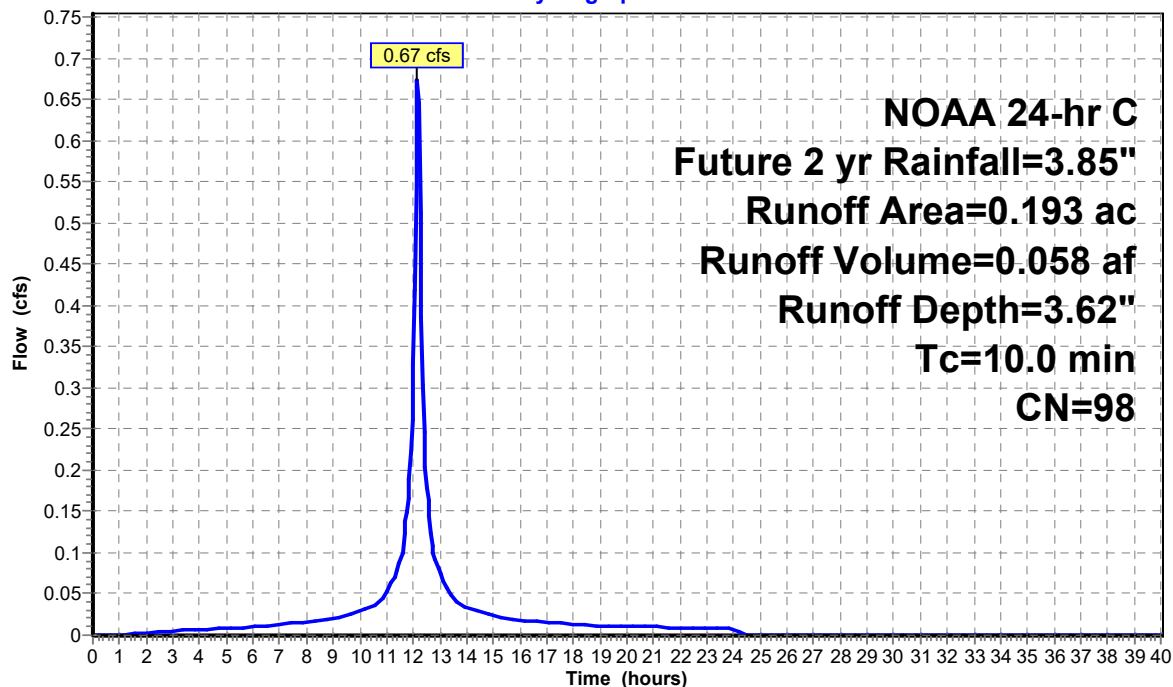
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 NOAA 24-hr C Future 2 yr Rainfall=3.85"

Area (ac)	CN	Description
* 0.193	98	Roof, HSG C
0.000	98	Paved roads w/curbs & sewers, HSG C
* 0.000	98	Concrete, HSG C
0.193	98	Weighted Average
0.193		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.0					Direct Entry,

Subcatchment 17A1: PDA-17A (impervious)

Hydrograph



Summary for Subcatchment 17AP: PDA-17A (pervious)

Runoff = 1.84 cfs @ 12.18 hrs, Volume= 0.140 af, Depth= 1.49"
 Routed to Pond B-17A : Basin #17A

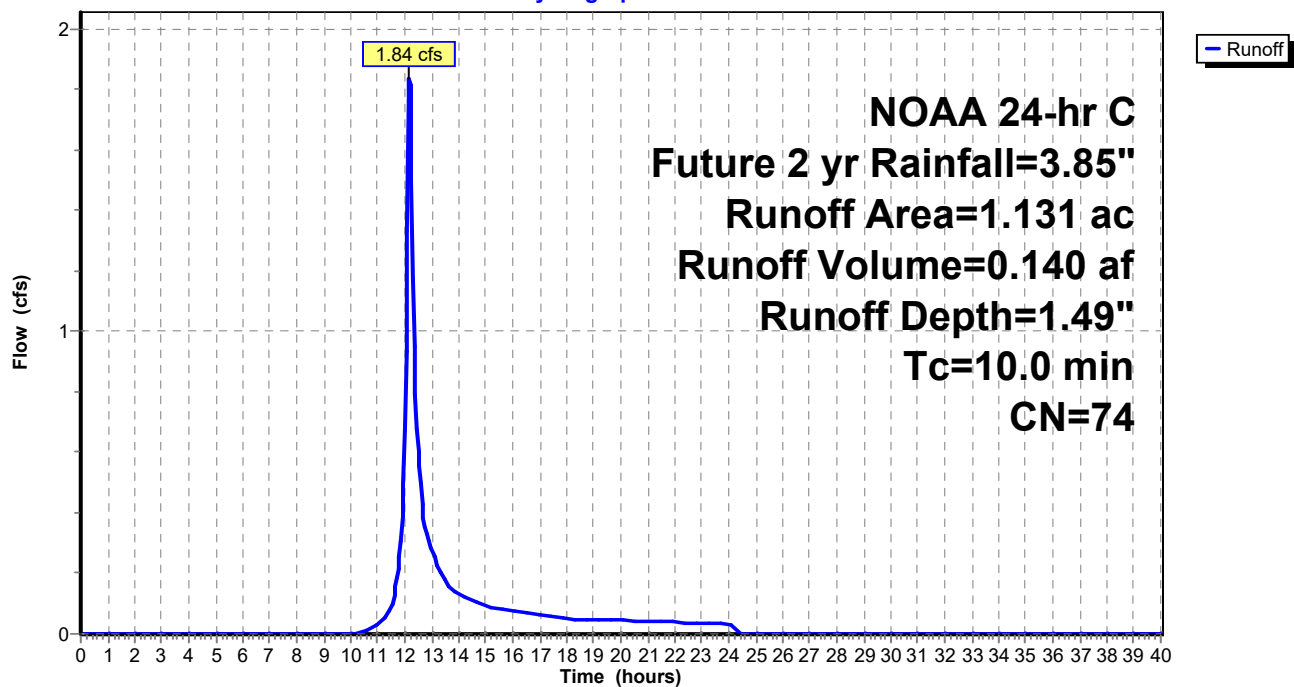
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 NOAA 24-hr C Future 2 yr Rainfall=3.85"

Area (ac)	CN	Description
1.131	74	>75% Grass cover, Good, HSG C
1.131		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.0					Direct Entry,

Subcatchment 17AP: PDA-17A (pervious)

Hydrograph



Summary for Subcatchment 17BI: PDA-17B (impervious)

Runoff = 1.80 cfs @ 12.17 hrs, Volume= 0.155 af, Depth= 3.62"
 Routed to Pond B-17B : Basin #17B

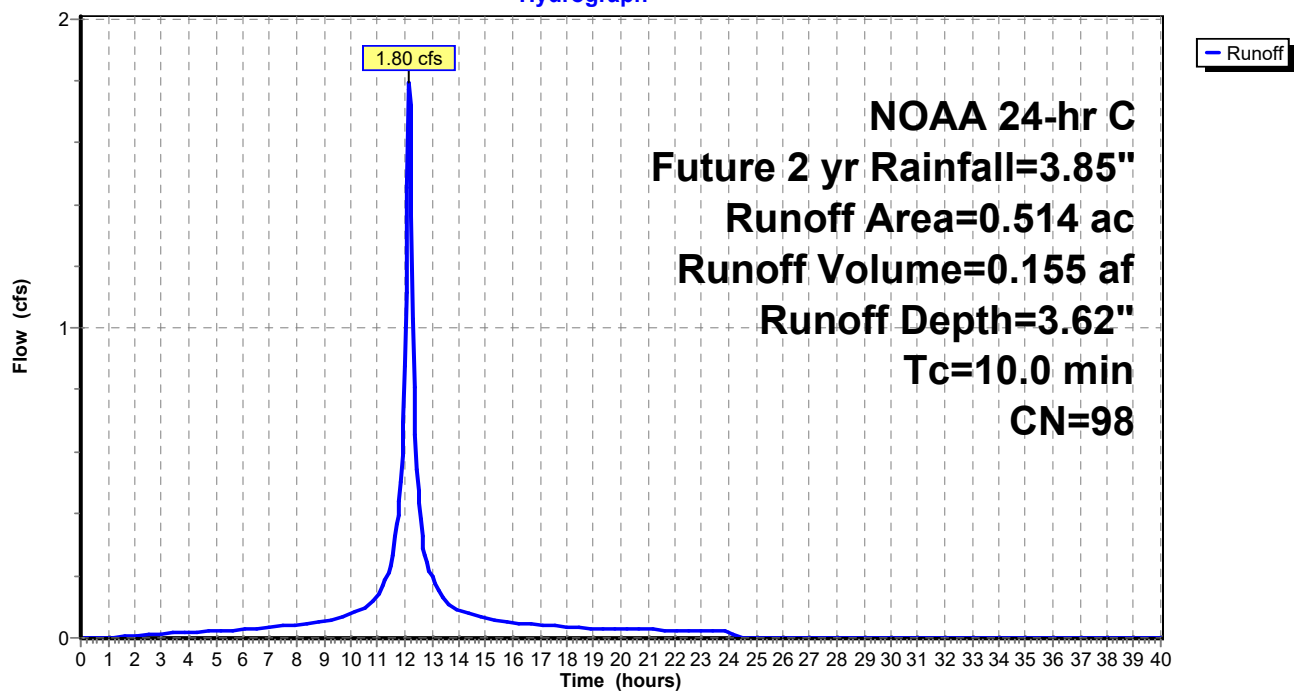
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 NOAA 24-hr C Future 2 yr Rainfall=3.85"

Area (ac)	CN	Description
* 0.514	98	Roof, HSG C
0.514		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.0					Direct Entry,

Subcatchment 17BI: PDA-17B (impervious)

Hydrograph



Summary for Subcatchment 17BP: PDA-17B (pervious)

Runoff = 1.41 cfs @ 12.18 hrs, Volume= 0.108 af, Depth= 1.49"
 Routed to Pond B-17B : Basin #17B

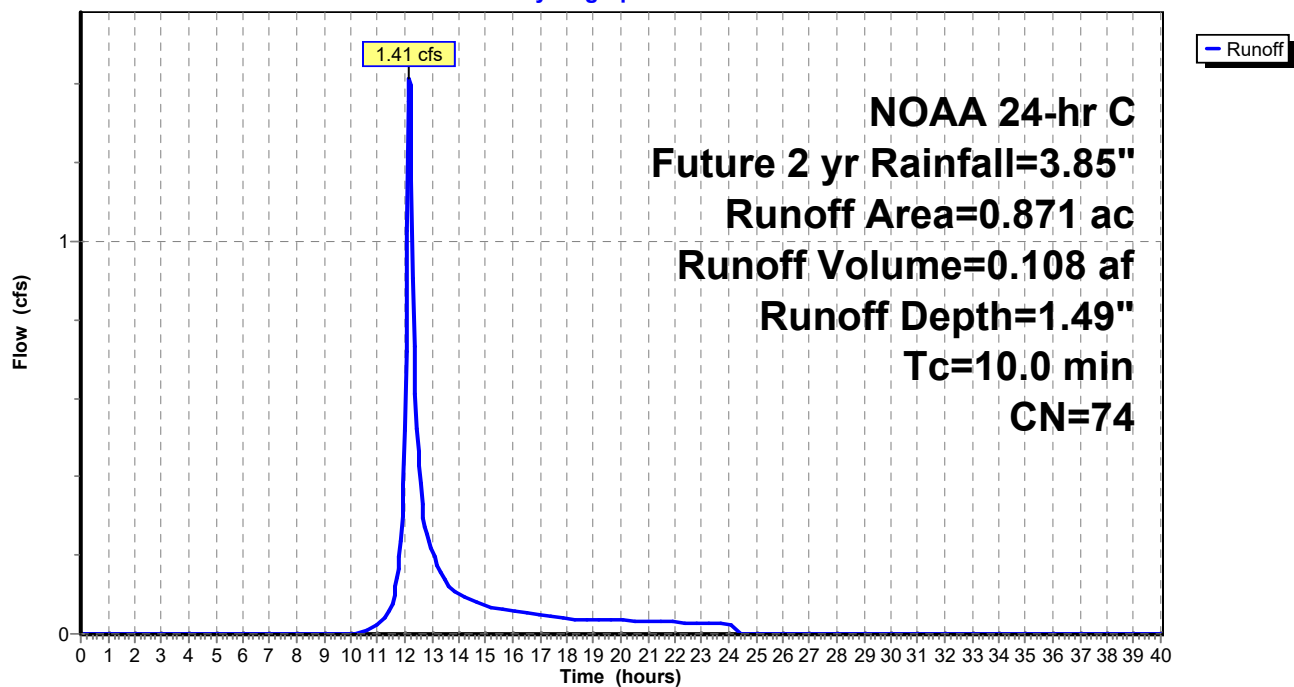
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 NOAA 24-hr C Future 2 yr Rainfall=3.85"

Area (ac)	CN	Description
0.871	74	>75% Grass cover, Good, HSG C
0.871		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.0					Direct Entry,

Subcatchment 17BP: PDA-17B (pervious)

Hydrograph



Summary for Subcatchment UPDA-1: PDA-1 (undetained)

Runoff = 88.73 cfs @ 12.18 hrs, Volume= 6.775 af, Depth= 1.49"

Routed to Link PDA-1 : Proposed Drainage Area #1

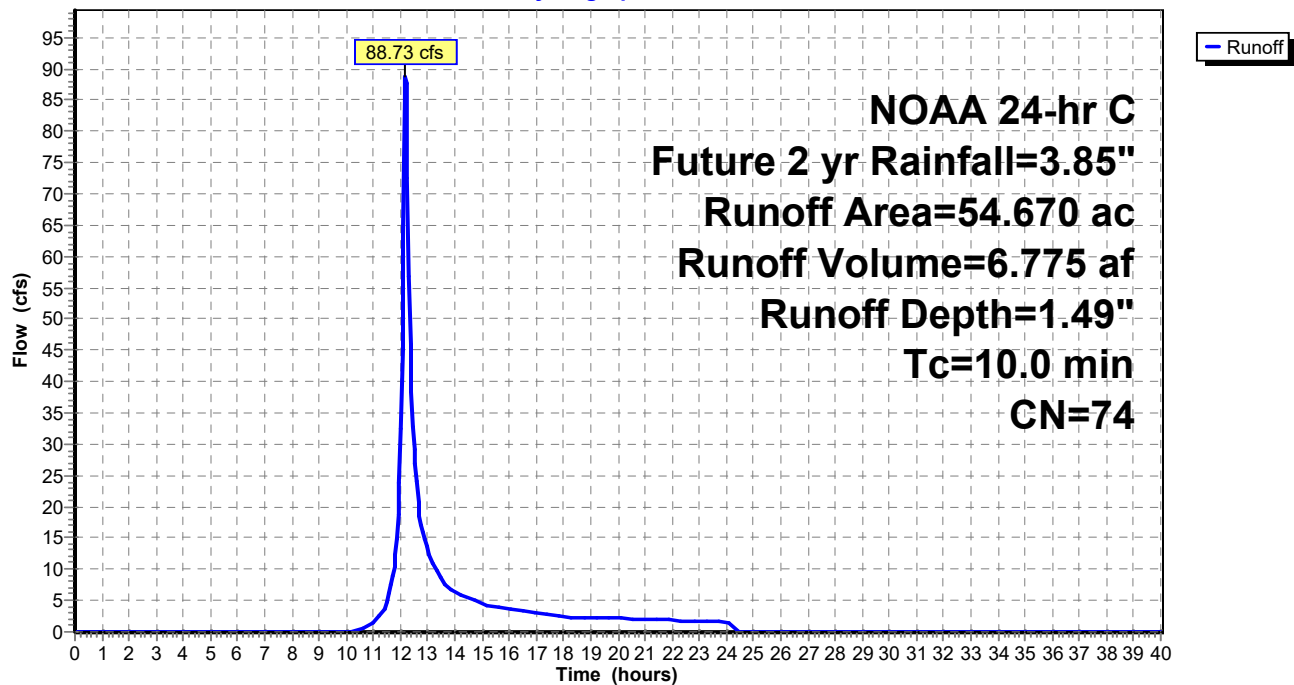
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 NOAA 24-hr C Future 2 yr Rainfall=3.85"

Area (ac)	CN	Description
54.670	74	>75% Grass cover, Good, HSG C
54.670		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.0					Direct Entry,

Subcatchment UPDA-1: PDA-1 (undetained)

Hydrograph



Summary for Pond B-1: Basin #1

Inflow Area = 2.782 ac, 26.02% Impervious, Inflow Depth = 0.47" for Future 2 yr event
 Inflow = 1.44 cfs @ 12.18 hrs, Volume= 0.110 af
 Outflow = 0.04 cfs @ 18.07 hrs, Volume= 0.055 af, Atten= 97%, Lag= 353.2 min
 Primary = 0.04 cfs @ 18.07 hrs, Volume= 0.055 af
 Routed to Link PDA-1 : Proposed Drainage Area #1

Routing by Stor-Ind method, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 Peak Elev= 209.33' @ 18.07 hrs Surf.Area= 10,504 sf Storage= 3,461 cf

Plug-Flow detention time= 661.7 min calculated for 0.055 af (50% of inflow)
 Center-of-Mass det. time= 534.5 min (1,392.8 - 858.3)

Volume	Invert	Avail.Storage	Storage Description
#1	209.00'	34,903 cf	Custom Stage Data (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
209.00	10,187	0	0
210.00	11,133	10,660	10,660
211.00	12,113	11,623	22,283
212.00	13,126	12,620	34,903

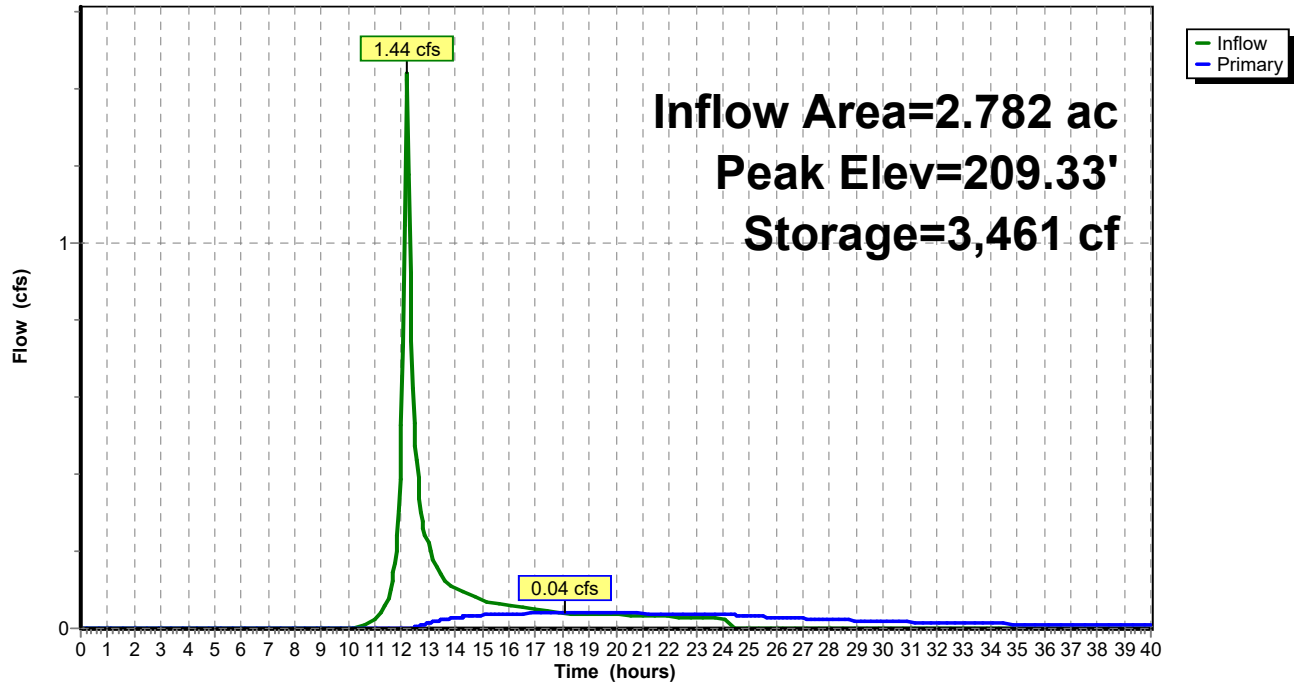
Device	Routing	Invert	Outlet Devices
#1	Primary	207.65'	18.0" Round Culvert L= 276.0' Ke= 0.500 Inlet / Outlet Invert= 207.65' / 204.00' S= 0.0132 '/' Cc= 0.900 n= 0.013, Flow Area= 1.77 sf
#2	Device 1	209.17'	2.5" Vert. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#3	Device 1	209.67'	4.0' long Sharp-Crested Rectangular Weir 2 End Contraction(s)
#4	Primary	210.80'	50.0' long + 3.0 ' SideZ x 5.0' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 Coef. (English) 2.34 2.50 2.70 2.68 2.68 2.66 2.65 2.65 2.65 2.65 2.67 2.66 2.68 2.70 2.74 2.79 2.88

Primary OutFlow Max=0.04 cfs @ 18.07 hrs HW=209.33' (Free Discharge)

1=Culvert (Passes 0.04 cfs of 8.23 cfs potential flow)
 2=Orifice/Grate (Orifice Controls 0.04 cfs @ 1.38 fps)
 3=Sharp-Crested Rectangular Weir(Controls 0.00 cfs)
 4=Broad-Crested Rectangular Weir(Controls 0.00 cfs)

Pond B-1: Basin #1

Hydrograph



Stage-Discharge for Pond B-1: Basin #1

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
209.00	0.00	209.52	0.08	210.04	3.03	210.56	10.68
209.01	0.00	209.53	0.08	210.05	3.15	210.57	10.85
209.02	0.00	209.54	0.08	210.06	3.27	210.58	11.03
209.03	0.00	209.55	0.09	210.07	3.39	210.59	11.20
209.04	0.00	209.56	0.09	210.08	3.51	210.60	11.37
209.05	0.00	209.57	0.09	210.09	3.63	210.61	11.55
209.06	0.00	209.58	0.09	210.10	3.76	210.62	11.73
209.07	0.00	209.59	0.09	210.11	3.88	210.63	11.90
209.08	0.00	209.60	0.09	210.12	4.01	210.64	12.08
209.09	0.00	209.61	0.10	210.13	4.14	210.65	12.26
209.10	0.00	209.62	0.10	210.14	4.27	210.66	12.44
209.11	0.00	209.63	0.10	210.15	4.40	210.67	12.60
209.12	0.00	209.64	0.10	210.16	4.53	210.68	12.61
209.13	0.00	209.65	0.10	210.17	4.66	210.69	12.63
209.14	0.00	209.66	0.10	210.18	4.80	210.70	12.64
209.15	0.00	209.67	0.10	210.19	4.93	210.71	12.65
209.16	0.00	209.68	0.12	210.20	5.07	210.72	12.66
209.17	0.00	209.69	0.14	210.21	5.21	210.73	12.67
209.18	0.00	209.70	0.17	210.22	5.35	210.74	12.69
209.19	0.00	209.71	0.21	210.23	5.49	210.75	12.70
209.20	0.00	209.72	0.26	210.24	5.63	210.76	12.71
209.21	0.00	209.73	0.30	210.25	5.77	210.77	12.72
209.22	0.00	209.74	0.35	210.26	5.92	210.78	12.73
209.23	0.01	209.75	0.41	210.27	6.06	210.79	12.75
209.24	0.01	209.76	0.47	210.28	6.21	210.80	12.76
209.25	0.01	209.77	0.53	210.29	6.35	210.81	12.89
209.26	0.01	209.78	0.59	210.30	6.50	210.82	13.11
209.27	0.02	209.79	0.66	210.31	6.65	210.83	13.40
209.28	0.02	209.80	0.73	210.32	6.80	210.84	13.74
209.29	0.02	209.81	0.80	210.33	6.95	210.85	14.13
209.30	0.03	209.82	0.88	210.34	7.10	210.86	14.56
209.31	0.03	209.83	0.95	210.35	7.26	210.87	15.02
209.32	0.03	209.84	1.03	210.36	7.41	210.88	15.51
209.33	0.04	209.85	1.11	210.37	7.56	210.89	16.04
209.34	0.04	209.86	1.20	210.38	7.72	210.90	16.60
209.35	0.05	209.87	1.28	210.39	7.88	210.91	17.18
209.36	0.05	209.88	1.37	210.40	8.03	210.92	17.79
209.37	0.05	209.89	1.46	210.41	8.19	210.93	18.43
209.38	0.05	209.90	1.56	210.42	8.35	210.94	19.10
209.39	0.06	209.91	1.65	210.43	8.51	210.95	19.78
209.40	0.06	209.92	1.75	210.44	8.67	210.96	20.50
209.41	0.06	209.93	1.84	210.45	8.84	210.97	21.23
209.42	0.06	209.94	1.94	210.46	9.00	210.98	21.99
209.43	0.06	209.95	2.05	210.47	9.16	210.99	22.76
209.44	0.07	209.96	2.15	210.48	9.33	211.00	23.56
209.45	0.07	209.97	2.25	210.49	9.50	211.01	24.42
209.46	0.07	209.98	2.36	210.50	9.66	211.02	25.31
209.47	0.07	209.99	2.47	210.51	9.83	211.03	26.21
209.48	0.07	210.00	2.58	210.52	10.00	211.04	27.15
209.49	0.08	210.01	2.69	210.53	10.17	211.05	28.11
209.50	0.08	210.02	2.80	210.54	10.34	211.06	29.10
209.51	0.08	210.03	2.92	210.55	10.51	211.07	30.11

Stage-Discharge for Pond B-1: Basin #1 (continued)

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
211.08	31.14	211.60	113.25
211.09	32.20	211.61	115.18
211.10	33.28	211.62	117.13
211.11	34.39	211.63	119.08
211.12	35.53	211.64	121.06
211.13	36.68	211.65	123.04
211.14	37.86	211.66	125.04
211.15	39.07	211.67	127.05
211.16	40.30	211.68	129.07
211.17	41.55	211.69	131.10
211.18	42.83	211.70	133.15
211.19	44.14	211.71	135.22
211.20	45.46	211.72	137.29
211.21	46.84	211.73	139.38
211.22	48.24	211.74	141.48
211.23	49.67	211.75	143.59
211.24	51.13	211.76	145.72
211.25	52.61	211.77	147.85
211.26	54.12	211.78	150.00
211.27	55.65	211.79	152.17
211.28	57.21	211.80	154.34
211.29	58.80	211.81	156.48
211.30	60.41	211.82	158.62
211.31	62.05	211.83	160.78
211.32	63.72	211.84	162.95
211.33	65.41	211.85	165.12
211.34	67.13	211.86	167.31
211.35	68.88	211.87	169.51
211.36	70.65	211.88	171.72
211.37	72.45	211.89	173.94
211.38	74.28	211.90	176.17
211.39	76.13	211.91	178.41
211.40	78.01	211.92	180.66
211.41	79.65	211.93	182.92
211.42	81.30	211.94	185.19
211.43	82.97	211.95	187.48
211.44	84.65	211.96	189.77
211.45	86.34	211.97	192.07
211.46	88.04	211.98	194.38
211.47	89.76	211.99	196.70
211.48	91.49	212.00	199.03
211.49	93.24		
211.50	94.99		
211.51	96.76		
211.52	98.55		
211.53	100.34		
211.54	102.15		
211.55	103.97		
211.56	105.80		
211.57	107.65		
211.58	109.50		
211.59	111.37		

Stage-Area-Storage for Pond B-1: Basin #1

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
209.00	10,187	0	209.52	10,679	5,425
209.01	10,196	102	209.53	10,688	5,532
209.02	10,206	204	209.54	10,698	5,639
209.03	10,215	306	209.55	10,707	5,746
209.04	10,225	408	209.56	10,717	5,853
209.05	10,234	511	209.57	10,726	5,960
209.06	10,244	613	209.58	10,736	6,068
209.07	10,253	715	209.59	10,745	6,175
209.08	10,263	818	209.60	10,755	6,282
209.09	10,272	921	209.61	10,764	6,390
209.10	10,282	1,023	209.62	10,774	6,498
209.11	10,291	1,126	209.63	10,783	6,606
209.12	10,301	1,229	209.64	10,792	6,713
209.13	10,310	1,332	209.65	10,802	6,821
209.14	10,319	1,435	209.66	10,811	6,929
209.15	10,329	1,539	209.67	10,821	7,038
209.16	10,338	1,642	209.68	10,830	7,146
209.17	10,348	1,745	209.69	10,840	7,254
209.18	10,357	1,849	209.70	10,849	7,363
209.19	10,367	1,953	209.71	10,859	7,471
209.20	10,376	2,056	209.72	10,868	7,580
209.21	10,386	2,160	209.73	10,878	7,689
209.22	10,395	2,264	209.74	10,887	7,797
209.23	10,405	2,368	209.75	10,897	7,906
209.24	10,414	2,472	209.76	10,906	8,015
209.25	10,424	2,576	209.77	10,915	8,124
209.26	10,433	2,681	209.78	10,925	8,234
209.27	10,442	2,785	209.79	10,934	8,343
209.28	10,452	2,889	209.80	10,944	8,452
209.29	10,461	2,994	209.81	10,953	8,562
209.30	10,471	3,099	209.82	10,963	8,671
209.31	10,480	3,203	209.83	10,972	8,781
209.32	10,490	3,308	209.84	10,982	8,891
209.33	10,499	3,413	209.85	10,991	9,001
209.34	10,509	3,518	209.86	11,001	9,111
209.35	10,518	3,623	209.87	11,010	9,221
209.36	10,528	3,729	209.88	11,019	9,331
209.37	10,537	3,834	209.89	11,029	9,441
209.38	10,546	3,939	209.90	11,038	9,551
209.39	10,556	4,045	209.91	11,048	9,662
209.40	10,565	4,150	209.92	11,057	9,772
209.41	10,575	4,256	209.93	11,067	9,883
209.42	10,584	4,362	209.94	11,076	9,994
209.43	10,594	4,468	209.95	11,086	10,105
209.44	10,603	4,574	209.96	11,095	10,215
209.45	10,613	4,680	209.97	11,105	10,326
209.46	10,622	4,786	209.98	11,114	10,438
209.47	10,632	4,892	209.99	11,124	10,549
209.48	10,641	4,999	210.00	11,133	10,660
209.49	10,651	5,105	210.01	11,143	10,771
209.50	10,660	5,212	210.02	11,153	10,883
209.51	10,669	5,318	210.03	11,162	10,994

Stage-Area-Storage for Pond B-1: Basin #1 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
210.04	11,172	11,106	210.56	11,682	17,048
210.05	11,182	11,218	210.57	11,692	17,165
210.06	11,192	11,330	210.58	11,701	17,282
210.07	11,202	11,442	210.59	11,711	17,399
210.08	11,211	11,554	210.60	11,721	17,516
210.09	11,221	11,666	210.61	11,731	17,633
210.10	11,231	11,778	210.62	11,741	17,751
210.11	11,241	11,891	210.63	11,750	17,868
210.12	11,251	12,003	210.64	11,760	17,986
210.13	11,260	12,116	210.65	11,770	18,103
210.14	11,270	12,228	210.66	11,780	18,221
210.15	11,280	12,341	210.67	11,790	18,339
210.16	11,290	12,454	210.68	11,799	18,457
210.17	11,300	12,567	210.69	11,809	18,575
210.18	11,309	12,680	210.70	11,819	18,693
210.19	11,319	12,793	210.71	11,829	18,811
210.20	11,329	12,906	210.72	11,839	18,930
210.21	11,339	13,020	210.73	11,848	19,048
210.22	11,349	13,133	210.74	11,858	19,167
210.23	11,358	13,247	210.75	11,868	19,285
210.24	11,368	13,360	210.76	11,878	19,404
210.25	11,378	13,474	210.77	11,888	19,523
210.26	11,388	13,588	210.78	11,897	19,642
210.27	11,398	13,702	210.79	11,907	19,761
210.28	11,407	13,816	210.80	11,917	19,880
210.29	11,417	13,930	210.81	11,927	19,999
210.30	11,427	14,044	210.82	11,937	20,119
210.31	11,437	14,158	210.83	11,946	20,238
210.32	11,447	14,273	210.84	11,956	20,357
210.33	11,456	14,387	210.85	11,966	20,477
210.34	11,466	14,502	210.86	11,976	20,597
210.35	11,476	14,617	210.87	11,986	20,717
210.36	11,486	14,731	210.88	11,995	20,836
210.37	11,496	14,846	210.89	12,005	20,956
210.38	11,505	14,961	210.90	12,015	21,077
210.39	11,515	15,076	210.91	12,025	21,197
210.40	11,525	15,192	210.92	12,035	21,317
210.41	11,535	15,307	210.93	12,044	21,437
210.42	11,545	15,422	210.94	12,054	21,558
210.43	11,554	15,538	210.95	12,064	21,679
210.44	11,564	15,653	210.96	12,074	21,799
210.45	11,574	15,769	210.97	12,084	21,920
210.46	11,584	15,885	210.98	12,093	22,041
210.47	11,594	16,001	210.99	12,103	22,162
210.48	11,603	16,117	211.00	12,113	22,283
210.49	11,613	16,233	211.01	12,123	22,404
210.50	11,623	16,349	211.02	12,133	22,525
210.51	11,633	16,465	211.03	12,143	22,647
210.52	11,643	16,582	211.04	12,154	22,768
210.53	11,652	16,698	211.05	12,164	22,890
210.54	11,662	16,815	211.06	12,174	23,012
210.55	11,672	16,931	211.07	12,184	23,133

Stage-Area-Storage for Pond B-1: Basin #1 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
211.08	12,194	23,255	211.60	12,721	29,733
211.09	12,204	23,377	211.61	12,731	29,860
211.10	12,214	23,499	211.62	12,741	29,988
211.11	12,224	23,622	211.63	12,751	30,115
211.12	12,235	23,744	211.64	12,761	30,243
211.13	12,245	23,866	211.65	12,771	30,370
211.14	12,255	23,989	211.66	12,782	30,498
211.15	12,265	24,111	211.67	12,792	30,626
211.16	12,275	24,234	211.68	12,802	30,754
211.17	12,285	24,357	211.69	12,812	30,882
211.18	12,295	24,480	211.70	12,822	31,010
211.19	12,305	24,603	211.71	12,832	31,139
211.20	12,316	24,726	211.72	12,842	31,267
211.21	12,326	24,849	211.73	12,852	31,395
211.22	12,336	24,972	211.74	12,863	31,524
211.23	12,346	25,096	211.75	12,873	31,653
211.24	12,356	25,219	211.76	12,883	31,781
211.25	12,366	25,343	211.77	12,893	31,910
211.26	12,376	25,467	211.78	12,903	32,039
211.27	12,387	25,590	211.79	12,913	32,168
211.28	12,397	25,714	211.80	12,923	32,298
211.29	12,407	25,838	211.81	12,934	32,427
211.30	12,417	25,962	211.82	12,944	32,556
211.31	12,427	26,087	211.83	12,954	32,686
211.32	12,437	26,211	211.84	12,964	32,815
211.33	12,447	26,335	211.85	12,974	32,945
211.34	12,457	26,460	211.86	12,984	33,075
211.35	12,468	26,585	211.87	12,994	33,205
211.36	12,478	26,709	211.88	13,004	33,335
211.37	12,488	26,834	211.89	13,015	33,465
211.38	12,498	26,959	211.90	13,025	33,595
211.39	12,508	27,084	211.91	13,035	33,725
211.40	12,518	27,209	211.92	13,045	33,856
211.41	12,528	27,334	211.93	13,055	33,986
211.42	12,538	27,460	211.94	13,065	34,117
211.43	12,549	27,585	211.95	13,075	34,247
211.44	12,559	27,711	211.96	13,085	34,378
211.45	12,569	27,836	211.97	13,096	34,509
211.46	12,579	27,962	211.98	13,106	34,640
211.47	12,589	28,088	211.99	13,116	34,771
211.48	12,599	28,214	212.00	13,126	34,903
211.49	12,609	28,340			
211.50	12,620	28,466			
211.51	12,630	28,592			
211.52	12,640	28,719			
211.53	12,650	28,845			
211.54	12,660	28,972			
211.55	12,670	29,098			
211.56	12,680	29,225			
211.57	12,690	29,352			
211.58	12,701	29,479			
211.59	12,711	29,606			

Summary for Pond B-10: Basin #10

Inflow Area = 1.674 ac, 56.63% Impervious, Inflow Depth = 2.69" for Future 2 yr event
 Inflow = 4.48 cfs @ 12.17 hrs, Volume= 0.376 af
 Outflow = 1.30 cfs @ 12.49 hrs, Volume= 0.283 af, Atten= 71%, Lag= 19.3 min
 Primary = 1.30 cfs @ 12.49 hrs, Volume= 0.283 af
 Routed to Link PDA-1 : Proposed Drainage Area #1

Routing by Stor-Ind method, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 Peak Elev= 180.62' @ 12.49 hrs Surf.Area= 5,520 sf Storage= 7,892 cf

Plug-Flow detention time= 203.9 min calculated for 0.283 af (75% of inflow)
 Center-of-Mass det. time= 111.7 min (893.3 - 781.6)

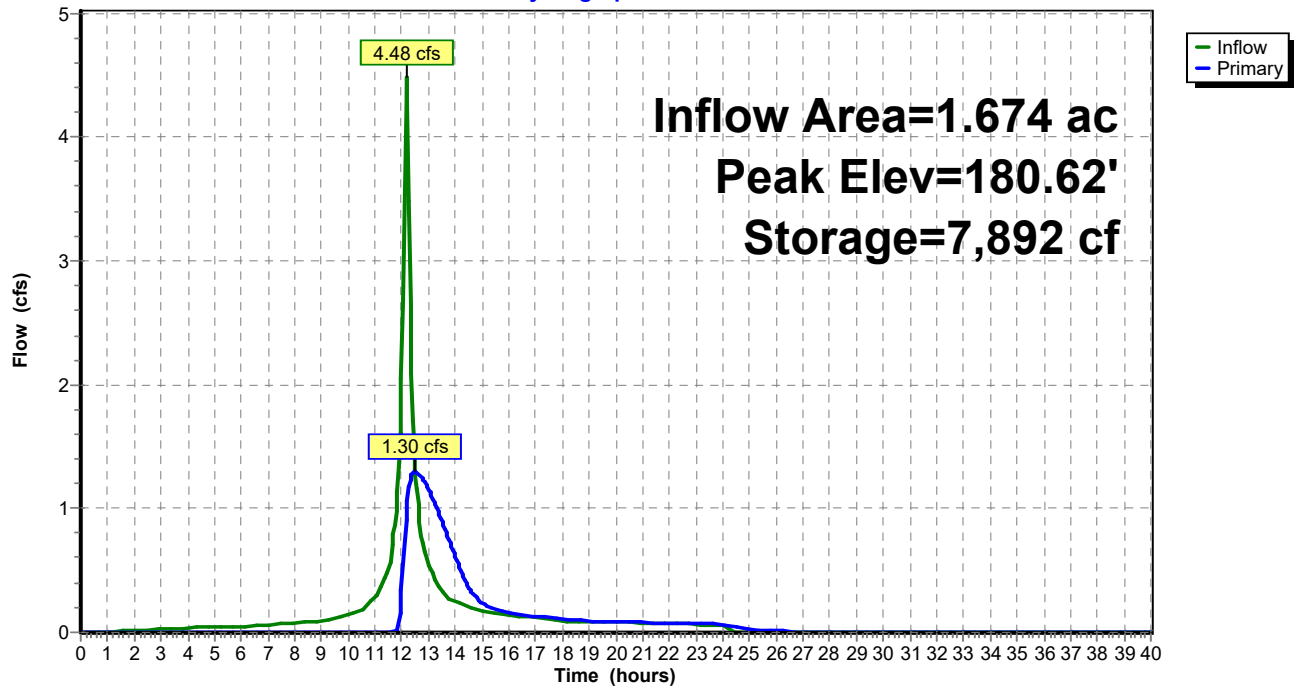
Volume	Invert	Avail.Storage	Storage Description
#1	179.00'	23,473 cf	Custom Stage Data (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
179.00	4,220	0	0
180.00	5,003	4,612	4,612
181.00	5,833	5,418	10,030
182.00	6,710	6,272	16,301
183.00	7,633	7,172	23,473

Device	Routing	Invert	Outlet Devices
#1	Primary	177.65'	18.0" Round Culvert L= 52.0' Ke= 0.500 Inlet / Outlet Invert= 177.65' / 176.00' S= 0.0317 ' Cc= 0.900 n= 0.013, Flow Area= 1.77 sf
#2	Device 1	179.88'	24.0" W x 2.0" H Vert. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#3	Device 1	182.00'	4.0' long Sharp-Crested Rectangular Weir 2 End Contraction(s)
#4	Primary	182.95'	50.0' long + 3.0 ' SideZ x 5.0' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 Coef. (English) 2.34 2.50 2.70 2.68 2.68 2.66 2.65 2.65 2.65 2.65 2.67 2.66 2.68 2.70 2.74 2.79 2.88

Primary OutFlow Max=1.30 cfs @ 12.49 hrs HW=180.62' (Free Discharge)

1=Culvert (Passes 1.30 cfs of 12.69 cfs potential flow)
 2=Orifice/Grate (Orifice Controls 1.30 cfs @ 3.91 fps)
 3=Sharp-Crested Rectangular Weir(Controls 0.00 cfs)
 4=Broad-Crested Rectangular Weir(Controls 0.00 cfs)

Pond B-10: Basin #10**Hydrograph**

Stage-Discharge for Pond B-10: Basin #10

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
179.00	0.00	179.52	0.00	180.04	0.41	180.56	1.24
179.01	0.00	179.53	0.00	180.05	0.45	180.57	1.25
179.02	0.00	179.54	0.00	180.06	0.48	180.58	1.26
179.03	0.00	179.55	0.00	180.07	0.51	180.59	1.27
179.04	0.00	179.56	0.00	180.08	0.54	180.60	1.28
179.05	0.00	179.57	0.00	180.09	0.56	180.61	1.29
179.06	0.00	179.58	0.00	180.10	0.58	180.62	1.30
179.07	0.00	179.59	0.00	180.11	0.61	180.63	1.31
179.08	0.00	179.60	0.00	180.12	0.63	180.64	1.32
179.09	0.00	179.61	0.00	180.13	0.65	180.65	1.33
179.10	0.00	179.62	0.00	180.14	0.67	180.66	1.34
179.11	0.00	179.63	0.00	180.15	0.69	180.67	1.35
179.12	0.00	179.64	0.00	180.16	0.71	180.68	1.36
179.13	0.00	179.65	0.00	180.17	0.72	180.69	1.37
179.14	0.00	179.66	0.00	180.18	0.74	180.70	1.38
179.15	0.00	179.67	0.00	180.19	0.76	180.71	1.39
179.16	0.00	179.68	0.00	180.20	0.78	180.72	1.40
179.17	0.00	179.69	0.00	180.21	0.79	180.73	1.40
179.18	0.00	179.70	0.00	180.22	0.81	180.74	1.41
179.19	0.00	179.71	0.00	180.23	0.83	180.75	1.42
179.20	0.00	179.72	0.00	180.24	0.84	180.76	1.43
179.21	0.00	179.73	0.00	180.25	0.86	180.77	1.44
179.22	0.00	179.74	0.00	180.26	0.87	180.78	1.45
179.23	0.00	179.75	0.00	180.27	0.89	180.79	1.46
179.24	0.00	179.76	0.00	180.28	0.90	180.80	1.47
179.25	0.00	179.77	0.00	180.29	0.91	180.81	1.48
179.26	0.00	179.78	0.00	180.30	0.93	180.82	1.48
179.27	0.00	179.79	0.00	180.31	0.94	180.83	1.49
179.28	0.00	179.80	0.00	180.32	0.96	180.84	1.50
179.29	0.00	179.81	0.00	180.33	0.97	180.85	1.51
179.30	0.00	179.82	0.00	180.34	0.98	180.86	1.52
179.31	0.00	179.83	0.00	180.35	1.00	180.87	1.53
179.32	0.00	179.84	0.00	180.36	1.01	180.88	1.54
179.33	0.00	179.85	0.00	180.37	1.02	180.89	1.54
179.34	0.00	179.86	0.00	180.38	1.03	180.90	1.55
179.35	0.00	179.87	0.00	180.39	1.05	180.91	1.56
179.36	0.00	179.88	0.00	180.40	1.06	180.92	1.57
179.37	0.00	179.89	0.01	180.41	1.07	180.93	1.58
179.38	0.00	179.90	0.02	180.42	1.08	180.94	1.59
179.39	0.00	179.91	0.03	180.43	1.09	180.95	1.59
179.40	0.00	179.92	0.05	180.44	1.11	180.96	1.60
179.41	0.00	179.93	0.07	180.45	1.12	180.97	1.61
179.42	0.00	179.94	0.09	180.46	1.13	180.98	1.62
179.43	0.00	179.95	0.12	180.47	1.14	180.99	1.63
179.44	0.00	179.96	0.15	180.48	1.15	181.00	1.63
179.45	0.00	179.97	0.17	180.49	1.16	181.01	1.64
179.46	0.00	179.98	0.20	180.50	1.17	181.02	1.65
179.47	0.00	179.99	0.23	180.51	1.19	181.03	1.66
179.48	0.00	180.00	0.27	180.52	1.20	181.04	1.66
179.49	0.00	180.01	0.30	180.53	1.21	181.05	1.67
179.50	0.00	180.02	0.34	180.54	1.22	181.06	1.68
179.51	0.00	180.03	0.37	180.55	1.23	181.07	1.69

Stage-Discharge for Pond B-10: Basin #10 (continued)

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
181.08	1.70	181.60	2.05	182.12	2.90	182.64	9.11
181.09	1.70	181.61	2.06	182.13	2.97	182.65	9.26
181.10	1.71	181.62	2.07	182.14	3.05	182.66	9.42
181.11	1.72	181.63	2.07	182.15	3.13	182.67	9.57
181.12	1.73	181.64	2.08	182.16	3.21	182.68	9.73
181.13	1.73	181.65	2.08	182.17	3.29	182.69	9.89
181.14	1.74	181.66	2.09	182.18	3.38	182.70	10.05
181.15	1.75	181.67	2.10	182.19	3.47	182.71	10.21
181.16	1.76	181.68	2.10	182.20	3.56	182.72	10.37
181.17	1.76	181.69	2.11	182.21	3.65	182.73	10.53
181.18	1.77	181.70	2.11	182.22	3.75	182.74	10.69
181.19	1.78	181.71	2.12	182.23	3.84	182.75	10.86
181.20	1.78	181.72	2.13	182.24	3.94	182.76	11.02
181.21	1.79	181.73	2.13	182.25	4.04	182.77	11.19
181.22	1.80	181.74	2.14	182.26	4.14	182.78	11.35
181.23	1.81	181.75	2.15	182.27	4.25	182.79	11.52
181.24	1.81	181.76	2.15	182.28	4.35	182.80	11.69
181.25	1.82	181.77	2.16	182.29	4.46	182.81	11.86
181.26	1.83	181.78	2.16	182.30	4.57	182.82	12.03
181.27	1.83	181.79	2.17	182.31	4.68	182.83	12.20
181.28	1.84	181.80	2.17	182.32	4.79	182.84	12.37
181.29	1.85	181.81	2.18	182.33	4.91	182.85	12.54
181.30	1.86	181.82	2.19	182.34	5.02	182.86	12.71
181.31	1.86	181.83	2.19	182.35	5.14	182.87	12.89
181.32	1.87	181.84	2.20	182.36	5.26	182.88	13.06
181.33	1.88	181.85	2.20	182.37	5.38	182.89	13.24
181.34	1.88	181.86	2.21	182.38	5.50	182.90	13.42
181.35	1.89	181.87	2.22	182.39	5.62	182.91	13.59
181.36	1.90	181.88	2.22	182.40	5.75	182.92	13.77
181.37	1.90	181.89	2.23	182.41	5.87	182.93	13.95
181.38	1.91	181.90	2.23	182.42	6.00	182.94	14.13
181.39	1.92	181.91	2.24	182.43	6.13	182.95	14.31
181.40	1.92	181.92	2.24	182.44	6.26	182.96	14.61
181.41	1.93	181.93	2.25	182.45	6.39	182.97	15.00
181.42	1.94	181.94	2.26	182.46	6.52	182.98	15.46
181.43	1.94	181.95	2.26	182.47	6.66	182.99	15.98
181.44	1.95	181.96	2.27	182.48	6.79	183.00	16.53
181.45	1.96	181.97	2.27	182.49	6.93		
181.46	1.96	181.98	2.28	182.50	7.07		
181.47	1.97	181.99	2.28	182.51	7.20		
181.48	1.98	182.00	2.29	182.52	7.34		
181.49	1.98	182.01	2.31	182.53	7.48		
181.50	1.99	182.02	2.34	182.54	7.63		
181.51	2.00	182.03	2.38	182.55	7.77		
181.52	2.00	182.04	2.42	182.56	7.91		
181.53	2.01	182.05	2.46	182.57	8.06		
181.54	2.02	182.06	2.52	182.58	8.21		
181.55	2.02	182.07	2.57	182.59	8.35		
181.56	2.03	182.08	2.63	182.60	8.50		
181.57	2.03	182.09	2.69	182.61	8.65		
181.58	2.04	182.10	2.76	182.62	8.80		
181.59	2.05	182.11	2.83	182.63	8.96		

Stage-Area-Storage for Pond B-10: Basin #10

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
179.00	4,220	0	179.52	4,627	2,300
179.01	4,228	42	179.53	4,635	2,347
179.02	4,236	85	179.54	4,643	2,393
179.03	4,243	127	179.55	4,651	2,439
179.04	4,251	169	179.56	4,658	2,486
179.05	4,259	212	179.57	4,666	2,533
179.06	4,267	255	179.58	4,674	2,579
179.07	4,275	297	179.59	4,682	2,626
179.08	4,283	340	179.60	4,690	2,673
179.09	4,290	383	179.61	4,698	2,720
179.10	4,298	426	179.62	4,705	2,767
179.11	4,306	469	179.63	4,713	2,814
179.12	4,314	512	179.64	4,721	2,861
179.13	4,322	555	179.65	4,729	2,908
179.14	4,330	598	179.66	4,737	2,956
179.15	4,337	642	179.67	4,745	3,003
179.16	4,345	685	179.68	4,752	3,051
179.17	4,353	729	179.69	4,760	3,098
179.18	4,361	772	179.70	4,768	3,146
179.19	4,369	816	179.71	4,776	3,194
179.20	4,377	860	179.72	4,784	3,241
179.21	4,384	903	179.73	4,792	3,289
179.22	4,392	947	179.74	4,799	3,337
179.23	4,400	991	179.75	4,807	3,385
179.24	4,408	1,035	179.76	4,815	3,433
179.25	4,416	1,079	179.77	4,823	3,482
179.26	4,424	1,124	179.78	4,831	3,530
179.27	4,431	1,168	179.79	4,839	3,578
179.28	4,439	1,212	179.80	4,846	3,627
179.29	4,447	1,257	179.81	4,854	3,675
179.30	4,455	1,301	179.82	4,862	3,724
179.31	4,463	1,346	179.83	4,870	3,772
179.32	4,471	1,390	179.84	4,878	3,821
179.33	4,478	1,435	179.85	4,886	3,870
179.34	4,486	1,480	179.86	4,893	3,919
179.35	4,494	1,525	179.87	4,901	3,968
179.36	4,502	1,570	179.88	4,909	4,017
179.37	4,510	1,615	179.89	4,917	4,066
179.38	4,518	1,660	179.90	4,925	4,115
179.39	4,525	1,705	179.91	4,933	4,164
179.40	4,533	1,751	179.92	4,940	4,214
179.41	4,541	1,796	179.93	4,948	4,263
179.42	4,549	1,841	179.94	4,956	4,313
179.43	4,557	1,887	179.95	4,964	4,362
179.44	4,565	1,933	179.96	4,972	4,412
179.45	4,572	1,978	179.97	4,980	4,462
179.46	4,580	2,024	179.98	4,987	4,512
179.47	4,588	2,070	179.99	4,995	4,562
179.48	4,596	2,116	180.00	5,003	4,612
179.49	4,604	2,162	180.01	5,011	4,662
179.50	4,612	2,208	180.02	5,020	4,712
179.51	4,619	2,254	180.03	5,028	4,762

Stage-Area-Storage for Pond B-10: Basin #10 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
180.04	5,036	4,812	180.56	5,468	7,543
180.05	5,045	4,863	180.57	5,476	7,598
180.06	5,053	4,913	180.58	5,484	7,653
180.07	5,061	4,964	180.59	5,493	7,708
180.08	5,069	5,014	180.60	5,501	7,763
180.09	5,078	5,065	180.61	5,509	7,818
180.10	5,086	5,116	180.62	5,518	7,873
180.11	5,094	5,167	180.63	5,526	7,928
180.12	5,103	5,218	180.64	5,534	7,983
180.13	5,111	5,269	180.65	5,543	8,039
180.14	5,119	5,320	180.66	5,551	8,094
180.15	5,128	5,371	180.67	5,559	8,150
180.16	5,136	5,423	180.68	5,567	8,205
180.17	5,144	5,474	180.69	5,576	8,261
180.18	5,152	5,525	180.70	5,584	8,317
180.19	5,161	5,577	180.71	5,592	8,373
180.20	5,169	5,629	180.72	5,601	8,429
180.21	5,177	5,680	180.73	5,609	8,485
180.22	5,186	5,732	180.74	5,617	8,541
180.23	5,194	5,784	180.75	5,626	8,597
180.24	5,202	5,836	180.76	5,634	8,653
180.25	5,211	5,888	180.77	5,642	8,710
180.26	5,219	5,940	180.78	5,650	8,766
180.27	5,227	5,993	180.79	5,659	8,823
180.28	5,235	6,045	180.80	5,667	8,880
180.29	5,244	6,097	180.81	5,675	8,936
180.30	5,252	6,150	180.82	5,684	8,993
180.31	5,260	6,202	180.83	5,692	9,050
180.32	5,269	6,255	180.84	5,700	9,107
180.33	5,277	6,308	180.85	5,708	9,164
180.34	5,285	6,360	180.86	5,717	9,221
180.35	5,293	6,413	180.87	5,725	9,278
180.36	5,302	6,466	180.88	5,733	9,336
180.37	5,310	6,519	180.89	5,742	9,393
180.38	5,318	6,573	180.90	5,750	9,450
180.39	5,327	6,626	180.91	5,758	9,508
180.40	5,335	6,679	180.92	5,767	9,566
180.41	5,343	6,732	180.93	5,775	9,623
180.42	5,352	6,786	180.94	5,783	9,681
180.43	5,360	6,840	180.95	5,791	9,739
180.44	5,368	6,893	180.96	5,800	9,797
180.45	5,376	6,947	180.97	5,808	9,855
180.46	5,385	7,001	180.98	5,816	9,913
180.47	5,393	7,055	180.99	5,825	9,971
180.48	5,401	7,109	181.00	5,833	10,030
180.49	5,410	7,163	181.01	5,842	10,088
180.50	5,418	7,217	181.02	5,851	10,146
180.51	5,426	7,271	181.03	5,859	10,205
180.52	5,435	7,325	181.04	5,868	10,264
180.53	5,443	7,380	181.05	5,877	10,322
180.54	5,451	7,434	181.06	5,886	10,381
180.55	5,460	7,489	181.07	5,894	10,440

Stage-Area-Storage for Pond B-10: Basin #10 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
181.08	5,903	10,499	181.60	6,359	13,687
181.09	5,912	10,558	181.61	6,368	13,751
181.10	5,921	10,617	181.62	6,377	13,815
181.11	5,929	10,676	181.63	6,386	13,878
181.12	5,938	10,736	181.64	6,394	13,942
181.13	5,947	10,795	181.65	6,403	14,006
181.14	5,956	10,855	181.66	6,412	14,070
181.15	5,965	10,914	181.67	6,421	14,134
181.16	5,973	10,974	181.68	6,429	14,199
181.17	5,982	11,034	181.69	6,438	14,263
181.18	5,991	11,094	181.70	6,447	14,327
181.19	6,000	11,154	181.71	6,456	14,392
181.20	6,008	11,214	181.72	6,464	14,457
181.21	6,017	11,274	181.73	6,473	14,521
181.22	6,026	11,334	181.74	6,482	14,586
181.23	6,035	11,394	181.75	6,491	14,651
181.24	6,043	11,455	181.76	6,500	14,716
181.25	6,052	11,515	181.77	6,508	14,781
181.26	6,061	11,576	181.78	6,517	14,846
181.27	6,070	11,636	181.79	6,526	14,911
181.28	6,079	11,697	181.80	6,535	14,977
181.29	6,087	11,758	181.81	6,543	15,042
181.30	6,096	11,819	181.82	6,552	15,107
181.31	6,105	11,880	181.83	6,561	15,173
181.32	6,114	11,941	181.84	6,570	15,239
181.33	6,122	12,002	181.85	6,578	15,304
181.34	6,131	12,063	181.86	6,587	15,370
181.35	6,140	12,125	181.87	6,596	15,436
181.36	6,149	12,186	181.88	6,605	15,502
181.37	6,157	12,248	181.89	6,614	15,568
181.38	6,166	12,309	181.90	6,622	15,634
181.39	6,175	12,371	181.91	6,631	15,701
181.40	6,184	12,433	181.92	6,640	15,767
181.41	6,193	12,495	181.93	6,649	15,833
181.42	6,201	12,557	181.94	6,657	15,900
181.43	6,210	12,619	181.95	6,666	15,967
181.44	6,219	12,681	181.96	6,675	16,033
181.45	6,228	12,743	181.97	6,684	16,100
181.46	6,236	12,805	181.98	6,692	16,167
181.47	6,245	12,868	181.99	6,701	16,234
181.48	6,254	12,930	182.00	6,710	16,301
181.49	6,263	12,993	182.01	6,719	16,368
181.50	6,272	13,056	182.02	6,728	16,435
181.51	6,280	13,118	182.03	6,738	16,503
181.52	6,289	13,181	182.04	6,747	16,570
181.53	6,298	13,244	182.05	6,756	16,638
181.54	6,307	13,307	182.06	6,765	16,705
181.55	6,315	13,370	182.07	6,775	16,773
181.56	6,324	13,433	182.08	6,784	16,841
181.57	6,333	13,497	182.09	6,793	16,909
181.58	6,342	13,560	182.10	6,802	16,977
181.59	6,350	13,624	182.11	6,812	17,045

Stage-Area-Storage for Pond B-10: Basin #10 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
182.12	6,821	17,113	182.64	7,301	20,784
182.13	6,830	17,181	182.65	7,310	20,857
182.14	6,839	17,249	182.66	7,319	20,931
182.15	6,848	17,318	182.67	7,328	21,004
182.16	6,858	17,386	182.68	7,338	21,077
182.17	6,867	17,455	182.69	7,347	21,151
182.18	6,876	17,524	182.70	7,356	21,224
182.19	6,885	17,593	182.71	7,365	21,298
182.20	6,895	17,661	182.72	7,375	21,371
182.21	6,904	17,730	182.73	7,384	21,445
182.22	6,913	17,800	182.74	7,393	21,519
182.23	6,922	17,869	182.75	7,402	21,593
182.24	6,932	17,938	182.76	7,411	21,667
182.25	6,941	18,007	182.77	7,421	21,741
182.26	6,950	18,077	182.78	7,430	21,816
182.27	6,959	18,146	182.79	7,439	21,890
182.28	6,968	18,216	182.80	7,448	21,964
182.29	6,978	18,286	182.81	7,458	22,039
182.30	6,987	18,356	182.82	7,467	22,114
182.31	6,996	18,425	182.83	7,476	22,188
182.32	7,005	18,495	182.84	7,485	22,263
182.33	7,015	18,566	182.85	7,495	22,338
182.34	7,024	18,636	182.86	7,504	22,413
182.35	7,033	18,706	182.87	7,513	22,488
182.36	7,042	18,776	182.88	7,522	22,563
182.37	7,052	18,847	182.89	7,531	22,638
182.38	7,061	18,917	182.90	7,541	22,714
182.39	7,070	18,988	182.91	7,550	22,789
182.40	7,079	19,059	182.92	7,559	22,865
182.41	7,088	19,130	182.93	7,568	22,940
182.42	7,098	19,201	182.94	7,578	23,016
182.43	7,107	19,272	182.95	7,587	23,092
182.44	7,116	19,343	182.96	7,596	23,168
182.45	7,125	19,414	182.97	7,605	23,244
182.46	7,135	19,485	182.98	7,615	23,320
182.47	7,144	19,557	182.99	7,624	23,396
182.48	7,153	19,628	183.00	7,633	23,473
182.49	7,162	19,700			
182.50	7,172	19,771			
182.51	7,181	19,843			
182.52	7,190	19,915			
182.53	7,199	19,987			
182.54	7,208	20,059			
182.55	7,218	20,131			
182.56	7,227	20,203			
182.57	7,236	20,276			
182.58	7,245	20,348			
182.59	7,255	20,421			
182.60	7,264	20,493			
182.61	7,273	20,566			
182.62	7,282	20,639			
182.63	7,291	20,711			

Summary for Pond B-11: Basin #11

Inflow Area = 2.228 ac, 58.53% Impervious, Inflow Depth = 2.73" for Future 2 yr event
 Inflow = 6.05 cfs @ 12.17 hrs, Volume= 0.507 af
 Outflow = 0.21 cfs @ 15.23 hrs, Volume= 0.360 af, Atten= 97%, Lag= 183.4 min
 Primary = 0.21 cfs @ 15.23 hrs, Volume= 0.360 af
 Routed to Link PDA-1 : Proposed Drainage Area #1

Routing by Stor-Ind method, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 Peak Elev= 182.74' @ 15.23 hrs Surf.Area= 6,916 sf Storage= 15,926 cf

Plug-Flow detention time= 740.2 min calculated for 0.359 af (71% of inflow)
 Center-of-Mass det. time= 642.1 min (1,422.3 - 780.2)

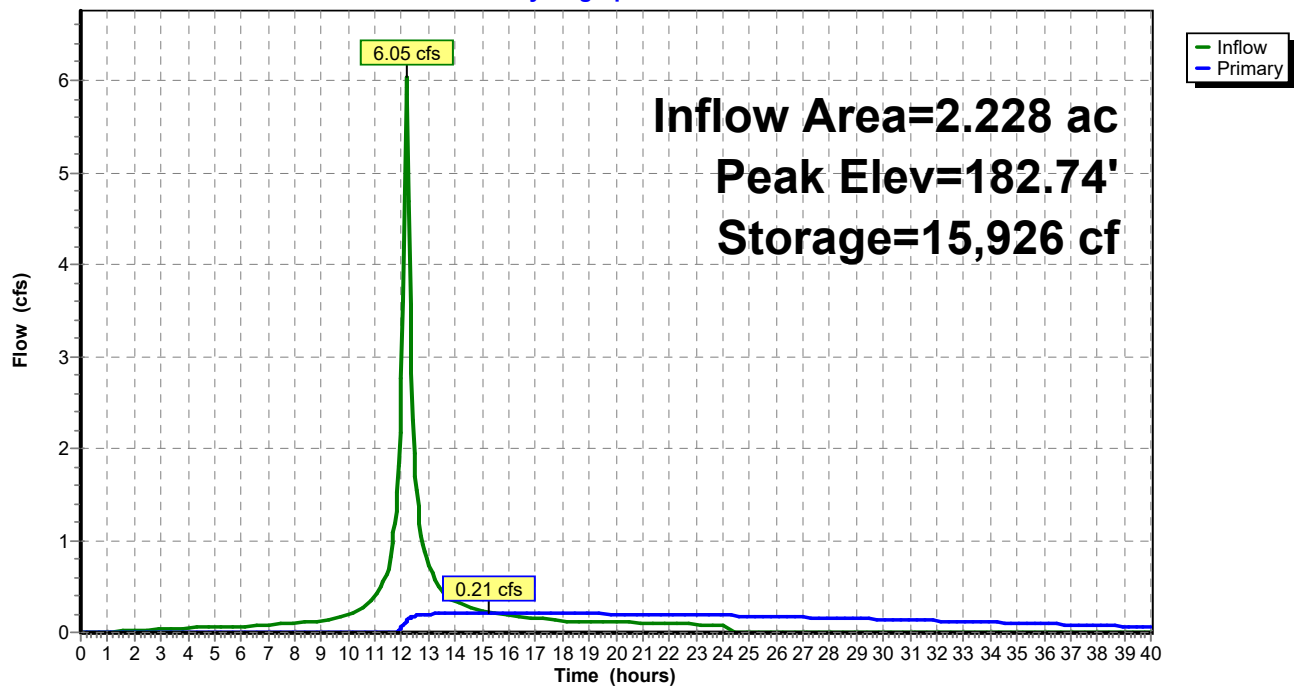
Volume	Invert	Avail.Storage	Storage Description
#1	180.00'	43,224 cf	Custom Stage Data (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
180.00	4,780	0	0
181.00	5,522	5,151	5,151
182.00	6,306	5,914	11,065
183.00	7,135	6,721	17,786
184.00	8,007	7,571	25,357
185.00	8,923	8,465	33,822
186.00	9,882	9,403	43,224

Device	Routing	Invert	Outlet Devices
#1	Primary	178.65'	18.0" Round Culvert L= 131.0' Ke= 0.500 Inlet / Outlet Invert= 178.65' / 178.00' S= 0.0050 '/' Cc= 0.900 n= 0.013, Flow Area= 1.77 sf
#2	Device 1	181.00'	2.5" Vert. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#3	Device 1	182.75'	4.0' long Sharp-Crested Rectangular Weir 2 End Contraction(s)
#4	Primary	183.91'	50.0' long + 3.0 '/' SideZ x 5.0' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 Coef. (English) 2.34 2.50 2.70 2.68 2.68 2.66 2.65 2.65 2.65 2.65 2.67 2.66 2.68 2.70 2.74 2.79 2.88

Primary OutFlow Max=0.21 cfs @ 15.23 hrs HW=182.74' (Free Discharge)

1=Culvert (Passes 0.21 cfs of 12.92 cfs potential flow)
 2=Orifice/Grate (Orifice Controls 0.21 cfs @ 6.15 fps)
 3=Sharp-Crested Rectangular Weir(Controls 0.00 cfs)
 4=Broad-Crested Rectangular Weir(Controls 0.00 cfs)

Pond B-11: Basin #11**Hydrograph**

Stage-Discharge for Pond B-11: Basin #11

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
180.00	0.00	180.52	0.00	181.04	0.00	181.56	0.11
180.01	0.00	180.53	0.00	181.05	0.00	181.57	0.11
180.02	0.00	180.54	0.00	181.06	0.01	181.58	0.11
180.03	0.00	180.55	0.00	181.07	0.01	181.59	0.11
180.04	0.00	180.56	0.00	181.08	0.01	181.60	0.12
180.05	0.00	180.57	0.00	181.09	0.01	181.61	0.12
180.06	0.00	180.58	0.00	181.10	0.02	181.62	0.12
180.07	0.00	180.59	0.00	181.11	0.02	181.63	0.12
180.08	0.00	180.60	0.00	181.12	0.02	181.64	0.12
180.09	0.00	180.61	0.00	181.13	0.03	181.65	0.12
180.10	0.00	180.62	0.00	181.14	0.03	181.66	0.12
180.11	0.00	180.63	0.00	181.15	0.03	181.67	0.12
180.12	0.00	180.64	0.00	181.16	0.04	181.68	0.12
180.13	0.00	180.65	0.00	181.17	0.04	181.69	0.13
180.14	0.00	180.66	0.00	181.18	0.05	181.70	0.13
180.15	0.00	180.67	0.00	181.19	0.05	181.71	0.13
180.16	0.00	180.68	0.00	181.20	0.05	181.72	0.13
180.17	0.00	180.69	0.00	181.21	0.05	181.73	0.13
180.18	0.00	180.70	0.00	181.22	0.06	181.74	0.13
180.19	0.00	180.71	0.00	181.23	0.06	181.75	0.13
180.20	0.00	180.72	0.00	181.24	0.06	181.76	0.13
180.21	0.00	180.73	0.00	181.25	0.06	181.77	0.13
180.22	0.00	180.74	0.00	181.26	0.06	181.78	0.13
180.23	0.00	180.75	0.00	181.27	0.07	181.79	0.14
180.24	0.00	180.76	0.00	181.28	0.07	181.80	0.14
180.25	0.00	180.77	0.00	181.29	0.07	181.81	0.14
180.26	0.00	180.78	0.00	181.30	0.07	181.82	0.14
180.27	0.00	180.79	0.00	181.31	0.07	181.83	0.14
180.28	0.00	180.80	0.00	181.32	0.08	181.84	0.14
180.29	0.00	180.81	0.00	181.33	0.08	181.85	0.14
180.30	0.00	180.82	0.00	181.34	0.08	181.86	0.14
180.31	0.00	180.83	0.00	181.35	0.08	181.87	0.14
180.32	0.00	180.84	0.00	181.36	0.08	181.88	0.14
180.33	0.00	180.85	0.00	181.37	0.08	181.89	0.15
180.34	0.00	180.86	0.00	181.38	0.09	181.90	0.15
180.35	0.00	180.87	0.00	181.39	0.09	181.91	0.15
180.36	0.00	180.88	0.00	181.40	0.09	181.92	0.15
180.37	0.00	180.89	0.00	181.41	0.09	181.93	0.15
180.38	0.00	180.90	0.00	181.42	0.09	181.94	0.15
180.39	0.00	180.91	0.00	181.43	0.09	181.95	0.15
180.40	0.00	180.92	0.00	181.44	0.10	181.96	0.15
180.41	0.00	180.93	0.00	181.45	0.10	181.97	0.15
180.42	0.00	180.94	0.00	181.46	0.10	181.98	0.15
180.43	0.00	180.95	0.00	181.47	0.10	181.99	0.15
180.44	0.00	180.96	0.00	181.48	0.10	182.00	0.16
180.45	0.00	180.97	0.00	181.49	0.10	182.01	0.16
180.46	0.00	180.98	0.00	181.50	0.10	182.02	0.16
180.47	0.00	180.99	0.00	181.51	0.10	182.03	0.16
180.48	0.00	181.00	0.00	181.52	0.11	182.04	0.16
180.49	0.00	181.01	0.00	181.53	0.11	182.05	0.16
180.50	0.00	181.02	0.00	181.54	0.11	182.06	0.16
180.51	0.00	181.03	0.00	181.55	0.11	182.07	0.16

Stage-Discharge for Pond B-11: Basin #11 (continued)

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
182.08	0.16	182.60	0.20	183.12	3.12	183.64	10.75
182.09	0.16	182.61	0.20	183.13	3.24	183.65	10.93
182.10	0.16	182.62	0.20	183.14	3.36	183.66	11.10
182.11	0.16	182.63	0.20	183.15	3.48	183.67	11.27
182.12	0.17	182.64	0.20	183.16	3.60	183.68	11.45
182.13	0.17	182.65	0.20	183.17	3.72	183.69	11.62
182.14	0.17	182.66	0.20	183.18	3.85	183.70	11.80
182.15	0.17	182.67	0.21	183.19	3.97	183.71	11.98
182.16	0.17	182.68	0.21	183.20	4.10	183.72	12.16
182.17	0.17	182.69	0.21	183.21	4.23	183.73	12.33
182.18	0.17	182.70	0.21	183.22	4.35	183.74	12.51
182.19	0.17	182.71	0.21	183.23	4.48	183.75	12.69
182.20	0.17	182.72	0.21	183.24	4.62	183.76	12.87
182.21	0.17	182.73	0.21	183.25	4.75	183.77	13.06
182.22	0.17	182.74	0.21	183.26	4.88	183.78	13.24
182.23	0.17	182.75	0.21	183.27	5.02	183.79	13.42
182.24	0.17	182.76	0.22	183.28	5.16	183.80	13.60
182.25	0.18	182.77	0.25	183.29	5.29	183.81	13.79
182.26	0.18	182.78	0.28	183.30	5.43	183.82	13.97
182.27	0.18	182.79	0.32	183.31	5.57	183.83	14.16
182.28	0.18	182.80	0.36	183.32	5.71	183.84	14.35
182.29	0.18	182.81	0.41	183.33	5.85	183.85	14.53
182.30	0.18	182.82	0.46	183.34	6.00	183.86	14.72
182.31	0.18	182.83	0.51	183.35	6.14	183.87	14.91
182.32	0.18	182.84	0.57	183.36	6.29	183.88	15.04
182.33	0.18	182.85	0.63	183.37	6.43	183.89	15.05
182.34	0.18	182.86	0.69	183.38	6.58	183.90	15.07
182.35	0.18	182.87	0.76	183.39	6.73	183.91	15.09
182.36	0.18	182.88	0.83	183.40	6.88	183.92	15.22
182.37	0.18	182.89	0.90	183.41	7.03	183.93	15.45
182.38	0.19	182.90	0.97	183.42	7.18	183.94	15.75
182.39	0.19	182.91	1.05	183.43	7.34	183.95	16.09
182.40	0.19	182.92	1.13	183.44	7.49	183.96	16.48
182.41	0.19	182.93	1.21	183.45	7.64	183.97	16.92
182.42	0.19	182.94	1.30	183.46	7.80	183.98	17.38
182.43	0.19	182.95	1.38	183.47	7.96	183.99	17.88
182.44	0.19	182.96	1.47	183.48	8.11	184.00	18.41
182.45	0.19	182.97	1.56	183.49	8.27	184.01	18.98
182.46	0.19	182.98	1.65	183.50	8.43	184.02	19.57
182.47	0.19	182.99	1.74	183.51	8.59	184.03	20.18
182.48	0.19	183.00	1.84	183.52	8.75	184.04	20.83
182.49	0.19	183.01	1.94	183.53	8.91	184.05	21.50
182.50	0.19	183.02	2.04	183.54	9.08	184.06	22.19
182.51	0.19	183.03	2.14	183.55	9.24	184.07	22.91
182.52	0.20	183.04	2.24	183.56	9.41	184.08	23.64
182.53	0.20	183.05	2.35	183.57	9.57	184.09	24.41
182.54	0.20	183.06	2.45	183.58	9.74	184.10	25.19
182.55	0.20	183.07	2.56	183.59	9.91	184.11	25.99
182.56	0.20	183.08	2.67	183.60	10.07	184.12	26.86
182.57	0.20	183.09	2.78	183.61	10.24	184.13	27.74
182.58	0.20	183.10	2.89	183.62	10.41	184.14	28.66
182.59	0.20	183.11	3.01	183.63	10.58	184.15	29.60

Stage-Discharge for Pond B-11: Basin #11 (continued)

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
184.16	30.56	184.68	110.34	185.20	223.74	185.72	368.60
184.17	31.55	184.69	112.21	185.21	226.21	185.73	371.68
184.18	32.57	184.70	114.08	185.22	228.70	185.74	374.77
184.19	33.61	184.71	115.96	185.23	231.20	185.75	377.88
184.20	34.67	184.72	117.90	185.24	233.71	185.76	380.99
184.21	35.76	184.73	119.85	185.25	236.23	185.77	384.11
184.22	36.88	184.74	121.81	185.26	238.75	185.78	387.25
184.23	38.01	184.75	123.79	185.27	241.29	185.79	390.39
184.24	39.18	184.76	125.77	185.28	243.84	185.80	393.54
184.25	40.36	184.77	127.77	185.29	246.40	185.81	396.71
184.26	41.57	184.78	129.79	185.30	248.97	185.82	399.88
184.27	42.81	184.79	131.82	185.31	251.55	185.83	403.07
184.28	44.07	184.80	133.86	185.32	254.19	185.84	406.27
184.29	45.35	184.81	135.91	185.33	256.84	185.85	409.47
184.30	46.66	184.82	137.98	185.34	259.49	185.86	412.69
184.31	47.99	184.83	140.06	185.35	262.16	185.87	415.92
184.32	49.37	184.84	142.15	185.36	264.84	185.88	419.16
184.33	50.78	184.85	144.25	185.37	267.54	185.89	422.41
184.34	52.21	184.86	146.37	185.38	270.24	185.90	425.67
184.35	53.67	184.87	148.50	185.39	272.95	185.91	428.93
184.36	55.16	184.88	150.64	185.40	275.68	185.92	432.28
184.37	56.67	184.89	152.80	185.41	278.41	185.93	435.63
184.38	58.21	184.90	154.96	185.42	281.16	185.94	439.00
184.39	59.78	184.91	157.14	185.43	283.92	185.95	442.37
184.40	61.37	184.92	159.28	185.44	286.68	185.96	445.76
184.41	62.99	184.93	161.43	185.45	289.46	185.97	449.16
184.42	64.63	184.94	163.59	185.46	292.25	185.98	452.57
184.43	66.30	184.95	165.77	185.47	295.06	185.99	455.99
184.44	68.00	184.96	167.95	185.48	297.87	186.00	459.42
184.45	69.72	184.97	170.14	185.49	300.69		
184.46	71.47	184.98	172.34	185.50	303.52		
184.47	73.25	184.99	174.56	185.51	306.37		
184.48	75.06	185.00	176.78	185.52	309.23		
184.49	76.89	185.01	179.02	185.53	312.09		
184.50	78.75	185.02	181.26	185.54	314.97		
184.51	80.63	185.03	183.52	185.55	317.86		
184.52	82.27	185.04	185.78	185.56	320.76		
184.53	83.93	185.05	188.06	185.57	323.67		
184.54	85.60	185.06	190.34	185.58	326.59		
184.55	87.28	185.07	192.64	185.59	329.52		
184.56	88.98	185.08	194.94	185.60	332.46		
184.57	90.69	185.09	197.26	185.61	335.42		
184.58	92.41	185.10	199.59	185.62	338.38		
184.59	94.15	185.11	201.92	185.63	341.35		
184.60	95.90	185.12	204.30	185.64	344.34		
184.61	97.66	185.13	206.69	185.65	347.33		
184.62	99.43	185.14	209.10	185.66	350.34		
184.63	101.22	185.15	211.51	185.67	353.36		
184.64	103.02	185.16	213.93	185.68	356.39		
184.65	104.83	185.17	216.37	185.69	359.42		
184.66	106.66	185.18	218.81	185.70	362.47		
184.67	108.49	185.19	221.27	185.71	365.53		

Stage-Area-Storage for Pond B-11: Basin #11

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
180.00	4,780	0	180.52	5,166	2,586
180.01	4,787	48	180.53	5,173	2,638
180.02	4,795	96	180.54	5,181	2,689
180.03	4,802	144	180.55	5,188	2,741
180.04	4,810	192	180.56	5,196	2,793
180.05	4,817	240	180.57	5,203	2,845
180.06	4,825	288	180.58	5,210	2,897
180.07	4,832	336	180.59	5,218	2,949
180.08	4,839	385	180.60	5,225	3,002
180.09	4,847	433	180.61	5,233	3,054
180.10	4,854	482	180.62	5,240	3,106
180.11	4,862	530	180.63	5,247	3,159
180.12	4,869	579	180.64	5,255	3,211
180.13	4,876	628	180.65	5,262	3,264
180.14	4,884	676	180.66	5,270	3,316
180.15	4,891	725	180.67	5,277	3,369
180.16	4,899	774	180.68	5,285	3,422
180.17	4,906	823	180.69	5,292	3,475
180.18	4,914	872	180.70	5,299	3,528
180.19	4,921	922	180.71	5,307	3,581
180.20	4,928	971	180.72	5,314	3,634
180.21	4,936	1,020	180.73	5,322	3,687
180.22	4,943	1,070	180.74	5,329	3,740
180.23	4,951	1,119	180.75	5,337	3,794
180.24	4,958	1,169	180.76	5,344	3,847
180.25	4,966	1,218	180.77	5,351	3,901
180.26	4,973	1,268	180.78	5,359	3,954
180.27	4,980	1,318	180.79	5,366	4,008
180.28	4,988	1,367	180.80	5,374	4,061
180.29	4,995	1,417	180.81	5,381	4,115
180.30	5,003	1,467	180.82	5,388	4,169
180.31	5,010	1,517	180.83	5,396	4,223
180.32	5,017	1,568	180.84	5,403	4,277
180.33	5,025	1,618	180.85	5,411	4,331
180.34	5,032	1,668	180.86	5,418	4,385
180.35	5,040	1,718	180.87	5,426	4,439
180.36	5,047	1,769	180.88	5,433	4,494
180.37	5,055	1,819	180.89	5,440	4,548
180.38	5,062	1,870	180.90	5,448	4,603
180.39	5,069	1,921	180.91	5,455	4,657
180.40	5,077	1,971	180.92	5,463	4,712
180.41	5,084	2,022	180.93	5,470	4,766
180.42	5,092	2,073	180.94	5,477	4,821
180.43	5,099	2,124	180.95	5,485	4,876
180.44	5,106	2,175	180.96	5,492	4,931
180.45	5,114	2,226	180.97	5,500	4,986
180.46	5,121	2,277	180.98	5,507	5,041
180.47	5,129	2,329	180.99	5,515	5,096
180.48	5,136	2,380	181.00	5,522	5,151
180.49	5,144	2,431	181.01	5,530	5,206
180.50	5,151	2,483	181.02	5,538	5,262
180.51	5,158	2,534	181.03	5,546	5,317

Stage-Area-Storage for Pond B-11: Basin #11 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
181.04	5,553	5,373	181.56	5,961	8,366
181.05	5,561	5,428	181.57	5,969	8,426
181.06	5,569	5,484	181.58	5,977	8,486
181.07	5,577	5,539	181.59	5,985	8,545
181.08	5,585	5,595	181.60	5,992	8,605
181.09	5,593	5,651	181.61	6,000	8,665
181.10	5,600	5,707	181.62	6,008	8,725
181.11	5,608	5,763	181.63	6,016	8,785
181.12	5,616	5,819	181.64	6,024	8,846
181.13	5,624	5,875	181.65	6,032	8,906
181.14	5,632	5,932	181.66	6,039	8,966
181.15	5,640	5,988	181.67	6,047	9,027
181.16	5,647	6,045	181.68	6,055	9,087
181.17	5,655	6,101	181.69	6,063	9,148
181.18	5,663	6,158	181.70	6,071	9,208
181.19	5,671	6,214	181.71	6,079	9,269
181.20	5,679	6,271	181.72	6,086	9,330
181.21	5,687	6,328	181.73	6,094	9,391
181.22	5,694	6,385	181.74	6,102	9,452
181.23	5,702	6,442	181.75	6,110	9,513
181.24	5,710	6,499	181.76	6,118	9,574
181.25	5,718	6,556	181.77	6,126	9,635
181.26	5,726	6,613	181.78	6,134	9,697
181.27	5,734	6,671	181.79	6,141	9,758
181.28	5,742	6,728	181.80	6,149	9,819
181.29	5,749	6,785	181.81	6,157	9,881
181.30	5,757	6,843	181.82	6,165	9,943
181.31	5,765	6,900	181.83	6,173	10,004
181.32	5,773	6,958	181.84	6,181	10,066
181.33	5,781	7,016	181.85	6,188	10,128
181.34	5,789	7,074	181.86	6,196	10,190
181.35	5,796	7,132	181.87	6,204	10,252
181.36	5,804	7,190	181.88	6,212	10,314
181.37	5,812	7,248	181.89	6,220	10,376
181.38	5,820	7,306	181.90	6,228	10,438
181.39	5,828	7,364	181.91	6,235	10,501
181.40	5,836	7,423	181.92	6,243	10,563
181.41	5,843	7,481	181.93	6,251	10,626
181.42	5,851	7,539	181.94	6,259	10,688
181.43	5,859	7,598	181.95	6,267	10,751
181.44	5,867	7,657	181.96	6,275	10,813
181.45	5,875	7,715	181.97	6,282	10,876
181.46	5,883	7,774	181.98	6,290	10,939
181.47	5,890	7,833	181.99	6,298	11,002
181.48	5,898	7,892	182.00	6,306	11,065
181.49	5,906	7,951	182.01	6,314	11,128
181.50	5,914	8,010	182.02	6,323	11,191
181.51	5,922	8,069	182.03	6,331	11,255
181.52	5,930	8,128	182.04	6,339	11,318
181.53	5,938	8,188	182.05	6,347	11,381
181.54	5,945	8,247	182.06	6,356	11,445
181.55	5,953	8,307	182.07	6,364	11,508

Stage-Area-Storage for Pond B-11: Basin #11 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
182.08	6,372	11,572	182.60	6,803	14,998
182.09	6,381	11,636	182.61	6,812	15,066
182.10	6,389	11,700	182.62	6,820	15,134
182.11	6,397	11,764	182.63	6,828	15,202
182.12	6,405	11,828	182.64	6,837	15,271
182.13	6,414	11,892	182.65	6,845	15,339
182.14	6,422	11,956	182.66	6,853	15,408
182.15	6,430	12,020	182.67	6,861	15,476
182.16	6,439	12,085	182.68	6,870	15,545
182.17	6,447	12,149	182.69	6,878	15,613
182.18	6,455	12,214	182.70	6,886	15,682
182.19	6,464	12,278	182.71	6,895	15,751
182.20	6,472	12,343	182.72	6,903	15,820
182.21	6,480	12,408	182.73	6,911	15,889
182.22	6,488	12,472	182.74	6,919	15,958
182.23	6,497	12,537	182.75	6,928	16,028
182.24	6,505	12,602	182.76	6,936	16,097
182.25	6,513	12,667	182.77	6,944	16,166
182.26	6,522	12,733	182.78	6,953	16,236
182.27	6,530	12,798	182.79	6,961	16,305
182.28	6,538	12,863	182.80	6,969	16,375
182.29	6,546	12,929	182.81	6,977	16,445
182.30	6,555	12,994	182.82	6,986	16,515
182.31	6,563	13,060	182.83	6,994	16,585
182.32	6,571	13,125	182.84	7,002	16,655
182.33	6,580	13,191	182.85	7,011	16,725
182.34	6,588	13,257	182.86	7,019	16,795
182.35	6,596	13,323	182.87	7,027	16,865
182.36	6,604	13,389	182.88	7,036	16,935
182.37	6,613	13,455	182.89	7,044	17,006
182.38	6,621	13,521	182.90	7,052	17,076
182.39	6,629	13,587	182.91	7,060	17,147
182.40	6,638	13,654	182.92	7,069	17,217
182.41	6,646	13,720	182.93	7,077	17,288
182.42	6,654	13,787	182.94	7,085	17,359
182.43	6,662	13,853	182.95	7,094	17,430
182.44	6,671	13,920	182.96	7,102	17,501
182.45	6,679	13,987	182.97	7,110	17,572
182.46	6,687	14,053	182.98	7,118	17,643
182.47	6,696	14,120	182.99	7,127	17,714
182.48	6,704	14,187	183.00	7,135	17,786
182.49	6,712	14,254	183.01	7,144	17,857
182.50	6,721	14,322	183.02	7,152	17,928
182.51	6,729	14,389	183.03	7,161	18,000
182.52	6,737	14,456	183.04	7,170	18,072
182.53	6,745	14,524	183.05	7,179	18,143
182.54	6,754	14,591	183.06	7,187	18,215
182.55	6,762	14,659	183.07	7,196	18,287
182.56	6,770	14,726	183.08	7,205	18,359
182.57	6,779	14,794	183.09	7,213	18,431
182.58	6,787	14,862	183.10	7,222	18,503
182.59	6,795	14,930	183.11	7,231	18,576

Stage-Area-Storage for Pond B-11: Basin #11 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
183.12	7,240	18,648	183.64	7,693	22,530
183.13	7,248	18,720	183.65	7,702	22,607
183.14	7,257	18,793	183.66	7,711	22,685
183.15	7,266	18,866	183.67	7,719	22,762
183.16	7,275	18,938	183.68	7,728	22,839
183.17	7,283	19,011	183.69	7,737	22,916
183.18	7,292	19,084	183.70	7,745	22,994
183.19	7,301	19,157	183.71	7,754	23,071
183.20	7,309	19,230	183.72	7,763	23,149
183.21	7,318	19,303	183.73	7,772	23,226
183.22	7,327	19,376	183.74	7,780	23,304
183.23	7,336	19,450	183.75	7,789	23,382
183.24	7,344	19,523	183.76	7,798	23,460
183.25	7,353	19,597	183.77	7,806	23,538
183.26	7,362	19,670	183.78	7,815	23,616
183.27	7,370	19,744	183.79	7,824	23,694
183.28	7,379	19,817	183.80	7,833	23,773
183.29	7,388	19,891	183.81	7,841	23,851
183.30	7,397	19,965	183.82	7,850	23,929
183.31	7,405	20,039	183.83	7,859	24,008
183.32	7,414	20,113	183.84	7,867	24,087
183.33	7,423	20,188	183.85	7,876	24,165
183.34	7,431	20,262	183.86	7,885	24,244
183.35	7,440	20,336	183.87	7,894	24,323
183.36	7,449	20,411	183.88	7,902	24,402
183.37	7,458	20,485	183.89	7,911	24,481
183.38	7,466	20,560	183.90	7,920	24,560
183.39	7,475	20,634	183.91	7,929	24,639
183.40	7,484	20,709	183.92	7,937	24,719
183.41	7,493	20,784	183.93	7,946	24,798
183.42	7,501	20,859	183.94	7,955	24,878
183.43	7,510	20,934	183.95	7,963	24,957
183.44	7,519	21,009	183.96	7,972	25,037
183.45	7,527	21,085	183.97	7,981	25,117
183.46	7,536	21,160	183.98	7,990	25,197
183.47	7,545	21,235	183.99	7,998	25,276
183.48	7,554	21,311	184.00	8,007	25,357
183.49	7,562	21,386	184.01	8,016	25,437
183.50	7,571	21,462	184.02	8,025	25,517
183.51	7,580	21,538	184.03	8,034	25,597
183.52	7,588	21,614	184.04	8,044	25,678
183.53	7,597	21,690	184.05	8,053	25,758
183.54	7,606	21,766	184.06	8,062	25,839
183.55	7,615	21,842	184.07	8,071	25,919
183.56	7,623	21,918	184.08	8,080	26,000
183.57	7,632	21,994	184.09	8,089	26,081
183.58	7,641	22,070	184.10	8,099	26,162
183.59	7,649	22,147	184.11	8,108	26,243
183.60	7,658	22,223	184.12	8,117	26,324
183.61	7,667	22,300	184.13	8,126	26,405
183.62	7,676	22,377	184.14	8,135	26,486
183.63	7,684	22,454	184.15	8,144	26,568

Stage-Area-Storage for Pond B-11: Basin #11 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
184.16	8,154	26,649	184.68	8,630	31,013
184.17	8,163	26,731	184.69	8,639	31,099
184.18	8,172	26,813	184.70	8,648	31,186
184.19	8,181	26,894	184.71	8,657	31,272
184.20	8,190	26,976	184.72	8,667	31,359
184.21	8,199	27,058	184.73	8,676	31,446
184.22	8,209	27,140	184.74	8,685	31,532
184.23	8,218	27,222	184.75	8,694	31,619
184.24	8,227	27,305	184.76	8,703	31,706
184.25	8,236	27,387	184.77	8,712	31,793
184.26	8,245	27,469	184.78	8,721	31,881
184.27	8,254	27,552	184.79	8,731	31,968
184.28	8,263	27,634	184.80	8,740	32,055
184.29	8,273	27,717	184.81	8,749	32,143
184.30	8,282	27,800	184.82	8,758	32,230
184.31	8,291	27,883	184.83	8,767	32,318
184.32	8,300	27,966	184.84	8,776	32,406
184.33	8,309	28,049	184.85	8,786	32,493
184.34	8,318	28,132	184.86	8,795	32,581
184.35	8,328	28,215	184.87	8,804	32,669
184.36	8,337	28,298	184.88	8,813	32,757
184.37	8,346	28,382	184.89	8,822	32,846
184.38	8,355	28,465	184.90	8,831	32,934
184.39	8,364	28,549	184.91	8,841	33,022
184.40	8,373	28,633	184.92	8,850	33,111
184.41	8,383	28,716	184.93	8,859	33,199
184.42	8,392	28,800	184.94	8,868	33,288
184.43	8,401	28,884	184.95	8,877	33,376
184.44	8,410	28,968	184.96	8,886	33,465
184.45	8,419	29,052	184.97	8,896	33,554
184.46	8,428	29,137	184.98	8,905	33,643
184.47	8,438	29,221	184.99	8,914	33,732
184.48	8,447	29,305	185.00	8,923	33,822
184.49	8,456	29,390	185.01	8,933	33,911
184.50	8,465	29,475	185.02	8,942	34,000
184.51	8,474	29,559	185.03	8,952	34,090
184.52	8,483	29,644	185.04	8,961	34,179
184.53	8,492	29,729	185.05	8,971	34,269
184.54	8,502	29,814	185.06	8,981	34,359
184.55	8,511	29,899	185.07	8,990	34,448
184.56	8,520	29,984	185.08	9,000	34,538
184.57	8,529	30,069	185.09	9,009	34,628
184.58	8,538	30,155	185.10	9,019	34,719
184.59	8,547	30,240	185.11	9,028	34,809
184.60	8,557	30,326	185.12	9,038	34,899
184.61	8,566	30,411	185.13	9,048	34,990
184.62	8,575	30,497	185.14	9,057	35,080
184.63	8,584	30,583	185.15	9,067	35,171
184.64	8,593	30,669	185.16	9,076	35,261
184.65	8,602	30,755	185.17	9,086	35,352
184.66	8,612	30,841	185.18	9,096	35,443
184.67	8,621	30,927	185.19	9,105	35,534

Stage-Area-Storage for Pond B-11: Basin #11 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
185.20	9,115	35,625	185.72	9,613	40,495
185.21	9,124	35,716	185.73	9,623	40,591
185.22	9,134	35,808	185.74	9,633	40,687
185.23	9,144	35,899	185.75	9,642	40,783
185.24	9,153	35,991	185.76	9,652	40,880
185.25	9,163	36,082	185.77	9,661	40,977
185.26	9,172	36,174	185.78	9,671	41,073
185.27	9,182	36,266	185.79	9,681	41,170
185.28	9,192	36,358	185.80	9,690	41,267
185.29	9,201	36,449	185.81	9,700	41,364
185.30	9,211	36,542	185.82	9,709	41,461
185.31	9,220	36,634	185.83	9,719	41,558
185.32	9,230	36,726	185.84	9,729	41,655
185.33	9,239	36,818	185.85	9,738	41,752
185.34	9,249	36,911	185.86	9,748	41,850
185.35	9,259	37,003	185.87	9,757	41,947
185.36	9,268	37,096	185.88	9,767	42,045
185.37	9,278	37,189	185.89	9,777	42,143
185.38	9,287	37,281	185.90	9,786	42,241
185.39	9,297	37,374	185.91	9,796	42,339
185.40	9,307	37,467	185.92	9,805	42,437
185.41	9,316	37,561	185.93	9,815	42,535
185.42	9,326	37,654	185.94	9,824	42,633
185.43	9,335	37,747	185.95	9,834	42,731
185.44	9,345	37,840	185.96	9,844	42,829
185.45	9,355	37,934	185.97	9,853	42,928
185.46	9,364	38,028	185.98	9,863	43,027
185.47	9,374	38,121	185.99	9,872	43,125
185.48	9,383	38,215	186.00	9,882	43,224
185.49	9,393	38,309			
185.50	9,403	38,403			
185.51	9,412	38,497			
185.52	9,422	38,591			
185.53	9,431	38,685			
185.54	9,441	38,780			
185.55	9,450	38,874			
185.56	9,460	38,969			
185.57	9,470	39,063			
185.58	9,479	39,158			
185.59	9,489	39,253			
185.60	9,498	39,348			
185.61	9,508	39,443			
185.62	9,518	39,538			
185.63	9,527	39,633			
185.64	9,537	39,729			
185.65	9,546	39,824			
185.66	9,556	39,920			
185.67	9,566	40,015			
185.68	9,575	40,111			
185.69	9,585	40,207			
185.70	9,594	40,303			
185.71	9,604	40,399			

Summary for Pond B-12: Basin #12

Inflow Area = 2.426 ac, 44.77% Impervious, Inflow Depth = 2.44" for Future 2 yr event
 Inflow = 5.96 cfs @ 12.17 hrs, Volume= 0.493 af
 Outflow = 1.32 cfs @ 12.62 hrs, Volume= 0.389 af, Atten= 78%, Lag= 26.8 min
 Primary = 1.32 cfs @ 12.62 hrs, Volume= 0.389 af
 Routed to Link PDA-1 : Proposed Drainage Area #1

Routing by Stor-Ind method, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 Peak Elev= 203.02' @ 12.62 hrs Surf.Area= 6,117 sf Storage= 10,811 cf

Plug-Flow detention time= 235.2 min calculated for 0.388 af (79% of inflow)
 Center-of-Mass det. time= 150.4 min (941.7 - 791.4)

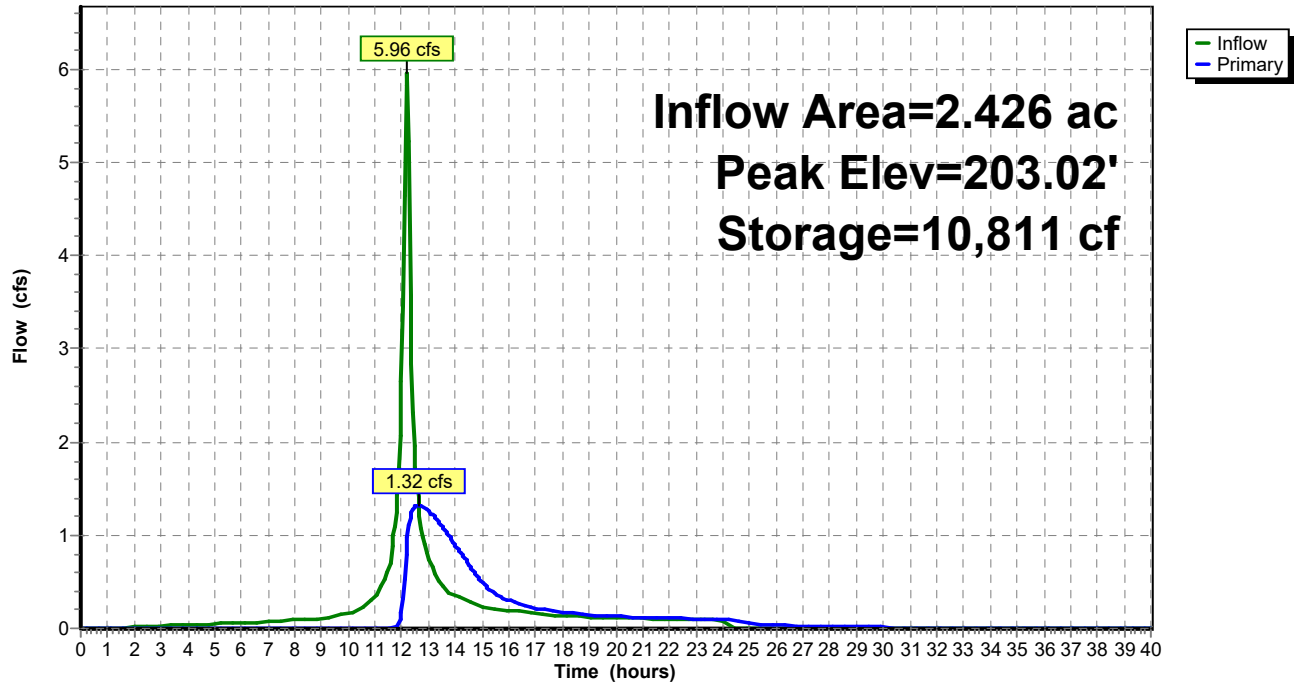
Volume	Invert	Avail.Storage	Storage Description
#1	201.00'	24,487 cf	Custom Stage Data (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
201.00	4,623	0	0
202.00	5,350	4,987	4,987
203.00	6,105	5,728	10,714
204.00	6,883	6,494	17,208
205.00	7,674	7,279	24,487

Device	Routing	Invert	Outlet Devices
#1	Primary	199.65'	18.0" Round Culvert L= 238.0' Ke= 0.500 Inlet / Outlet Invert= 199.65' / 195.50' S= 0.0174 '/' Cc= 0.900 n= 0.013, Flow Area= 1.77 sf
#2	Device 1	201.90'	7.5" Vert. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#3	Device 1	203.02'	4.0' long Sharp-Crested Rectangular Weir 2 End Contraction(s)
#4	Primary	204.50'	50.0' long + 3.0 ' SideZ x 5.0' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 Coef. (English) 2.34 2.50 2.70 2.68 2.68 2.66 2.65 2.65 2.65 2.65 2.67 2.66 2.68 2.70 2.74 2.79 2.88

Primary OutFlow Max=1.32 cfs @ 12.62 hrs HW=203.02' (Free Discharge)

1=Culvert (Passes 1.32 cfs of 13.76 cfs potential flow)
 2=Orifice/Grate (Orifice Controls 1.32 cfs @ 4.31 fps)
 3=Sharp-Crested Rectangular Weir(Controls 0.00 cfs)
 4=Broad-Crested Rectangular Weir(Controls 0.00 cfs)

Pond B-12: Basin #12**Hydrograph**

Stage-Discharge for Pond B-12: Basin #12

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
201.00	0.00	201.52	0.00	202.04	0.07	202.56	0.87
201.01	0.00	201.53	0.00	202.05	0.07	202.57	0.88
201.02	0.00	201.54	0.00	202.06	0.08	202.58	0.90
201.03	0.00	201.55	0.00	202.07	0.09	202.59	0.91
201.04	0.00	201.56	0.00	202.08	0.11	202.60	0.92
201.05	0.00	201.57	0.00	202.09	0.12	202.61	0.93
201.06	0.00	201.58	0.00	202.10	0.13	202.62	0.94
201.07	0.00	201.59	0.00	202.11	0.14	202.63	0.95
201.08	0.00	201.60	0.00	202.12	0.15	202.64	0.97
201.09	0.00	201.61	0.00	202.13	0.17	202.65	0.98
201.10	0.00	201.62	0.00	202.14	0.18	202.66	0.99
201.11	0.00	201.63	0.00	202.15	0.20	202.67	1.00
201.12	0.00	201.64	0.00	202.16	0.21	202.68	1.01
201.13	0.00	201.65	0.00	202.17	0.22	202.69	1.02
201.14	0.00	201.66	0.00	202.18	0.24	202.70	1.03
201.15	0.00	201.67	0.00	202.19	0.26	202.71	1.04
201.16	0.00	201.68	0.00	202.20	0.27	202.72	1.05
201.17	0.00	201.69	0.00	202.21	0.29	202.73	1.06
201.18	0.00	201.70	0.00	202.22	0.30	202.74	1.07
201.19	0.00	201.71	0.00	202.23	0.32	202.75	1.08
201.20	0.00	201.72	0.00	202.24	0.34	202.76	1.09
201.21	0.00	201.73	0.00	202.25	0.36	202.77	1.10
201.22	0.00	201.74	0.00	202.26	0.37	202.78	1.11
201.23	0.00	201.75	0.00	202.27	0.39	202.79	1.12
201.24	0.00	201.76	0.00	202.28	0.41	202.80	1.13
201.25	0.00	201.77	0.00	202.29	0.43	202.81	1.14
201.26	0.00	201.78	0.00	202.30	0.45	202.82	1.15
201.27	0.00	201.79	0.00	202.31	0.47	202.83	1.16
201.28	0.00	201.80	0.00	202.32	0.48	202.84	1.17
201.29	0.00	201.81	0.00	202.33	0.50	202.85	1.18
201.30	0.00	201.82	0.00	202.34	0.52	202.86	1.19
201.31	0.00	201.83	0.00	202.35	0.54	202.87	1.20
201.32	0.00	201.84	0.00	202.36	0.56	202.88	1.21
201.33	0.00	201.85	0.00	202.37	0.58	202.89	1.22
201.34	0.00	201.86	0.00	202.38	0.60	202.90	1.22
201.35	0.00	201.87	0.00	202.39	0.61	202.91	1.23
201.36	0.00	201.88	0.00	202.40	0.63	202.92	1.24
201.37	0.00	201.89	0.00	202.41	0.65	202.93	1.25
201.38	0.00	201.90	0.00	202.42	0.67	202.94	1.26
201.39	0.00	201.91	0.00	202.43	0.69	202.95	1.27
201.40	0.00	201.92	0.00	202.44	0.70	202.96	1.28
201.41	0.00	201.93	0.00	202.45	0.72	202.97	1.29
201.42	0.00	201.94	0.01	202.46	0.74	202.98	1.29
201.43	0.00	201.95	0.01	202.47	0.75	202.99	1.30
201.44	0.00	201.96	0.01	202.48	0.77	203.00	1.31
201.45	0.00	201.97	0.02	202.49	0.78	203.01	1.32
201.46	0.00	201.98	0.02	202.50	0.80	203.02	1.33
201.47	0.00	201.99	0.03	202.51	0.81	203.03	1.35
201.48	0.00	202.00	0.03	202.52	0.82	203.04	1.38
201.49	0.00	202.01	0.04	202.53	0.83	203.05	1.42
201.50	0.00	202.02	0.05	202.54	0.85	203.06	1.46
201.51	0.00	202.03	0.06	202.55	0.86	203.07	1.51

Stage-Discharge for Pond B-12: Basin #12 (continued)

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
203.08	1.57	203.60	7.35	204.12	15.64	204.64	22.37
203.09	1.63	203.61	7.50	204.13	15.65	204.65	23.06
203.10	1.69	203.62	7.65	204.14	15.66	204.66	23.77
203.11	1.75	203.63	7.80	204.15	15.67	204.67	24.50
203.12	1.82	203.64	7.95	204.16	15.69	204.68	25.26
203.13	1.89	203.65	8.11	204.17	15.70	204.69	26.03
203.14	1.96	203.66	8.26	204.18	15.71	204.70	26.83
203.15	2.04	203.67	8.42	204.19	15.72	204.71	27.69
203.16	2.12	203.68	8.57	204.20	15.73	204.72	28.57
203.17	2.20	203.69	8.73	204.21	15.74	204.73	29.48
203.18	2.28	203.70	8.89	204.22	15.75	204.74	30.41
203.19	2.37	203.71	9.05	204.23	15.76	204.75	31.37
203.20	2.46	203.72	9.21	204.24	15.77	204.76	32.36
203.21	2.55	203.73	9.37	204.25	15.78	204.77	33.37
203.22	2.64	203.74	9.53	204.26	15.79	204.78	34.40
203.23	2.74	203.75	9.69	204.27	15.81	204.79	35.46
203.24	2.83	203.76	9.86	204.28	15.82	204.80	36.54
203.25	2.93	203.77	10.02	204.29	15.83	204.81	37.65
203.26	3.03	203.78	10.19	204.30	15.84	204.82	38.78
203.27	3.13	203.79	10.35	204.31	15.85	204.83	39.94
203.28	3.24	203.80	10.52	204.32	15.86	204.84	41.12
203.29	3.34	203.81	10.69	204.33	15.87	204.85	42.32
203.30	3.45	203.82	10.86	204.34	15.88	204.86	43.55
203.31	3.56	203.83	11.03	204.35	15.89	204.87	44.80
203.32	3.67	203.84	11.20	204.36	15.90	204.88	46.08
203.33	3.78	203.85	11.37	204.37	15.91	204.89	47.38
203.34	3.90	203.86	11.54	204.38	15.92	204.90	48.71
203.35	4.01	203.87	11.72	204.39	15.94	204.91	50.08
203.36	4.13	203.88	11.89	204.40	15.95	204.92	51.48
203.37	4.25	203.89	12.07	204.41	15.96	204.93	52.91
203.38	4.37	203.90	12.24	204.42	15.97	204.94	54.37
203.39	4.49	203.91	12.42	204.43	15.98	204.95	55.85
203.40	4.62	203.92	12.60	204.44	15.99	204.96	57.35
203.41	4.74	203.93	12.77	204.45	16.00	204.97	58.89
203.42	4.87	203.94	12.95	204.46	16.01	204.98	60.45
203.43	4.99	203.95	13.13	204.47	16.02	204.99	62.03
203.44	5.12	203.96	13.31	204.48	16.03	205.00	63.65
203.45	5.25	203.97	13.49	204.49	16.04		
203.46	5.38	203.98	13.68	204.50	16.05		
203.47	5.52	203.99	13.86	204.51	16.18		
203.48	5.65	204.00	14.04	204.52	16.41		
203.49	5.79	204.01	14.23	204.53	16.69		
203.50	5.92	204.02	14.41	204.54	17.03		
203.51	6.06	204.03	14.60	204.55	17.42		
203.52	6.20	204.04	14.78	204.56	17.84		
203.53	6.34	204.05	14.97	204.57	18.30		
203.54	6.48	204.06	15.16	204.58	18.80		
203.55	6.62	204.07	15.35	204.59	19.32		
203.56	6.77	204.08	15.54	204.60	19.88		
203.57	6.91	204.09	15.61	204.61	20.46		
203.58	7.06	204.10	15.62	204.62	21.07		
203.59	7.20	204.11	15.63	204.63	21.71		

Stage-Area-Storage for Pond B-12: Basin #12

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
201.00	4,623	0	201.52	5,001	2,502
201.01	4,630	46	201.53	5,008	2,552
201.02	4,638	93	201.54	5,016	2,602
201.03	4,645	139	201.55	5,023	2,653
201.04	4,652	186	201.56	5,030	2,703
201.05	4,659	232	201.57	5,037	2,753
201.06	4,667	279	201.58	5,045	2,804
201.07	4,674	325	201.59	5,052	2,854
201.08	4,681	372	201.60	5,059	2,905
201.09	4,688	419	201.61	5,066	2,955
201.10	4,696	466	201.62	5,074	3,006
201.11	4,703	513	201.63	5,081	3,057
201.12	4,710	560	201.64	5,088	3,108
201.13	4,718	607	201.65	5,096	3,159
201.14	4,725	654	201.66	5,103	3,210
201.15	4,732	702	201.67	5,110	3,261
201.16	4,739	749	201.68	5,117	3,312
201.17	4,747	796	201.69	5,125	3,363
201.18	4,754	844	201.70	5,132	3,414
201.19	4,761	891	201.71	5,139	3,466
201.20	4,768	939	201.72	5,146	3,517
201.21	4,776	987	201.73	5,154	3,568
201.22	4,783	1,035	201.74	5,161	3,620
201.23	4,790	1,083	201.75	5,168	3,672
201.24	4,797	1,130	201.76	5,176	3,723
201.25	4,805	1,178	201.77	5,183	3,775
201.26	4,812	1,227	201.78	5,190	3,827
201.27	4,819	1,275	201.79	5,197	3,879
201.28	4,827	1,323	201.80	5,205	3,931
201.29	4,834	1,371	201.81	5,212	3,983
201.30	4,841	1,420	201.82	5,219	4,035
201.31	4,848	1,468	201.83	5,226	4,088
201.32	4,856	1,517	201.84	5,234	4,140
201.33	4,863	1,565	201.85	5,241	4,192
201.34	4,870	1,614	201.86	5,248	4,245
201.35	4,877	1,663	201.87	5,255	4,297
201.36	4,885	1,711	201.88	5,263	4,350
201.37	4,892	1,760	201.89	5,270	4,402
201.38	4,899	1,809	201.90	5,277	4,455
201.39	4,907	1,858	201.91	5,285	4,508
201.40	4,914	1,907	201.92	5,292	4,561
201.41	4,921	1,957	201.93	5,299	4,614
201.42	4,928	2,006	201.94	5,306	4,667
201.43	4,936	2,055	201.95	5,314	4,720
201.44	4,943	2,104	201.96	5,321	4,773
201.45	4,950	2,154	201.97	5,328	4,826
201.46	4,957	2,203	201.98	5,335	4,880
201.47	4,965	2,253	201.99	5,343	4,933
201.48	4,972	2,303	202.00	5,350	4,987
201.49	4,979	2,353	202.01	5,358	5,040
201.50	4,987	2,402	202.02	5,365	5,094
201.51	4,994	2,452	202.03	5,373	5,147

Stage-Area-Storage for Pond B-12: Basin #12 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
202.04	5,380	5,201	202.56	5,773	8,101
202.05	5,388	5,255	202.57	5,780	8,159
202.06	5,395	5,309	202.58	5,788	8,216
202.07	5,403	5,363	202.59	5,795	8,274
202.08	5,410	5,417	202.60	5,803	8,332
202.09	5,418	5,471	202.61	5,811	8,390
202.10	5,425	5,525	202.62	5,818	8,449
202.11	5,433	5,580	202.63	5,826	8,507
202.12	5,441	5,634	202.64	5,833	8,565
202.13	5,448	5,688	202.65	5,841	8,623
202.14	5,456	5,743	202.66	5,848	8,682
202.15	5,463	5,797	202.67	5,856	8,740
202.16	5,471	5,852	202.68	5,863	8,799
202.17	5,478	5,907	202.69	5,871	8,858
202.18	5,486	5,962	202.70	5,878	8,916
202.19	5,493	6,017	202.71	5,886	8,975
202.20	5,501	6,072	202.72	5,894	9,034
202.21	5,509	6,127	202.73	5,901	9,093
202.22	5,516	6,182	202.74	5,909	9,152
202.23	5,524	6,237	202.75	5,916	9,211
202.24	5,531	6,292	202.76	5,924	9,271
202.25	5,539	6,348	202.77	5,931	9,330
202.26	5,546	6,403	202.78	5,939	9,389
202.27	5,554	6,459	202.79	5,946	9,449
202.28	5,561	6,514	202.80	5,954	9,508
202.29	5,569	6,570	202.81	5,962	9,568
202.30	5,577	6,625	202.82	5,969	9,627
202.31	5,584	6,681	202.83	5,977	9,687
202.32	5,592	6,737	202.84	5,984	9,747
202.33	5,599	6,793	202.85	5,992	9,807
202.34	5,607	6,849	202.86	5,999	9,867
202.35	5,614	6,905	202.87	6,007	9,927
202.36	5,622	6,961	202.88	6,014	9,987
202.37	5,629	7,018	202.89	6,022	10,047
202.38	5,637	7,074	202.90	6,030	10,107
202.39	5,644	7,130	202.91	6,037	10,168
202.40	5,652	7,187	202.92	6,045	10,228
202.41	5,660	7,243	202.93	6,052	10,288
202.42	5,667	7,300	202.94	6,060	10,349
202.43	5,675	7,357	202.95	6,067	10,410
202.44	5,682	7,414	202.96	6,075	10,470
202.45	5,690	7,470	202.97	6,082	10,531
202.46	5,697	7,527	202.98	6,090	10,592
202.47	5,705	7,584	202.99	6,097	10,653
202.48	5,712	7,641	203.00	6,105	10,714
202.49	5,720	7,699	203.01	6,113	10,775
202.50	5,728	7,756	203.02	6,121	10,836
202.51	5,735	7,813	203.03	6,128	10,898
202.52	5,743	7,871	203.04	6,136	10,959
202.53	5,750	7,928	203.05	6,144	11,020
202.54	5,758	7,986	203.06	6,152	11,082
202.55	5,765	8,043	203.07	6,159	11,143

Stage-Area-Storage for Pond B-12: Basin #12 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
203.08	6,167	11,205	203.60	6,572	14,517
203.09	6,175	11,267	203.61	6,580	14,583
203.10	6,183	11,328	203.62	6,587	14,649
203.11	6,191	11,390	203.63	6,595	14,715
203.12	6,198	11,452	203.64	6,603	14,781
203.13	6,206	11,514	203.65	6,611	14,847
203.14	6,214	11,576	203.66	6,618	14,913
203.15	6,222	11,639	203.67	6,626	14,979
203.16	6,229	11,701	203.68	6,634	15,045
203.17	6,237	11,763	203.69	6,642	15,112
203.18	6,245	11,826	203.70	6,650	15,178
203.19	6,253	11,888	203.71	6,657	15,245
203.20	6,261	11,951	203.72	6,665	15,311
203.21	6,268	12,013	203.73	6,673	15,378
203.22	6,276	12,076	203.74	6,681	15,445
203.23	6,284	12,139	203.75	6,689	15,512
203.24	6,292	12,202	203.76	6,696	15,578
203.25	6,300	12,265	203.77	6,704	15,645
203.26	6,307	12,328	203.78	6,712	15,713
203.27	6,315	12,391	203.79	6,720	15,780
203.28	6,323	12,454	203.80	6,727	15,847
203.29	6,331	12,517	203.81	6,735	15,914
203.30	6,338	12,581	203.82	6,743	15,982
203.31	6,346	12,644	203.83	6,751	16,049
203.32	6,354	12,707	203.84	6,759	16,117
203.33	6,362	12,771	203.85	6,766	16,184
203.34	6,370	12,835	203.86	6,774	16,252
203.35	6,377	12,898	203.87	6,782	16,320
203.36	6,385	12,962	203.88	6,790	16,388
203.37	6,393	13,026	203.89	6,797	16,456
203.38	6,401	13,090	203.90	6,805	16,524
203.39	6,408	13,154	203.91	6,813	16,592
203.40	6,416	13,218	203.92	6,821	16,660
203.41	6,424	13,282	203.93	6,829	16,728
203.42	6,432	13,347	203.94	6,836	16,796
203.43	6,440	13,411	203.95	6,844	16,865
203.44	6,447	13,476	203.96	6,852	16,933
203.45	6,455	13,540	203.97	6,860	17,002
203.46	6,463	13,605	203.98	6,867	17,070
203.47	6,471	13,669	203.99	6,875	17,139
203.48	6,478	13,734	204.00	6,883	17,208
203.49	6,486	13,799	204.01	6,891	17,277
203.50	6,494	13,864	204.02	6,899	17,346
203.51	6,502	13,929	204.03	6,907	17,415
203.52	6,510	13,994	204.04	6,915	17,484
203.53	6,517	14,059	204.05	6,923	17,553
203.54	6,525	14,124	204.06	6,930	17,622
203.55	6,533	14,189	204.07	6,938	17,692
203.56	6,541	14,255	204.08	6,946	17,761
203.57	6,548	14,320	204.09	6,954	17,831
203.58	6,556	14,386	204.10	6,962	17,900
203.59	6,564	14,451	204.11	6,970	17,970

Stage-Area-Storage for Pond B-12: Basin #12 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
204.12	6,978	18,040	204.64	7,389	21,775
204.13	6,986	18,109	204.65	7,397	21,849
204.14	6,994	18,179	204.66	7,405	21,923
204.15	7,002	18,249	204.67	7,413	21,997
204.16	7,010	18,319	204.68	7,421	22,071
204.17	7,017	18,390	204.69	7,429	22,146
204.18	7,025	18,460	204.70	7,437	22,220
204.19	7,033	18,530	204.71	7,445	22,294
204.20	7,041	18,600	204.72	7,453	22,369
204.21	7,049	18,671	204.73	7,460	22,443
204.22	7,057	18,741	204.74	7,468	22,518
204.23	7,065	18,812	204.75	7,476	22,593
204.24	7,073	18,883	204.76	7,484	22,668
204.25	7,081	18,953	204.77	7,492	22,742
204.26	7,089	19,024	204.78	7,500	22,817
204.27	7,097	19,095	204.79	7,508	22,892
204.28	7,104	19,166	204.80	7,516	22,968
204.29	7,112	19,237	204.81	7,524	23,043
204.30	7,120	19,308	204.82	7,532	23,118
204.31	7,128	19,380	204.83	7,540	23,193
204.32	7,136	19,451	204.84	7,547	23,269
204.33	7,144	19,522	204.85	7,555	23,344
204.34	7,152	19,594	204.86	7,563	23,420
204.35	7,160	19,665	204.87	7,571	23,496
204.36	7,168	19,737	204.88	7,579	23,571
204.37	7,176	19,809	204.89	7,587	23,647
204.38	7,184	19,881	204.90	7,595	23,723
204.39	7,191	19,953	204.91	7,603	23,799
204.40	7,199	20,024	204.92	7,611	23,875
204.41	7,207	20,097	204.93	7,619	23,951
204.42	7,215	20,169	204.94	7,627	24,027
204.43	7,223	20,241	204.95	7,634	24,104
204.44	7,231	20,313	204.96	7,642	24,180
204.45	7,239	20,385	204.97	7,650	24,257
204.46	7,247	20,458	204.98	7,658	24,333
204.47	7,255	20,530	204.99	7,666	24,410
204.48	7,263	20,603	205.00	7,674	24,487
204.49	7,271	20,676			
204.50	7,279	20,748			
204.51	7,286	20,821			
204.52	7,294	20,894			
204.53	7,302	20,967			
204.54	7,310	21,040			
204.55	7,318	21,113			
204.56	7,326	21,187			
204.57	7,334	21,260			
204.58	7,342	21,333			
204.59	7,350	21,407			
204.60	7,358	21,480			
204.61	7,366	21,554			
204.62	7,373	21,627			
204.63	7,381	21,701			

Summary for Pond B-13: Basin #13

Inflow Area = 2.350 ac, 62.43% Impervious, Inflow Depth = 2.82" for Future 2 yr event
 Inflow = 6.55 cfs @ 12.17 hrs, Volume= 0.551 af
 Outflow = 0.29 cfs @ 14.68 hrs, Volume= 0.351 af, Atten= 96%, Lag= 150.3 min
 Primary = 0.29 cfs @ 14.68 hrs, Volume= 0.351 af
 Routed to Link PDA-1 : Proposed Drainage Area #1

Routing by Stor-Ind method, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 Peak Elev= 193.99' @ 14.68 hrs Surf.Area= 9,644 sf Storage= 17,505 cf

Plug-Flow detention time= 768.2 min calculated for 0.351 af (64% of inflow)
 Center-of-Mass det. time= 658.9 min (1,436.3 - 777.4)

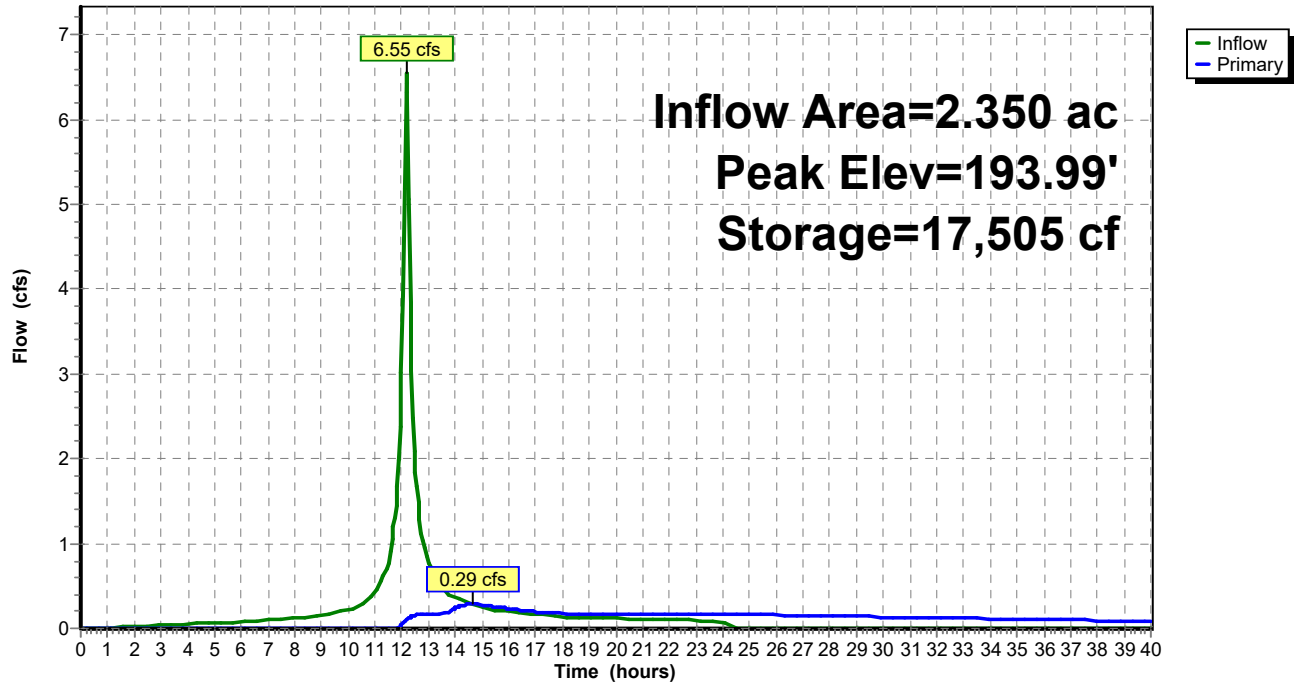
Volume	Invert	Avail.Storage	Storage Description
#1	192.00'	38,667 cf	Custom Stage Data (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
192.00	7,975	0	0
193.00	8,804	8,390	8,390
194.00	9,654	9,229	17,619
195.00	10,522	10,088	27,707
196.00	11,399	10,961	38,667

Device	Routing	Invert	Outlet Devices
#1	Primary	190.65'	18.0" Round Culvert L= 57.0' Ke= 0.500 Inlet / Outlet Invert= 190.65' / 188.00' S= 0.0465 '/' Cc= 0.900 n= 0.013, Flow Area= 1.77 sf
#2	Device 1	192.70'	2.5" Vert. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#3	Device 1	193.95'	4.0' long Sharp-Crested Rectangular Weir 2 End Contraction(s)
#4	Primary	194.96'	50.0' long + 3.0 '/' SideZ x 5.0' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 Coef. (English) 2.34 2.50 2.70 2.68 2.68 2.66 2.65 2.65 2.65 2.65 2.67 2.66 2.68 2.70 2.74 2.79 2.88

Primary OutFlow Max=0.28 cfs @ 14.68 hrs HW=193.99' (Free Discharge)

1=Culvert (Passes 0.28 cfs of 13.69 cfs potential flow)
 2=Orifice/Grate (Orifice Controls 0.18 cfs @ 5.24 fps)
 3=Sharp-Crested Rectangular Weir (Weir Controls 0.10 cfs @ 0.64 fps)
 4=Broad-Crested Rectangular Weir (Controls 0.00 cfs)

Pond B-13: Basin #13**Hydrograph**

Stage-Discharge for Pond B-13: Basin #13

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
192.00	0.00	192.52	0.00	193.04	0.08	193.56	0.14
192.01	0.00	192.53	0.00	193.05	0.08	193.57	0.14
192.02	0.00	192.54	0.00	193.06	0.08	193.58	0.14
192.03	0.00	192.55	0.00	193.07	0.08	193.59	0.15
192.04	0.00	192.56	0.00	193.08	0.09	193.60	0.15
192.05	0.00	192.57	0.00	193.09	0.09	193.61	0.15
192.06	0.00	192.58	0.00	193.10	0.09	193.62	0.15
192.07	0.00	192.59	0.00	193.11	0.09	193.63	0.15
192.08	0.00	192.60	0.00	193.12	0.09	193.64	0.15
192.09	0.00	192.61	0.00	193.13	0.09	193.65	0.15
192.10	0.00	192.62	0.00	193.14	0.10	193.66	0.15
192.11	0.00	192.63	0.00	193.15	0.10	193.67	0.15
192.12	0.00	192.64	0.00	193.16	0.10	193.68	0.15
192.13	0.00	192.65	0.00	193.17	0.10	193.69	0.15
192.14	0.00	192.66	0.00	193.18	0.10	193.70	0.16
192.15	0.00	192.67	0.00	193.19	0.10	193.71	0.16
192.16	0.00	192.68	0.00	193.20	0.10	193.72	0.16
192.17	0.00	192.69	0.00	193.21	0.10	193.73	0.16
192.18	0.00	192.70	0.00	193.22	0.11	193.74	0.16
192.19	0.00	192.71	0.00	193.23	0.11	193.75	0.16
192.20	0.00	192.72	0.00	193.24	0.11	193.76	0.16
192.21	0.00	192.73	0.00	193.25	0.11	193.77	0.16
192.22	0.00	192.74	0.00	193.26	0.11	193.78	0.16
192.23	0.00	192.75	0.00	193.27	0.11	193.79	0.16
192.24	0.00	192.76	0.01	193.28	0.11	193.80	0.16
192.25	0.00	192.77	0.01	193.29	0.11	193.81	0.16
192.26	0.00	192.78	0.01	193.30	0.12	193.82	0.17
192.27	0.00	192.79	0.01	193.31	0.12	193.83	0.17
192.28	0.00	192.80	0.02	193.32	0.12	193.84	0.17
192.29	0.00	192.81	0.02	193.33	0.12	193.85	0.17
192.30	0.00	192.82	0.02	193.34	0.12	193.86	0.17
192.31	0.00	192.83	0.03	193.35	0.12	193.87	0.17
192.32	0.00	192.84	0.03	193.36	0.12	193.88	0.17
192.33	0.00	192.85	0.03	193.37	0.12	193.89	0.17
192.34	0.00	192.86	0.04	193.38	0.12	193.90	0.17
192.35	0.00	192.87	0.04	193.39	0.13	193.91	0.17
192.36	0.00	192.88	0.05	193.40	0.13	193.92	0.17
192.37	0.00	192.89	0.05	193.41	0.13	193.93	0.17
192.38	0.00	192.90	0.05	193.42	0.13	193.94	0.17
192.39	0.00	192.91	0.05	193.43	0.13	193.95	0.18
192.40	0.00	192.92	0.06	193.44	0.13	193.96	0.19
192.41	0.00	192.93	0.06	193.45	0.13	193.97	0.21
192.42	0.00	192.94	0.06	193.46	0.13	193.98	0.25
192.43	0.00	192.95	0.06	193.47	0.13	193.99	0.28
192.44	0.00	192.96	0.06	193.48	0.13	194.00	0.33
192.45	0.00	192.97	0.07	193.49	0.14	194.01	0.37
192.46	0.00	192.98	0.07	193.50	0.14	194.02	0.42
192.47	0.00	192.99	0.07	193.51	0.14	194.03	0.48
192.48	0.00	193.00	0.07	193.52	0.14	194.04	0.53
192.49	0.00	193.01	0.07	193.53	0.14	194.05	0.59
192.50	0.00	193.02	0.08	193.54	0.14	194.06	0.66
192.51	0.00	193.03	0.08	193.55	0.14	194.07	0.73

Stage-Discharge for Pond B-13: Basin #13 (continued)

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
194.08	0.79	194.60	6.85	195.12	23.38	195.64	95.46
194.09	0.87	194.61	7.00	195.13	24.29	195.65	97.21
194.10	0.94	194.62	7.15	195.14	25.23	195.66	98.98
194.11	1.02	194.63	7.31	195.15	26.19	195.67	100.76
194.12	1.10	194.64	7.46	195.16	27.06	195.68	102.55
194.13	1.18	194.65	7.62	195.17	27.93	195.69	104.36
194.14	1.26	194.66	7.77	195.18	28.83	195.70	106.17
194.15	1.35	194.67	7.93	195.19	29.75	195.71	108.00
194.16	1.44	194.68	8.09	195.20	30.69	195.72	109.84
194.17	1.53	194.69	8.24	195.21	31.66	195.73	111.70
194.18	1.62	194.70	8.40	195.22	32.66	195.74	113.56
194.19	1.71	194.71	8.56	195.23	33.68	195.75	115.44
194.20	1.81	194.72	8.72	195.24	34.72	195.76	117.33
194.21	1.91	194.73	8.89	195.25	35.79	195.77	119.27
194.22	2.01	194.74	9.05	195.26	36.89	195.78	121.22
194.23	2.11	194.75	9.21	195.27	38.00	195.79	123.19
194.24	2.21	194.76	9.38	195.28	39.15	195.80	125.17
194.25	2.31	194.77	9.54	195.29	40.31	195.81	127.16
194.26	2.42	194.78	9.71	195.30	41.51	195.82	129.17
194.27	2.53	194.79	9.88	195.31	42.72	195.83	131.19
194.28	2.64	194.80	10.05	195.32	43.96	195.84	133.22
194.29	2.75	194.81	10.22	195.33	45.23	195.85	135.27
194.30	2.86	194.82	10.39	195.34	46.51	195.86	137.32
194.31	2.98	194.83	10.56	195.35	47.83	195.87	139.39
194.32	3.09	194.84	10.73	195.36	49.16	195.88	141.48
194.33	3.21	194.85	10.90	195.37	50.55	195.89	143.57
194.34	3.33	194.86	11.07	195.38	51.96	195.90	145.68
194.35	3.45	194.87	11.25	195.39	53.40	195.91	147.80
194.36	3.57	194.88	11.42	195.40	54.87	195.92	149.94
194.37	3.69	194.89	11.60	195.41	56.36	195.93	152.09
194.38	3.81	194.90	11.77	195.42	57.88	195.94	154.25
194.39	3.94	194.91	11.95	195.43	59.42	195.95	156.42
194.40	4.07	194.92	12.13	195.44	60.99	195.96	158.60
194.41	4.19	194.93	12.31	195.45	62.59	195.97	160.75
194.42	4.32	194.94	12.49	195.46	64.21	195.98	162.90
194.43	4.45	194.95	12.67	195.47	65.86	195.99	165.07
194.44	4.59	194.96	12.85	195.48	67.53	196.00	167.24
194.45	4.72	194.97	13.15	195.49	69.24		
194.46	4.85	194.98	13.54	195.50	70.97		
194.47	4.99	194.99	14.00	195.51	72.72		
194.48	5.13	195.00	14.52	195.52	74.50		
194.49	5.26	195.01	15.07	195.53	76.31		
194.50	5.40	195.02	15.67	195.54	78.15		
194.51	5.54	195.03	16.31	195.55	80.01		
194.52	5.68	195.04	16.98	195.56	81.90		
194.53	5.83	195.05	17.68	195.57	83.55		
194.54	5.97	195.06	18.41	195.58	85.21		
194.55	6.11	195.07	19.17	195.59	86.89		
194.56	6.26	195.08	19.96	195.60	88.58		
194.57	6.41	195.09	20.78	195.61	90.28		
194.58	6.55	195.10	21.62	195.62	91.99		
194.59	6.70	195.11	22.49	195.63	93.72		

Stage-Area-Storage for Pond B-13: Basin #13

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
192.00	7,975	0	192.52	8,406	4,259
192.01	7,983	80	192.53	8,414	4,343
192.02	7,992	160	192.54	8,423	4,427
192.03	8,000	240	192.55	8,431	4,512
192.04	8,008	320	192.56	8,439	4,596
192.05	8,016	400	192.57	8,448	4,680
192.06	8,025	480	192.58	8,456	4,765
192.07	8,033	560	192.59	8,464	4,850
192.08	8,041	641	192.60	8,472	4,934
192.09	8,050	721	192.61	8,481	5,019
192.10	8,058	802	192.62	8,489	5,104
192.11	8,066	882	192.63	8,497	5,189
192.12	8,074	963	192.64	8,506	5,274
192.13	8,083	1,044	192.65	8,514	5,359
192.14	8,091	1,125	192.66	8,522	5,444
192.15	8,099	1,206	192.67	8,530	5,529
192.16	8,108	1,287	192.68	8,539	5,615
192.17	8,116	1,368	192.69	8,547	5,700
192.18	8,124	1,449	192.70	8,555	5,786
192.19	8,133	1,530	192.71	8,564	5,871
192.20	8,141	1,612	192.72	8,572	5,957
192.21	8,149	1,693	192.73	8,580	6,043
192.22	8,157	1,775	192.74	8,588	6,128
192.23	8,166	1,856	192.75	8,597	6,214
192.24	8,174	1,938	192.76	8,605	6,300
192.25	8,182	2,020	192.77	8,613	6,387
192.26	8,191	2,102	192.78	8,622	6,473
192.27	8,199	2,183	192.79	8,630	6,559
192.28	8,207	2,265	192.80	8,638	6,645
192.29	8,215	2,348	192.81	8,646	6,732
192.30	8,224	2,430	192.82	8,655	6,818
192.31	8,232	2,512	192.83	8,663	6,905
192.32	8,240	2,594	192.84	8,671	6,991
192.33	8,249	2,677	192.85	8,680	7,078
192.34	8,257	2,759	192.86	8,688	7,165
192.35	8,265	2,842	192.87	8,696	7,252
192.36	8,273	2,925	192.88	8,705	7,339
192.37	8,282	3,007	192.89	8,713	7,426
192.38	8,290	3,090	192.90	8,721	7,513
192.39	8,298	3,173	192.91	8,729	7,600
192.40	8,307	3,256	192.92	8,738	7,688
192.41	8,315	3,339	192.93	8,746	7,775
192.42	8,323	3,423	192.94	8,754	7,863
192.43	8,331	3,506	192.95	8,763	7,950
192.44	8,340	3,589	192.96	8,771	8,038
192.45	8,348	3,673	192.97	8,779	8,126
192.46	8,356	3,756	192.98	8,787	8,214
192.47	8,365	3,840	192.99	8,796	8,302
192.48	8,373	3,924	193.00	8,804	8,390
192.49	8,381	4,007	193.01	8,812	8,478
192.50	8,390	4,091	193.02	8,821	8,566
192.51	8,398	4,175	193.03	8,830	8,654

Stage-Area-Storage for Pond B-13: Basin #13 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
193.04	8,838	8,742	193.56	9,280	13,453
193.05	8,847	8,831	193.57	9,288	13,546
193.06	8,855	8,919	193.58	9,297	13,639
193.07	8,863	9,008	193.59	9,306	13,732
193.08	8,872	9,097	193.60	9,314	13,825
193.09	8,881	9,185	193.61	9,323	13,918
193.10	8,889	9,274	193.62	9,331	14,011
193.11	8,898	9,363	193.63	9,339	14,105
193.12	8,906	9,452	193.64	9,348	14,198
193.13	8,914	9,541	193.65	9,357	14,292
193.14	8,923	9,630	193.66	9,365	14,385
193.15	8,932	9,720	193.67	9,373	14,479
193.16	8,940	9,809	193.68	9,382	14,573
193.17	8,948	9,898	193.69	9,390	14,667
193.18	8,957	9,988	193.70	9,399	14,761
193.19	8,965	10,078	193.71	9,408	14,855
193.20	8,974	10,167	193.72	9,416	14,949
193.21	8,983	10,257	193.73	9,424	15,043
193.22	8,991	10,347	193.74	9,433	15,137
193.23	8,999	10,437	193.75	9,442	15,232
193.24	9,008	10,527	193.76	9,450	15,326
193.25	9,017	10,617	193.77	9,459	15,421
193.26	9,025	10,707	193.78	9,467	15,515
193.27	9,034	10,798	193.79	9,475	15,610
193.28	9,042	10,888	193.80	9,484	15,705
193.29	9,050	10,978	193.81	9,493	15,800
193.30	9,059	11,069	193.82	9,501	15,895
193.31	9,068	11,160	193.83	9,510	15,990
193.32	9,076	11,250	193.84	9,518	16,085
193.33	9,085	11,341	193.85	9,526	16,180
193.34	9,093	11,432	193.86	9,535	16,275
193.35	9,101	11,523	193.87	9,544	16,371
193.36	9,110	11,614	193.88	9,552	16,466
193.37	9,119	11,705	193.89	9,560	16,562
193.38	9,127	11,796	193.90	9,569	16,657
193.39	9,135	11,888	193.91	9,577	16,753
193.40	9,144	11,979	193.92	9,586	16,849
193.41	9,152	12,071	193.93	9,595	16,945
193.42	9,161	12,162	193.94	9,603	17,041
193.43	9,170	12,254	193.95	9,611	17,137
193.44	9,178	12,346	193.96	9,620	17,233
193.45	9,186	12,437	193.97	9,628	17,329
193.46	9,195	12,529	193.98	9,637	17,426
193.47	9,203	12,621	193.99	9,646	17,522
193.48	9,212	12,713	194.00	9,654	17,619
193.49	9,221	12,806	194.01	9,663	17,715
193.50	9,229	12,898	194.02	9,671	17,812
193.51	9,237	12,990	194.03	9,680	17,909
193.52	9,246	13,083	194.04	9,689	18,005
193.53	9,255	13,175	194.05	9,697	18,102
193.54	9,263	13,268	194.06	9,706	18,199
193.55	9,272	13,360	194.07	9,715	18,296

Stage-Area-Storage for Pond B-13: Basin #13 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
194.08	9,723	18,394	194.60	10,175	23,567
194.09	9,732	18,491	194.61	10,183	23,669
194.10	9,741	18,588	194.62	10,192	23,771
194.11	9,749	18,686	194.63	10,201	23,873
194.12	9,758	18,783	194.64	10,210	23,975
194.13	9,767	18,881	194.65	10,218	24,077
194.14	9,776	18,979	194.66	10,227	24,179
194.15	9,784	19,076	194.67	10,236	24,282
194.16	9,793	19,174	194.68	10,244	24,384
194.17	9,802	19,272	194.69	10,253	24,486
194.18	9,810	19,370	194.70	10,262	24,589
194.19	9,819	19,468	194.71	10,270	24,692
194.20	9,828	19,567	194.72	10,279	24,794
194.21	9,836	19,665	194.73	10,288	24,897
194.22	9,845	19,763	194.74	10,296	25,000
194.23	9,854	19,862	194.75	10,305	25,103
194.24	9,862	19,960	194.76	10,314	25,206
194.25	9,871	20,059	194.77	10,322	25,309
194.26	9,880	20,158	194.78	10,331	25,413
194.27	9,888	20,257	194.79	10,340	25,516
194.28	9,897	20,356	194.80	10,348	25,619
194.29	9,906	20,455	194.81	10,357	25,723
194.30	9,914	20,554	194.82	10,366	25,827
194.31	9,923	20,653	194.83	10,374	25,930
194.32	9,932	20,752	194.84	10,383	26,034
194.33	9,940	20,852	194.85	10,392	26,138
194.34	9,949	20,951	194.86	10,400	26,242
194.35	9,958	21,051	194.87	10,409	26,346
194.36	9,966	21,150	194.88	10,418	26,450
194.37	9,975	21,250	194.89	10,427	26,554
194.38	9,984	21,350	194.90	10,435	26,659
194.39	9,993	21,450	194.91	10,444	26,763
194.40	10,001	21,550	194.92	10,453	26,868
194.41	10,010	21,650	194.93	10,461	26,972
194.42	10,019	21,750	194.94	10,470	27,077
194.43	10,027	21,850	194.95	10,479	27,181
194.44	10,036	21,950	194.96	10,487	27,286
194.45	10,045	22,051	194.97	10,496	27,391
194.46	10,053	22,151	194.98	10,505	27,496
194.47	10,062	22,252	194.99	10,513	27,601
194.48	10,071	22,352	195.00	10,522	27,707
194.49	10,079	22,453	195.01	10,531	27,812
194.50	10,088	22,554	195.02	10,540	27,917
194.51	10,097	22,655	195.03	10,548	28,023
194.52	10,105	22,756	195.04	10,557	28,128
194.53	10,114	22,857	195.05	10,566	28,234
194.54	10,123	22,958	195.06	10,575	28,339
194.55	10,131	23,059	195.07	10,583	28,445
194.56	10,140	23,161	195.08	10,592	28,551
194.57	10,149	23,262	195.09	10,601	28,657
194.58	10,157	23,364	195.10	10,610	28,763
194.59	10,166	23,465	195.11	10,618	28,869

Stage-Area-Storage for Pond B-13: Basin #13 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
195.12	10,627	28,975	195.64	11,083	34,620
195.13	10,636	29,082	195.65	11,092	34,731
195.14	10,645	29,188	195.66	11,101	34,842
195.15	10,654	29,295	195.67	11,110	34,953
195.16	10,662	29,401	195.68	11,118	35,064
195.17	10,671	29,508	195.69	11,127	35,175
195.18	10,680	29,615	195.70	11,136	35,287
195.19	10,689	29,722	195.71	11,145	35,398
195.20	10,697	29,828	195.72	11,153	35,510
195.21	10,706	29,935	195.73	11,162	35,621
195.22	10,715	30,043	195.74	11,171	35,733
195.23	10,724	30,150	195.75	11,180	35,845
195.24	10,732	30,257	195.76	11,189	35,956
195.25	10,741	30,364	195.77	11,197	36,068
195.26	10,750	30,472	195.78	11,206	36,180
195.27	10,759	30,579	195.79	11,215	36,293
195.28	10,768	30,687	195.80	11,224	36,405
195.29	10,776	30,795	195.81	11,232	36,517
195.30	10,785	30,903	195.82	11,241	36,629
195.31	10,794	31,010	195.83	11,250	36,742
195.32	10,803	31,118	195.84	11,259	36,854
195.33	10,811	31,227	195.85	11,267	36,967
195.34	10,820	31,335	195.86	11,276	37,080
195.35	10,829	31,443	195.87	11,285	37,193
195.36	10,838	31,551	195.88	11,294	37,305
195.37	10,846	31,660	195.89	11,303	37,418
195.38	10,855	31,768	195.90	11,311	37,531
195.39	10,864	31,877	195.91	11,320	37,645
195.40	10,873	31,985	195.92	11,329	37,758
195.41	10,882	32,094	195.93	11,338	37,871
195.42	10,890	32,203	195.94	11,346	37,985
195.43	10,899	32,312	195.95	11,355	38,098
195.44	10,908	32,421	195.96	11,364	38,212
195.45	10,917	32,530	195.97	11,373	38,325
195.46	10,925	32,639	195.98	11,381	38,439
195.47	10,934	32,749	195.99	11,390	38,553
195.48	10,943	32,858	196.00	11,399	38,667
195.49	10,952	32,968			
195.50	10,961	33,077			
195.51	10,969	33,187			
195.52	10,978	33,297			
195.53	10,987	33,406			
195.54	10,996	33,516			
195.55	11,004	33,626			
195.56	11,013	33,736			
195.57	11,022	33,847			
195.58	11,031	33,957			
195.59	11,039	34,067			
195.60	11,048	34,178			
195.61	11,057	34,288			
195.62	11,066	34,399			
195.63	11,075	34,509			

Summary for Pond B-14: Basin #14

Inflow Area = 2.148 ac, 23.65% Impervious, Inflow Depth = 1.99" for Future 2 yr event
 Inflow = 4.42 cfs @ 12.18 hrs, Volume= 0.356 af
 Outflow = 0.15 cfs @ 16.06 hrs, Volume= 0.262 af, Atten= 97%, Lag= 232.9 min
 Primary = 0.15 cfs @ 16.06 hrs, Volume= 0.262 af
 Routed to Link PDA-1 : Proposed Drainage Area #1

Routing by Stor-Ind method, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 Peak Elev= 193.39' @ 16.06 hrs Surf.Area= 8,046 sf Storage= 10,640 cf

Plug-Flow detention time= 701.2 min calculated for 0.261 af (73% of inflow)
 Center-of-Mass det. time= 603.2 min (1,418.2 - 814.9)

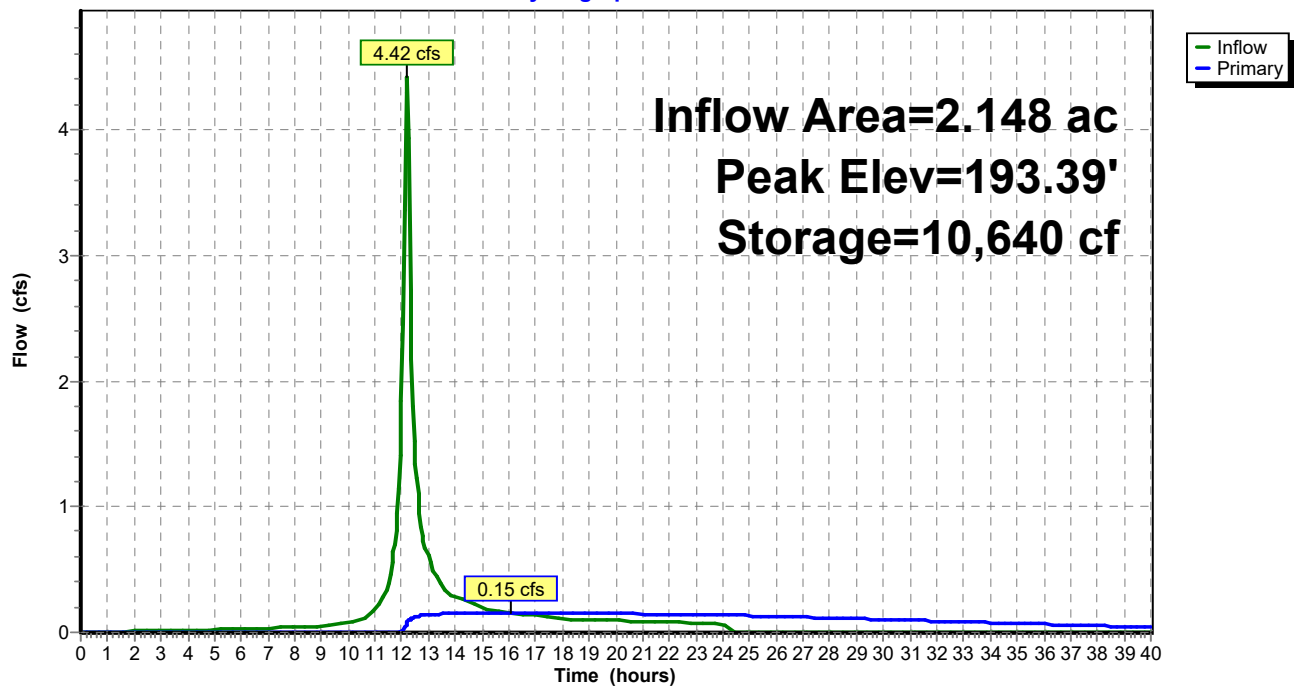
Volume	Invert	Avail.Storage	Storage Description
#1	192.00'	24,345 cf	Custom Stage Data (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
192.00	7,240	0	0
193.00	7,814	7,527	7,527
194.00	8,405	8,110	15,637
195.00	9,012	8,709	24,345

Device	Routing	Invert	Outlet Devices
#1	Primary	190.65'	18.0" Round Culvert L= 194.0' Ke= 0.500 Inlet / Outlet Invert= 190.65' / 188.00' S= 0.0137 ' / Cc= 0.900 n= 0.013, Flow Area= 1.77 sf
#2	Device 1	192.40'	2.5" Vert. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#3	Device 1	193.45'	4.0' long Sharp-Crested Rectangular Weir 2 End Contraction(s)
#4	Primary	194.44'	50.0' long + 3.0 ' / SideZ x 5.0' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 Coef. (English) 2.34 2.50 2.70 2.68 2.68 2.66 2.65 2.65 2.65 2.65 2.67 2.66 2.68 2.70 2.74 2.79 2.88

Primary OutFlow Max=0.15 cfs @ 16.06 hrs HW=193.39' (Free Discharge)

1=Culvert (Passes 0.15 cfs of 12.01 cfs potential flow)
 2=Orifice/Grate (Orifice Controls 0.15 cfs @ 4.54 fps)
 3=Sharp-Crested Rectangular Weir(Controls 0.00 cfs)
 4=Broad-Crested Rectangular Weir(Controls 0.00 cfs)

Pond B-14: Basin #14**Hydrograph**

Stage-Discharge for Pond B-14: Basin #14

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
192.00	0.00	192.52	0.02	193.04	0.12	193.56	0.64
192.01	0.00	192.53	0.03	193.05	0.12	193.57	0.71
192.02	0.00	192.54	0.03	193.06	0.12	193.58	0.78
192.03	0.00	192.55	0.03	193.07	0.12	193.59	0.85
192.04	0.00	192.56	0.04	193.08	0.12	193.60	0.93
192.05	0.00	192.57	0.04	193.09	0.13	193.61	1.00
192.06	0.00	192.58	0.05	193.10	0.13	193.62	1.08
192.07	0.00	192.59	0.05	193.11	0.13	193.63	1.16
192.08	0.00	192.60	0.05	193.12	0.13	193.64	1.25
192.09	0.00	192.61	0.05	193.13	0.13	193.65	1.33
192.10	0.00	192.62	0.06	193.14	0.13	193.66	1.42
192.11	0.00	192.63	0.06	193.15	0.13	193.67	1.51
192.12	0.00	192.64	0.06	193.16	0.13	193.68	1.60
192.13	0.00	192.65	0.06	193.17	0.13	193.69	1.70
192.14	0.00	192.66	0.06	193.18	0.13	193.70	1.79
192.15	0.00	192.67	0.07	193.19	0.14	193.71	1.89
192.16	0.00	192.68	0.07	193.20	0.14	193.72	1.99
192.17	0.00	192.69	0.07	193.21	0.14	193.73	2.09
192.18	0.00	192.70	0.07	193.22	0.14	193.74	2.20
192.19	0.00	192.71	0.07	193.23	0.14	193.75	2.30
192.20	0.00	192.72	0.08	193.24	0.14	193.76	2.41
192.21	0.00	192.73	0.08	193.25	0.14	193.77	2.51
192.22	0.00	192.74	0.08	193.26	0.14	193.78	2.62
192.23	0.00	192.75	0.08	193.27	0.14	193.79	2.74
192.24	0.00	192.76	0.08	193.28	0.14	193.80	2.85
192.25	0.00	192.77	0.08	193.29	0.15	193.81	2.96
192.26	0.00	192.78	0.09	193.30	0.15	193.82	3.08
192.27	0.00	192.79	0.09	193.31	0.15	193.83	3.19
192.28	0.00	192.80	0.09	193.32	0.15	193.84	3.31
192.29	0.00	192.81	0.09	193.33	0.15	193.85	3.43
192.30	0.00	192.82	0.09	193.34	0.15	193.86	3.55
192.31	0.00	192.83	0.09	193.35	0.15	193.87	3.68
192.32	0.00	192.84	0.10	193.36	0.15	193.88	3.80
192.33	0.00	192.85	0.10	193.37	0.15	193.89	3.93
192.34	0.00	192.86	0.10	193.38	0.15	193.90	4.05
192.35	0.00	192.87	0.10	193.39	0.15	193.91	4.18
192.36	0.00	192.88	0.10	193.40	0.16	193.92	4.31
192.37	0.00	192.89	0.10	193.41	0.16	193.93	4.44
192.38	0.00	192.90	0.10	193.42	0.16	193.94	4.57
192.39	0.00	192.91	0.10	193.43	0.16	193.95	4.71
192.40	0.00	192.92	0.11	193.44	0.16	193.96	4.84
192.41	0.00	192.93	0.11	193.45	0.16	193.97	4.98
192.42	0.00	192.94	0.11	193.46	0.17	193.98	5.11
192.43	0.00	192.95	0.11	193.47	0.20	193.99	5.25
192.44	0.00	192.96	0.11	193.48	0.23	194.00	5.39
192.45	0.00	192.97	0.11	193.49	0.27	194.01	5.53
192.46	0.01	192.98	0.11	193.50	0.31	194.02	5.67
192.47	0.01	192.99	0.11	193.51	0.36	194.03	5.81
192.48	0.01	193.00	0.12	193.52	0.41	194.04	5.96
192.49	0.01	193.01	0.12	193.53	0.46	194.05	6.10
192.50	0.02	193.02	0.12	193.54	0.52	194.06	6.25
192.51	0.02	193.03	0.12	193.55	0.58	194.07	6.39

Stage-Discharge for Pond B-14: Basin #14 (continued)

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
194.08	6.54	194.60	21.80
194.09	6.69	194.61	22.54
194.10	6.84	194.62	23.29
194.11	6.99	194.63	24.07
194.12	7.14	194.64	24.88
194.13	7.29	194.65	25.74
194.14	7.45	194.66	26.62
194.15	7.60	194.67	27.53
194.16	7.76	194.68	28.47
194.17	7.92	194.69	29.43
194.18	8.07	194.70	30.42
194.19	8.23	194.71	31.43
194.20	8.39	194.72	32.47
194.21	8.55	194.73	33.53
194.22	8.71	194.74	34.62
194.23	8.87	194.75	35.73
194.24	9.04	194.76	36.86
194.25	9.20	194.77	38.02
194.26	9.37	194.78	39.21
194.27	9.53	194.79	40.41
194.28	9.70	194.80	41.65
194.29	9.87	194.81	42.90
194.30	10.03	194.82	44.18
194.31	10.20	194.83	45.49
194.32	10.37	194.84	46.82
194.33	10.54	194.85	48.20
194.34	10.72	194.86	49.60
194.35	10.89	194.87	51.03
194.36	11.06	194.88	52.49
194.37	11.24	194.89	53.97
194.38	11.41	194.90	55.48
194.39	11.59	194.91	57.02
194.40	11.76	194.92	58.58
194.41	11.94	194.93	60.17
194.42	12.12	194.94	61.79
194.43	12.30	194.95	63.43
194.44	12.47	194.96	65.10
194.45	12.77	194.97	66.79
194.46	13.17	194.98	68.51
194.47	13.63	194.99	70.26
194.48	14.14	195.00	72.04
194.49	14.69		
194.50	15.29		
194.51	15.92		
194.52	16.59		
194.53	17.29		
194.54	17.89		
194.55	18.48		
194.56	19.09		
194.57	19.73		
194.58	20.40		
194.59	21.09		

Stage-Area-Storage for Pond B-14: Basin #14

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
192.00	7,240	0	192.52	7,538	3,842
192.01	7,246	72	192.53	7,544	3,918
192.02	7,251	145	192.54	7,550	3,993
192.03	7,257	217	192.55	7,556	4,069
192.04	7,263	290	192.56	7,561	4,144
192.05	7,269	363	192.57	7,567	4,220
192.06	7,274	435	192.58	7,573	4,296
192.07	7,280	508	192.59	7,579	4,372
192.08	7,286	581	192.60	7,584	4,447
192.09	7,292	654	192.61	7,590	4,523
192.10	7,297	727	192.62	7,596	4,599
192.11	7,303	800	192.63	7,602	4,675
192.12	7,309	873	192.64	7,607	4,751
192.13	7,315	946	192.65	7,613	4,827
192.14	7,320	1,019	192.66	7,619	4,903
192.15	7,326	1,092	192.67	7,625	4,980
192.16	7,332	1,166	192.68	7,630	5,056
192.17	7,338	1,239	192.69	7,636	5,132
192.18	7,343	1,312	192.70	7,642	5,209
192.19	7,349	1,386	192.71	7,648	5,285
192.20	7,355	1,459	192.72	7,653	5,362
192.21	7,361	1,533	192.73	7,659	5,438
192.22	7,366	1,607	192.74	7,665	5,515
192.23	7,372	1,680	192.75	7,671	5,591
192.24	7,378	1,754	192.76	7,676	5,668
192.25	7,384	1,828	192.77	7,682	5,745
192.26	7,389	1,902	192.78	7,688	5,822
192.27	7,395	1,976	192.79	7,693	5,899
192.28	7,401	2,050	192.80	7,699	5,976
192.29	7,406	2,124	192.81	7,705	6,053
192.30	7,412	2,198	192.82	7,711	6,130
192.31	7,418	2,272	192.83	7,716	6,207
192.32	7,424	2,346	192.84	7,722	6,284
192.33	7,429	2,420	192.85	7,728	6,361
192.34	7,435	2,495	192.86	7,734	6,439
192.35	7,441	2,569	192.87	7,739	6,516
192.36	7,447	2,644	192.88	7,745	6,593
192.37	7,452	2,718	192.89	7,751	6,671
192.38	7,458	2,793	192.90	7,757	6,748
192.39	7,464	2,867	192.91	7,762	6,826
192.40	7,470	2,942	192.92	7,768	6,904
192.41	7,475	3,017	192.93	7,774	6,981
192.42	7,481	3,091	192.94	7,780	7,059
192.43	7,487	3,166	192.95	7,785	7,137
192.44	7,493	3,241	192.96	7,791	7,215
192.45	7,498	3,316	192.97	7,797	7,293
192.46	7,504	3,391	192.98	7,803	7,371
192.47	7,510	3,466	192.99	7,808	7,449
192.48	7,516	3,541	193.00	7,814	7,527
192.49	7,521	3,617	193.01	7,820	7,605
192.50	7,527	3,692	193.02	7,826	7,683
192.51	7,533	3,767	193.03	7,832	7,762

Stage-Area-Storage for Pond B-14: Basin #14 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
193.04	7,838	7,840	193.56	8,145	11,996
193.05	7,844	7,918	193.57	8,151	12,077
193.06	7,849	7,997	193.58	8,157	12,159
193.07	7,855	8,075	193.59	8,163	12,240
193.08	7,861	8,154	193.60	8,169	12,322
193.09	7,867	8,233	193.61	8,175	12,403
193.10	7,873	8,311	193.62	8,180	12,485
193.11	7,879	8,390	193.63	8,186	12,567
193.12	7,885	8,469	193.64	8,192	12,649
193.13	7,891	8,548	193.65	8,198	12,731
193.14	7,897	8,627	193.66	8,204	12,813
193.15	7,903	8,706	193.67	8,210	12,895
193.16	7,909	8,785	193.68	8,216	12,977
193.17	7,914	8,864	193.69	8,222	13,059
193.18	7,920	8,943	193.70	8,228	13,142
193.19	7,926	9,022	193.71	8,234	13,224
193.20	7,932	9,102	193.72	8,240	13,306
193.21	7,938	9,181	193.73	8,245	13,389
193.22	7,944	9,260	193.74	8,251	13,471
193.23	7,950	9,340	193.75	8,257	13,554
193.24	7,956	9,419	193.76	8,263	13,636
193.25	7,962	9,499	193.77	8,269	13,719
193.26	7,968	9,579	193.78	8,275	13,802
193.27	7,974	9,658	193.79	8,281	13,884
193.28	7,979	9,738	193.80	8,287	13,967
193.29	7,985	9,818	193.81	8,293	14,050
193.30	7,991	9,898	193.82	8,299	14,133
193.31	7,997	9,978	193.83	8,305	14,216
193.32	8,003	10,058	193.84	8,310	14,299
193.33	8,009	10,138	193.85	8,316	14,382
193.34	8,015	10,218	193.86	8,322	14,466
193.35	8,021	10,298	193.87	8,328	14,549
193.36	8,027	10,378	193.88	8,334	14,632
193.37	8,033	10,459	193.89	8,340	14,716
193.38	8,039	10,539	193.90	8,346	14,799
193.39	8,044	10,619	193.91	8,352	14,882
193.40	8,050	10,700	193.92	8,358	14,966
193.41	8,056	10,780	193.93	8,364	15,050
193.42	8,062	10,861	193.94	8,370	15,133
193.43	8,068	10,942	193.95	8,375	15,217
193.44	8,074	11,022	193.96	8,381	15,301
193.45	8,080	11,103	193.97	8,387	15,385
193.46	8,086	11,184	193.98	8,393	15,469
193.47	8,092	11,265	193.99	8,399	15,552
193.48	8,098	11,346	194.00	8,405	15,637
193.49	8,104	11,427	194.01	8,411	15,721
193.50	8,110	11,508	194.02	8,417	15,805
193.51	8,115	11,589	194.03	8,423	15,889
193.52	8,121	11,670	194.04	8,429	15,973
193.53	8,127	11,751	194.05	8,435	16,058
193.54	8,133	11,833	194.06	8,441	16,142
193.55	8,139	11,914	194.07	8,447	16,226

Stage-Area-Storage for Pond B-14: Basin #14 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
194.08	8,454	16,311	194.60	8,769	20,789
194.09	8,460	16,395	194.61	8,775	20,876
194.10	8,466	16,480	194.62	8,781	20,964
194.11	8,472	16,565	194.63	8,787	21,052
194.12	8,478	16,649	194.64	8,793	21,140
194.13	8,484	16,734	194.65	8,800	21,228
194.14	8,490	16,819	194.66	8,806	21,316
194.15	8,496	16,904	194.67	8,812	21,404
194.16	8,502	16,989	194.68	8,818	21,492
194.17	8,508	17,074	194.69	8,824	21,580
194.18	8,514	17,159	194.70	8,830	21,669
194.19	8,520	17,244	194.71	8,836	21,757
194.20	8,526	17,330	194.72	8,842	21,845
194.21	8,532	17,415	194.73	8,848	21,934
194.22	8,539	17,500	194.74	8,854	22,022
194.23	8,545	17,586	194.75	8,860	22,111
194.24	8,551	17,671	194.76	8,866	22,200
194.25	8,557	17,757	194.77	8,872	22,288
194.26	8,563	17,842	194.78	8,878	22,377
194.27	8,569	17,928	194.79	8,885	22,466
194.28	8,575	18,014	194.80	8,891	22,555
194.29	8,581	18,099	194.81	8,897	22,644
194.30	8,587	18,185	194.82	8,903	22,733
194.31	8,593	18,271	194.83	8,909	22,822
194.32	8,599	18,357	194.84	8,915	22,911
194.33	8,605	18,443	194.85	8,921	23,000
194.34	8,611	18,529	194.86	8,927	23,089
194.35	8,617	18,615	194.87	8,933	23,179
194.36	8,624	18,702	194.88	8,939	23,268
194.37	8,630	18,788	194.89	8,945	23,357
194.38	8,636	18,874	194.90	8,951	23,447
194.39	8,642	18,961	194.91	8,957	23,536
194.40	8,648	19,047	194.92	8,963	23,626
194.41	8,654	19,134	194.93	8,970	23,716
194.42	8,660	19,220	194.94	8,976	23,805
194.43	8,666	19,307	194.95	8,982	23,895
194.44	8,672	19,393	194.96	8,988	23,985
194.45	8,678	19,480	194.97	8,994	24,075
194.46	8,684	19,567	194.98	9,000	24,165
194.47	8,690	19,654	194.99	9,006	24,255
194.48	8,696	19,741	195.00	9,012	24,345
194.49	8,702	19,828			
194.50	8,709	19,915			
194.51	8,715	20,002			
194.52	8,721	20,089			
194.53	8,727	20,176			
194.54	8,733	20,264			
194.55	8,739	20,351			
194.56	8,745	20,438			
194.57	8,751	20,526			
194.58	8,757	20,613			
194.59	8,763	20,701			

Summary for Pond B-15: Basin #15

Inflow Area = 2.365 ac, 58.73% Impervious, Inflow Depth = 2.74" for Future 2 yr event
 Inflow = 6.43 cfs @ 12.17 hrs, Volume= 0.539 af
 Outflow = 1.89 cfs @ 12.49 hrs, Volume= 0.412 af, Atten= 71%, Lag= 19.0 min
 Primary = 1.89 cfs @ 12.49 hrs, Volume= 0.412 af
 Routed to Link PDA-1 : Proposed Drainage Area #1

Routing by Stor-Ind method, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 Peak Elev= 198.73' @ 12.49 hrs Surf.Area= 5,222 sf Storage= 12,120 cf

Plug-Flow detention time= 242.2 min calculated for 0.411 af (76% of inflow)
 Center-of-Mass det. time= 153.7 min (933.8 - 780.0)

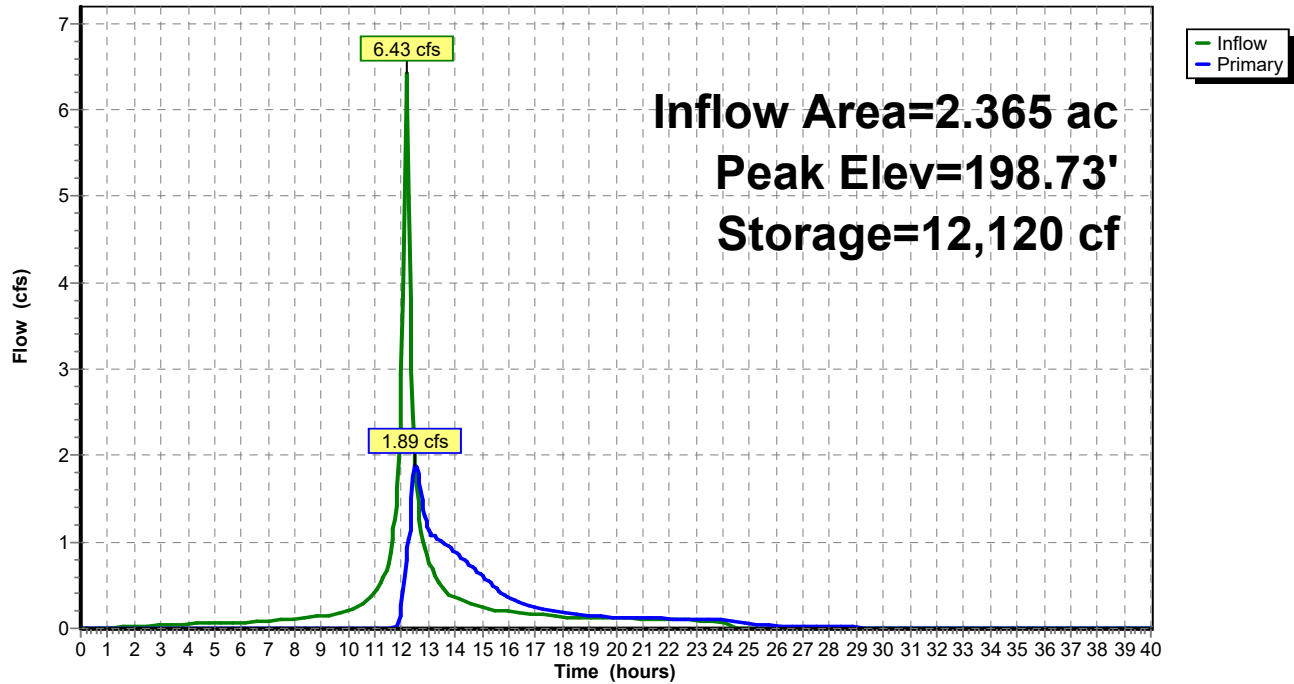
Volume	Invert	Avail.Storage	Storage Description
#1	196.00'	19,269 cf	Custom Stage Data (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
196.00	3,706	0	0
197.00	4,236	3,971	3,971
198.00	4,795	4,516	8,487
199.00	5,384	5,090	13,576
200.00	6,002	5,693	19,269

Device	Routing	Invert	Outlet Devices
#1	Primary	194.65'	18.0" Round Culvert L= 203.0' Ke= 0.500 Inlet / Outlet Invert= 194.65' / 192.00' S= 0.0131 '/' Cc= 0.900 n= 0.013, Flow Area= 1.77 sf
#2	Device 1	197.35'	6.5" Vert. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#3	Device 1	198.58'	4.0' long Sharp-Crested Rectangular Weir 2 End Contraction(s)
#4	Primary	199.99'	50.0' long + 3.0 '/' SideZ x 5.0' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 Coef. (English) 2.34 2.50 2.70 2.68 2.68 2.66 2.65 2.65 2.65 2.65 2.67 2.66 2.68 2.70 2.74 2.79 2.88

Primary OutFlow Max=1.88 cfs @ 12.49 hrs HW=198.72' (Free Discharge)

1=Culvert (Passes 1.88 cfs of 14.20 cfs potential flow)
 2=Orifice/Grate (Orifice Controls 1.17 cfs @ 5.06 fps)
 3=Sharp-Crested Rectangular Weir (Weir Controls 0.72 cfs @ 1.24 fps)
 4=Broad-Crested Rectangular Weir (Controls 0.00 cfs)

Pond B-15: Basin #15**Hydrograph**

Stage-Discharge for Pond B-15: Basin #15

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
196.00	0.00	196.52	0.00	197.04	0.00	197.56	0.13
196.01	0.00	196.53	0.00	197.05	0.00	197.57	0.14
196.02	0.00	196.54	0.00	197.06	0.00	197.58	0.15
196.03	0.00	196.55	0.00	197.07	0.00	197.59	0.16
196.04	0.00	196.56	0.00	197.08	0.00	197.60	0.18
196.05	0.00	196.57	0.00	197.09	0.00	197.61	0.19
196.06	0.00	196.58	0.00	197.10	0.00	197.62	0.20
196.07	0.00	196.59	0.00	197.11	0.00	197.63	0.22
196.08	0.00	196.60	0.00	197.12	0.00	197.64	0.23
196.09	0.00	196.61	0.00	197.13	0.00	197.65	0.24
196.10	0.00	196.62	0.00	197.14	0.00	197.66	0.26
196.11	0.00	196.63	0.00	197.15	0.00	197.67	0.27
196.12	0.00	196.64	0.00	197.16	0.00	197.68	0.29
196.13	0.00	196.65	0.00	197.17	0.00	197.69	0.30
196.14	0.00	196.66	0.00	197.18	0.00	197.70	0.32
196.15	0.00	196.67	0.00	197.19	0.00	197.71	0.33
196.16	0.00	196.68	0.00	197.20	0.00	197.72	0.35
196.17	0.00	196.69	0.00	197.21	0.00	197.73	0.36
196.18	0.00	196.70	0.00	197.22	0.00	197.74	0.38
196.19	0.00	196.71	0.00	197.23	0.00	197.75	0.39
196.20	0.00	196.72	0.00	197.24	0.00	197.76	0.41
196.21	0.00	196.73	0.00	197.25	0.00	197.77	0.42
196.22	0.00	196.74	0.00	197.26	0.00	197.78	0.44
196.23	0.00	196.75	0.00	197.27	0.00	197.79	0.45
196.24	0.00	196.76	0.00	197.28	0.00	197.80	0.47
196.25	0.00	196.77	0.00	197.29	0.00	197.81	0.48
196.26	0.00	196.78	0.00	197.30	0.00	197.82	0.50
196.27	0.00	196.79	0.00	197.31	0.00	197.83	0.51
196.28	0.00	196.80	0.00	197.32	0.00	197.84	0.52
196.29	0.00	196.81	0.00	197.33	0.00	197.85	0.54
196.30	0.00	196.82	0.00	197.34	0.00	197.86	0.55
196.31	0.00	196.83	0.00	197.35	0.00	197.87	0.56
196.32	0.00	196.84	0.00	197.36	0.00	197.88	0.57
196.33	0.00	196.85	0.00	197.37	0.00	197.89	0.58
196.34	0.00	196.86	0.00	197.38	0.00	197.90	0.59
196.35	0.00	196.87	0.00	197.39	0.01	197.91	0.60
196.36	0.00	196.88	0.00	197.40	0.01	197.92	0.61
196.37	0.00	196.89	0.00	197.41	0.01	197.93	0.62
196.38	0.00	196.90	0.00	197.42	0.02	197.94	0.63
196.39	0.00	196.91	0.00	197.43	0.02	197.95	0.64
196.40	0.00	196.92	0.00	197.44	0.03	197.96	0.65
196.41	0.00	196.93	0.00	197.45	0.03	197.97	0.66
196.42	0.00	196.94	0.00	197.46	0.04	197.98	0.66
196.43	0.00	196.95	0.00	197.47	0.04	197.99	0.67
196.44	0.00	196.96	0.00	197.48	0.05	198.00	0.68
196.45	0.00	196.97	0.00	197.49	0.06	198.01	0.69
196.46	0.00	196.98	0.00	197.50	0.07	198.02	0.70
196.47	0.00	196.99	0.00	197.51	0.08	198.03	0.71
196.48	0.00	197.00	0.00	197.52	0.09	198.04	0.72
196.49	0.00	197.01	0.00	197.53	0.10	198.05	0.73
196.50	0.00	197.02	0.00	197.54	0.11	198.06	0.74
196.51	0.00	197.03	0.00	197.55	0.12	198.07	0.74

Stage-Discharge for Pond B-15: Basin #15 (continued)

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
198.08	0.75	198.60	1.13	199.12	6.41	199.64	15.09
198.09	0.76	198.61	1.17	199.13	6.55	199.65	15.28
198.10	0.77	198.62	1.21	199.14	6.70	199.66	15.42
198.11	0.78	198.63	1.26	199.15	6.84	199.67	15.43
198.12	0.78	198.64	1.31	199.16	6.99	199.68	15.44
198.13	0.79	198.65	1.37	199.17	7.13	199.69	15.45
198.14	0.80	198.66	1.43	199.18	7.28	199.70	15.47
198.15	0.81	198.67	1.49	199.19	7.43	199.71	15.48
198.16	0.81	198.68	1.55	199.20	7.58	199.72	15.49
198.17	0.82	198.69	1.62	199.21	7.73	199.73	15.50
198.18	0.83	198.70	1.69	199.22	7.89	199.74	15.52
198.19	0.84	198.71	1.77	199.23	8.04	199.75	15.53
198.20	0.84	198.72	1.84	199.24	8.19	199.76	15.54
198.21	0.85	198.73	1.92	199.25	8.35	199.77	15.55
198.22	0.86	198.74	2.00	199.26	8.51	199.78	15.57
198.23	0.87	198.75	2.09	199.27	8.66	199.79	15.58
198.24	0.87	198.76	2.17	199.28	8.82	199.80	15.59
198.25	0.88	198.77	2.26	199.29	8.98	199.81	15.60
198.26	0.89	198.78	2.35	199.30	9.14	199.82	15.62
198.27	0.89	198.79	2.45	199.31	9.30	199.83	15.63
198.28	0.90	198.80	2.54	199.32	9.46	199.84	15.64
198.29	0.91	198.81	2.64	199.33	9.63	199.85	15.65
198.30	0.91	198.82	2.73	199.34	9.79	199.86	15.66
198.31	0.92	198.83	2.83	199.35	9.96	199.87	15.68
198.32	0.93	198.84	2.94	199.36	10.12	199.88	15.69
198.33	0.93	198.85	3.04	199.37	10.29	199.89	15.70
198.34	0.94	198.86	3.15	199.38	10.46	199.90	15.71
198.35	0.95	198.87	3.25	199.39	10.62	199.91	15.73
198.36	0.95	198.88	3.36	199.40	10.79	199.92	15.74
198.37	0.96	198.89	3.47	199.41	10.96	199.93	15.75
198.38	0.97	198.90	3.58	199.42	11.14	199.94	15.76
198.39	0.97	198.91	3.70	199.43	11.31	199.95	15.78
198.40	0.98	198.92	3.81	199.44	11.48	199.96	15.79
198.41	0.99	198.93	3.93	199.45	11.65	199.97	15.80
198.42	0.99	198.94	4.05	199.46	11.83	199.98	15.81
198.43	1.00	198.95	4.17	199.47	12.00	199.99	15.82
198.44	1.00	198.96	4.29	199.48	12.18	200.00	15.95
198.45	1.01	198.97	4.41	199.49	12.35		
198.46	1.02	198.98	4.54	199.50	12.53		
198.47	1.02	198.99	4.66	199.51	12.71		
198.48	1.03	199.00	4.79	199.52	12.89		
198.49	1.03	199.01	4.92	199.53	13.07		
198.50	1.04	199.02	5.05	199.54	13.25		
198.51	1.05	199.03	5.18	199.55	13.43		
198.52	1.05	199.04	5.31	199.56	13.61		
198.53	1.06	199.05	5.44	199.57	13.80		
198.54	1.06	199.06	5.58	199.58	13.98		
198.55	1.07	199.07	5.71	199.59	14.16		
198.56	1.08	199.08	5.85	199.60	14.35		
198.57	1.08	199.09	5.99	199.61	14.53		
198.58	1.09	199.10	6.13	199.62	14.72		
198.59	1.11	199.11	6.27	199.63	14.91		

Stage-Area-Storage for Pond B-15: Basin #15

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
196.00	3,706	0	196.52	3,982	1,999
196.01	3,711	37	196.53	3,987	2,039
196.02	3,717	74	196.54	3,992	2,079
196.03	3,722	111	196.55	3,998	2,118
196.04	3,727	149	196.56	4,003	2,158
196.05	3,733	186	196.57	4,008	2,199
196.06	3,738	223	196.58	4,013	2,239
196.07	3,743	261	196.59	4,019	2,279
196.08	3,748	298	196.60	4,024	2,319
196.09	3,754	336	196.61	4,029	2,359
196.10	3,759	373	196.62	4,035	2,400
196.11	3,764	411	196.63	4,040	2,440
196.12	3,770	449	196.64	4,045	2,480
196.13	3,775	486	196.65	4,051	2,521
196.14	3,780	524	196.66	4,056	2,561
196.15	3,786	562	196.67	4,061	2,602
196.16	3,791	600	196.68	4,066	2,643
196.17	3,796	638	196.69	4,072	2,683
196.18	3,801	676	196.70	4,077	2,724
196.19	3,807	714	196.71	4,082	2,765
196.20	3,812	752	196.72	4,088	2,806
196.21	3,817	790	196.73	4,093	2,847
196.22	3,823	828	196.74	4,098	2,888
196.23	3,828	866	196.75	4,104	2,929
196.24	3,833	905	196.76	4,109	2,970
196.25	3,839	943	196.77	4,114	3,011
196.26	3,844	981	196.78	4,119	3,052
196.27	3,849	1,020	196.79	4,125	3,093
196.28	3,854	1,058	196.80	4,130	3,134
196.29	3,860	1,097	196.81	4,135	3,176
196.30	3,865	1,136	196.82	4,141	3,217
196.31	3,870	1,174	196.83	4,146	3,259
196.32	3,876	1,213	196.84	4,151	3,300
196.33	3,881	1,252	196.85	4,156	3,342
196.34	3,886	1,291	196.86	4,162	3,383
196.35	3,891	1,330	196.87	4,167	3,425
196.36	3,897	1,369	196.88	4,172	3,466
196.37	3,902	1,407	196.89	4,178	3,508
196.38	3,907	1,447	196.90	4,183	3,550
196.39	3,913	1,486	196.91	4,188	3,592
196.40	3,918	1,525	196.92	4,194	3,634
196.41	3,923	1,564	196.93	4,199	3,676
196.42	3,929	1,603	196.94	4,204	3,718
196.43	3,934	1,643	196.95	4,209	3,760
196.44	3,939	1,682	196.96	4,215	3,802
196.45	3,944	1,721	196.97	4,220	3,844
196.46	3,950	1,761	196.98	4,225	3,886
196.47	3,955	1,800	196.99	4,231	3,929
196.48	3,960	1,840	197.00	4,236	3,971
196.49	3,966	1,880	197.01	4,242	4,013
196.50	3,971	1,919	197.02	4,247	4,056
196.51	3,976	1,959	197.03	4,253	4,098

Stage-Area-Storage for Pond B-15: Basin #15 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
197.04	4,258	4,141	197.56	4,549	6,431
197.05	4,264	4,183	197.57	4,555	6,476
197.06	4,270	4,226	197.58	4,560	6,522
197.07	4,275	4,269	197.59	4,566	6,568
197.08	4,281	4,312	197.60	4,571	6,613
197.09	4,286	4,355	197.61	4,577	6,659
197.10	4,292	4,397	197.62	4,583	6,705
197.11	4,297	4,440	197.63	4,588	6,751
197.12	4,303	4,483	197.64	4,594	6,797
197.13	4,309	4,526	197.65	4,599	6,842
197.14	4,314	4,570	197.66	4,605	6,889
197.15	4,320	4,613	197.67	4,611	6,935
197.16	4,325	4,656	197.68	4,616	6,981
197.17	4,331	4,699	197.69	4,622	7,027
197.18	4,337	4,743	197.70	4,627	7,073
197.19	4,342	4,786	197.71	4,633	7,119
197.20	4,348	4,829	197.72	4,638	7,166
197.21	4,353	4,873	197.73	4,644	7,212
197.22	4,359	4,916	197.74	4,650	7,259
197.23	4,365	4,960	197.75	4,655	7,305
197.24	4,370	5,004	197.76	4,661	7,352
197.25	4,376	5,047	197.77	4,666	7,398
197.26	4,381	5,091	197.78	4,672	7,445
197.27	4,387	5,135	197.79	4,678	7,492
197.28	4,393	5,179	197.80	4,683	7,539
197.29	4,398	5,223	197.81	4,689	7,586
197.30	4,404	5,267	197.82	4,694	7,632
197.31	4,409	5,311	197.83	4,700	7,679
197.32	4,415	5,355	197.84	4,706	7,726
197.33	4,420	5,399	197.85	4,711	7,774
197.34	4,426	5,444	197.86	4,717	7,821
197.35	4,432	5,488	197.87	4,722	7,868
197.36	4,437	5,532	197.88	4,728	7,915
197.37	4,443	5,577	197.89	4,734	7,962
197.38	4,448	5,621	197.90	4,739	8,010
197.39	4,454	5,666	197.91	4,745	8,057
197.40	4,460	5,710	197.92	4,750	8,105
197.41	4,465	5,755	197.93	4,756	8,152
197.42	4,471	5,799	197.94	4,761	8,200
197.43	4,476	5,844	197.95	4,767	8,247
197.44	4,482	5,889	197.96	4,773	8,295
197.45	4,488	5,934	197.97	4,778	8,343
197.46	4,493	5,979	197.98	4,784	8,391
197.47	4,499	6,024	197.99	4,789	8,439
197.48	4,504	6,069	198.00	4,795	8,487
197.49	4,510	6,114	198.01	4,801	8,534
197.50	4,516	6,159	198.02	4,807	8,583
197.51	4,521	6,204	198.03	4,813	8,631
197.52	4,527	6,249	198.04	4,819	8,679
197.53	4,532	6,295	198.05	4,824	8,727
197.54	4,538	6,340	198.06	4,830	8,775
197.55	4,543	6,385	198.07	4,836	8,824

Stage-Area-Storage for Pond B-15: Basin #15 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
198.08	4,842	8,872	198.60	5,148	11,470
198.09	4,848	8,920	198.61	5,154	11,521
198.10	4,854	8,969	198.62	5,160	11,573
198.11	4,860	9,018	198.63	5,166	11,624
198.12	4,866	9,066	198.64	5,172	11,676
198.13	4,872	9,115	198.65	5,178	11,728
198.14	4,877	9,164	198.66	5,184	11,779
198.15	4,883	9,212	198.67	5,190	11,831
198.16	4,889	9,261	198.68	5,196	11,883
198.17	4,895	9,310	198.69	5,201	11,935
198.18	4,901	9,359	198.70	5,207	11,987
198.19	4,907	9,408	198.71	5,213	12,039
198.20	4,913	9,457	198.72	5,219	12,092
198.21	4,919	9,506	198.73	5,225	12,144
198.22	4,925	9,556	198.74	5,231	12,196
198.23	4,930	9,605	198.75	5,237	12,248
198.24	4,936	9,654	198.76	5,243	12,301
198.25	4,942	9,704	198.77	5,249	12,353
198.26	4,948	9,753	198.78	5,254	12,406
198.27	4,954	9,803	198.79	5,260	12,458
198.28	4,960	9,852	198.80	5,266	12,511
198.29	4,966	9,902	198.81	5,272	12,564
198.30	4,972	9,952	198.82	5,278	12,616
198.31	4,978	10,001	198.83	5,284	12,669
198.32	4,983	10,051	198.84	5,290	12,722
198.33	4,989	10,101	198.85	5,296	12,775
198.34	4,995	10,151	198.86	5,302	12,828
198.35	5,001	10,201	198.87	5,307	12,881
198.36	5,007	10,251	198.88	5,313	12,934
198.37	5,013	10,301	198.89	5,319	12,987
198.38	5,019	10,351	198.90	5,325	13,041
198.39	5,025	10,401	198.91	5,331	13,094
198.40	5,031	10,452	198.92	5,337	13,147
198.41	5,036	10,502	198.93	5,343	13,201
198.42	5,042	10,552	198.94	5,349	13,254
198.43	5,048	10,603	198.95	5,355	13,308
198.44	5,054	10,653	198.96	5,360	13,361
198.45	5,060	10,704	198.97	5,366	13,415
198.46	5,066	10,755	198.98	5,372	13,468
198.47	5,072	10,805	198.99	5,378	13,522
198.48	5,078	10,856	199.00	5,384	13,576
198.49	5,084	10,907	199.01	5,390	13,630
198.50	5,090	10,958	199.02	5,396	13,684
198.51	5,095	11,009	199.03	5,403	13,738
198.52	5,101	11,060	199.04	5,409	13,792
198.53	5,107	11,111	199.05	5,415	13,846
198.54	5,113	11,162	199.06	5,421	13,900
198.55	5,119	11,213	199.07	5,427	13,954
198.56	5,125	11,264	199.08	5,433	14,009
198.57	5,131	11,315	199.09	5,440	14,063
198.58	5,137	11,367	199.10	5,446	14,117
198.59	5,143	11,418	199.11	5,452	14,172

Stage-Area-Storage for Pond B-15: Basin #15 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
199.12	5,458	14,227	199.64	5,780	17,148
199.13	5,464	14,281	199.65	5,786	17,206
199.14	5,471	14,336	199.66	5,792	17,264
199.15	5,477	14,391	199.67	5,798	17,322
199.16	5,483	14,445	199.68	5,804	17,380
199.17	5,489	14,500	199.69	5,810	17,438
199.18	5,495	14,555	199.70	5,817	17,496
199.19	5,501	14,610	199.71	5,823	17,554
199.20	5,508	14,665	199.72	5,829	17,613
199.21	5,514	14,720	199.73	5,835	17,671
199.22	5,520	14,775	199.74	5,841	17,729
199.23	5,526	14,831	199.75	5,848	17,788
199.24	5,532	14,886	199.76	5,854	17,846
199.25	5,539	14,941	199.77	5,860	17,905
199.26	5,545	14,997	199.78	5,866	17,964
199.27	5,551	15,052	199.79	5,872	18,022
199.28	5,557	15,108	199.80	5,878	18,081
199.29	5,563	15,163	199.81	5,885	18,140
199.30	5,569	15,219	199.82	5,891	18,199
199.31	5,576	15,275	199.83	5,897	18,258
199.32	5,582	15,331	199.84	5,903	18,317
199.33	5,588	15,386	199.85	5,909	18,376
199.34	5,594	15,442	199.86	5,915	18,435
199.35	5,600	15,498	199.87	5,922	18,494
199.36	5,606	15,554	199.88	5,928	18,553
199.37	5,613	15,610	199.89	5,934	18,613
199.38	5,619	15,667	199.90	5,940	18,672
199.39	5,625	15,723	199.91	5,946	18,731
199.40	5,631	15,779	199.92	5,953	18,791
199.41	5,637	15,835	199.93	5,959	18,850
199.42	5,644	15,892	199.94	5,965	18,910
199.43	5,650	15,948	199.95	5,971	18,970
199.44	5,656	16,005	199.96	5,977	19,029
199.45	5,662	16,061	199.97	5,983	19,089
199.46	5,668	16,118	199.98	5,990	19,149
199.47	5,674	16,175	199.99	5,996	19,209
199.48	5,681	16,232	200.00	6,002	19,269
199.49	5,687	16,288			
199.50	5,693	16,345			
199.51	5,699	16,402			
199.52	5,705	16,459			
199.53	5,712	16,516			
199.54	5,718	16,573			
199.55	5,724	16,631			
199.56	5,730	16,688			
199.57	5,736	16,745			
199.58	5,742	16,803			
199.59	5,749	16,860			
199.60	5,755	16,918			
199.61	5,761	16,975			
199.62	5,767	17,033			
199.63	5,773	17,091			

Summary for Pond B-16A: Basin #16A

Inflow Area = 1.876 ac, 45.47% Impervious, Inflow Depth = 2.45" for Future 2 yr event
 Inflow = 4.63 cfs @ 12.17 hrs, Volume= 0.384 af
 Outflow = 2.45 cfs @ 12.33 hrs, Volume= 0.305 af, Atten= 47%, Lag= 9.4 min
 Primary = 2.45 cfs @ 12.33 hrs, Volume= 0.305 af
 Routed to Link PDA-1 : Proposed Drainage Area #1

Routing by Stor-Ind method, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 Peak Elev= 179.91' @ 12.33 hrs Surf.Area= 3,991 sf Storage= 6,234 cf

Plug-Flow detention time= 167.1 min calculated for 0.305 af (79% of inflow)
 Center-of-Mass det. time= 81.7 min (872.4 - 790.7)

Volume	Invert	Avail.Storage	Storage Description
#1	178.00'	16,318 cf	Custom Stage Data (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
178.00	2,543	0	0
179.00	3,287	2,915	2,915
180.00	4,059	3,673	6,588
181.00	4,858	4,459	11,047
182.00	5,685	5,272	16,318

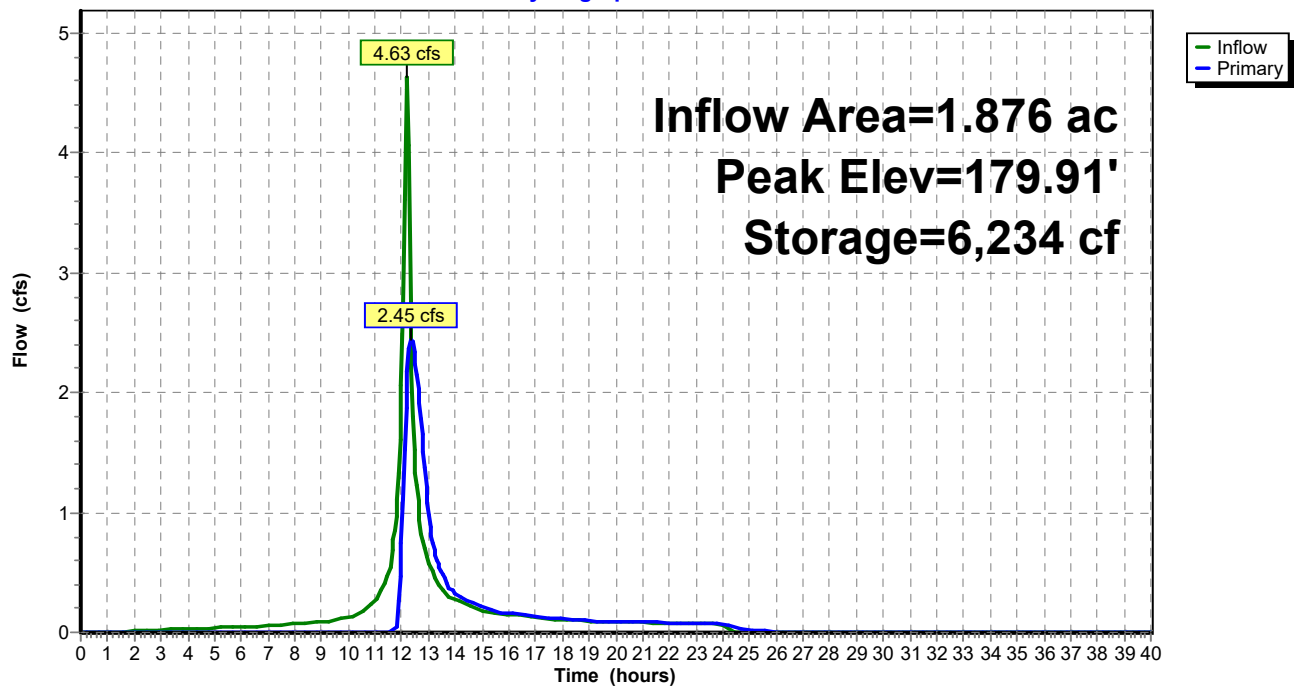
Device	Routing	Invert	Outlet Devices
#1	Primary	176.65'	18.0" Round Culvert L= 53.0' Ke= 0.500 Inlet / Outlet Invert= 176.65' / 172.00' S= 0.0877 ' S= 0.0877 ' Cc= 0.900 n= 0.013, Flow Area= 1.77 sf
#2	Device 1	179.16'	24.0" W x 4.0" H Vert. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#3	Device 1	179.91'	4.0' long Sharp-Crested Rectangular Weir 2 End Contraction(s)
#4	Primary	181.95'	50.0' long + 3.0 ' SideZ x 5.0' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 Coef. (English) 2.34 2.50 2.70 2.68 2.68 2.66 2.65 2.65 2.65 2.65 2.67 2.66 2.68 2.70 2.74 2.79 2.88

Primary OutFlow Max=2.44 cfs @ 12.33 hrs HW=179.91' (Free Discharge)

1=Culvert (Passes 2.44 cfs of 13.48 cfs potential flow)
 2=Orifice/Grate (Orifice Controls 2.44 cfs @ 3.66 fps)
 3=Sharp-Crested Rectangular Weir (Controls 0.00 cfs)
 4=Broad-Crested Rectangular Weir (Controls 0.00 cfs)

Pond B-16A: Basin #16A

Hydrograph



Stage-Discharge for Pond B-16A: Basin #16A

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
178.00	0.00	178.52	0.00	179.04	0.00	179.56	1.51
178.01	0.00	178.53	0.00	179.05	0.00	179.57	1.55
178.02	0.00	178.54	0.00	179.06	0.00	179.58	1.58
178.03	0.00	178.55	0.00	179.07	0.00	179.59	1.62
178.04	0.00	178.56	0.00	179.08	0.00	179.60	1.65
178.05	0.00	178.57	0.00	179.09	0.00	179.61	1.68
178.06	0.00	178.58	0.00	179.10	0.00	179.62	1.71
178.07	0.00	178.59	0.00	179.11	0.00	179.63	1.74
178.08	0.00	178.60	0.00	179.12	0.00	179.64	1.77
178.09	0.00	178.61	0.00	179.13	0.00	179.65	1.80
178.10	0.00	178.62	0.00	179.14	0.00	179.66	1.83
178.11	0.00	178.63	0.00	179.15	0.00	179.67	1.86
178.12	0.00	178.64	0.00	179.16	0.00	179.68	1.89
178.13	0.00	178.65	0.00	179.17	0.01	179.69	1.92
178.14	0.00	178.66	0.00	179.18	0.02	179.70	1.94
178.15	0.00	178.67	0.00	179.19	0.03	179.71	1.97
178.16	0.00	178.68	0.00	179.20	0.05	179.72	2.00
178.17	0.00	178.69	0.00	179.21	0.07	179.73	2.02
178.18	0.00	178.70	0.00	179.22	0.09	179.74	2.05
178.19	0.00	178.71	0.00	179.23	0.12	179.75	2.07
178.20	0.00	178.72	0.00	179.24	0.15	179.76	2.10
178.21	0.00	178.73	0.00	179.25	0.17	179.77	2.12
178.22	0.00	178.74	0.00	179.26	0.20	179.78	2.15
178.23	0.00	178.75	0.00	179.27	0.23	179.79	2.17
178.24	0.00	178.76	0.00	179.28	0.27	179.80	2.20
178.25	0.00	178.77	0.00	179.29	0.30	179.81	2.22
178.26	0.00	178.78	0.00	179.30	0.34	179.82	2.24
178.27	0.00	178.79	0.00	179.31	0.37	179.83	2.27
178.28	0.00	178.80	0.00	179.32	0.41	179.84	2.29
178.29	0.00	178.81	0.00	179.33	0.45	179.85	2.31
178.30	0.00	178.82	0.00	179.34	0.49	179.86	2.33
178.31	0.00	178.83	0.00	179.35	0.53	179.87	2.36
178.32	0.00	178.84	0.00	179.36	0.57	179.88	2.38
178.33	0.00	178.85	0.00	179.37	0.62	179.89	2.40
178.34	0.00	178.86	0.00	179.38	0.66	179.90	2.42
178.35	0.00	178.87	0.00	179.39	0.71	179.91	2.44
178.36	0.00	178.88	0.00	179.40	0.75	179.92	2.48
178.37	0.00	178.89	0.00	179.41	0.80	179.93	2.52
178.38	0.00	178.90	0.00	179.42	0.85	179.94	2.57
178.39	0.00	178.91	0.00	179.43	0.90	179.95	2.63
178.40	0.00	178.92	0.00	179.44	0.95	179.96	2.69
178.41	0.00	178.93	0.00	179.45	1.00	179.97	2.76
178.42	0.00	178.94	0.00	179.46	1.05	179.98	2.83
178.43	0.00	178.95	0.00	179.47	1.11	179.99	2.90
178.44	0.00	178.96	0.00	179.48	1.16	180.00	2.98
178.45	0.00	178.97	0.00	179.49	1.22	180.01	3.06
178.46	0.00	178.98	0.00	179.50	1.27	180.02	3.14
178.47	0.00	178.99	0.00	179.51	1.32	180.03	3.23
178.48	0.00	179.00	0.00	179.52	1.36	180.04	3.31
178.49	0.00	179.01	0.00	179.53	1.40	180.05	3.40
178.50	0.00	179.02	0.00	179.54	1.44	180.06	3.50
178.51	0.00	179.03	0.00	179.55	1.48	180.07	3.59

Stage-Discharge for Pond B-16A: Basin #16A (continued)

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
180.08	3.69	180.60	10.86	181.12	16.41	181.64	17.52
180.09	3.79	180.61	11.03	181.13	16.43	181.65	17.54
180.10	3.89	180.62	11.20	181.14	16.46	181.66	17.56
180.11	3.99	180.63	11.37	181.15	16.48	181.67	17.58
180.12	4.10	180.64	11.54	181.16	16.50	181.68	17.60
180.13	4.21	180.65	11.71	181.17	16.52	181.69	17.62
180.14	4.32	180.66	11.88	181.18	16.54	181.70	17.64
180.15	4.43	180.67	12.05	181.19	16.56	181.71	17.66
180.16	4.54	180.68	12.23	181.20	16.59	181.72	17.69
180.17	4.65	180.69	12.40	181.21	16.61	181.73	17.71
180.18	4.77	180.70	12.58	181.22	16.63	181.74	17.73
180.19	4.89	180.71	12.76	181.23	16.65	181.75	17.75
180.20	5.01	180.72	12.94	181.24	16.67	181.76	17.77
180.21	5.13	180.73	13.11	181.25	16.70	181.77	17.79
180.22	5.25	180.74	13.29	181.26	16.72	181.78	17.81
180.23	5.38	180.75	13.47	181.27	16.74	181.79	17.83
180.24	5.50	180.76	13.66	181.28	16.76	181.80	17.85
180.25	5.63	180.77	13.84	181.29	16.78	181.81	17.87
180.26	5.76	180.78	14.02	181.30	16.80	181.82	17.89
180.27	5.89	180.79	14.20	181.31	16.82	181.83	17.91
180.28	6.02	180.80	14.39	181.32	16.85	181.84	17.93
180.29	6.15	180.81	14.57	181.33	16.87	181.85	17.95
180.30	6.29	180.82	14.76	181.34	16.89	181.86	17.97
180.31	6.42	180.83	14.95	181.35	16.91	181.87	17.99
180.32	6.56	180.84	15.13	181.36	16.93	181.88	18.01
180.33	6.70	180.85	15.32	181.37	16.95	181.89	18.03
180.34	6.84	180.86	15.51	181.38	16.97	181.90	18.05
180.35	6.98	180.87	15.70	181.39	17.00	181.91	18.07
180.36	7.12	180.88	15.87	181.40	17.02	181.92	18.09
180.37	7.26	180.89	15.90	181.41	17.04	181.93	18.11
180.38	7.41	180.90	15.92	181.42	17.06	181.94	18.13
180.39	7.55	180.91	15.94	181.43	17.08	181.95	18.15
180.40	7.70	180.92	15.96	181.44	17.10	181.96	18.29
180.41	7.85	180.93	15.99	181.45	17.12	181.97	18.52
180.42	8.00	180.94	16.01	181.46	17.14	181.98	18.82
180.43	8.15	180.95	16.03	181.47	17.17	181.99	19.17
180.44	8.30	180.96	16.05	181.48	17.19	182.00	19.56
180.45	8.45	180.97	16.08	181.49	17.21		
180.46	8.60	180.98	16.10	181.50	17.23		
180.47	8.76	180.99	16.12	181.51	17.25		
180.48	8.91	181.00	16.14	181.52	17.27		
180.49	9.07	181.01	16.17	181.53	17.29		
180.50	9.23	181.02	16.19	181.54	17.31		
180.51	9.39	181.03	16.21	181.55	17.33		
180.52	9.55	181.04	16.23	181.56	17.35		
180.53	9.71	181.05	16.26	181.57	17.38		
180.54	9.87	181.06	16.28	181.58	17.40		
180.55	10.03	181.07	16.30	181.59	17.42		
180.56	10.19	181.08	16.32	181.60	17.44		
180.57	10.36	181.09	16.34	181.61	17.46		
180.58	10.52	181.10	16.37	181.62	17.48		
180.59	10.69	181.11	16.39	181.63	17.50		

Stage-Area-Storage for Pond B-16A: Basin #16A

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
178.00	2,543	0	178.52	2,930	1,423
178.01	2,550	25	178.53	2,937	1,452
178.02	2,558	51	178.54	2,945	1,482
178.03	2,565	77	178.55	2,952	1,511
178.04	2,573	102	178.56	2,960	1,541
178.05	2,580	128	178.57	2,967	1,570
178.06	2,588	154	178.58	2,975	1,600
178.07	2,595	180	178.59	2,982	1,630
178.08	2,603	206	178.60	2,989	1,660
178.09	2,610	232	178.61	2,997	1,690
178.10	2,617	258	178.62	3,004	1,720
178.11	2,625	284	178.63	3,012	1,750
178.12	2,632	311	178.64	3,019	1,780
178.13	2,640	337	178.65	3,027	1,810
178.14	2,647	363	178.66	3,034	1,840
178.15	2,655	390	178.67	3,041	1,871
178.16	2,662	416	178.68	3,049	1,901
178.17	2,669	443	178.69	3,056	1,932
178.18	2,677	470	178.70	3,064	1,962
178.19	2,684	497	178.71	3,071	1,993
178.20	2,692	523	178.72	3,079	2,024
178.21	2,699	550	178.73	3,086	2,055
178.22	2,707	577	178.74	3,094	2,086
178.23	2,714	605	178.75	3,101	2,117
178.24	2,722	632	178.76	3,108	2,148
178.25	2,729	659	178.77	3,116	2,179
178.26	2,736	686	178.78	3,123	2,210
178.27	2,744	714	178.79	3,131	2,241
178.28	2,751	741	178.80	3,138	2,272
178.29	2,759	769	178.81	3,146	2,304
178.30	2,766	796	178.82	3,153	2,335
178.31	2,774	824	178.83	3,161	2,367
178.32	2,781	852	178.84	3,168	2,399
178.33	2,789	880	178.85	3,175	2,430
178.34	2,796	908	178.86	3,183	2,462
178.35	2,803	936	178.87	3,190	2,494
178.36	2,811	964	178.88	3,198	2,526
178.37	2,818	992	178.89	3,205	2,558
178.38	2,826	1,020	178.90	3,213	2,590
178.39	2,833	1,048	178.91	3,220	2,622
178.40	2,841	1,077	178.92	3,227	2,654
178.41	2,848	1,105	178.93	3,235	2,687
178.42	2,855	1,134	178.94	3,242	2,719
178.43	2,863	1,162	178.95	3,250	2,752
178.44	2,870	1,191	178.96	3,257	2,784
178.45	2,878	1,220	178.97	3,265	2,817
178.46	2,885	1,248	178.98	3,272	2,849
178.47	2,893	1,277	178.99	3,280	2,882
178.48	2,900	1,306	179.00	3,287	2,915
178.49	2,908	1,335	179.01	3,295	2,948
178.50	2,915	1,365	179.02	3,302	2,981
178.51	2,922	1,394	179.03	3,310	3,014

Stage-Area-Storage for Pond B-16A: Basin #16A (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
179.04	3,318	3,047	179.56	3,719	4,877
179.05	3,326	3,080	179.57	3,727	4,914
179.06	3,333	3,114	179.58	3,735	4,951
179.07	3,341	3,147	179.59	3,742	4,989
179.08	3,349	3,180	179.60	3,750	5,026
179.09	3,356	3,214	179.61	3,758	5,064
179.10	3,364	3,248	179.62	3,766	5,101
179.11	3,372	3,281	179.63	3,773	5,139
179.12	3,380	3,315	179.64	3,781	5,177
179.13	3,387	3,349	179.65	3,789	5,215
179.14	3,395	3,383	179.66	3,797	5,253
179.15	3,403	3,417	179.67	3,804	5,291
179.16	3,411	3,451	179.68	3,812	5,329
179.17	3,418	3,485	179.69	3,820	5,367
179.18	3,426	3,519	179.70	3,827	5,405
179.19	3,434	3,553	179.71	3,835	5,443
179.20	3,441	3,588	179.72	3,843	5,482
179.21	3,449	3,622	179.73	3,851	5,520
179.22	3,457	3,657	179.74	3,858	5,559
179.23	3,465	3,691	179.75	3,866	5,597
179.24	3,472	3,726	179.76	3,874	5,636
179.25	3,480	3,761	179.77	3,881	5,675
179.26	3,488	3,796	179.78	3,889	5,714
179.27	3,495	3,831	179.79	3,897	5,753
179.28	3,503	3,866	179.80	3,905	5,792
179.29	3,511	3,901	179.81	3,912	5,831
179.30	3,519	3,936	179.82	3,920	5,870
179.31	3,526	3,971	179.83	3,928	5,909
179.32	3,534	4,006	179.84	3,935	5,948
179.33	3,542	4,042	179.85	3,943	5,988
179.34	3,549	4,077	179.86	3,951	6,027
179.35	3,557	4,113	179.87	3,959	6,067
179.36	3,565	4,148	179.88	3,966	6,106
179.37	3,573	4,184	179.89	3,974	6,146
179.38	3,580	4,220	179.90	3,982	6,186
179.39	3,588	4,256	179.91	3,990	6,226
179.40	3,596	4,292	179.92	3,997	6,266
179.41	3,604	4,328	179.93	4,005	6,306
179.42	3,611	4,364	179.94	4,013	6,346
179.43	3,619	4,400	179.95	4,020	6,386
179.44	3,627	4,436	179.96	4,028	6,426
179.45	3,634	4,472	179.97	4,036	6,467
179.46	3,642	4,509	179.98	4,044	6,507
179.47	3,650	4,545	179.99	4,051	6,547
179.48	3,658	4,582	180.00	4,059	6,588
179.49	3,665	4,618	180.01	4,067	6,629
179.50	3,673	4,655	180.02	4,075	6,669
179.51	3,681	4,692	180.03	4,083	6,710
179.52	3,688	4,729	180.04	4,091	6,751
179.53	3,696	4,766	180.05	4,099	6,792
179.54	3,704	4,803	180.06	4,107	6,833
179.55	3,712	4,840	180.07	4,115	6,874

Stage-Area-Storage for Pond B-16A: Basin #16A (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
180.08	4,123	6,915	180.60	4,538	9,167
180.09	4,131	6,957	180.61	4,546	9,213
180.10	4,139	6,998	180.62	4,554	9,258
180.11	4,147	7,039	180.63	4,562	9,304
180.12	4,155	7,081	180.64	4,570	9,349
180.13	4,163	7,122	180.65	4,578	9,395
180.14	4,171	7,164	180.66	4,586	9,441
180.15	4,179	7,206	180.67	4,594	9,487
180.16	4,187	7,248	180.68	4,602	9,533
180.17	4,195	7,290	180.69	4,610	9,579
180.18	4,203	7,332	180.70	4,618	9,625
180.19	4,211	7,374	180.71	4,626	9,671
180.20	4,219	7,416	180.72	4,634	9,718
180.21	4,227	7,458	180.73	4,642	9,764
180.22	4,235	7,500	180.74	4,650	9,810
180.23	4,243	7,543	180.75	4,658	9,857
180.24	4,251	7,585	180.76	4,666	9,904
180.25	4,259	7,628	180.77	4,674	9,950
180.26	4,267	7,670	180.78	4,682	9,997
180.27	4,275	7,713	180.79	4,690	10,044
180.28	4,283	7,756	180.80	4,698	10,091
180.29	4,291	7,799	180.81	4,706	10,138
180.30	4,299	7,842	180.82	4,714	10,185
180.31	4,307	7,885	180.83	4,722	10,232
180.32	4,315	7,928	180.84	4,730	10,279
180.33	4,323	7,971	180.85	4,738	10,327
180.34	4,331	8,014	180.86	4,746	10,374
180.35	4,339	8,058	180.87	4,754	10,422
180.36	4,347	8,101	180.88	4,762	10,469
180.37	4,355	8,145	180.89	4,770	10,517
180.38	4,363	8,188	180.90	4,778	10,565
180.39	4,371	8,232	180.91	4,786	10,613
180.40	4,379	8,276	180.92	4,794	10,660
180.41	4,387	8,319	180.93	4,802	10,708
180.42	4,395	8,363	180.94	4,810	10,756
180.43	4,403	8,407	180.95	4,818	10,805
180.44	4,411	8,451	180.96	4,826	10,853
180.45	4,419	8,495	180.97	4,834	10,901
180.46	4,427	8,540	180.98	4,842	10,949
180.47	4,435	8,584	180.99	4,850	10,998
180.48	4,443	8,628	181.00	4,858	11,047
180.49	4,451	8,673	181.01	4,866	11,095
180.50	4,459	8,717	181.02	4,875	11,144
180.51	4,466	8,762	181.03	4,883	11,193
180.52	4,474	8,807	181.04	4,891	11,241
180.53	4,482	8,851	181.05	4,899	11,290
180.54	4,490	8,896	181.06	4,908	11,339
180.55	4,498	8,941	181.07	4,916	11,389
180.56	4,506	8,986	181.08	4,924	11,438
180.57	4,514	9,031	181.09	4,932	11,487
180.58	4,522	9,077	181.10	4,941	11,536
180.59	4,530	9,122	181.11	4,949	11,586

Stage-Area-Storage for Pond B-16A: Basin #16A (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
181.12	4,957	11,635	181.64	5,387	14,325
181.13	4,966	11,685	181.65	5,396	14,379
181.14	4,974	11,735	181.66	5,404	14,433
181.15	4,982	11,785	181.67	5,412	14,487
181.16	4,990	11,834	181.68	5,420	14,541
181.17	4,999	11,884	181.69	5,429	14,595
181.18	5,007	11,934	181.70	5,437	14,650
181.19	5,015	11,984	181.71	5,445	14,704
181.20	5,023	12,035	181.72	5,453	14,759
181.21	5,032	12,085	181.73	5,462	14,813
181.22	5,040	12,135	181.74	5,470	14,868
181.23	5,048	12,186	181.75	5,478	14,923
181.24	5,056	12,236	181.76	5,487	14,977
181.25	5,065	12,287	181.77	5,495	15,032
181.26	5,073	12,338	181.78	5,503	15,087
181.27	5,081	12,388	181.79	5,511	15,142
181.28	5,090	12,439	181.80	5,520	15,198
181.29	5,098	12,490	181.81	5,528	15,253
181.30	5,106	12,541	181.82	5,536	15,308
181.31	5,114	12,592	181.83	5,544	15,364
181.32	5,123	12,643	181.84	5,553	15,419
181.33	5,131	12,695	181.85	5,561	15,475
181.34	5,139	12,746	181.86	5,569	15,530
181.35	5,147	12,797	181.87	5,577	15,586
181.36	5,156	12,849	181.88	5,586	15,642
181.37	5,164	12,901	181.89	5,594	15,698
181.38	5,172	12,952	181.90	5,602	15,754
181.39	5,181	13,004	181.91	5,611	15,810
181.40	5,189	13,056	181.92	5,619	15,866
181.41	5,197	13,108	181.93	5,627	15,922
181.42	5,205	13,160	181.94	5,635	15,978
181.43	5,214	13,212	181.95	5,644	16,035
181.44	5,222	13,264	181.96	5,652	16,091
181.45	5,230	13,316	181.97	5,660	16,148
181.46	5,238	13,369	181.98	5,668	16,204
181.47	5,247	13,421	181.99	5,677	16,261
181.48	5,255	13,474	182.00	5,685	16,318
181.49	5,263	13,526			
181.50	5,272	13,579			
181.51	5,280	13,632			
181.52	5,288	13,684			
181.53	5,296	13,737			
181.54	5,305	13,790			
181.55	5,313	13,843			
181.56	5,321	13,897			
181.57	5,329	13,950			
181.58	5,338	14,003			
181.59	5,346	14,057			
181.60	5,354	14,110			
181.61	5,362	14,164			
181.62	5,371	14,217			
181.63	5,379	14,271			

Summary for Pond B-16B: Basin #16B

Inflow Area = 1.877 ac, 43.74% Impervious, Inflow Depth = 2.42" for Future 2 yr event
 Inflow = 4.57 cfs @ 12.17 hrs, Volume= 0.378 af
 Outflow = 1.47 cfs @ 12.46 hrs, Volume= 0.299 af, Atten= 68%, Lag= 17.4 min
 Primary = 1.47 cfs @ 12.46 hrs, Volume= 0.299 af
 Routed to Link PDA-1 : Proposed Drainage Area #1

Routing by Stor-Ind method, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 Peak Elev= 179.92' @ 12.46 hrs Surf.Area= 4,399 sf Storage= 7,237 cf

Plug-Flow detention time= 179.4 min calculated for 0.298 af (79% of inflow)
 Center-of-Mass det. time= 94.2 min (886.5 - 792.3)

Volume	Invert	Avail.Storage	Storage Description
#1	178.00'	17,892 cf	Custom Stage Data (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
178.00	3,145	0	0
179.00	3,781	3,463	3,463
180.00	4,451	4,116	7,579
181.00	5,149	4,800	12,379
182.00	5,877	5,513	17,892

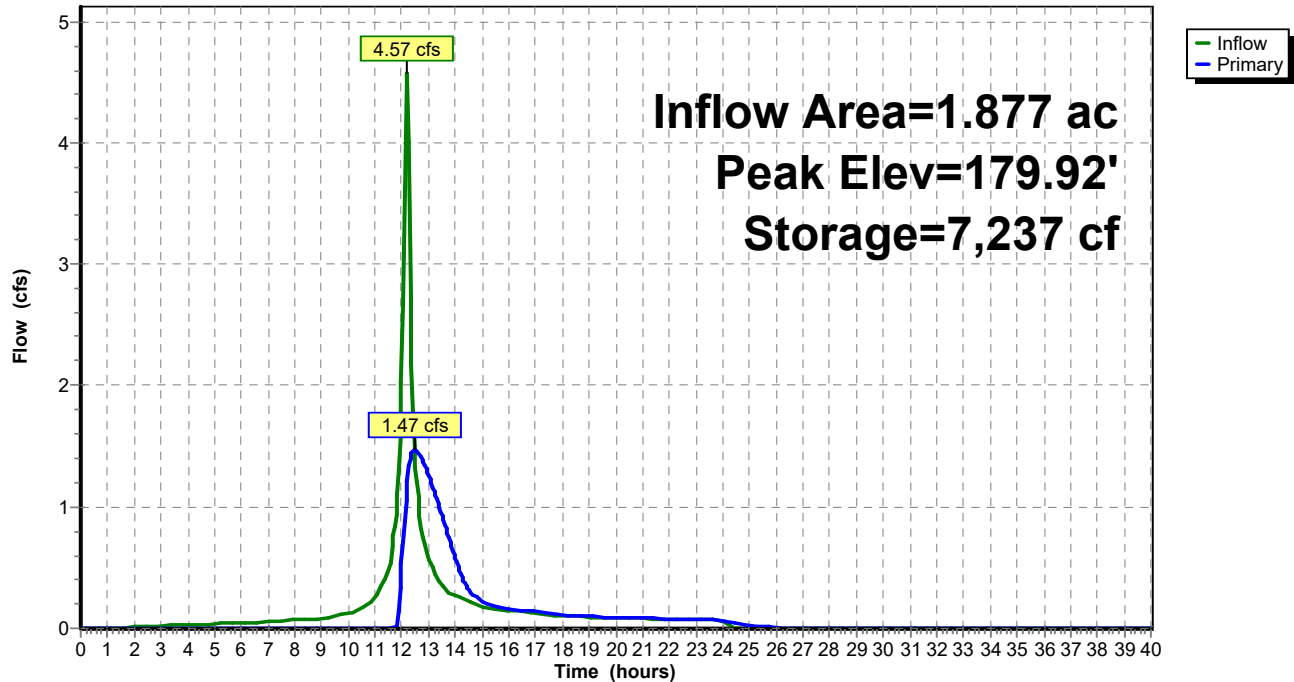
Device	Routing	Invert	Outlet Devices
#1	Primary	176.65'	18.0" Round Culvert L= 53.0' Ke= 0.500 Inlet / Outlet Invert= 176.65' / 172.00' S= 0.0877 ' S= 0.0877 ' Cc= 0.900 n= 0.013, Flow Area= 1.77 sf
#2	Device 1	179.00'	24.0" W x 2.0" H Vert. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#3	Device 1	180.00'	4.0' long Sharp-Crested Rectangular Weir 2 End Contraction(s)
#4	Primary	180.67'	50.0' long + 3.0 ' SideZ x 5.0' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 Coef. (English) 2.34 2.50 2.70 2.68 2.68 2.66 2.65 2.65 2.65 2.65 2.67 2.66 2.68 2.70 2.74 2.79 2.88

Primary OutFlow Max=1.47 cfs @ 12.46 hrs HW=179.92' (Free Discharge)

1=Culvert (Passes 1.47 cfs of 13.51 cfs potential flow)
 2=Orifice/Grate (Orifice Controls 1.47 cfs @ 4.41 fps)
 3=Sharp-Crested Rectangular Weir (Controls 0.00 cfs)
 4=Broad-Crested Rectangular Weir (Controls 0.00 cfs)

Pond B-16B: Basin #16B

Hydrograph



Stage-Discharge for Pond B-16B: Basin #16B

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
178.00	0.00	178.52	0.00	179.04	0.05	179.56	1.11
178.01	0.00	178.53	0.00	179.05	0.07	179.57	1.12
178.02	0.00	178.54	0.00	179.06	0.09	179.58	1.13
178.03	0.00	178.55	0.00	179.07	0.12	179.59	1.14
178.04	0.00	178.56	0.00	179.08	0.15	179.60	1.15
178.05	0.00	178.57	0.00	179.09	0.17	179.61	1.16
178.06	0.00	178.58	0.00	179.10	0.20	179.62	1.17
178.07	0.00	178.59	0.00	179.11	0.23	179.63	1.19
178.08	0.00	178.60	0.00	179.12	0.27	179.64	1.20
178.09	0.00	178.61	0.00	179.13	0.30	179.65	1.21
178.10	0.00	178.62	0.00	179.14	0.34	179.66	1.22
178.11	0.00	178.63	0.00	179.15	0.37	179.67	1.23
178.12	0.00	178.64	0.00	179.16	0.41	179.68	1.24
178.13	0.00	178.65	0.00	179.17	0.45	179.69	1.25
178.14	0.00	178.66	0.00	179.18	0.48	179.70	1.26
178.15	0.00	178.67	0.00	179.19	0.51	179.71	1.27
178.16	0.00	178.68	0.00	179.20	0.54	179.72	1.28
178.17	0.00	178.69	0.00	179.21	0.56	179.73	1.29
178.18	0.00	178.70	0.00	179.22	0.58	179.74	1.30
178.19	0.00	178.71	0.00	179.23	0.61	179.75	1.31
178.20	0.00	178.72	0.00	179.24	0.63	179.76	1.32
178.21	0.00	178.73	0.00	179.25	0.65	179.77	1.33
178.22	0.00	178.74	0.00	179.26	0.67	179.78	1.34
178.23	0.00	178.75	0.00	179.27	0.69	179.79	1.35
178.24	0.00	178.76	0.00	179.28	0.71	179.80	1.36
178.25	0.00	178.77	0.00	179.29	0.72	179.81	1.37
178.26	0.00	178.78	0.00	179.30	0.74	179.82	1.38
178.27	0.00	178.79	0.00	179.31	0.76	179.83	1.39
178.28	0.00	178.80	0.00	179.32	0.78	179.84	1.40
178.29	0.00	178.81	0.00	179.33	0.79	179.85	1.40
178.30	0.00	178.82	0.00	179.34	0.81	179.86	1.41
178.31	0.00	178.83	0.00	179.35	0.83	179.87	1.42
178.32	0.00	178.84	0.00	179.36	0.84	179.88	1.43
178.33	0.00	178.85	0.00	179.37	0.86	179.89	1.44
178.34	0.00	178.86	0.00	179.38	0.87	179.90	1.45
178.35	0.00	178.87	0.00	179.39	0.89	179.91	1.46
178.36	0.00	178.88	0.00	179.40	0.90	179.92	1.47
178.37	0.00	178.89	0.00	179.41	0.91	179.93	1.48
178.38	0.00	178.90	0.00	179.42	0.93	179.94	1.48
178.39	0.00	178.91	0.00	179.43	0.94	179.95	1.49
178.40	0.00	178.92	0.00	179.44	0.96	179.96	1.50
178.41	0.00	178.93	0.00	179.45	0.97	179.97	1.51
178.42	0.00	178.94	0.00	179.46	0.98	179.98	1.52
178.43	0.00	178.95	0.00	179.47	1.00	179.99	1.53
178.44	0.00	178.96	0.00	179.48	1.01	180.00	1.54
178.45	0.00	178.97	0.00	179.49	1.02	180.01	1.56
178.46	0.00	178.98	0.00	179.50	1.03	180.02	1.59
178.47	0.00	178.99	0.00	179.51	1.05	180.03	1.63
178.48	0.00	179.00	0.00	179.52	1.06	180.04	1.67
178.49	0.00	179.01	0.01	179.53	1.07	180.05	1.72
178.50	0.00	179.02	0.02	179.54	1.08	180.06	1.78
178.51	0.00	179.03	0.03	179.55	1.09	180.07	1.84

Stage-Discharge for Pond B-16B: Basin #16B (continued)

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
180.08	1.90	180.60	7.87	181.12	55.73	181.64	151.50
180.09	1.96	180.61	8.02	181.13	57.25	181.65	153.66
180.10	2.03	180.62	8.18	181.14	58.79	181.66	155.83
180.11	2.10	180.63	8.33	181.15	60.36	181.67	158.01
180.12	2.17	180.64	8.48	181.16	61.96	181.68	160.16
180.13	2.25	180.65	8.64	181.17	63.59	181.69	162.31
180.14	2.33	180.66	8.80	181.18	65.24	181.70	164.48
180.15	2.41	180.67	8.95	181.19	66.91	181.71	166.66
180.16	2.50	180.68	9.23	181.20	68.62	181.72	168.84
180.17	2.58	180.69	9.60	181.21	70.35	181.73	171.04
180.18	2.67	180.70	10.04	181.22	72.10	181.74	173.25
180.19	2.76	180.71	10.53	181.23	73.89	181.75	175.47
180.20	2.85	180.72	11.07	181.24	75.70	181.76	177.70
180.21	2.95	180.73	11.64	181.25	77.53	181.77	179.94
180.22	3.05	180.74	12.26	181.26	79.40	181.78	182.19
180.23	3.14	180.75	12.91	181.27	81.29	181.79	184.45
180.24	3.25	180.76	13.59	181.28	82.94	181.80	186.72
180.25	3.35	180.77	14.30	181.29	84.60	181.81	189.00
180.26	3.45	180.78	15.04	181.30	86.27	181.82	191.29
180.27	3.56	180.79	15.81	181.31	87.96	181.83	193.59
180.28	3.67	180.80	16.61	181.32	89.66	181.84	195.90
180.29	3.78	180.81	17.43	181.33	91.38	181.85	198.22
180.30	3.89	180.82	18.28	181.34	93.11	181.86	200.55
180.31	4.00	180.83	19.15	181.35	94.85	181.87	202.89
180.32	4.11	180.84	20.04	181.36	96.60	181.88	205.28
180.33	4.23	180.85	20.96	181.37	98.37	181.89	207.68
180.34	4.35	180.86	21.90	181.38	100.15	181.90	210.08
180.35	4.47	180.87	22.86	181.39	101.94	181.91	212.50
180.36	4.59	180.88	23.89	181.40	103.75	181.92	214.93
180.37	4.71	180.89	24.93	181.41	105.57	181.93	217.37
180.38	4.83	180.90	26.01	181.42	107.40	181.94	219.82
180.39	4.96	180.91	27.11	181.43	109.24	181.95	222.28
180.40	5.08	180.92	28.24	181.44	111.09	181.96	224.75
180.41	5.21	180.93	29.39	181.45	112.96	181.97	227.23
180.42	5.34	180.94	30.57	181.46	114.84	181.98	229.73
180.43	5.47	180.95	31.78	181.47	116.73	181.99	232.23
180.44	5.60	180.96	33.01	181.48	118.67	182.00	234.74
180.45	5.74	180.97	34.26	181.49	120.62		
180.46	5.87	180.98	35.54	181.50	122.59		
180.47	6.01	180.99	36.85	181.51	124.57		
180.48	6.14	181.00	38.18	181.52	126.57		
180.49	6.28	181.01	39.54	181.53	128.57		
180.50	6.42	181.02	40.92	181.54	130.59		
180.51	6.56	181.03	42.32	181.55	132.62		
180.52	6.70	181.04	43.75	181.56	134.67		
180.53	6.84	181.05	45.21	181.57	136.73		
180.54	6.99	181.06	46.69	181.58	138.80		
180.55	7.13	181.07	48.19	181.59	140.88		
180.56	7.28	181.08	49.75	181.60	142.98		
180.57	7.43	181.09	51.33	181.61	145.09		
180.58	7.57	181.10	52.77	181.62	147.21		
180.59	7.72	181.11	54.24	181.63	149.35		

Stage-Area-Storage for Pond B-16B: Basin #16B

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
178.00	3,145	0	178.52	3,476	1,721
178.01	3,151	31	178.53	3,482	1,756
178.02	3,158	63	178.54	3,488	1,791
178.03	3,164	95	178.55	3,495	1,826
178.04	3,170	126	178.56	3,501	1,861
178.05	3,177	158	178.57	3,508	1,896
178.06	3,183	190	178.58	3,514	1,931
178.07	3,190	222	178.59	3,520	1,966
178.08	3,196	254	178.60	3,527	2,001
178.09	3,202	286	178.61	3,533	2,037
178.10	3,209	318	178.62	3,539	2,072
178.11	3,215	350	178.63	3,546	2,108
178.12	3,221	382	178.64	3,552	2,143
178.13	3,228	414	178.65	3,558	2,179
178.14	3,234	447	178.66	3,565	2,214
178.15	3,240	479	178.67	3,571	2,250
178.16	3,247	511	178.68	3,577	2,286
178.17	3,253	544	178.69	3,584	2,321
178.18	3,259	576	178.70	3,590	2,357
178.19	3,266	609	178.71	3,597	2,393
178.20	3,272	642	178.72	3,603	2,429
178.21	3,279	674	178.73	3,609	2,465
178.22	3,285	707	178.74	3,616	2,501
178.23	3,291	740	178.75	3,622	2,538
178.24	3,298	773	178.76	3,628	2,574
178.25	3,304	806	178.77	3,635	2,610
178.26	3,310	839	178.78	3,641	2,647
178.27	3,317	872	178.79	3,647	2,683
178.28	3,323	906	178.80	3,654	2,720
178.29	3,329	939	178.81	3,660	2,756
178.30	3,336	972	178.82	3,667	2,793
178.31	3,342	1,006	178.83	3,673	2,829
178.32	3,349	1,039	178.84	3,679	2,866
178.33	3,355	1,072	178.85	3,686	2,903
178.34	3,361	1,106	178.86	3,692	2,940
178.35	3,368	1,140	178.87	3,698	2,977
178.36	3,374	1,173	178.88	3,705	3,014
178.37	3,380	1,207	178.89	3,711	3,051
178.38	3,387	1,241	178.90	3,717	3,088
178.39	3,393	1,275	178.91	3,724	3,125
178.40	3,399	1,309	178.92	3,730	3,163
178.41	3,406	1,343	178.93	3,736	3,200
178.42	3,412	1,377	178.94	3,743	3,237
178.43	3,418	1,411	178.95	3,749	3,275
178.44	3,425	1,445	178.96	3,756	3,312
178.45	3,431	1,480	178.97	3,762	3,350
178.46	3,438	1,514	178.98	3,768	3,388
178.47	3,444	1,548	178.99	3,775	3,425
178.48	3,450	1,583	179.00	3,781	3,463
178.49	3,457	1,617	179.01	3,788	3,501
178.50	3,463	1,652	179.02	3,794	3,539
178.51	3,469	1,687	179.03	3,801	3,577

Stage-Area-Storage for Pond B-16B: Basin #16B (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
179.04	3,808	3,615	179.56	4,156	5,685
179.05	3,815	3,653	179.57	4,163	5,727
179.06	3,821	3,691	179.58	4,170	5,769
179.07	3,828	3,729	179.59	4,176	5,810
179.08	3,835	3,768	179.60	4,183	5,852
179.09	3,841	3,806	179.61	4,190	5,894
179.10	3,848	3,844	179.62	4,196	5,936
179.11	3,855	3,883	179.63	4,203	5,978
179.12	3,861	3,922	179.64	4,210	6,020
179.13	3,868	3,960	179.65	4,217	6,062
179.14	3,875	3,999	179.66	4,223	6,104
179.15	3,882	4,038	179.67	4,230	6,147
179.16	3,888	4,077	179.68	4,237	6,189
179.17	3,895	4,115	179.69	4,243	6,231
179.18	3,902	4,154	179.70	4,250	6,274
179.19	3,908	4,193	179.71	4,257	6,316
179.20	3,915	4,233	179.72	4,263	6,359
179.21	3,922	4,272	179.73	4,270	6,402
179.22	3,928	4,311	179.74	4,277	6,444
179.23	3,935	4,350	179.75	4,284	6,487
179.24	3,942	4,390	179.76	4,290	6,530
179.25	3,949	4,429	179.77	4,297	6,573
179.26	3,955	4,469	179.78	4,304	6,616
179.27	3,962	4,508	179.79	4,310	6,659
179.28	3,969	4,548	179.80	4,317	6,702
179.29	3,975	4,588	179.81	4,324	6,745
179.30	3,982	4,627	179.82	4,330	6,789
179.31	3,989	4,667	179.83	4,337	6,832
179.32	3,995	4,707	179.84	4,344	6,875
179.33	4,002	4,747	179.85	4,350	6,919
179.34	4,009	4,787	179.86	4,357	6,962
179.35	4,015	4,827	179.87	4,364	7,006
179.36	4,022	4,868	179.88	4,371	7,050
179.37	4,029	4,908	179.89	4,377	7,093
179.38	4,036	4,948	179.90	4,384	7,137
179.39	4,042	4,989	179.91	4,391	7,181
179.40	4,049	5,029	179.92	4,397	7,225
179.41	4,056	5,070	179.93	4,404	7,269
179.42	4,062	5,110	179.94	4,411	7,313
179.43	4,069	5,151	179.95	4,417	7,357
179.44	4,076	5,191	179.96	4,424	7,401
179.45	4,082	5,232	179.97	4,431	7,446
179.46	4,089	5,273	179.98	4,438	7,490
179.47	4,096	5,314	179.99	4,444	7,535
179.48	4,103	5,355	180.00	4,451	7,579
179.49	4,109	5,396	180.01	4,458	7,624
179.50	4,116	5,437	180.02	4,465	7,668
179.51	4,123	5,478	180.03	4,472	7,713
179.52	4,129	5,520	180.04	4,479	7,758
179.53	4,136	5,561	180.05	4,486	7,802
179.54	4,143	5,602	180.06	4,493	7,847
179.55	4,150	5,644	180.07	4,500	7,892

Stage-Area-Storage for Pond B-16B: Basin #16B (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
180.08	4,507	7,937	180.60	4,870	10,375
180.09	4,514	7,982	180.61	4,877	10,424
180.10	4,521	8,028	180.62	4,884	10,473
180.11	4,528	8,073	180.63	4,891	10,522
180.12	4,535	8,118	180.64	4,898	10,571
180.13	4,542	8,164	180.65	4,905	10,620
180.14	4,549	8,209	180.66	4,912	10,669
180.15	4,556	8,255	180.67	4,919	10,718
180.16	4,563	8,300	180.68	4,926	10,767
180.17	4,570	8,346	180.69	4,933	10,816
180.18	4,577	8,391	180.70	4,940	10,866
180.19	4,584	8,437	180.71	4,947	10,915
180.20	4,591	8,483	180.72	4,954	10,965
180.21	4,598	8,529	180.73	4,961	11,014
180.22	4,605	8,575	180.74	4,968	11,064
180.23	4,612	8,621	180.75	4,975	11,114
180.24	4,619	8,667	180.76	4,981	11,163
180.25	4,626	8,714	180.77	4,988	11,213
180.26	4,632	8,760	180.78	4,995	11,263
180.27	4,639	8,806	180.79	5,002	11,313
180.28	4,646	8,853	180.80	5,009	11,363
180.29	4,653	8,899	180.81	5,016	11,413
180.30	4,660	8,946	180.82	5,023	11,463
180.31	4,667	8,992	180.83	5,030	11,514
180.32	4,674	9,039	180.84	5,037	11,564
180.33	4,681	9,086	180.85	5,044	11,615
180.34	4,688	9,133	180.86	5,051	11,665
180.35	4,695	9,180	180.87	5,058	11,716
180.36	4,702	9,227	180.88	5,065	11,766
180.37	4,709	9,274	180.89	5,072	11,817
180.38	4,716	9,321	180.90	5,079	11,868
180.39	4,723	9,368	180.91	5,086	11,918
180.40	4,730	9,415	180.92	5,093	11,969
180.41	4,737	9,463	180.93	5,100	12,020
180.42	4,744	9,510	180.94	5,107	12,071
180.43	4,751	9,557	180.95	5,114	12,122
180.44	4,758	9,605	180.96	5,121	12,174
180.45	4,765	9,653	180.97	5,128	12,225
180.46	4,772	9,700	180.98	5,135	12,276
180.47	4,779	9,748	180.99	5,142	12,328
180.48	4,786	9,796	181.00	5,149	12,379
180.49	4,793	9,844	181.01	5,156	12,431
180.50	4,800	9,892	181.02	5,164	12,482
180.51	4,807	9,940	181.03	5,171	12,534
180.52	4,814	9,988	181.04	5,178	12,586
180.53	4,821	10,036	181.05	5,185	12,637
180.54	4,828	10,084	181.06	5,193	12,689
180.55	4,835	10,133	181.07	5,200	12,741
180.56	4,842	10,181	181.08	5,207	12,793
180.57	4,849	10,229	181.09	5,215	12,845
180.58	4,856	10,278	181.10	5,222	12,898
180.59	4,863	10,327	181.11	5,229	12,950

Stage-Area-Storage for Pond B-16B: Basin #16B (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
181.12	5,236	13,002	181.64	5,615	15,823
181.13	5,244	13,055	181.65	5,622	15,880
181.14	5,251	13,107	181.66	5,629	15,936
181.15	5,258	13,160	181.67	5,637	15,992
181.16	5,265	13,212	181.68	5,644	16,049
181.17	5,273	13,265	181.69	5,651	16,105
181.18	5,280	13,318	181.70	5,659	16,162
181.19	5,287	13,370	181.71	5,666	16,218
181.20	5,295	13,423	181.72	5,673	16,275
181.21	5,302	13,476	181.73	5,680	16,332
181.22	5,309	13,529	181.74	5,688	16,389
181.23	5,316	13,583	181.75	5,695	16,446
181.24	5,324	13,636	181.76	5,702	16,502
181.25	5,331	13,689	181.77	5,710	16,560
181.26	5,338	13,742	181.78	5,717	16,617
181.27	5,346	13,796	181.79	5,724	16,674
181.28	5,353	13,849	181.80	5,731	16,731
181.29	5,360	13,903	181.81	5,739	16,789
181.30	5,367	13,956	181.82	5,746	16,846
181.31	5,375	14,010	181.83	5,753	16,903
181.32	5,382	14,064	181.84	5,761	16,961
181.33	5,389	14,118	181.85	5,768	17,019
181.34	5,397	14,172	181.86	5,775	17,076
181.35	5,404	14,226	181.87	5,782	17,134
181.36	5,411	14,280	181.88	5,790	17,192
181.37	5,418	14,334	181.89	5,797	17,250
181.38	5,426	14,388	181.90	5,804	17,308
181.39	5,433	14,442	181.91	5,811	17,366
181.40	5,440	14,497	181.92	5,819	17,424
181.41	5,447	14,551	181.93	5,826	17,482
181.42	5,455	14,606	181.94	5,833	17,541
181.43	5,462	14,660	181.95	5,841	17,599
181.44	5,469	14,715	181.96	5,848	17,658
181.45	5,477	14,770	181.97	5,855	17,716
181.46	5,484	14,825	181.98	5,862	17,775
181.47	5,491	14,879	181.99	5,870	17,833
181.48	5,498	14,934	182.00	5,877	17,892
181.49	5,506	14,989			
181.50	5,513	15,045			
181.51	5,520	15,100			
181.52	5,528	15,155			
181.53	5,535	15,210			
181.54	5,542	15,266			
181.55	5,549	15,321			
181.56	5,557	15,377			
181.57	5,564	15,432			
181.58	5,571	15,488			
181.59	5,579	15,544			
181.60	5,586	15,599			
181.61	5,593	15,655			
181.62	5,600	15,711			
181.63	5,608	15,767			

Summary for Pond B-17A: Basin #17A

Inflow Area = 1.324 ac, 14.58% Impervious, Inflow Depth = 1.80" for Future 2 yr event
 Inflow = 2.50 cfs @ 12.18 hrs, Volume= 0.198 af
 Outflow = 0.13 cfs @ 14.73 hrs, Volume= 0.167 af, Atten= 95%, Lag= 153.2 min
 Primary = 0.13 cfs @ 14.73 hrs, Volume= 0.167 af
 Routed to Link PDA-1 : Proposed Drainage Area #1

Routing by Stor-Ind method, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 Peak Elev= 179.89' @ 14.73 hrs Surf.Area= 6,397 sf Storage= 5,326 cf

Plug-Flow detention time= 525.0 min calculated for 0.167 af (84% of inflow)
 Center-of-Mass det. time= 452.3 min (1,281.0 - 828.7)

Volume	Invert	Avail.Storage	Storage Description
#1	179.00'	30,377 cf	Custom Stage Data (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
179.00	5,508	0	0
180.00	6,502	6,005	6,005
181.00	7,552	7,027	13,032
182.00	8,658	8,105	21,137
183.00	9,821	9,240	30,377

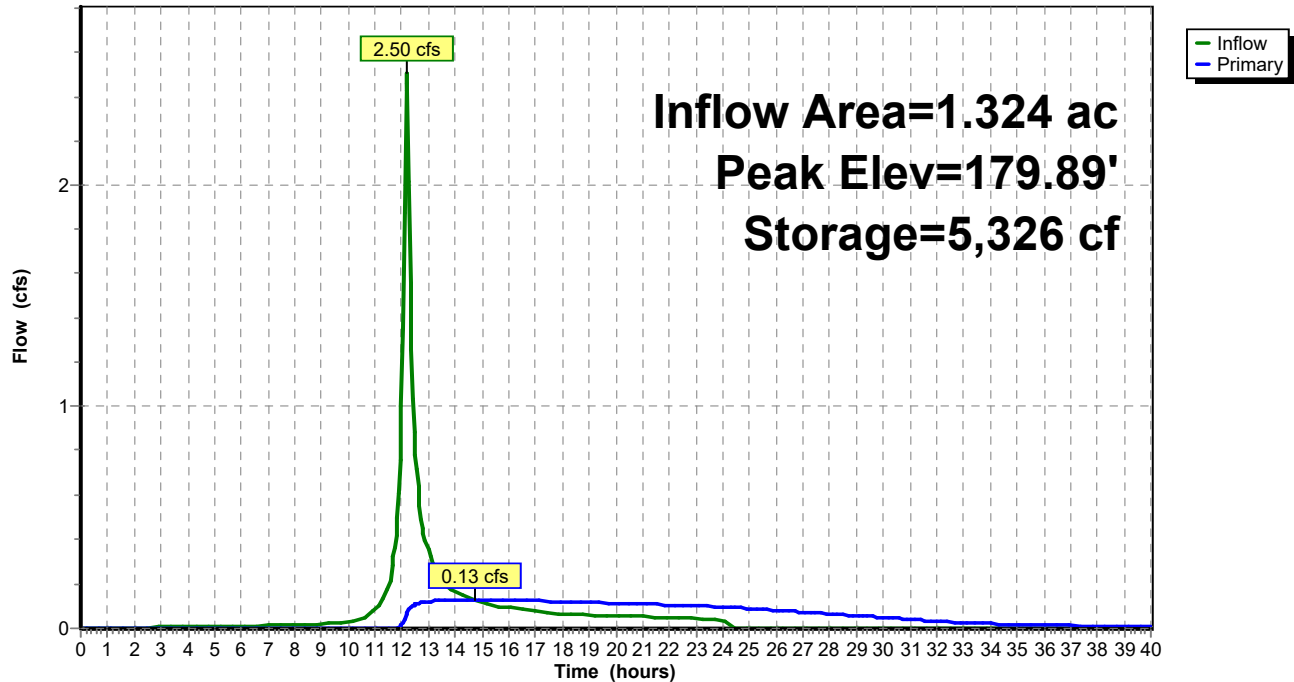
Device	Routing	Invert	Outlet Devices
#1	Primary	177.65'	18.0" Round Culvert L= 40.0' Ke= 0.500 Inlet / Outlet Invert= 177.65' / 177.00' S= 0.0163 '/' Cc= 0.900 n= 0.013, Flow Area= 1.77 sf
#2	Device 1	179.18'	2.5" Vert. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#3	Device 1	182.00'	4.0' long Sharp-Crested Rectangular Weir 2 End Contraction(s)
#4	Primary	181.95'	50.0' long + 3.0 '/' SideZ x 5.0' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 Coef. (English) 2.34 2.50 2.70 2.68 2.68 2.66 2.65 2.65 2.65 2.65 2.67 2.66 2.68 2.70 2.74 2.79 2.88

Primary OutFlow Max=0.13 cfs @ 14.73 hrs HW=179.89' (Free Discharge)

1=Culvert (Passes 0.13 cfs of 10.40 cfs potential flow)
 2=Orifice/Grate (Orifice Controls 0.13 cfs @ 3.76 fps)
 3=Sharp-Crested Rectangular Weir(Controls 0.00 cfs)
 4=Broad-Crested Rectangular Weir(Controls 0.00 cfs)

Pond B-17A: Basin #17A

Hydrograph



Stage-Discharge for Pond B-17A: Basin #17A

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
179.00	0.00	179.52	0.08	180.04	0.14	180.56	0.19
179.01	0.00	179.53	0.08	180.05	0.14	180.57	0.19
179.02	0.00	179.54	0.08	180.06	0.14	180.58	0.19
179.03	0.00	179.55	0.08	180.07	0.15	180.59	0.19
179.04	0.00	179.56	0.09	180.08	0.15	180.60	0.19
179.05	0.00	179.57	0.09	180.09	0.15	180.61	0.19
179.06	0.00	179.58	0.09	180.10	0.15	180.62	0.19
179.07	0.00	179.59	0.09	180.11	0.15	180.63	0.19
179.08	0.00	179.60	0.09	180.12	0.15	180.64	0.19
179.09	0.00	179.61	0.09	180.13	0.15	180.65	0.19
179.10	0.00	179.62	0.10	180.14	0.15	180.66	0.19
179.11	0.00	179.63	0.10	180.15	0.15	180.67	0.19
179.12	0.00	179.64	0.10	180.16	0.15	180.68	0.19
179.13	0.00	179.65	0.10	180.17	0.15	180.69	0.19
179.14	0.00	179.66	0.10	180.18	0.16	180.70	0.20
179.15	0.00	179.67	0.10	180.19	0.16	180.71	0.20
179.16	0.00	179.68	0.10	180.20	0.16	180.72	0.20
179.17	0.00	179.69	0.10	180.21	0.16	180.73	0.20
179.18	0.00	179.70	0.11	180.22	0.16	180.74	0.20
179.19	0.00	179.71	0.11	180.23	0.16	180.75	0.20
179.20	0.00	179.72	0.11	180.24	0.16	180.76	0.20
179.21	0.00	179.73	0.11	180.25	0.16	180.77	0.20
179.22	0.00	179.74	0.11	180.26	0.16	180.78	0.20
179.23	0.00	179.75	0.11	180.27	0.16	180.79	0.20
179.24	0.01	179.76	0.11	180.28	0.16	180.80	0.20
179.25	0.01	179.77	0.11	180.29	0.16	180.81	0.20
179.26	0.01	179.78	0.12	180.30	0.17	180.82	0.20
179.27	0.01	179.79	0.12	180.31	0.17	180.83	0.20
179.28	0.02	179.80	0.12	180.32	0.17	180.84	0.20
179.29	0.02	179.81	0.12	180.33	0.17	180.85	0.21
179.30	0.02	179.82	0.12	180.34	0.17	180.86	0.21
179.31	0.03	179.83	0.12	180.35	0.17	180.87	0.21
179.32	0.03	179.84	0.12	180.36	0.17	180.88	0.21
179.33	0.03	179.85	0.12	180.37	0.17	180.89	0.21
179.34	0.04	179.86	0.12	180.38	0.17	180.90	0.21
179.35	0.04	179.87	0.13	180.39	0.17	180.91	0.21
179.36	0.05	179.88	0.13	180.40	0.17	180.92	0.21
179.37	0.05	179.89	0.13	180.41	0.17	180.93	0.21
179.38	0.05	179.90	0.13	180.42	0.17	180.94	0.21
179.39	0.05	179.91	0.13	180.43	0.18	180.95	0.21
179.40	0.06	179.92	0.13	180.44	0.18	180.96	0.21
179.41	0.06	179.93	0.13	180.45	0.18	180.97	0.21
179.42	0.06	179.94	0.13	180.46	0.18	180.98	0.21
179.43	0.06	179.95	0.13	180.47	0.18	180.99	0.21
179.44	0.06	179.96	0.13	180.48	0.18	181.00	0.22
179.45	0.07	179.97	0.14	180.49	0.18	181.01	0.22
179.46	0.07	179.98	0.14	180.50	0.18	181.02	0.22
179.47	0.07	179.99	0.14	180.51	0.18	181.03	0.22
179.48	0.07	180.00	0.14	180.52	0.18	181.04	0.22
179.49	0.07	180.01	0.14	180.53	0.18	181.05	0.22
179.50	0.08	180.02	0.14	180.54	0.18	181.06	0.22
179.51	0.08	180.03	0.14	180.55	0.18	181.07	0.22

Stage-Discharge for Pond B-17A: Basin #17A (continued)

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
181.08	0.22	181.60	0.25	182.12	9.08	182.64	86.46
181.09	0.22	181.61	0.25	182.13	9.90	182.65	88.35
181.10	0.22	181.62	0.25	182.14	10.74	182.66	90.26
181.11	0.22	181.63	0.25	182.15	11.60	182.67	92.18
181.12	0.22	181.64	0.25	182.16	12.52	182.68	94.12
181.13	0.22	181.65	0.25	182.17	13.47	182.69	96.07
181.14	0.22	181.66	0.25	182.18	14.45	182.70	98.03
181.15	0.22	181.67	0.25	182.19	15.46	182.71	100.01
181.16	0.22	181.68	0.25	182.20	16.49	182.72	102.00
181.17	0.23	181.69	0.25	182.21	17.55	182.73	104.00
181.18	0.23	181.70	0.26	182.22	18.64	182.74	106.02
181.19	0.23	181.71	0.26	182.23	19.76	182.75	108.05
181.20	0.23	181.72	0.26	182.24	20.90	182.76	110.13
181.21	0.23	181.73	0.26	182.25	22.07	182.77	112.22
181.22	0.23	181.74	0.26	182.26	23.26	182.78	114.33
181.23	0.23	181.75	0.26	182.27	24.48	182.79	116.45
181.24	0.23	181.76	0.26	182.28	25.73	182.80	118.59
181.25	0.23	181.77	0.26	182.29	27.00	182.81	120.74
181.26	0.23	181.78	0.26	182.30	28.30	182.82	122.90
181.27	0.23	181.79	0.26	182.31	29.62	182.83	125.08
181.28	0.23	181.80	0.26	182.32	30.97	182.84	127.27
181.29	0.23	181.81	0.26	182.33	32.35	182.85	129.48
181.30	0.23	181.82	0.26	182.34	33.75	182.86	131.70
181.31	0.23	181.83	0.26	182.35	35.18	182.87	133.93
181.32	0.23	181.84	0.26	182.36	36.66	182.88	136.18
181.33	0.23	181.85	0.26	182.37	38.17	182.89	138.44
181.34	0.24	181.86	0.26	182.38	39.70	182.90	140.71
181.35	0.24	181.87	0.26	182.39	41.26	182.91	143.00
181.36	0.24	181.88	0.26	182.40	42.85	182.92	145.30
181.37	0.24	181.89	0.26	182.41	44.47	182.93	147.61
181.38	0.24	181.90	0.27	182.42	46.11	182.94	149.94
181.39	0.24	181.91	0.27	182.43	47.79	182.95	152.28
181.40	0.24	181.92	0.27	182.44	49.49	182.96	154.58
181.41	0.24	181.93	0.27	182.45	51.22	182.97	156.90
181.42	0.24	181.94	0.27	182.46	52.97	182.98	159.22
181.43	0.24	181.95	0.27	182.47	54.76	182.99	161.55
181.44	0.24	181.96	0.39	182.48	56.57	183.00	163.90
181.45	0.24	181.97	0.60	182.49	58.41		
181.46	0.24	181.98	0.88	182.50	60.28		
181.47	0.24	181.99	1.21	182.51	62.17		
181.48	0.24	182.00	1.58	182.52	64.09		
181.49	0.24	182.01	2.01	182.53	66.05		
181.50	0.24	182.02	2.48	182.54	68.03		
181.51	0.24	182.03	3.00	182.55	70.03		
181.52	0.25	182.04	3.55	182.56	71.80		
181.53	0.25	182.05	4.14	182.57	73.58		
181.54	0.25	182.06	4.76	182.58	75.38		
181.55	0.25	182.07	5.41	182.59	77.19		
181.56	0.25	182.08	6.09	182.60	79.01		
181.57	0.25	182.09	6.80	182.61	80.85		
181.58	0.25	182.10	7.53	182.62	82.71		
181.59	0.25	182.11	8.30	182.63	84.57		

Stage-Area-Storage for Pond B-17A: Basin #17A

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
179.00	5,508	0	179.52	6,025	2,999
179.01	5,518	55	179.53	6,035	3,059
179.02	5,528	110	179.54	6,045	3,119
179.03	5,538	166	179.55	6,055	3,180
179.04	5,548	221	179.56	6,065	3,240
179.05	5,558	277	179.57	6,075	3,301
179.06	5,568	332	179.58	6,085	3,362
179.07	5,578	388	179.59	6,094	3,423
179.08	5,588	444	179.60	6,104	3,484
179.09	5,597	500	179.61	6,114	3,545
179.10	5,607	556	179.62	6,124	3,606
179.11	5,617	612	179.63	6,134	3,667
179.12	5,627	668	179.64	6,144	3,729
179.13	5,637	724	179.65	6,154	3,790
179.14	5,647	781	179.66	6,164	3,852
179.15	5,657	837	179.67	6,174	3,913
179.16	5,667	894	179.68	6,184	3,975
179.17	5,677	951	179.69	6,194	4,037
179.18	5,687	1,008	179.70	6,204	4,099
179.19	5,697	1,064	179.71	6,214	4,161
179.20	5,707	1,121	179.72	6,224	4,223
179.21	5,717	1,179	179.73	6,234	4,286
179.22	5,727	1,236	179.74	6,244	4,348
179.23	5,737	1,293	179.75	6,254	4,411
179.24	5,747	1,351	179.76	6,263	4,473
179.25	5,757	1,408	179.77	6,273	4,536
179.26	5,766	1,466	179.78	6,283	4,599
179.27	5,776	1,523	179.79	6,293	4,661
179.28	5,786	1,581	179.80	6,303	4,724
179.29	5,796	1,639	179.81	6,313	4,788
179.30	5,806	1,697	179.82	6,323	4,851
179.31	5,816	1,755	179.83	6,333	4,914
179.32	5,826	1,813	179.84	6,343	4,977
179.33	5,836	1,872	179.85	6,353	5,041
179.34	5,846	1,930	179.86	6,363	5,104
179.35	5,856	1,989	179.87	6,373	5,168
179.36	5,866	2,047	179.88	6,383	5,232
179.37	5,876	2,106	179.89	6,393	5,296
179.38	5,886	2,165	179.90	6,403	5,360
179.39	5,896	2,224	179.91	6,413	5,424
179.40	5,906	2,283	179.92	6,422	5,488
179.41	5,916	2,342	179.93	6,432	5,552
179.42	5,925	2,401	179.94	6,442	5,617
179.43	5,935	2,460	179.95	6,452	5,681
179.44	5,945	2,520	179.96	6,462	5,746
179.45	5,955	2,579	179.97	6,472	5,810
179.46	5,965	2,639	179.98	6,482	5,875
179.47	5,975	2,699	179.99	6,492	5,940
179.48	5,985	2,758	180.00	6,502	6,005
179.49	5,995	2,818	180.01	6,512	6,070
179.50	6,005	2,878	180.02	6,523	6,135
179.51	6,015	2,938	180.03	6,534	6,201

Stage-Area-Storage for Pond B-17A: Basin #17A (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
180.04	6,544	6,266	180.56	7,090	9,811
180.05	6,555	6,331	180.57	7,100	9,882
180.06	6,565	6,397	180.58	7,111	9,953
180.07	6,575	6,463	180.59	7,122	10,024
180.08	6,586	6,529	180.60	7,132	10,095
180.09	6,597	6,594	180.61	7,143	10,167
180.10	6,607	6,660	180.62	7,153	10,238
180.11	6,618	6,727	180.63	7,163	10,310
180.12	6,628	6,793	180.64	7,174	10,381
180.13	6,638	6,859	180.65	7,185	10,453
180.14	6,649	6,926	180.66	7,195	10,525
180.15	6,660	6,992	180.67	7,205	10,597
180.16	6,670	7,059	180.68	7,216	10,669
180.17	6,680	7,126	180.69	7,226	10,741
180.18	6,691	7,192	180.70	7,237	10,814
180.19	6,701	7,259	180.71	7,248	10,886
180.20	6,712	7,326	180.72	7,258	10,959
180.21	6,723	7,394	180.73	7,268	11,031
180.22	6,733	7,461	180.74	7,279	11,104
180.23	6,743	7,528	180.75	7,290	11,177
180.24	6,754	7,596	180.76	7,300	11,250
180.25	6,765	7,663	180.77	7,311	11,323
180.26	6,775	7,731	180.78	7,321	11,396
180.27	6,786	7,799	180.79	7,331	11,469
180.28	6,796	7,867	180.80	7,342	11,543
180.29	6,806	7,935	180.81	7,353	11,616
180.30	6,817	8,003	180.82	7,363	11,690
180.31	6,828	8,071	180.83	7,374	11,763
180.32	6,838	8,139	180.84	7,384	11,837
180.33	6,849	8,208	180.85	7,394	11,911
180.34	6,859	8,276	180.86	7,405	11,985
180.35	6,869	8,345	180.87	7,416	12,059
180.36	6,880	8,414	180.88	7,426	12,133
180.37	6,891	8,483	180.89	7,436	12,208
180.38	6,901	8,552	180.90	7,447	12,282
180.39	6,911	8,621	180.91	7,457	12,357
180.40	6,922	8,690	180.92	7,468	12,431
180.41	6,932	8,759	180.93	7,479	12,506
180.42	6,943	8,828	180.94	7,489	12,581
180.43	6,954	8,898	180.95	7,499	12,656
180.44	6,964	8,968	180.96	7,510	12,731
180.45	6,974	9,037	180.97	7,520	12,806
180.46	6,985	9,107	180.98	7,531	12,881
180.47	6,995	9,177	180.99	7,542	12,957
180.48	7,006	9,247	181.00	7,552	13,032
180.49	7,017	9,317	181.01	7,563	13,108
180.50	7,027	9,387	181.02	7,574	13,183
180.51	7,037	9,458	181.03	7,585	13,259
180.52	7,048	9,528	181.04	7,596	13,335
180.53	7,059	9,599	181.05	7,607	13,411
180.54	7,069	9,669	181.06	7,618	13,487
180.55	7,080	9,740	181.07	7,629	13,563

Stage-Area-Storage for Pond B-17A: Basin #17A (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
181.08	7,640	13,640	181.60	8,216	17,762
181.09	7,652	13,716	181.61	8,227	17,844
181.10	7,663	13,793	181.62	8,238	17,927
181.11	7,674	13,869	181.63	8,249	18,009
181.12	7,685	13,946	181.64	8,260	18,092
181.13	7,696	14,023	181.65	8,271	18,174
181.14	7,707	14,100	181.66	8,282	18,257
181.15	7,718	14,177	181.67	8,293	18,340
181.16	7,729	14,254	181.68	8,304	18,423
181.17	7,740	14,332	181.69	8,315	18,506
181.18	7,751	14,409	181.70	8,326	18,589
181.19	7,762	14,487	181.71	8,337	18,673
181.20	7,773	14,565	181.72	8,348	18,756
181.21	7,784	14,642	181.73	8,359	18,840
181.22	7,795	14,720	181.74	8,370	18,923
181.23	7,806	14,798	181.75	8,382	19,007
181.24	7,817	14,876	181.76	8,393	19,091
181.25	7,829	14,955	181.77	8,404	19,175
181.26	7,840	15,033	181.78	8,415	19,259
181.27	7,851	15,111	181.79	8,426	19,343
181.28	7,862	15,190	181.80	8,437	19,428
181.29	7,873	15,269	181.81	8,448	19,512
181.30	7,884	15,347	181.82	8,459	19,596
181.31	7,895	15,426	181.83	8,470	19,681
181.32	7,906	15,505	181.84	8,481	19,766
181.33	7,917	15,584	181.85	8,492	19,851
181.34	7,928	15,664	181.86	8,503	19,936
181.35	7,939	15,743	181.87	8,514	20,021
181.36	7,950	15,822	181.88	8,525	20,106
181.37	7,961	15,902	181.89	8,536	20,191
181.38	7,972	15,982	181.90	8,547	20,277
181.39	7,983	16,061	181.91	8,558	20,362
181.40	7,994	16,141	181.92	8,570	20,448
181.41	8,005	16,221	181.93	8,581	20,534
181.42	8,017	16,301	181.94	8,592	20,620
181.43	8,028	16,382	181.95	8,603	20,705
181.44	8,039	16,462	181.96	8,614	20,792
181.45	8,050	16,542	181.97	8,625	20,878
181.46	8,061	16,623	181.98	8,636	20,964
181.47	8,072	16,704	181.99	8,647	21,050
181.48	8,083	16,784	182.00	8,658	21,137
181.49	8,094	16,865	182.01	8,670	21,224
181.50	8,105	16,946	182.02	8,681	21,310
181.51	8,116	17,027	182.03	8,693	21,397
181.52	8,127	17,109	182.04	8,705	21,484
181.53	8,138	17,190	182.05	8,716	21,571
181.54	8,149	17,271	182.06	8,728	21,659
181.55	8,160	17,353	182.07	8,739	21,746
181.56	8,171	17,435	182.08	8,751	21,833
181.57	8,182	17,516	182.09	8,763	21,921
181.58	8,193	17,598	182.10	8,774	22,009
181.59	8,205	17,680	182.11	8,786	22,096

Stage-Area-Storage for Pond B-17A: Basin #17A (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
182.12	8,798	22,184	182.64	9,402	26,916
182.13	8,809	22,272	182.65	9,414	27,010
182.14	8,821	22,361	182.66	9,426	27,105
182.15	8,832	22,449	182.67	9,437	27,199
182.16	8,844	22,537	182.68	9,449	27,293
182.17	8,856	22,626	182.69	9,460	27,388
182.18	8,867	22,714	182.70	9,472	27,483
182.19	8,879	22,803	182.71	9,484	27,577
182.20	8,891	22,892	182.72	9,495	27,672
182.21	8,902	22,981	182.73	9,507	27,767
182.22	8,914	23,070	182.74	9,519	27,862
182.23	8,925	23,159	182.75	9,530	27,958
182.24	8,937	23,248	182.76	9,542	28,053
182.25	8,949	23,338	182.77	9,554	28,148
182.26	8,960	23,427	182.78	9,565	28,244
182.27	8,972	23,517	182.79	9,577	28,340
182.28	8,984	23,607	182.80	9,588	28,436
182.29	8,995	23,697	182.81	9,600	28,532
182.30	9,007	23,787	182.82	9,612	28,628
182.31	9,019	23,877	182.83	9,623	28,724
182.32	9,030	23,967	182.84	9,635	28,820
182.33	9,042	24,057	182.85	9,647	28,916
182.34	9,053	24,148	182.86	9,658	29,013
182.35	9,065	24,239	182.87	9,670	29,110
182.36	9,077	24,329	182.88	9,681	29,206
182.37	9,088	24,420	182.89	9,693	29,303
182.38	9,100	24,511	182.90	9,705	29,400
182.39	9,112	24,602	182.91	9,716	29,497
182.40	9,123	24,693	182.92	9,728	29,595
182.41	9,135	24,785	182.93	9,740	29,692
182.42	9,146	24,876	182.94	9,751	29,789
182.43	9,158	24,967	182.95	9,763	29,887
182.44	9,170	25,059	182.96	9,774	29,985
182.45	9,181	25,151	182.97	9,786	30,082
182.46	9,193	25,243	182.98	9,798	30,180
182.47	9,205	25,335	182.99	9,809	30,278
182.48	9,216	25,427	183.00	9,821	30,377
182.49	9,228	25,519			
182.50	9,240	25,611			
182.51	9,251	25,704			
182.52	9,263	25,796			
182.53	9,274	25,889			
182.54	9,286	25,982			
182.55	9,298	26,075			
182.56	9,309	26,168			
182.57	9,321	26,261			
182.58	9,333	26,354			
182.59	9,344	26,448			
182.60	9,356	26,541			
182.61	9,367	26,635			
182.62	9,379	26,728			
182.63	9,391	26,822			

Summary for Pond B-17B: Basin #17B

Inflow Area = 1.385 ac, 37.11% Impervious, Inflow Depth = 2.28" for Future 2 yr event
 Inflow = 3.20 cfs @ 12.17 hrs, Volume= 0.263 af
 Outflow = 0.38 cfs @ 13.08 hrs, Volume= 0.193 af, Atten= 88%, Lag= 54.3 min
 Primary = 0.38 cfs @ 13.08 hrs, Volume= 0.193 af
 Routed to Link PDA-1 : Proposed Drainage Area #1

Routing by Stor-Ind method, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 Peak Elev= 179.93' @ 13.08 hrs Surf.Area= 7,955 sf Storage= 6,912 cf

Plug-Flow detention time= 523.0 min calculated for 0.193 af (73% of inflow)
 Center-of-Mass det. time= 426.8 min (1,225.6 - 798.8)

Volume	Invert	Avail.Storage	Storage Description
#1	179.00'	37,242 cf	Custom Stage Data (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
179.00	6,855	0	0
180.00	8,033	7,444	7,444
181.00	9,268	8,651	16,095
182.00	10,560	9,914	26,009
183.00	11,907	11,234	37,242

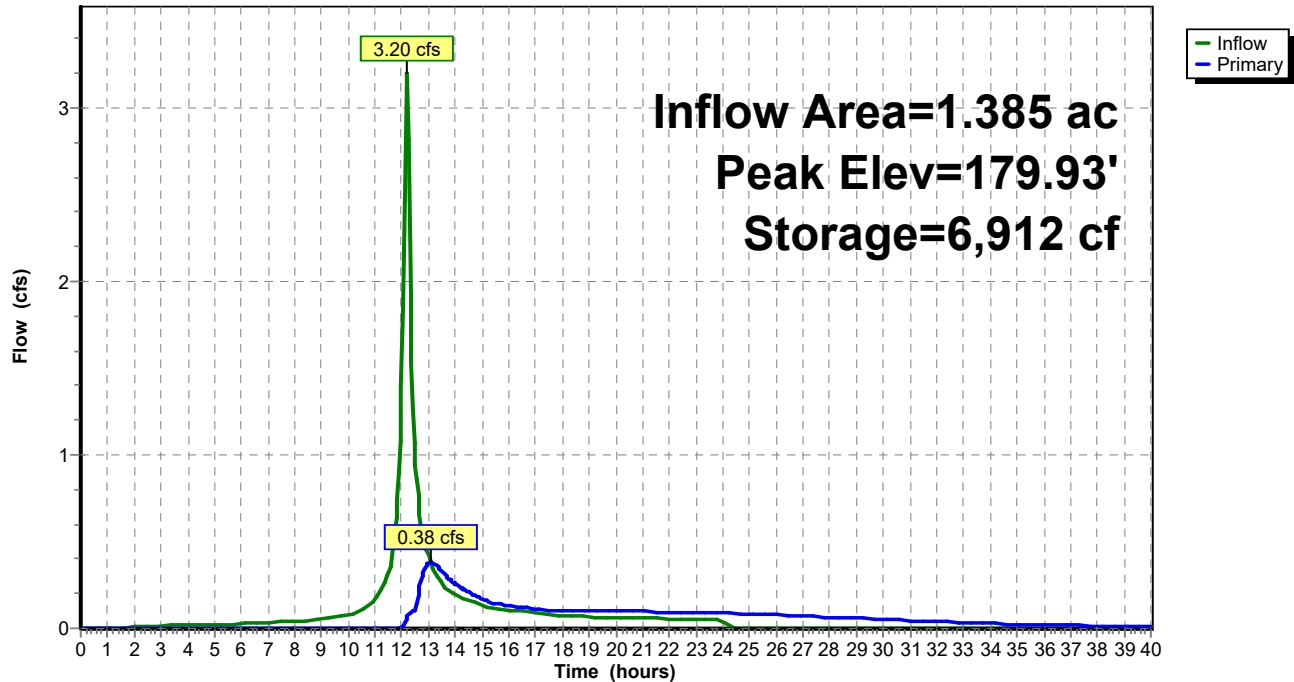
Device	Routing	Invert	Outlet Devices
#1	Primary	177.65'	18.0" Round Culvert L= 40.0' Ke= 0.500 Inlet / Outlet Invert= 177.65' / 177.00' S= 0.0163 '/' Cc= 0.900 n= 0.013, Flow Area= 1.77 sf
#2	Device 1	179.35'	2.5" Vert. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#3	Device 1	179.86'	4.0' long Sharp-Crested Rectangular Weir 2 End Contraction(s)
#4	Primary	181.95'	50.0' long + 3.0 '/' SideZ x 5.0' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 Coef. (English) 2.34 2.50 2.70 2.68 2.68 2.66 2.65 2.65 2.65 2.65 2.67 2.66 2.68 2.70 2.74 2.79 2.88

Primary OutFlow Max=0.37 cfs @ 13.08 hrs HW=179.93' (Free Discharge)

1=Culvert (Passes 0.37 cfs of 10.54 cfs potential flow)
 2=Orifice/Grate (Orifice Controls 0.11 cfs @ 3.33 fps)
 3=Sharp-Crested Rectangular Weir (Weir Controls 0.26 cfs @ 0.89 fps)
 4=Broad-Crested Rectangular Weir (Controls 0.00 cfs)

Pond B-17B: Basin #17B

Hydrograph



Stage-Discharge for Pond B-17B: Basin #17B

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
179.00	0.00	179.52	0.04	180.04	1.12	180.56	7.56
179.01	0.00	179.53	0.05	180.05	1.20	180.57	7.72
179.02	0.00	179.54	0.05	180.06	1.29	180.58	7.88
179.03	0.00	179.55	0.05	180.07	1.37	180.59	8.04
179.04	0.00	179.56	0.05	180.08	1.46	180.60	8.19
179.05	0.00	179.57	0.06	180.09	1.56	180.61	8.35
179.06	0.00	179.58	0.06	180.10	1.65	180.62	8.51
179.07	0.00	179.59	0.06	180.11	1.75	180.63	8.68
179.08	0.00	179.60	0.06	180.12	1.85	180.64	8.84
179.09	0.00	179.61	0.06	180.13	1.95	180.65	9.00
179.10	0.00	179.62	0.07	180.14	2.05	180.66	9.17
179.11	0.00	179.63	0.07	180.15	2.15	180.67	9.33
179.12	0.00	179.64	0.07	180.16	2.25	180.68	9.50
179.13	0.00	179.65	0.07	180.17	2.36	180.69	9.66
179.14	0.00	179.66	0.07	180.18	2.47	180.70	9.83
179.15	0.00	179.67	0.08	180.19	2.58	180.71	10.00
179.16	0.00	179.68	0.08	180.20	2.69	180.72	10.17
179.17	0.00	179.69	0.08	180.21	2.80	180.73	10.34
179.18	0.00	179.70	0.08	180.22	2.92	180.74	10.51
179.19	0.00	179.71	0.08	180.23	3.03	180.75	10.68
179.20	0.00	179.72	0.08	180.24	3.15	180.76	10.85
179.21	0.00	179.73	0.09	180.25	3.27	180.77	11.03
179.22	0.00	179.74	0.09	180.26	3.39	180.78	11.20
179.23	0.00	179.75	0.09	180.27	3.51	180.79	11.38
179.24	0.00	179.76	0.09	180.28	3.63	180.80	11.55
179.25	0.00	179.77	0.09	180.29	3.76	180.81	11.73
179.26	0.00	179.78	0.09	180.30	3.88	180.82	11.90
179.27	0.00	179.79	0.10	180.31	4.01	180.83	12.08
179.28	0.00	179.80	0.10	180.32	4.14	180.84	12.26
179.29	0.00	179.81	0.10	180.33	4.27	180.85	12.44
179.30	0.00	179.82	0.10	180.34	4.40	180.86	12.62
179.31	0.00	179.83	0.10	180.35	4.53	180.87	12.80
179.32	0.00	179.84	0.10	180.36	4.67	180.88	12.98
179.33	0.00	179.85	0.10	180.37	4.80	180.89	13.17
179.34	0.00	179.86	0.10	180.38	4.94	180.90	13.35
179.35	0.00	179.87	0.12	180.39	5.07	180.91	13.48
179.36	0.00	179.88	0.14	180.40	5.21	180.92	13.51
179.37	0.00	179.89	0.18	180.41	5.35	180.93	13.53
179.38	0.00	179.90	0.21	180.42	5.49	180.94	13.56
179.39	0.00	179.91	0.26	180.43	5.63	180.95	13.59
179.40	0.00	179.92	0.30	180.44	5.77	180.96	13.61
179.41	0.01	179.93	0.35	180.45	5.92	180.97	13.64
179.42	0.01	179.94	0.41	180.46	6.06	180.98	13.67
179.43	0.01	179.95	0.47	180.47	6.21	180.99	13.69
179.44	0.01	179.96	0.53	180.48	6.35	181.00	13.72
179.45	0.02	179.97	0.59	180.49	6.50	181.01	13.75
179.46	0.02	179.98	0.66	180.50	6.65	181.02	13.77
179.47	0.02	179.99	0.73	180.51	6.80	181.03	13.80
179.48	0.03	180.00	0.80	180.52	6.95	181.04	13.83
179.49	0.03	180.01	0.88	180.53	7.10	181.05	13.85
179.50	0.03	180.02	0.95	180.54	7.26	181.06	13.88
179.51	0.04	180.03	1.03	180.55	7.41	181.07	13.90

Stage-Discharge for Pond B-17B: Basin #17B (continued)

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
181.08	13.93	181.60	15.22	182.12	24.68	182.64	97.19
181.09	13.96	181.61	15.24	182.13	25.45	182.65	98.96
181.10	13.98	181.62	15.27	182.14	26.23	182.66	100.74
181.11	14.01	181.63	15.29	182.15	27.04	182.67	102.53
181.12	14.03	181.64	15.32	182.16	27.91	182.68	104.34
181.13	14.06	181.65	15.34	182.17	28.81	182.69	106.15
181.14	14.08	181.66	15.36	182.18	29.72	182.70	107.98
181.15	14.11	181.67	15.39	182.19	30.67	182.71	109.82
181.16	14.14	181.68	15.41	182.20	31.64	182.72	111.68
181.17	14.16	181.69	15.43	182.21	32.64	182.73	113.54
181.18	14.19	181.70	15.46	182.22	33.66	182.74	115.42
181.19	14.21	181.71	15.48	182.23	34.70	182.75	117.31
181.20	14.24	181.72	15.50	182.24	35.77	182.76	119.25
181.21	14.26	181.73	15.53	182.25	36.86	182.77	121.20
181.22	14.29	181.74	15.55	182.26	37.98	182.78	123.17
181.23	14.31	181.75	15.57	182.27	39.13	182.79	125.15
181.24	14.34	181.76	15.60	182.28	40.29	182.80	127.14
181.25	14.36	181.77	15.62	182.29	41.48	182.81	129.15
181.26	14.39	181.78	15.64	182.30	42.70	182.82	131.17
181.27	14.41	181.79	15.67	182.31	43.94	182.83	133.20
181.28	14.44	181.80	15.69	182.32	45.20	182.84	135.25
181.29	14.46	181.81	15.71	182.33	46.49	182.85	137.30
181.30	14.49	181.82	15.74	182.34	47.80	182.86	139.37
181.31	14.51	181.83	15.76	182.35	49.14	182.87	141.46
181.32	14.54	181.84	15.78	182.36	50.53	182.88	143.55
181.33	14.56	181.85	15.80	182.37	51.94	182.89	145.66
181.34	14.59	181.86	15.83	182.38	53.38	182.90	147.78
181.35	14.61	181.87	15.85	182.39	54.85	182.91	149.92
181.36	14.64	181.88	15.87	182.40	56.34	182.92	152.07
181.37	14.66	181.89	15.90	182.41	57.85	182.93	154.23
181.38	14.69	181.90	15.92	182.42	59.40	182.94	156.40
181.39	14.71	181.91	15.94	182.43	60.97	182.95	158.58
181.40	14.74	181.92	15.96	182.44	62.57	182.96	160.73
181.41	14.76	181.93	15.99	182.45	64.19	182.97	162.88
181.42	14.79	181.94	16.01	182.46	65.84	182.98	165.05
181.43	14.81	181.95	16.03	182.47	67.51	182.99	167.22
181.44	14.84	181.96	16.17	182.48	69.22	183.00	169.41
181.45	14.86	181.97	16.41	182.49	70.95		
181.46	14.88	181.98	16.71	182.50	72.70		
181.47	14.91	181.99	17.06	182.51	74.48		
181.48	14.93	182.00	17.46	182.52	76.29		
181.49	14.96	182.01	17.89	182.53	78.13		
181.50	14.98	182.02	18.36	182.54	79.99		
181.51	15.01	182.03	18.87	182.55	81.88		
181.52	15.03	182.04	19.41	182.56	83.53		
181.53	15.05	182.05	19.97	182.57	85.19		
181.54	15.08	182.06	20.57	182.58	86.87		
181.55	15.10	182.07	21.19	182.59	88.55		
181.56	15.13	182.08	21.84	182.60	90.26		
181.57	15.15	182.09	22.51	182.61	91.97		
181.58	15.17	182.10	23.21	182.62	93.70		
181.59	15.20	182.11	23.93	182.63	95.44		

Stage-Area-Storage for Pond B-17B: Basin #17B

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
179.00	6,855	0	179.52	7,468	3,724
179.01	6,867	69	179.53	7,479	3,799
179.02	6,879	137	179.54	7,491	3,873
179.03	6,890	206	179.55	7,503	3,948
179.04	6,902	275	179.56	7,515	4,024
179.05	6,914	344	179.57	7,526	4,099
179.06	6,926	413	179.58	7,538	4,174
179.07	6,937	483	179.59	7,550	4,249
179.08	6,949	552	179.60	7,562	4,325
179.09	6,961	622	179.61	7,574	4,401
179.10	6,973	691	179.62	7,585	4,477
179.11	6,985	761	179.63	7,597	4,552
179.12	6,996	831	179.64	7,609	4,628
179.13	7,008	901	179.65	7,621	4,705
179.14	7,020	971	179.66	7,632	4,781
179.15	7,032	1,042	179.67	7,644	4,857
179.16	7,043	1,112	179.68	7,656	4,934
179.17	7,055	1,182	179.69	7,668	5,010
179.18	7,067	1,253	179.70	7,680	5,087
179.19	7,079	1,324	179.71	7,691	5,164
179.20	7,091	1,395	179.72	7,703	5,241
179.21	7,102	1,466	179.73	7,715	5,318
179.22	7,114	1,537	179.74	7,727	5,395
179.23	7,126	1,608	179.75	7,739	5,473
179.24	7,138	1,679	179.76	7,750	5,550
179.25	7,150	1,751	179.77	7,762	5,628
179.26	7,161	1,822	179.78	7,774	5,705
179.27	7,173	1,894	179.79	7,786	5,783
179.28	7,185	1,966	179.80	7,797	5,861
179.29	7,197	2,037	179.81	7,809	5,939
179.30	7,208	2,110	179.82	7,821	6,017
179.31	7,220	2,182	179.83	7,833	6,095
179.32	7,232	2,254	179.84	7,845	6,174
179.33	7,244	2,326	179.85	7,856	6,252
179.34	7,256	2,399	179.86	7,868	6,331
179.35	7,267	2,471	179.87	7,880	6,410
179.36	7,279	2,544	179.88	7,892	6,489
179.37	7,291	2,617	179.89	7,903	6,567
179.38	7,303	2,690	179.90	7,915	6,647
179.39	7,314	2,763	179.91	7,927	6,726
179.40	7,326	2,836	179.92	7,939	6,805
179.41	7,338	2,910	179.93	7,951	6,885
179.42	7,350	2,983	179.94	7,962	6,964
179.43	7,362	3,057	179.95	7,974	7,044
179.44	7,373	3,130	179.96	7,986	7,124
179.45	7,385	3,204	179.97	7,998	7,204
179.46	7,397	3,278	179.98	8,009	7,284
179.47	7,409	3,352	179.99	8,021	7,364
179.48	7,420	3,426	180.00	8,033	7,444
179.49	7,432	3,500	180.01	8,045	7,524
179.50	7,444	3,575	180.02	8,058	7,605
179.51	7,456	3,649	180.03	8,070	7,686

Stage-Area-Storage for Pond B-17B: Basin #17B (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
180.04	8,082	7,766	180.56	8,725	12,136
180.05	8,095	7,847	180.57	8,737	12,223
180.06	8,107	7,928	180.58	8,749	12,311
180.07	8,119	8,009	180.59	8,762	12,398
180.08	8,132	8,091	180.60	8,774	12,486
180.09	8,144	8,172	180.61	8,786	12,574
180.10	8,156	8,253	180.62	8,799	12,662
180.11	8,169	8,335	180.63	8,811	12,750
180.12	8,181	8,417	180.64	8,823	12,838
180.13	8,194	8,499	180.65	8,836	12,926
180.14	8,206	8,581	180.66	8,848	13,015
180.15	8,218	8,663	180.67	8,860	13,103
180.16	8,231	8,745	180.68	8,873	13,192
180.17	8,243	8,827	180.69	8,885	13,281
180.18	8,255	8,910	180.70	8,897	13,370
180.19	8,268	8,993	180.71	8,910	13,459
180.20	8,280	9,075	180.72	8,922	13,548
180.21	8,292	9,158	180.73	8,935	13,637
180.22	8,305	9,241	180.74	8,947	13,727
180.23	8,317	9,324	180.75	8,959	13,816
180.24	8,329	9,407	180.76	8,972	13,906
180.25	8,342	9,491	180.77	8,984	13,996
180.26	8,354	9,574	180.78	8,996	14,085
180.27	8,366	9,658	180.79	9,009	14,175
180.28	8,379	9,742	180.80	9,021	14,266
180.29	8,391	9,826	180.81	9,033	14,356
180.30	8,404	9,909	180.82	9,046	14,446
180.31	8,416	9,994	180.83	9,058	14,537
180.32	8,428	10,078	180.84	9,070	14,627
180.33	8,441	10,162	180.85	9,083	14,718
180.34	8,453	10,247	180.86	9,095	14,809
180.35	8,465	10,331	180.87	9,107	14,900
180.36	8,478	10,416	180.88	9,120	14,991
180.37	8,490	10,501	180.89	9,132	15,082
180.38	8,502	10,586	180.90	9,145	15,174
180.39	8,515	10,671	180.91	9,157	15,265
180.40	8,527	10,756	180.92	9,169	15,357
180.41	8,539	10,841	180.93	9,182	15,449
180.42	8,552	10,927	180.94	9,194	15,541
180.43	8,564	11,012	180.95	9,206	15,633
180.44	8,576	11,098	180.96	9,219	15,725
180.45	8,589	11,184	180.97	9,231	15,817
180.46	8,601	11,270	180.98	9,243	15,909
180.47	8,613	11,356	180.99	9,256	16,002
180.48	8,626	11,442	181.00	9,268	16,095
180.49	8,638	11,528	181.01	9,281	16,187
180.50	8,651	11,615	181.02	9,294	16,280
180.51	8,663	11,701	181.03	9,307	16,373
180.52	8,675	11,788	181.04	9,320	16,466
180.53	8,688	11,875	181.05	9,333	16,560
180.54	8,700	11,962	181.06	9,346	16,653
180.55	8,712	12,049	181.07	9,358	16,746

Stage-Area-Storage for Pond B-17B: Basin #17B (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
181.08	9,371	16,840	181.60	10,043	21,888
181.09	9,384	16,934	181.61	10,056	21,988
181.10	9,397	17,028	181.62	10,069	22,089
181.11	9,410	17,122	181.63	10,082	22,190
181.12	9,423	17,216	181.64	10,095	22,291
181.13	9,436	17,310	181.65	10,108	22,392
181.14	9,449	17,405	181.66	10,121	22,493
181.15	9,462	17,499	181.67	10,134	22,594
181.16	9,475	17,594	181.68	10,147	22,695
181.17	9,488	17,689	181.69	10,159	22,797
181.18	9,501	17,784	181.70	10,172	22,899
181.19	9,513	17,879	181.71	10,185	23,000
181.20	9,526	17,974	181.72	10,198	23,102
181.21	9,539	18,069	181.73	10,211	23,204
181.22	9,552	18,165	181.74	10,224	23,307
181.23	9,565	18,260	181.75	10,237	23,409
181.24	9,578	18,356	181.76	10,250	23,511
181.25	9,591	18,452	181.77	10,263	23,614
181.26	9,604	18,548	181.78	10,276	23,717
181.27	9,617	18,644	181.79	10,289	23,819
181.28	9,630	18,740	181.80	10,302	23,922
181.29	9,643	18,837	181.81	10,315	24,025
181.30	9,656	18,933	181.82	10,327	24,129
181.31	9,669	19,030	181.83	10,340	24,232
181.32	9,681	19,126	181.84	10,353	24,335
181.33	9,694	19,223	181.85	10,366	24,439
181.34	9,707	19,320	181.86	10,379	24,543
181.35	9,720	19,417	181.87	10,392	24,647
181.36	9,733	19,515	181.88	10,405	24,751
181.37	9,746	19,612	181.89	10,418	24,855
181.38	9,759	19,710	181.90	10,431	24,959
181.39	9,772	19,807	181.91	10,444	25,063
181.40	9,785	19,905	181.92	10,457	25,168
181.41	9,798	20,003	181.93	10,470	25,272
181.42	9,811	20,101	181.94	10,482	25,377
181.43	9,824	20,199	181.95	10,495	25,482
181.44	9,836	20,297	181.96	10,508	25,587
181.45	9,849	20,396	181.97	10,521	25,692
181.46	9,862	20,494	181.98	10,534	25,798
181.47	9,875	20,593	181.99	10,547	25,903
181.48	9,888	20,692	182.00	10,560	26,009
181.49	9,901	20,791	182.01	10,573	26,114
181.50	9,914	20,890	182.02	10,587	26,220
181.51	9,927	20,989	182.03	10,600	26,326
181.52	9,940	21,089	182.04	10,614	26,432
181.53	9,953	21,188	182.05	10,627	26,538
181.54	9,966	21,288	182.06	10,641	26,645
181.55	9,979	21,387	182.07	10,654	26,751
181.56	9,992	21,487	182.08	10,668	26,858
181.57	10,004	21,587	182.09	10,681	26,964
181.58	10,017	21,687	182.10	10,695	27,071
181.59	10,030	21,787	182.11	10,708	27,178

Stage-Area-Storage for Pond B-17B: Basin #17B (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
182.12	10,722	27,285	182.64	11,422	33,043
182.13	10,735	27,393	182.65	11,436	33,157
182.14	10,749	27,500	182.66	11,449	33,271
182.15	10,762	27,608	182.67	11,462	33,386
182.16	10,776	27,715	182.68	11,476	33,501
182.17	10,789	27,823	182.69	11,489	33,616
182.18	10,802	27,931	182.70	11,503	33,731
182.19	10,816	28,039	182.71	11,516	33,846
182.20	10,829	28,147	182.72	11,530	33,961
182.21	10,843	28,256	182.73	11,543	34,076
182.22	10,856	28,364	182.74	11,557	34,192
182.23	10,870	28,473	182.75	11,570	34,307
182.24	10,883	28,582	182.76	11,584	34,423
182.25	10,897	28,691	182.77	11,597	34,539
182.26	10,910	28,800	182.78	11,611	34,655
182.27	10,924	28,909	182.79	11,624	34,771
182.28	10,937	29,018	182.80	11,638	34,888
182.29	10,951	29,128	182.81	11,651	35,004
182.30	10,964	29,237	182.82	11,665	35,121
182.31	10,978	29,347	182.83	11,678	35,237
182.32	10,991	29,457	182.84	11,691	35,354
182.33	11,005	29,567	182.85	11,705	35,471
182.34	11,018	29,677	182.86	11,718	35,588
182.35	11,031	29,787	182.87	11,732	35,705
182.36	11,045	29,897	182.88	11,745	35,823
182.37	11,058	30,008	182.89	11,759	35,940
182.38	11,072	30,119	182.90	11,772	36,058
182.39	11,085	30,229	182.91	11,786	36,176
182.40	11,099	30,340	182.92	11,799	36,294
182.41	11,112	30,451	182.93	11,813	36,412
182.42	11,126	30,563	182.94	11,826	36,530
182.43	11,139	30,674	182.95	11,840	36,648
182.44	11,153	30,785	182.96	11,853	36,767
182.45	11,166	30,897	182.97	11,867	36,885
182.46	11,180	31,009	182.98	11,880	37,004
182.47	11,193	31,120	182.99	11,894	37,123
182.48	11,207	31,232	183.00	11,907	37,242
182.49	11,220	31,345			
182.50	11,234	31,457			
182.51	11,247	31,569			
182.52	11,260	31,682			
182.53	11,274	31,794			
182.54	11,287	31,907			
182.55	11,301	32,020			
182.56	11,314	32,133			
182.57	11,328	32,247			
182.58	11,341	32,360			
182.59	11,355	32,473			
182.60	11,368	32,587			
182.61	11,382	32,701			
182.62	11,395	32,815			
182.63	11,409	32,929			

Summary for Pond B-2: Basin #2

Inflow Area = 1.894 ac, 38.23% Impervious, Inflow Depth = 2.30" for Future 2 yr event
 Inflow = 4.42 cfs @ 12.17 hrs, Volume= 0.363 af
 Outflow = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af, Atten= 100%, Lag= 0.0 min
 Primary = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af
 Routed to Pond B-1 : Basin #1

Routing by Stor-Ind method, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 Peak Elev= 210.60' @ 24.60 hrs Surf.Area= 9,006 sf Storage= 15,818 cf

Plug-Flow detention time= (not calculated: initial storage exceeds outflow)
 Center-of-Mass det. time= (not calculated: no outflow)

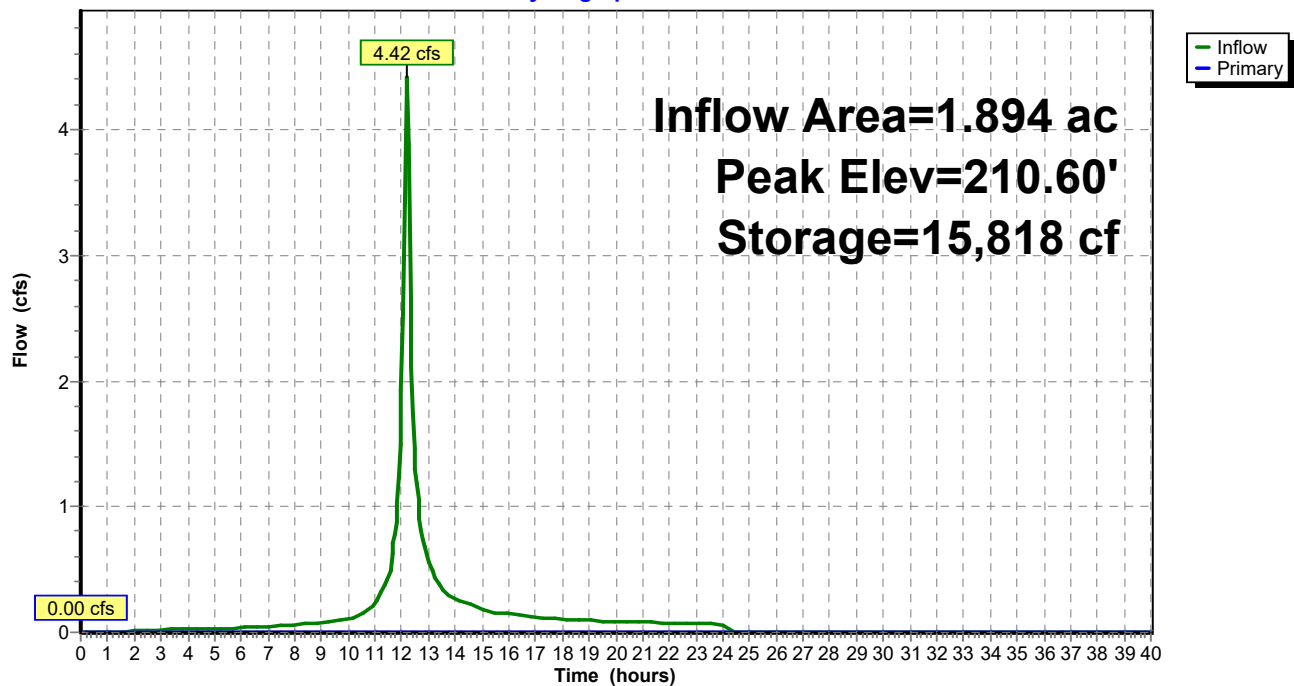
Volume	Invert	Avail.Storage	Storage Description
#1	208.30'	29,385 cf	Custom Stage Data (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
208.30	0	0	0
209.00	7,501	2,625	2,625
210.00	8,431	7,966	10,591
211.00	9,390	8,911	19,502
212.00	10,376	9,883	29,385

Device	Routing	Invert	Outlet Devices
#1	Primary	211.50'	50.0' long + 3.0 ' SideZ x 5.0' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 Coef. (English) 2.34 2.50 2.70 2.68 2.68 2.66 2.65 2.65 2.65 2.65 2.67 2.66 2.68 2.70 2.74 2.79 2.88

Primary OutFlow Max=0.00 cfs @ 0.00 hrs HW=208.30' (Free Discharge)

↑1=**Broad-Crested Rectangular Weir**(Controls 0.00 cfs)

Pond B-2: Basin #2**Hydrograph**

Stage-Discharge for Pond B-2: Basin #2

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
208.30	0.00	208.82	0.00	209.34	0.00	209.86	0.00
208.31	0.00	208.83	0.00	209.35	0.00	209.87	0.00
208.32	0.00	208.84	0.00	209.36	0.00	209.88	0.00
208.33	0.00	208.85	0.00	209.37	0.00	209.89	0.00
208.34	0.00	208.86	0.00	209.38	0.00	209.90	0.00
208.35	0.00	208.87	0.00	209.39	0.00	209.91	0.00
208.36	0.00	208.88	0.00	209.40	0.00	209.92	0.00
208.37	0.00	208.89	0.00	209.41	0.00	209.93	0.00
208.38	0.00	208.90	0.00	209.42	0.00	209.94	0.00
208.39	0.00	208.91	0.00	209.43	0.00	209.95	0.00
208.40	0.00	208.92	0.00	209.44	0.00	209.96	0.00
208.41	0.00	208.93	0.00	209.45	0.00	209.97	0.00
208.42	0.00	208.94	0.00	209.46	0.00	209.98	0.00
208.43	0.00	208.95	0.00	209.47	0.00	209.99	0.00
208.44	0.00	208.96	0.00	209.48	0.00	210.00	0.00
208.45	0.00	208.97	0.00	209.49	0.00	210.01	0.00
208.46	0.00	208.98	0.00	209.50	0.00	210.02	0.00
208.47	0.00	208.99	0.00	209.51	0.00	210.03	0.00
208.48	0.00	209.00	0.00	209.52	0.00	210.04	0.00
208.49	0.00	209.01	0.00	209.53	0.00	210.05	0.00
208.50	0.00	209.02	0.00	209.54	0.00	210.06	0.00
208.51	0.00	209.03	0.00	209.55	0.00	210.07	0.00
208.52	0.00	209.04	0.00	209.56	0.00	210.08	0.00
208.53	0.00	209.05	0.00	209.57	0.00	210.09	0.00
208.54	0.00	209.06	0.00	209.58	0.00	210.10	0.00
208.55	0.00	209.07	0.00	209.59	0.00	210.11	0.00
208.56	0.00	209.08	0.00	209.60	0.00	210.12	0.00
208.57	0.00	209.09	0.00	209.61	0.00	210.13	0.00
208.58	0.00	209.10	0.00	209.62	0.00	210.14	0.00
208.59	0.00	209.11	0.00	209.63	0.00	210.15	0.00
208.60	0.00	209.12	0.00	209.64	0.00	210.16	0.00
208.61	0.00	209.13	0.00	209.65	0.00	210.17	0.00
208.62	0.00	209.14	0.00	209.66	0.00	210.18	0.00
208.63	0.00	209.15	0.00	209.67	0.00	210.19	0.00
208.64	0.00	209.16	0.00	209.68	0.00	210.20	0.00
208.65	0.00	209.17	0.00	209.69	0.00	210.21	0.00
208.66	0.00	209.18	0.00	209.70	0.00	210.22	0.00
208.67	0.00	209.19	0.00	209.71	0.00	210.23	0.00
208.68	0.00	209.20	0.00	209.72	0.00	210.24	0.00
208.69	0.00	209.21	0.00	209.73	0.00	210.25	0.00
208.70	0.00	209.22	0.00	209.74	0.00	210.26	0.00
208.71	0.00	209.23	0.00	209.75	0.00	210.27	0.00
208.72	0.00	209.24	0.00	209.76	0.00	210.28	0.00
208.73	0.00	209.25	0.00	209.77	0.00	210.29	0.00
208.74	0.00	209.26	0.00	209.78	0.00	210.30	0.00
208.75	0.00	209.27	0.00	209.79	0.00	210.31	0.00
208.76	0.00	209.28	0.00	209.80	0.00	210.32	0.00
208.77	0.00	209.29	0.00	209.81	0.00	210.33	0.00
208.78	0.00	209.30	0.00	209.82	0.00	210.34	0.00
208.79	0.00	209.31	0.00	209.83	0.00	210.35	0.00
208.80	0.00	209.32	0.00	209.84	0.00	210.36	0.00
208.81	0.00	209.33	0.00	209.85	0.00	210.37	0.00

Stage-Discharge for Pond B-2: Basin #2 (continued)

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
210.38	0.00	210.90	0.00	211.42	0.00	211.94	37.85
210.39	0.00	210.91	0.00	211.43	0.00	211.95	39.32
210.40	0.00	210.92	0.00	211.44	0.00	211.96	40.82
210.41	0.00	210.93	0.00	211.45	0.00	211.97	42.34
210.42	0.00	210.94	0.00	211.46	0.00	211.98	43.89
210.43	0.00	210.95	0.00	211.47	0.00	211.99	45.46
210.44	0.00	210.96	0.00	211.48	0.00	212.00	47.07
210.45	0.00	210.97	0.00	211.49	0.00		
210.46	0.00	210.98	0.00	211.50	0.00		
210.47	0.00	210.99	0.00	211.51	0.12		
210.48	0.00	211.00	0.00	211.52	0.33		
210.49	0.00	211.01	0.00	211.53	0.61		
210.50	0.00	211.02	0.00	211.54	0.94		
210.51	0.00	211.03	0.00	211.55	1.31		
210.52	0.00	211.04	0.00	211.56	1.72		
210.53	0.00	211.05	0.00	211.57	2.17		
210.54	0.00	211.06	0.00	211.58	2.66		
210.55	0.00	211.07	0.00	211.59	3.17		
210.56	0.00	211.08	0.00	211.60	3.72		
210.57	0.00	211.09	0.00	211.61	4.29		
210.58	0.00	211.10	0.00	211.62	4.89		
210.59	0.00	211.11	0.00	211.63	5.52		
210.60	0.00	211.12	0.00	211.64	6.17		
210.61	0.00	211.13	0.00	211.65	6.85		
210.62	0.00	211.14	0.00	211.66	7.55		
210.63	0.00	211.15	0.00	211.67	8.27		
210.64	0.00	211.16	0.00	211.68	9.01		
210.65	0.00	211.17	0.00	211.69	9.78		
210.66	0.00	211.18	0.00	211.70	10.57		
210.67	0.00	211.19	0.00	211.71	11.41		
210.68	0.00	211.20	0.00	211.72	12.28		
210.69	0.00	211.21	0.00	211.73	13.18		
210.70	0.00	211.22	0.00	211.74	14.11		
210.71	0.00	211.23	0.00	211.75	15.05		
210.72	0.00	211.24	0.00	211.76	16.03		
210.73	0.00	211.25	0.00	211.77	17.03		
210.74	0.00	211.26	0.00	211.78	18.05		
210.75	0.00	211.27	0.00	211.79	19.10		
210.76	0.00	211.28	0.00	211.80	20.17		
210.77	0.00	211.29	0.00	211.81	21.27		
210.78	0.00	211.30	0.00	211.82	22.39		
210.79	0.00	211.31	0.00	211.83	23.53		
210.80	0.00	211.32	0.00	211.84	24.70		
210.81	0.00	211.33	0.00	211.85	25.90		
210.82	0.00	211.34	0.00	211.86	27.11		
210.83	0.00	211.35	0.00	211.87	28.36		
210.84	0.00	211.36	0.00	211.88	29.62		
210.85	0.00	211.37	0.00	211.89	30.92		
210.86	0.00	211.38	0.00	211.90	32.23		
210.87	0.00	211.39	0.00	211.91	33.60		
210.88	0.00	211.40	0.00	211.92	34.99		
210.89	0.00	211.41	0.00	211.93	36.41		

Stage-Area-Storage for Pond B-2: Basin #2

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
208.30	0	0	208.82	5,572	1,449
208.31	107	1	208.83	5,679	1,505
208.32	214	2	208.84	5,786	1,562
208.33	321	5	208.85	5,894	1,621
208.34	429	9	208.86	6,001	1,680
208.35	536	13	208.87	6,108	1,741
208.36	643	19	208.88	6,215	1,802
208.37	750	26	208.89	6,322	1,865
208.38	857	34	208.90	6,429	1,929
208.39	964	43	208.91	6,537	1,994
208.40	1,072	54	208.92	6,644	2,060
208.41	1,179	65	208.93	6,751	2,127
208.42	1,286	77	208.94	6,858	2,195
208.43	1,393	91	208.95	6,965	2,264
208.44	1,500	105	208.96	7,072	2,334
208.45	1,607	121	208.97	7,180	2,405
208.46	1,715	137	208.98	7,287	2,477
208.47	1,822	155	208.99	7,394	2,551
208.48	1,929	174	209.00	7,501	2,625
208.49	2,036	193	209.01	7,510	2,700
208.50	2,143	214	209.02	7,520	2,776
208.51	2,250	236	209.03	7,529	2,851
208.52	2,357	259	209.04	7,538	2,926
208.53	2,465	283	209.05	7,548	3,002
208.54	2,572	309	209.06	7,557	3,077
208.55	2,679	335	209.07	7,566	3,153
208.56	2,786	362	209.08	7,575	3,228
208.57	2,893	391	209.09	7,585	3,304
208.58	3,000	420	209.10	7,594	3,380
208.59	3,108	451	209.11	7,603	3,456
208.60	3,215	482	209.12	7,613	3,532
208.61	3,322	515	209.13	7,622	3,608
208.62	3,429	549	209.14	7,631	3,685
208.63	3,536	583	209.15	7,641	3,761
208.64	3,643	619	209.16	7,650	3,837
208.65	3,751	656	209.17	7,659	3,914
208.66	3,858	694	209.18	7,668	3,991
208.67	3,965	733	209.19	7,678	4,067
208.68	4,072	774	209.20	7,687	4,144
208.69	4,179	815	209.21	7,696	4,221
208.70	4,286	857	209.22	7,706	4,298
208.71	4,393	901	209.23	7,715	4,375
208.72	4,501	945	209.24	7,724	4,452
208.73	4,608	991	209.25	7,734	4,530
208.74	4,715	1,037	209.26	7,743	4,607
208.75	4,822	1,085	209.27	7,752	4,685
208.76	4,929	1,134	209.28	7,761	4,762
208.77	5,036	1,184	209.29	7,771	4,840
208.78	5,144	1,234	209.30	7,780	4,918
208.79	5,251	1,286	209.31	7,789	4,995
208.80	5,358	1,339	209.32	7,799	5,073
208.81	5,465	1,394	209.33	7,808	5,151

Stage-Area-Storage for Pond B-2: Basin #2 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
209.34	7,817	5,229	209.86	8,301	9,420
209.35	7,827	5,308	209.87	8,310	9,503
209.36	7,836	5,386	209.88	8,319	9,586
209.37	7,845	5,464	209.89	8,329	9,670
209.38	7,854	5,543	209.90	8,338	9,753
209.39	7,864	5,621	209.91	8,347	9,836
209.40	7,873	5,700	209.92	8,357	9,920
209.41	7,882	5,779	209.93	8,366	10,003
209.42	7,892	5,858	209.94	8,375	10,087
209.43	7,901	5,937	209.95	8,385	10,171
209.44	7,910	6,016	209.96	8,394	10,255
209.45	7,920	6,095	209.97	8,403	10,339
209.46	7,929	6,174	209.98	8,412	10,423
209.47	7,938	6,254	209.99	8,422	10,507
209.48	7,947	6,333	210.00	8,431	10,591
209.49	7,957	6,412	210.01	8,441	10,676
209.50	7,966	6,492	210.02	8,450	10,760
209.51	7,975	6,572	210.03	8,460	10,845
209.52	7,985	6,652	210.04	8,469	10,929
209.53	7,994	6,731	210.05	8,479	11,014
209.54	8,003	6,811	210.06	8,489	11,099
209.55	8,013	6,892	210.07	8,498	11,184
209.56	8,022	6,972	210.08	8,508	11,269
209.57	8,031	7,052	210.09	8,517	11,354
209.58	8,040	7,132	210.10	8,527	11,439
209.59	8,050	7,213	210.11	8,536	11,525
209.60	8,059	7,293	210.12	8,546	11,610
209.61	8,068	7,374	210.13	8,556	11,695
209.62	8,078	7,455	210.14	8,565	11,781
209.63	8,087	7,536	210.15	8,575	11,867
209.64	8,096	7,616	210.16	8,584	11,953
209.65	8,106	7,697	210.17	8,594	12,038
209.66	8,115	7,779	210.18	8,604	12,124
209.67	8,124	7,860	210.19	8,613	12,211
209.68	8,133	7,941	210.20	8,623	12,297
209.69	8,143	8,022	210.21	8,632	12,383
209.70	8,152	8,104	210.22	8,642	12,469
209.71	8,161	8,185	210.23	8,652	12,556
209.72	8,171	8,267	210.24	8,661	12,642
209.73	8,180	8,349	210.25	8,671	12,729
209.74	8,189	8,431	210.26	8,680	12,816
209.75	8,199	8,513	210.27	8,690	12,903
209.76	8,208	8,595	210.28	8,700	12,990
209.77	8,217	8,677	210.29	8,709	13,077
209.78	8,226	8,759	210.30	8,719	13,164
209.79	8,236	8,841	210.31	8,728	13,251
209.80	8,245	8,924	210.32	8,738	13,338
209.81	8,254	9,006	210.33	8,747	13,426
209.82	8,264	9,089	210.34	8,757	13,513
209.83	8,273	9,172	210.35	8,767	13,601
209.84	8,282	9,254	210.36	8,776	13,689
209.85	8,292	9,337	210.37	8,786	13,776

Stage-Area-Storage for Pond B-2: Basin #2 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
210.38	8,795	13,864	210.90	9,294	18,568
210.39	8,805	13,952	210.91	9,304	18,661
210.40	8,815	14,040	210.92	9,313	18,754
210.41	8,824	14,129	210.93	9,323	18,847
210.42	8,834	14,217	210.94	9,332	18,940
210.43	8,843	14,305	210.95	9,342	19,034
210.44	8,853	14,394	210.96	9,352	19,127
210.45	8,863	14,482	210.97	9,361	19,221
210.46	8,872	14,571	210.98	9,371	19,314
210.47	8,882	14,660	210.99	9,380	19,408
210.48	8,891	14,749	211.00	9,390	19,502
210.49	8,901	14,838	211.01	9,400	19,596
210.50	8,911	14,927	211.02	9,410	19,690
210.51	8,920	15,016	211.03	9,420	19,784
210.52	8,930	15,105	211.04	9,429	19,878
210.53	8,939	15,194	211.05	9,439	19,973
210.54	8,949	15,284	211.06	9,449	20,067
210.55	8,958	15,373	211.07	9,459	20,162
210.56	8,968	15,463	211.08	9,469	20,256
210.57	8,978	15,553	211.09	9,479	20,351
210.58	8,987	15,643	211.10	9,489	20,446
210.59	8,997	15,733	211.11	9,498	20,541
210.60	9,006	15,823	211.12	9,508	20,636
210.61	9,016	15,913	211.13	9,518	20,731
210.62	9,026	16,003	211.14	9,528	20,826
210.63	9,035	16,093	211.15	9,538	20,921
210.64	9,045	16,184	211.16	9,548	21,017
210.65	9,054	16,274	211.17	9,558	21,112
210.66	9,064	16,365	211.18	9,567	21,208
210.67	9,074	16,455	211.19	9,577	21,304
210.68	9,083	16,546	211.20	9,587	21,400
210.69	9,093	16,637	211.21	9,597	21,495
210.70	9,102	16,728	211.22	9,607	21,592
210.71	9,112	16,819	211.23	9,617	21,688
210.72	9,121	16,910	211.24	9,627	21,784
210.73	9,131	17,002	211.25	9,637	21,880
210.74	9,141	17,093	211.26	9,646	21,977
210.75	9,150	17,184	211.27	9,656	22,073
210.76	9,160	17,276	211.28	9,666	22,170
210.77	9,169	17,368	211.29	9,676	22,266
210.78	9,179	17,459	211.30	9,686	22,363
210.79	9,189	17,551	211.31	9,696	22,460
210.80	9,198	17,643	211.32	9,706	22,557
210.81	9,208	17,735	211.33	9,715	22,654
210.82	9,217	17,827	211.34	9,725	22,751
210.83	9,227	17,919	211.35	9,735	22,849
210.84	9,237	18,012	211.36	9,745	22,946
210.85	9,246	18,104	211.37	9,755	23,044
210.86	9,256	18,197	211.38	9,765	23,141
210.87	9,265	18,289	211.39	9,775	23,239
210.88	9,275	18,382	211.40	9,784	23,337
210.89	9,285	18,475	211.41	9,794	23,435

Stage-Area-Storage for Pond B-2: Basin #2 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
211.42	9,804	23,533	211.94	10,317	28,764
211.43	9,814	23,631	211.95	10,327	28,867
211.44	9,824	23,729	211.96	10,337	28,971
211.45	9,834	23,827	211.97	10,346	29,074
211.46	9,844	23,926	211.98	10,356	29,178
211.47	9,853	24,024	211.99	10,366	29,281
211.48	9,863	24,123	212.00	10,376	29,385
211.49	9,873	24,221			
211.50	9,883	24,320			
211.51	9,893	24,419			
211.52	9,903	24,518			
211.53	9,913	24,617			
211.54	9,922	24,716			
211.55	9,932	24,815			
211.56	9,942	24,915			
211.57	9,952	25,014			
211.58	9,962	25,114			
211.59	9,972	25,214			
211.60	9,982	25,313			
211.61	9,991	25,413			
211.62	10,001	25,513			
211.63	10,011	25,613			
211.64	10,021	25,713			
211.65	10,031	25,814			
211.66	10,041	25,914			
211.67	10,051	26,014			
211.68	10,060	26,115			
211.69	10,070	26,216			
211.70	10,080	26,316			
211.71	10,090	26,417			
211.72	10,100	26,518			
211.73	10,110	26,619			
211.74	10,120	26,720			
211.75	10,130	26,822			
211.76	10,139	26,923			
211.77	10,149	27,024			
211.78	10,159	27,126			
211.79	10,169	27,228			
211.80	10,179	27,329			
211.81	10,189	27,431			
211.82	10,199	27,533			
211.83	10,208	27,635			
211.84	10,218	27,737			
211.85	10,228	27,840			
211.86	10,238	27,942			
211.87	10,248	28,044			
211.88	10,258	28,147			
211.89	10,268	28,249			
211.90	10,277	28,352			
211.91	10,287	28,455			
211.92	10,297	28,558			
211.93	10,307	28,661			

Summary for Pond B-3: Basin #3

Inflow Area = 1.554 ac, 38.35% Impervious, Inflow Depth = 2.30" for Future 2 yr event
 Inflow = 3.63 cfs @ 12.17 hrs, Volume= 0.298 af
 Outflow = 0.14 cfs @ 15.12 hrs, Volume= 0.272 af, Atten= 96%, Lag= 176.8 min
 Primary = 0.14 cfs @ 15.12 hrs, Volume= 0.272 af
 Routed to Link PDA-1 : Proposed Drainage Area #1

Routing by Stor-Ind method, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 Peak Elev= 213.74' @ 15.12 hrs Surf.Area= 11,972 sf Storage= 8,075 cf

Plug-Flow detention time= 632.8 min calculated for 0.272 af (91% of inflow)
 Center-of-Mass det. time= 586.0 min (1,383.6 - 797.6)

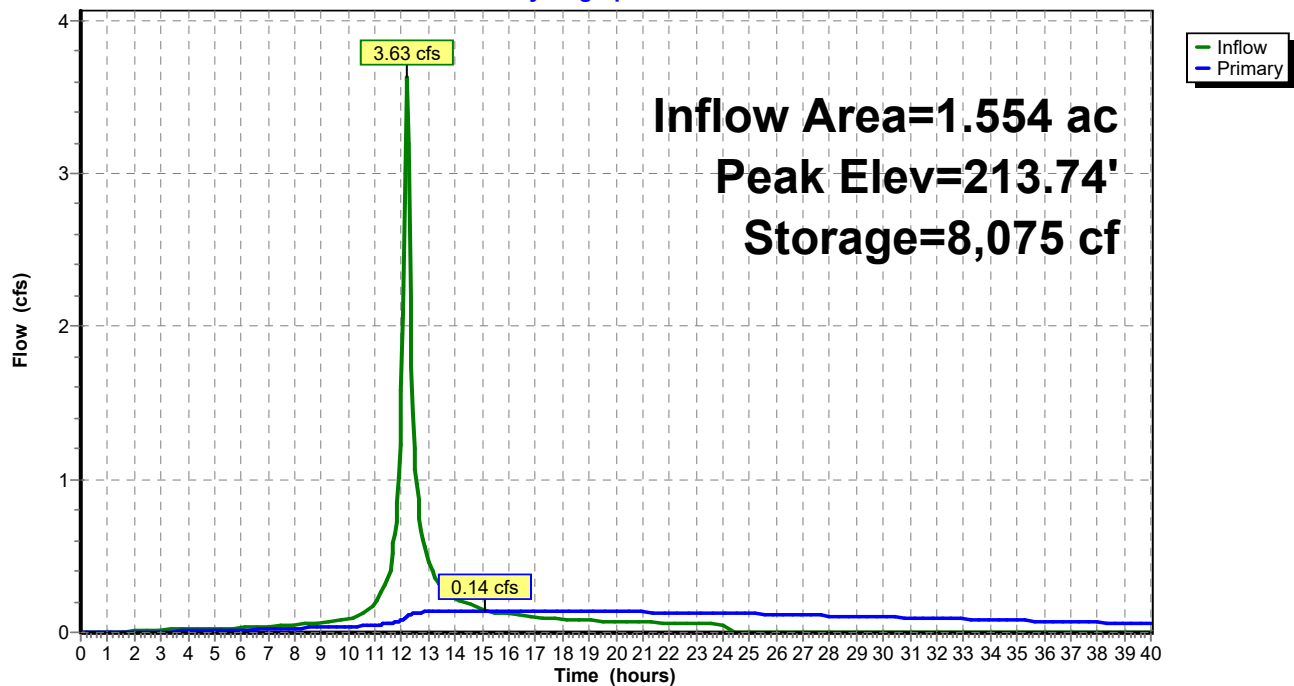
Volume	Invert	Avail.Storage	Storage Description
#1	213.00'	56,991 cf	Custom Stage Data (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
213.00	9,992	0	0
214.00	12,685	11,339	11,339
215.00	15,435	14,060	25,399
216.00	18,241	16,838	42,237
216.75	21,104	14,754	56,991

Device	Routing	Invert	Outlet Devices
#1	Primary	212.30'	18.0" Round Culvert L= 151.0' Ke= 0.500 Inlet / Outlet Invert= 212.30' / 202.00' S= 0.0682 ' S= 0.0682 ' Cc= 0.900 n= 0.013 Concrete pipe, straight & clean, Flow Area= 1.77 sf
#2	Device 1	212.90'	2.5" Vert. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#3	Device 1	215.50'	4.0' long Sharp-Crested Rectangular Weir 2 End Contraction(s)
#4	Primary	216.70'	50.0' long + 3.0 ' SideZ x 5.0' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 Coef. (English) 2.34 2.50 2.70 2.68 2.68 2.66 2.65 2.65 2.65 2.65 2.67 2.66 2.68 2.70 2.74 2.79 2.88

Primary OutFlow Max=0.14 cfs @ 15.12 hrs HW=213.74' (Free Discharge)

1=Culvert (Passes 0.14 cfs of 7.10 cfs potential flow)
 2=Orifice/Grate (Orifice Controls 0.14 cfs @ 4.12 fps)
 3=Sharp-Crested Rectangular Weir (Controls 0.00 cfs)
 4=Broad-Crested Rectangular Weir (Controls 0.00 cfs)

Pond B-3: Basin #3**Hydrograph**

Stage-Discharge for Pond B-3: Basin #3

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
213.00	0.00	213.52	0.12	214.04	0.17	214.56	0.20
213.01	0.02	213.53	0.12	214.05	0.17	214.57	0.21
213.02	0.02	213.54	0.12	214.06	0.17	214.58	0.21
213.03	0.03	213.55	0.12	214.07	0.17	214.59	0.21
213.04	0.03	213.56	0.12	214.08	0.17	214.60	0.21
213.05	0.03	213.57	0.12	214.09	0.17	214.61	0.21
213.06	0.04	213.58	0.12	214.10	0.17	214.62	0.21
213.07	0.04	213.59	0.13	214.11	0.17	214.63	0.21
213.08	0.05	213.60	0.13	214.12	0.17	214.64	0.21
213.09	0.05	213.61	0.13	214.13	0.17	214.65	0.21
213.10	0.05	213.62	0.13	214.14	0.17	214.66	0.21
213.11	0.05	213.63	0.13	214.15	0.18	214.67	0.21
213.12	0.06	213.64	0.13	214.16	0.18	214.68	0.21
213.13	0.06	213.65	0.13	214.17	0.18	214.69	0.21
213.14	0.06	213.66	0.13	214.18	0.18	214.70	0.21
213.15	0.06	213.67	0.13	214.19	0.18	214.71	0.21
213.16	0.06	213.68	0.13	214.20	0.18	214.72	0.22
213.17	0.07	213.69	0.14	214.21	0.18	214.73	0.22
213.18	0.07	213.70	0.14	214.22	0.18	214.74	0.22
213.19	0.07	213.71	0.14	214.23	0.18	214.75	0.22
213.20	0.07	213.72	0.14	214.24	0.18	214.76	0.22
213.21	0.07	213.73	0.14	214.25	0.18	214.77	0.22
213.22	0.08	213.74	0.14	214.26	0.18	214.78	0.22
213.23	0.08	213.75	0.14	214.27	0.18	214.79	0.22
213.24	0.08	213.76	0.14	214.28	0.19	214.80	0.22
213.25	0.08	213.77	0.14	214.29	0.19	214.81	0.22
213.26	0.08	213.78	0.14	214.30	0.19	214.82	0.22
213.27	0.08	213.79	0.15	214.31	0.19	214.83	0.22
213.28	0.09	213.80	0.15	214.32	0.19	214.84	0.22
213.29	0.09	213.81	0.15	214.33	0.19	214.85	0.22
213.30	0.09	213.82	0.15	214.34	0.19	214.86	0.22
213.31	0.09	213.83	0.15	214.35	0.19	214.87	0.22
213.32	0.09	213.84	0.15	214.36	0.19	214.88	0.22
213.33	0.09	213.85	0.15	214.37	0.19	214.89	0.23
213.34	0.10	213.86	0.15	214.38	0.19	214.90	0.23
213.35	0.10	213.87	0.15	214.39	0.19	214.91	0.23
213.36	0.10	213.88	0.15	214.40	0.19	214.92	0.23
213.37	0.10	213.89	0.15	214.41	0.19	214.93	0.23
213.38	0.10	213.90	0.16	214.42	0.20	214.94	0.23
213.39	0.10	213.91	0.16	214.43	0.20	214.95	0.23
213.40	0.10	213.92	0.16	214.44	0.20	214.96	0.23
213.41	0.10	213.93	0.16	214.45	0.20	214.97	0.23
213.42	0.11	213.94	0.16	214.46	0.20	214.98	0.23
213.43	0.11	213.95	0.16	214.47	0.20	214.99	0.23
213.44	0.11	213.96	0.16	214.48	0.20	215.00	0.23
213.45	0.11	213.97	0.16	214.49	0.20	215.01	0.23
213.46	0.11	213.98	0.16	214.50	0.20	215.02	0.23
213.47	0.11	213.99	0.16	214.51	0.20	215.03	0.23
213.48	0.11	214.00	0.16	214.52	0.20	215.04	0.23
213.49	0.11	214.01	0.16	214.53	0.20	215.05	0.23
213.50	0.12	214.02	0.17	214.54	0.20	215.06	0.24
213.51	0.12	214.03	0.17	214.55	0.20	215.07	0.24

Stage-Discharge for Pond B-3: Basin #3 (continued)

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
215.08	0.24	215.60	0.68	216.12	6.48	216.64	15.33
215.09	0.24	215.61	0.74	216.13	6.62	216.65	15.52
215.10	0.24	215.62	0.81	216.14	6.77	216.66	15.71
215.11	0.24	215.63	0.88	216.15	6.92	216.67	15.90
215.12	0.24	215.64	0.95	216.16	7.07	216.68	16.09
215.13	0.24	215.65	1.02	216.17	7.23	216.69	16.23
215.14	0.24	215.66	1.10	216.18	7.38	216.70	16.26
215.15	0.24	215.67	1.18	216.19	7.53	216.71	16.40
215.16	0.24	215.68	1.26	216.20	7.69	216.72	16.63
215.17	0.24	215.69	1.34	216.21	7.84	216.73	16.93
215.18	0.24	215.70	1.43	216.22	8.00	216.74	17.28
215.19	0.24	215.71	1.52	216.23	8.16	216.75	17.68
215.20	0.24	215.72	1.61	216.24	8.31		
215.21	0.24	215.73	1.70	216.25	8.47		
215.22	0.24	215.74	1.79	216.26	8.63		
215.23	0.24	215.75	1.89	216.27	8.79		
215.24	0.25	215.76	1.98	216.28	8.96		
215.25	0.25	215.77	2.08	216.29	9.12		
215.26	0.25	215.78	2.18	216.30	9.28		
215.27	0.25	215.79	2.29	216.31	9.45		
215.28	0.25	215.80	2.39	216.32	9.61		
215.29	0.25	215.81	2.50	216.33	9.78		
215.30	0.25	215.82	2.61	216.34	9.95		
215.31	0.25	215.83	2.71	216.35	10.11		
215.32	0.25	215.84	2.83	216.36	10.28		
215.33	0.25	215.85	2.94	216.37	10.45		
215.34	0.25	215.86	3.05	216.38	10.62		
215.35	0.25	215.87	3.17	216.39	10.80		
215.36	0.25	215.88	3.28	216.40	10.97		
215.37	0.25	215.89	3.40	216.41	11.14		
215.38	0.25	215.90	3.52	216.42	11.31		
215.39	0.25	215.91	3.64	216.43	11.49		
215.40	0.25	215.92	3.77	216.44	11.66		
215.41	0.25	215.93	3.89	216.45	11.84		
215.42	0.26	215.94	4.01	216.46	12.02		
215.43	0.26	215.95	4.14	216.47	12.20		
215.44	0.26	215.96	4.27	216.48	12.37		
215.45	0.26	215.97	4.40	216.49	12.55		
215.46	0.26	215.98	4.53	216.50	12.73		
215.47	0.26	215.99	4.66	216.51	12.91		
215.48	0.26	216.00	4.79	216.52	13.09		
215.49	0.26	216.01	4.93	216.53	13.28		
215.50	0.26	216.02	5.06	216.54	13.46		
215.51	0.27	216.03	5.20	216.55	13.64		
215.52	0.30	216.04	5.34	216.56	13.83		
215.53	0.33	216.05	5.47	216.57	14.01		
215.54	0.37	216.06	5.61	216.58	14.20		
215.55	0.41	216.07	5.76	216.59	14.38		
215.56	0.45	216.08	5.90	216.60	14.57		
215.57	0.50	216.09	6.04	216.61	14.76		
215.58	0.56	216.10	6.19	216.62	14.95		
215.59	0.62	216.11	6.33	216.63	15.14		

Stage-Area-Storage for Pond B-3: Basin #3

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
213.00	9,992	0	213.52	11,392	5,560
213.01	10,019	100	213.53	11,419	5,674
213.02	10,046	200	213.54	11,446	5,788
213.03	10,073	301	213.55	11,473	5,903
213.04	10,100	402	213.56	11,500	6,018
213.05	10,127	503	213.57	11,527	6,133
213.06	10,154	604	213.58	11,554	6,248
213.07	10,181	706	213.59	11,581	6,364
213.08	10,207	808	213.60	11,608	6,480
213.09	10,234	910	213.61	11,635	6,596
213.10	10,261	1,013	213.62	11,662	6,713
213.11	10,288	1,115	213.63	11,689	6,829
213.12	10,315	1,218	213.64	11,716	6,946
213.13	10,342	1,322	213.65	11,742	7,064
213.14	10,369	1,425	213.66	11,769	7,181
213.15	10,396	1,529	213.67	11,796	7,299
213.16	10,423	1,633	213.68	11,823	7,417
213.17	10,450	1,738	213.69	11,850	7,536
213.18	10,477	1,842	213.70	11,877	7,654
213.19	10,504	1,947	213.71	11,904	7,773
213.20	10,531	2,052	213.72	11,931	7,892
213.21	10,558	2,158	213.73	11,958	8,012
213.22	10,584	2,263	213.74	11,985	8,131
213.23	10,611	2,369	213.75	12,012	8,251
213.24	10,638	2,476	213.76	12,039	8,372
213.25	10,665	2,582	213.77	12,066	8,492
213.26	10,692	2,689	213.78	12,093	8,613
213.27	10,719	2,796	213.79	12,119	8,734
213.28	10,746	2,903	213.80	12,146	8,855
213.29	10,773	3,011	213.81	12,173	8,977
213.30	10,800	3,119	213.82	12,200	9,099
213.31	10,827	3,227	213.83	12,227	9,221
213.32	10,854	3,335	213.84	12,254	9,343
213.33	10,881	3,444	213.85	12,281	9,466
213.34	10,908	3,553	213.86	12,308	9,589
213.35	10,935	3,662	213.87	12,335	9,712
213.36	10,961	3,772	213.88	12,362	9,836
213.37	10,988	3,881	213.89	12,389	9,959
213.38	11,015	3,991	213.90	12,416	10,083
213.39	11,042	4,102	213.91	12,443	10,208
213.40	11,069	4,212	213.92	12,470	10,332
213.41	11,096	4,323	213.93	12,496	10,457
213.42	11,123	4,434	213.94	12,523	10,582
213.43	11,150	4,546	213.95	12,550	10,708
213.44	11,177	4,657	213.96	12,577	10,833
213.45	11,204	4,769	213.97	12,604	10,959
213.46	11,231	4,881	213.98	12,631	11,085
213.47	11,258	4,994	213.99	12,658	11,212
213.48	11,285	5,106	214.00	12,685	11,339
213.49	11,312	5,219	214.01	12,712	11,465
213.50	11,339	5,333	214.02	12,740	11,593
213.51	11,365	5,446	214.03	12,768	11,720

Stage-Area-Storage for Pond B-3: Basin #3 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
214.04	12,795	11,848	214.56	14,225	18,873
214.05	12,823	11,976	214.57	14,252	19,016
214.06	12,850	12,105	214.58	14,280	19,158
214.07	12,877	12,233	214.59	14,308	19,301
214.08	12,905	12,362	214.60	14,335	19,444
214.09	12,933	12,491	214.61	14,363	19,588
214.10	12,960	12,621	214.62	14,390	19,732
214.11	12,988	12,750	214.63	14,417	19,876
214.12	13,015	12,881	214.64	14,445	20,020
214.13	13,042	13,011	214.65	14,473	20,165
214.14	13,070	13,141	214.66	14,500	20,310
214.15	13,098	13,272	214.67	14,527	20,455
214.16	13,125	13,403	214.68	14,555	20,600
214.17	13,152	13,535	214.69	14,582	20,746
214.18	13,180	13,666	214.70	14,610	20,892
214.19	13,207	13,798	214.71	14,638	21,038
214.20	13,235	13,930	214.72	14,665	21,184
214.21	13,263	14,063	214.73	14,692	21,331
214.22	13,290	14,196	214.74	14,720	21,478
214.23	13,317	14,329	214.75	14,748	21,626
214.24	13,345	14,462	214.76	14,775	21,773
214.25	13,373	14,596	214.77	14,803	21,921
214.26	13,400	14,730	214.78	14,830	22,069
214.27	13,428	14,864	214.79	14,857	22,218
214.28	13,455	14,998	214.80	14,885	22,367
214.29	13,482	15,133	214.81	14,913	22,515
214.30	13,510	15,268	214.82	14,940	22,665
214.31	13,538	15,403	214.83	14,968	22,814
214.32	13,565	15,538	214.84	14,995	22,964
214.33	13,593	15,674	214.85	15,022	23,114
214.34	13,620	15,810	214.86	15,050	23,265
214.35	13,647	15,947	214.87	15,078	23,415
214.36	13,675	16,083	214.88	15,105	23,566
214.37	13,703	16,220	214.89	15,132	23,717
214.38	13,730	16,357	214.90	15,160	23,869
214.39	13,757	16,495	214.91	15,187	24,020
214.40	13,785	16,633	214.92	15,215	24,172
214.41	13,812	16,770	214.93	15,243	24,325
214.42	13,840	16,909	214.94	15,270	24,477
214.43	13,868	17,047	214.95	15,297	24,630
214.44	13,895	17,186	214.96	15,325	24,783
214.45	13,922	17,325	214.97	15,352	24,937
214.46	13,950	17,465	214.98	15,380	25,090
214.47	13,977	17,604	214.99	15,408	25,244
214.48	14,005	17,744	215.00	15,435	25,399
214.49	14,033	17,884	215.01	15,463	25,553
214.50	14,060	18,025	215.02	15,491	25,708
214.51	14,087	18,165	215.03	15,519	25,863
214.52	14,115	18,307	215.04	15,547	26,018
214.53	14,143	18,448	215.05	15,575	26,174
214.54	14,170	18,589	215.06	15,603	26,330
214.55	14,198	18,731	215.07	15,631	26,486

Stage-Area-Storage for Pond B-3: Basin #3 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
215.08	15,659	26,642	215.60	17,119	35,165
215.09	15,688	26,799	215.61	17,147	35,336
215.10	15,716	26,956	215.62	17,175	35,508
215.11	15,744	27,113	215.63	17,203	35,679
215.12	15,772	27,271	215.64	17,231	35,852
215.13	15,800	27,429	215.65	17,259	36,024
215.14	15,828	27,587	215.66	17,287	36,197
215.15	15,856	27,745	215.67	17,315	36,370
215.16	15,884	27,904	215.68	17,343	36,543
215.17	15,912	28,063	215.69	17,371	36,717
215.18	15,940	28,222	215.70	17,399	36,890
215.19	15,968	28,382	215.71	17,427	37,065
215.20	15,996	28,542	215.72	17,455	37,239
215.21	16,024	28,702	215.73	17,483	37,414
215.22	16,052	28,862	215.74	17,511	37,589
215.23	16,080	29,023	215.75	17,540	37,764
215.24	16,108	29,184	215.76	17,568	37,939
215.25	16,137	29,345	215.77	17,596	38,115
215.26	16,165	29,506	215.78	17,624	38,291
215.27	16,193	29,668	215.79	17,652	38,468
215.28	16,221	29,830	215.80	17,680	38,644
215.29	16,249	29,993	215.81	17,708	38,821
215.30	16,277	30,155	215.82	17,736	38,999
215.31	16,305	30,318	215.83	17,764	39,176
215.32	16,333	30,481	215.84	17,792	39,354
215.33	16,361	30,645	215.85	17,820	39,532
215.34	16,389	30,809	215.86	17,848	39,710
215.35	16,417	30,973	215.87	17,876	39,889
215.36	16,445	31,137	215.88	17,904	40,068
215.37	16,473	31,302	215.89	17,932	40,247
215.38	16,501	31,466	215.90	17,960	40,426
215.39	16,529	31,632	215.91	17,988	40,606
215.40	16,557	31,797	215.92	18,017	40,786
215.41	16,585	31,963	215.93	18,045	40,967
215.42	16,614	32,129	215.94	18,073	41,147
215.43	16,642	32,295	215.95	18,101	41,328
215.44	16,670	32,462	215.96	18,129	41,509
215.45	16,698	32,628	215.97	18,157	41,691
215.46	16,726	32,795	215.98	18,185	41,872
215.47	16,754	32,963	215.99	18,213	42,054
215.48	16,782	33,131	216.00	18,241	42,237
215.49	16,810	33,299	216.01	18,279	42,419
215.50	16,838	33,467	216.02	18,317	42,602
215.51	16,866	33,635	216.03	18,356	42,785
215.52	16,894	33,804	216.04	18,394	42,969
215.53	16,922	33,973	216.05	18,432	43,153
215.54	16,950	34,143	216.06	18,470	43,338
215.55	16,978	34,312	216.07	18,508	43,523
215.56	17,006	34,482	216.08	18,546	43,708
215.57	17,034	34,652	216.09	18,585	43,894
215.58	17,062	34,823	216.10	18,623	44,080
215.59	17,091	34,994	216.11	18,661	44,266

Stage-Area-Storage for Pond B-3: Basin #3 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
216.12	18,699	44,453	216.64	20,684	54,693
216.13	18,737	44,640	216.65	20,722	54,900
216.14	18,775	44,828	216.66	20,760	55,107
216.15	18,814	45,016	216.67	20,799	55,315
216.16	18,852	45,204	216.68	20,837	55,523
216.17	18,890	45,393	216.69	20,875	55,732
216.18	18,928	45,582	216.70	20,913	55,940
216.19	18,966	45,771	216.71	20,951	56,150
216.20	19,004	45,961	216.72	20,989	56,359
216.21	19,043	46,151	216.73	21,028	56,570
216.22	19,081	46,342	216.74	21,066	56,780
216.23	19,119	46,533	216.75	21,104	56,991
216.24	19,157	46,724			
216.25	19,195	46,916			
216.26	19,234	47,108			
216.27	19,272	47,301			
216.28	19,310	47,494			
216.29	19,348	47,687			
216.30	19,386	47,881			
216.31	19,424	48,075			
216.32	19,463	48,269			
216.33	19,501	48,464			
216.34	19,539	48,659			
216.35	19,577	48,855			
216.36	19,615	49,051			
216.37	19,653	49,247			
216.38	19,692	49,444			
216.39	19,730	49,641			
216.40	19,768	49,838			
216.41	19,806	50,036			
216.42	19,844	50,234			
216.43	19,882	50,433			
216.44	19,921	50,632			
216.45	19,959	50,831			
216.46	19,997	51,031			
216.47	20,035	51,231			
216.48	20,073	51,432			
216.49	20,111	51,633			
216.50	20,150	51,834			
216.51	20,188	52,036			
216.52	20,226	52,238			
216.53	20,264	52,440			
216.54	20,302	52,643			
216.55	20,341	52,846			
216.56	20,379	53,050			
216.57	20,417	53,254			
216.58	20,455	53,458			
216.59	20,493	53,663			
216.60	20,531	53,868			
216.61	20,570	54,074			
216.62	20,608	54,280			
216.63	20,646	54,486			

Summary for Pond B-4A: Basin #4A

Inflow Area = 2.331 ac, 36.89% Impervious, Inflow Depth = 2.27" for Future 2 yr event
 Inflow = 5.38 cfs @ 12.17 hrs, Volume= 0.441 af
 Outflow = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af, Atten= 100%, Lag= 0.0 min
 Primary = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af
 Routed to Pond B-5 : Basin #5

Routing by Stor-Ind method, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 Peak Elev= 205.21' @ 24.60 hrs Surf.Area= 5,792 sf Storage= 19,227 cf

Plug-Flow detention time= (not calculated: initial storage exceeds outflow)
 Center-of-Mass det. time= (not calculated: no outflow)

Volume	Invert	Avail.Storage	Storage Description
#1	200.00'	20,963 cf	Custom Stage Data (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
200.00	1,891	0	0
201.00	2,495	2,193	2,193
202.00	3,169	2,832	5,025
203.00	3,912	3,541	8,566
204.00	4,724	4,318	12,884
205.00	5,604	5,164	18,048
205.50	6,057	2,915	20,963

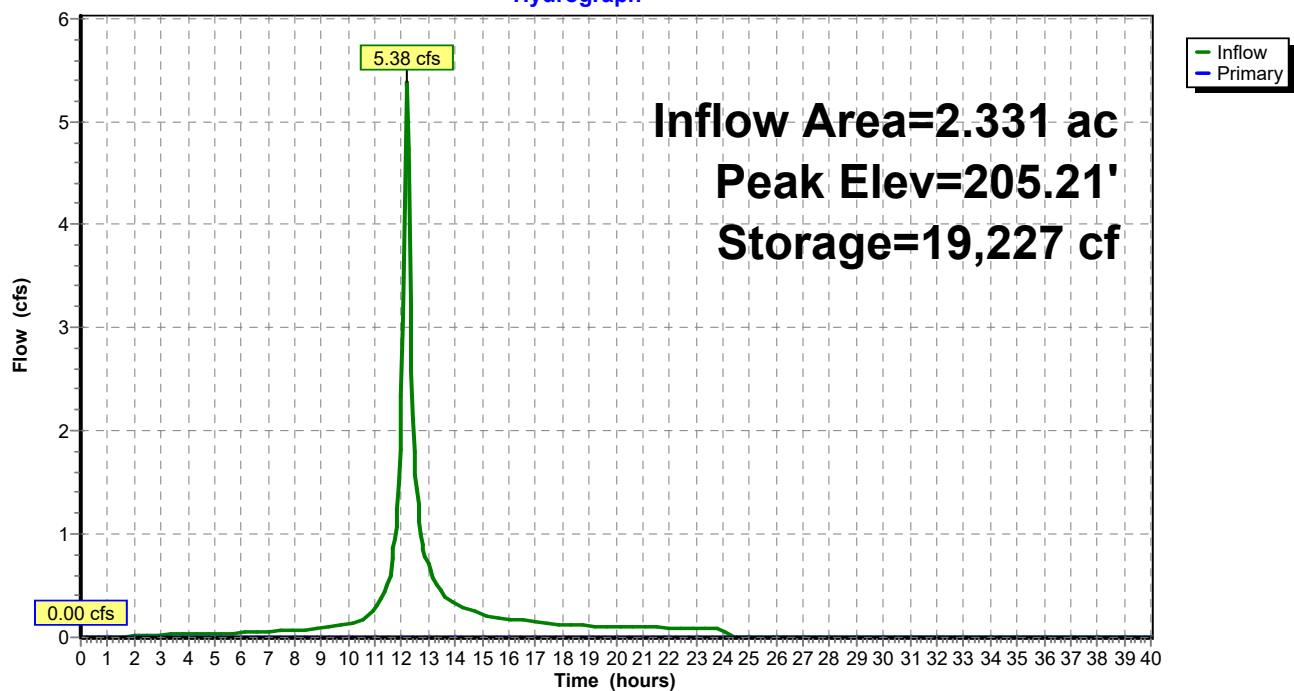
Device	Routing	Invert	Outlet Devices
#1	Primary	205.45'	50.0' long + 3.0 ' SideZ x 5.0' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 Coef. (English) 2.34 2.50 2.70 2.68 2.68 2.66 2.65 2.65 2.65 2.65 2.67 2.66 2.68 2.70 2.74 2.79 2.88

Primary OutFlow Max=0.00 cfs @ 0.00 hrs HW=200.00' (Free Discharge)

↑ **1=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)

Pond B-4A: Basin #4A

Hydrograph



Stage-Discharge for Pond B-4A: Basin #4A

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
200.00	0.00	200.52	0.00	201.04	0.00	201.56	0.00
200.01	0.00	200.53	0.00	201.05	0.00	201.57	0.00
200.02	0.00	200.54	0.00	201.06	0.00	201.58	0.00
200.03	0.00	200.55	0.00	201.07	0.00	201.59	0.00
200.04	0.00	200.56	0.00	201.08	0.00	201.60	0.00
200.05	0.00	200.57	0.00	201.09	0.00	201.61	0.00
200.06	0.00	200.58	0.00	201.10	0.00	201.62	0.00
200.07	0.00	200.59	0.00	201.11	0.00	201.63	0.00
200.08	0.00	200.60	0.00	201.12	0.00	201.64	0.00
200.09	0.00	200.61	0.00	201.13	0.00	201.65	0.00
200.10	0.00	200.62	0.00	201.14	0.00	201.66	0.00
200.11	0.00	200.63	0.00	201.15	0.00	201.67	0.00
200.12	0.00	200.64	0.00	201.16	0.00	201.68	0.00
200.13	0.00	200.65	0.00	201.17	0.00	201.69	0.00
200.14	0.00	200.66	0.00	201.18	0.00	201.70	0.00
200.15	0.00	200.67	0.00	201.19	0.00	201.71	0.00
200.16	0.00	200.68	0.00	201.20	0.00	201.72	0.00
200.17	0.00	200.69	0.00	201.21	0.00	201.73	0.00
200.18	0.00	200.70	0.00	201.22	0.00	201.74	0.00
200.19	0.00	200.71	0.00	201.23	0.00	201.75	0.00
200.20	0.00	200.72	0.00	201.24	0.00	201.76	0.00
200.21	0.00	200.73	0.00	201.25	0.00	201.77	0.00
200.22	0.00	200.74	0.00	201.26	0.00	201.78	0.00
200.23	0.00	200.75	0.00	201.27	0.00	201.79	0.00
200.24	0.00	200.76	0.00	201.28	0.00	201.80	0.00
200.25	0.00	200.77	0.00	201.29	0.00	201.81	0.00
200.26	0.00	200.78	0.00	201.30	0.00	201.82	0.00
200.27	0.00	200.79	0.00	201.31	0.00	201.83	0.00
200.28	0.00	200.80	0.00	201.32	0.00	201.84	0.00
200.29	0.00	200.81	0.00	201.33	0.00	201.85	0.00
200.30	0.00	200.82	0.00	201.34	0.00	201.86	0.00
200.31	0.00	200.83	0.00	201.35	0.00	201.87	0.00
200.32	0.00	200.84	0.00	201.36	0.00	201.88	0.00
200.33	0.00	200.85	0.00	201.37	0.00	201.89	0.00
200.34	0.00	200.86	0.00	201.38	0.00	201.90	0.00
200.35	0.00	200.87	0.00	201.39	0.00	201.91	0.00
200.36	0.00	200.88	0.00	201.40	0.00	201.92	0.00
200.37	0.00	200.89	0.00	201.41	0.00	201.93	0.00
200.38	0.00	200.90	0.00	201.42	0.00	201.94	0.00
200.39	0.00	200.91	0.00	201.43	0.00	201.95	0.00
200.40	0.00	200.92	0.00	201.44	0.00	201.96	0.00
200.41	0.00	200.93	0.00	201.45	0.00	201.97	0.00
200.42	0.00	200.94	0.00	201.46	0.00	201.98	0.00
200.43	0.00	200.95	0.00	201.47	0.00	201.99	0.00
200.44	0.00	200.96	0.00	201.48	0.00	202.00	0.00
200.45	0.00	200.97	0.00	201.49	0.00	202.01	0.00
200.46	0.00	200.98	0.00	201.50	0.00	202.02	0.00
200.47	0.00	200.99	0.00	201.51	0.00	202.03	0.00
200.48	0.00	201.00	0.00	201.52	0.00	202.04	0.00
200.49	0.00	201.01	0.00	201.53	0.00	202.05	0.00
200.50	0.00	201.02	0.00	201.54	0.00	202.06	0.00
200.51	0.00	201.03	0.00	201.55	0.00	202.07	0.00

Stage-Discharge for Pond B-4A: Basin #4A (continued)

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
202.08	0.00	202.60	0.00	203.12	0.00	203.64	0.00
202.09	0.00	202.61	0.00	203.13	0.00	203.65	0.00
202.10	0.00	202.62	0.00	203.14	0.00	203.66	0.00
202.11	0.00	202.63	0.00	203.15	0.00	203.67	0.00
202.12	0.00	202.64	0.00	203.16	0.00	203.68	0.00
202.13	0.00	202.65	0.00	203.17	0.00	203.69	0.00
202.14	0.00	202.66	0.00	203.18	0.00	203.70	0.00
202.15	0.00	202.67	0.00	203.19	0.00	203.71	0.00
202.16	0.00	202.68	0.00	203.20	0.00	203.72	0.00
202.17	0.00	202.69	0.00	203.21	0.00	203.73	0.00
202.18	0.00	202.70	0.00	203.22	0.00	203.74	0.00
202.19	0.00	202.71	0.00	203.23	0.00	203.75	0.00
202.20	0.00	202.72	0.00	203.24	0.00	203.76	0.00
202.21	0.00	202.73	0.00	203.25	0.00	203.77	0.00
202.22	0.00	202.74	0.00	203.26	0.00	203.78	0.00
202.23	0.00	202.75	0.00	203.27	0.00	203.79	0.00
202.24	0.00	202.76	0.00	203.28	0.00	203.80	0.00
202.25	0.00	202.77	0.00	203.29	0.00	203.81	0.00
202.26	0.00	202.78	0.00	203.30	0.00	203.82	0.00
202.27	0.00	202.79	0.00	203.31	0.00	203.83	0.00
202.28	0.00	202.80	0.00	203.32	0.00	203.84	0.00
202.29	0.00	202.81	0.00	203.33	0.00	203.85	0.00
202.30	0.00	202.82	0.00	203.34	0.00	203.86	0.00
202.31	0.00	202.83	0.00	203.35	0.00	203.87	0.00
202.32	0.00	202.84	0.00	203.36	0.00	203.88	0.00
202.33	0.00	202.85	0.00	203.37	0.00	203.89	0.00
202.34	0.00	202.86	0.00	203.38	0.00	203.90	0.00
202.35	0.00	202.87	0.00	203.39	0.00	203.91	0.00
202.36	0.00	202.88	0.00	203.40	0.00	203.92	0.00
202.37	0.00	202.89	0.00	203.41	0.00	203.93	0.00
202.38	0.00	202.90	0.00	203.42	0.00	203.94	0.00
202.39	0.00	202.91	0.00	203.43	0.00	203.95	0.00
202.40	0.00	202.92	0.00	203.44	0.00	203.96	0.00
202.41	0.00	202.93	0.00	203.45	0.00	203.97	0.00
202.42	0.00	202.94	0.00	203.46	0.00	203.98	0.00
202.43	0.00	202.95	0.00	203.47	0.00	203.99	0.00
202.44	0.00	202.96	0.00	203.48	0.00	204.00	0.00
202.45	0.00	202.97	0.00	203.49	0.00	204.01	0.00
202.46	0.00	202.98	0.00	203.50	0.00	204.02	0.00
202.47	0.00	202.99	0.00	203.51	0.00	204.03	0.00
202.48	0.00	203.00	0.00	203.52	0.00	204.04	0.00
202.49	0.00	203.01	0.00	203.53	0.00	204.05	0.00
202.50	0.00	203.02	0.00	203.54	0.00	204.06	0.00
202.51	0.00	203.03	0.00	203.55	0.00	204.07	0.00
202.52	0.00	203.04	0.00	203.56	0.00	204.08	0.00
202.53	0.00	203.05	0.00	203.57	0.00	204.09	0.00
202.54	0.00	203.06	0.00	203.58	0.00	204.10	0.00
202.55	0.00	203.07	0.00	203.59	0.00	204.11	0.00
202.56	0.00	203.08	0.00	203.60	0.00	204.12	0.00
202.57	0.00	203.09	0.00	203.61	0.00	204.13	0.00
202.58	0.00	203.10	0.00	203.62	0.00	204.14	0.00
202.59	0.00	203.11	0.00	203.63	0.00	204.15	0.00

Stage-Discharge for Pond B-4A: Basin #4A (continued)

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
204.16	0.00	204.68	0.00	205.20	0.00
204.17	0.00	204.69	0.00	205.21	0.00
204.18	0.00	204.70	0.00	205.22	0.00
204.19	0.00	204.71	0.00	205.23	0.00
204.20	0.00	204.72	0.00	205.24	0.00
204.21	0.00	204.73	0.00	205.25	0.00
204.22	0.00	204.74	0.00	205.26	0.00
204.23	0.00	204.75	0.00	205.27	0.00
204.24	0.00	204.76	0.00	205.28	0.00
204.25	0.00	204.77	0.00	205.29	0.00
204.26	0.00	204.78	0.00	205.30	0.00
204.27	0.00	204.79	0.00	205.31	0.00
204.28	0.00	204.80	0.00	205.32	0.00
204.29	0.00	204.81	0.00	205.33	0.00
204.30	0.00	204.82	0.00	205.34	0.00
204.31	0.00	204.83	0.00	205.35	0.00
204.32	0.00	204.84	0.00	205.36	0.00
204.33	0.00	204.85	0.00	205.37	0.00
204.34	0.00	204.86	0.00	205.38	0.00
204.35	0.00	204.87	0.00	205.39	0.00
204.36	0.00	204.88	0.00	205.40	0.00
204.37	0.00	204.89	0.00	205.41	0.00
204.38	0.00	204.90	0.00	205.42	0.00
204.39	0.00	204.91	0.00	205.43	0.00
204.40	0.00	204.92	0.00	205.44	0.00
204.41	0.00	204.93	0.00	205.45	0.00
204.42	0.00	204.94	0.00	205.46	0.12
204.43	0.00	204.95	0.00	205.47	0.33
204.44	0.00	204.96	0.00	205.48	0.61
204.45	0.00	204.97	0.00	205.49	0.94
204.46	0.00	204.98	0.00	205.50	1.31
204.47	0.00	204.99	0.00		
204.48	0.00	205.00	0.00		
204.49	0.00	205.01	0.00		
204.50	0.00	205.02	0.00		
204.51	0.00	205.03	0.00		
204.52	0.00	205.04	0.00		
204.53	0.00	205.05	0.00		
204.54	0.00	205.06	0.00		
204.55	0.00	205.07	0.00		
204.56	0.00	205.08	0.00		
204.57	0.00	205.09	0.00		
204.58	0.00	205.10	0.00		
204.59	0.00	205.11	0.00		
204.60	0.00	205.12	0.00		
204.61	0.00	205.13	0.00		
204.62	0.00	205.14	0.00		
204.63	0.00	205.15	0.00		
204.64	0.00	205.16	0.00		
204.65	0.00	205.17	0.00		
204.66	0.00	205.18	0.00		
204.67	0.00	205.19	0.00		

Stage-Area-Storage for Pond B-4A: Basin #4A

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
200.00	1,891	0	200.52	2,205	1,065
200.01	1,897	19	200.53	2,211	1,087
200.02	1,903	38	200.54	2,217	1,109
200.03	1,909	57	200.55	2,223	1,131
200.04	1,915	76	200.56	2,229	1,154
200.05	1,921	95	200.57	2,235	1,176
200.06	1,927	115	200.58	2,241	1,198
200.07	1,933	134	200.59	2,247	1,221
200.08	1,939	153	200.60	2,253	1,243
200.09	1,945	173	200.61	2,259	1,266
200.10	1,951	192	200.62	2,265	1,289
200.11	1,957	212	200.63	2,272	1,311
200.12	1,963	231	200.64	2,278	1,334
200.13	1,970	251	200.65	2,284	1,357
200.14	1,976	271	200.66	2,290	1,380
200.15	1,982	290	200.67	2,296	1,403
200.16	1,988	310	200.68	2,302	1,426
200.17	1,994	330	200.69	2,308	1,449
200.18	2,000	350	200.70	2,314	1,472
200.19	2,006	370	200.71	2,320	1,495
200.20	2,012	390	200.72	2,326	1,518
200.21	2,018	410	200.73	2,332	1,541
200.22	2,024	431	200.74	2,338	1,565
200.23	2,030	451	200.75	2,344	1,588
200.24	2,036	471	200.76	2,350	1,612
200.25	2,042	492	200.77	2,356	1,635
200.26	2,048	512	200.78	2,362	1,659
200.27	2,054	533	200.79	2,368	1,682
200.28	2,060	553	200.80	2,374	1,706
200.29	2,066	574	200.81	2,380	1,730
200.30	2,072	594	200.82	2,386	1,754
200.31	2,078	615	200.83	2,392	1,778
200.32	2,084	636	200.84	2,398	1,802
200.33	2,090	657	200.85	2,404	1,826
200.34	2,096	678	200.86	2,410	1,850
200.35	2,102	699	200.87	2,416	1,874
200.36	2,108	720	200.88	2,423	1,898
200.37	2,114	741	200.89	2,429	1,922
200.38	2,121	762	200.90	2,435	1,947
200.39	2,127	783	200.91	2,441	1,971
200.40	2,133	805	200.92	2,447	1,995
200.41	2,139	826	200.93	2,453	2,020
200.42	2,145	847	200.94	2,459	2,044
200.43	2,151	869	200.95	2,465	2,069
200.44	2,157	891	200.96	2,471	2,094
200.45	2,163	912	200.97	2,477	2,118
200.46	2,169	934	200.98	2,483	2,143
200.47	2,175	955	200.99	2,489	2,168
200.48	2,181	977	201.00	2,495	2,193
200.49	2,187	999	201.01	2,502	2,218
200.50	2,193	1,021	201.02	2,508	2,243
200.51	2,199	1,043	201.03	2,515	2,268

Stage-Area-Storage for Pond B-4A: Basin #4A (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
201.04	2,522	2,293	201.56	2,872	3,696
201.05	2,529	2,319	201.57	2,879	3,725
201.06	2,535	2,344	201.58	2,886	3,753
201.07	2,542	2,369	201.59	2,893	3,782
201.08	2,549	2,395	201.60	2,899	3,811
201.09	2,556	2,420	201.61	2,906	3,840
201.10	2,562	2,446	201.62	2,913	3,869
201.11	2,569	2,472	201.63	2,920	3,899
201.12	2,576	2,497	201.64	2,926	3,928
201.13	2,583	2,523	201.65	2,933	3,957
201.14	2,589	2,549	201.66	2,940	3,986
201.15	2,596	2,575	201.67	2,947	4,016
201.16	2,603	2,601	201.68	2,953	4,045
201.17	2,610	2,627	201.69	2,960	4,075
201.18	2,616	2,653	201.70	2,967	4,105
201.19	2,623	2,679	201.71	2,974	4,134
201.20	2,630	2,705	201.72	2,980	4,164
201.21	2,637	2,732	201.73	2,987	4,194
201.22	2,643	2,758	201.74	2,994	4,224
201.23	2,650	2,785	201.75	3,001	4,254
201.24	2,657	2,811	201.76	3,007	4,284
201.25	2,664	2,838	201.77	3,014	4,314
201.26	2,670	2,864	201.78	3,021	4,344
201.27	2,677	2,891	201.79	3,027	4,374
201.28	2,684	2,918	201.80	3,034	4,405
201.29	2,690	2,945	201.81	3,041	4,435
201.30	2,697	2,972	201.82	3,048	4,465
201.31	2,704	2,999	201.83	3,054	4,496
201.32	2,711	3,026	201.84	3,061	4,527
201.33	2,717	3,053	201.85	3,068	4,557
201.34	2,724	3,080	201.86	3,075	4,588
201.35	2,731	3,108	201.87	3,081	4,619
201.36	2,738	3,135	201.88	3,088	4,650
201.37	2,744	3,162	201.89	3,095	4,680
201.38	2,751	3,190	201.90	3,102	4,711
201.39	2,758	3,217	201.91	3,108	4,743
201.40	2,765	3,245	201.92	3,115	4,774
201.41	2,771	3,273	201.93	3,122	4,805
201.42	2,778	3,300	201.94	3,129	4,836
201.43	2,785	3,328	201.95	3,135	4,867
201.44	2,792	3,356	201.96	3,142	4,899
201.45	2,798	3,384	201.97	3,149	4,930
201.46	2,805	3,412	201.98	3,156	4,962
201.47	2,812	3,440	201.99	3,162	4,993
201.48	2,819	3,468	202.00	3,169	5,025
201.49	2,825	3,496	202.01	3,176	5,057
201.50	2,832	3,525	202.02	3,184	5,089
201.51	2,839	3,553	202.03	3,191	5,120
201.52	2,845	3,582	202.04	3,199	5,152
201.53	2,852	3,610	202.05	3,206	5,184
201.54	2,859	3,639	202.06	3,214	5,216
201.55	2,866	3,667	202.07	3,221	5,249

Stage-Area-Storage for Pond B-4A: Basin #4A (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
202.08	3,228	5,281	202.60	3,615	7,060
202.09	3,236	5,313	202.61	3,622	7,096
202.10	3,243	5,346	202.62	3,630	7,133
202.11	3,251	5,378	202.63	3,637	7,169
202.12	3,258	5,411	202.64	3,645	7,205
202.13	3,266	5,443	202.65	3,652	7,242
202.14	3,273	5,476	202.66	3,659	7,278
202.15	3,280	5,509	202.67	3,667	7,315
202.16	3,288	5,542	202.68	3,674	7,352
202.17	3,295	5,574	202.69	3,682	7,388
202.18	3,303	5,607	202.70	3,689	7,425
202.19	3,310	5,641	202.71	3,697	7,462
202.20	3,318	5,674	202.72	3,704	7,499
202.21	3,325	5,707	202.73	3,711	7,536
202.22	3,332	5,740	202.74	3,719	7,573
202.23	3,340	5,774	202.75	3,726	7,611
202.24	3,347	5,807	202.76	3,734	7,648
202.25	3,355	5,840	202.77	3,741	7,685
202.26	3,362	5,874	202.78	3,749	7,723
202.27	3,370	5,908	202.79	3,756	7,760
202.28	3,377	5,941	202.80	3,763	7,798
202.29	3,384	5,975	202.81	3,771	7,836
202.30	3,392	6,009	202.82	3,778	7,873
202.31	3,399	6,043	202.83	3,786	7,911
202.32	3,407	6,077	202.84	3,793	7,949
202.33	3,414	6,111	202.85	3,801	7,987
202.34	3,422	6,145	202.86	3,808	8,025
202.35	3,429	6,180	202.87	3,815	8,063
202.36	3,436	6,214	202.88	3,823	8,101
202.37	3,444	6,248	202.89	3,830	8,140
202.38	3,451	6,283	202.90	3,838	8,178
202.39	3,459	6,317	202.91	3,845	8,216
202.40	3,466	6,352	202.92	3,853	8,255
202.41	3,474	6,387	202.93	3,860	8,293
202.42	3,481	6,422	202.94	3,867	8,332
202.43	3,488	6,456	202.95	3,875	8,371
202.44	3,496	6,491	202.96	3,882	8,410
202.45	3,503	6,526	202.97	3,890	8,448
202.46	3,511	6,561	202.98	3,897	8,487
202.47	3,518	6,596	202.99	3,905	8,526
202.48	3,526	6,632	203.00	3,912	8,566
202.49	3,533	6,667	203.01	3,920	8,605
202.50	3,541	6,702	203.02	3,928	8,644
202.51	3,548	6,738	203.03	3,936	8,683
202.52	3,555	6,773	203.04	3,944	8,723
202.53	3,563	6,809	203.05	3,953	8,762
202.54	3,570	6,845	203.06	3,961	8,802
202.55	3,578	6,880	203.07	3,969	8,841
202.56	3,585	6,916	203.08	3,977	8,881
202.57	3,593	6,952	203.09	3,985	8,921
202.58	3,600	6,988	203.10	3,993	8,961
202.59	3,607	7,024	203.11	4,001	9,001

Stage-Area-Storage for Pond B-4A: Basin #4A (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
203.12	4,009	9,041	203.64	4,432	11,235
203.13	4,018	9,081	203.65	4,440	11,280
203.14	4,026	9,121	203.66	4,448	11,324
203.15	4,034	9,161	203.67	4,456	11,369
203.16	4,042	9,202	203.68	4,464	11,413
203.17	4,050	9,242	203.69	4,472	11,458
203.18	4,058	9,283	203.70	4,480	11,503
203.19	4,066	9,323	203.71	4,489	11,548
203.20	4,074	9,364	203.72	4,497	11,593
203.21	4,083	9,405	203.73	4,505	11,638
203.22	4,091	9,446	203.74	4,513	11,683
203.23	4,099	9,487	203.75	4,521	11,728
203.24	4,107	9,528	203.76	4,529	11,773
203.25	4,115	9,569	203.77	4,537	11,818
203.26	4,123	9,610	203.78	4,545	11,864
203.27	4,131	9,651	203.79	4,553	11,909
203.28	4,139	9,693	203.80	4,562	11,955
203.29	4,147	9,734	203.81	4,570	12,001
203.30	4,156	9,776	203.82	4,578	12,046
203.31	4,164	9,817	203.83	4,586	12,092
203.32	4,172	9,859	203.84	4,594	12,138
203.33	4,180	9,901	203.85	4,602	12,184
203.34	4,188	9,943	203.86	4,610	12,230
203.35	4,196	9,984	203.87	4,618	12,276
203.36	4,204	10,026	203.88	4,627	12,322
203.37	4,212	10,069	203.89	4,635	12,369
203.38	4,221	10,111	203.90	4,643	12,415
203.39	4,229	10,153	203.91	4,651	12,462
203.40	4,237	10,195	203.92	4,659	12,508
203.41	4,245	10,238	203.93	4,667	12,555
203.42	4,253	10,280	203.94	4,675	12,602
203.43	4,261	10,323	203.95	4,683	12,648
203.44	4,269	10,365	203.96	4,692	12,695
203.45	4,277	10,408	203.97	4,700	12,742
203.46	4,286	10,451	203.98	4,708	12,789
203.47	4,294	10,494	203.99	4,716	12,836
203.48	4,302	10,537	204.00	4,724	12,884
203.49	4,310	10,580	204.01	4,733	12,931
203.50	4,318	10,623	204.02	4,742	12,978
203.51	4,326	10,666	204.03	4,750	13,026
203.52	4,334	10,710	204.04	4,759	13,073
203.53	4,342	10,753	204.05	4,768	13,121
203.54	4,350	10,796	204.06	4,777	13,169
203.55	4,359	10,840	204.07	4,786	13,216
203.56	4,367	10,884	204.08	4,794	13,264
203.57	4,375	10,927	204.09	4,803	13,312
203.58	4,383	10,971	204.10	4,812	13,360
203.59	4,391	11,015	204.11	4,821	13,408
203.60	4,399	11,059	204.12	4,830	13,457
203.61	4,407	11,103	204.13	4,838	13,505
203.62	4,415	11,147	204.14	4,847	13,553
203.63	4,424	11,191	204.15	4,856	13,602

Stage-Area-Storage for Pond B-4A: Basin #4A (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
204.16	4,865	13,651	204.68	5,322	16,299
204.17	4,874	13,699	204.69	5,331	16,353
204.18	4,882	13,748	204.70	5,340	16,406
204.19	4,891	13,797	204.71	5,349	16,459
204.20	4,900	13,846	204.72	5,358	16,513
204.21	4,909	13,895	204.73	5,366	16,566
204.22	4,918	13,944	204.74	5,375	16,620
204.23	4,926	13,993	204.75	5,384	16,674
204.24	4,935	14,043	204.76	5,393	16,728
204.25	4,944	14,092	204.77	5,402	16,782
204.26	4,953	14,141	204.78	5,410	16,836
204.27	4,962	14,191	204.79	5,419	16,890
204.28	4,970	14,241	204.80	5,428	16,944
204.29	4,979	14,290	204.81	5,437	16,999
204.30	4,988	14,340	204.82	5,446	17,053
204.31	4,997	14,390	204.83	5,454	17,108
204.32	5,006	14,440	204.84	5,463	17,162
204.33	5,014	14,490	204.85	5,472	17,217
204.34	5,023	14,541	204.86	5,481	17,272
204.35	5,032	14,591	204.87	5,490	17,326
204.36	5,041	14,641	204.88	5,498	17,381
204.37	5,050	14,692	204.89	5,507	17,436
204.38	5,058	14,742	204.90	5,516	17,492
204.39	5,067	14,793	204.91	5,525	17,547
204.40	5,076	14,844	204.92	5,534	17,602
204.41	5,085	14,894	204.93	5,542	17,657
204.42	5,094	14,945	204.94	5,551	17,713
204.43	5,102	14,996	204.95	5,560	17,768
204.44	5,111	15,047	204.96	5,569	17,824
204.45	5,120	15,098	204.97	5,578	17,880
204.46	5,129	15,150	204.98	5,586	17,936
204.47	5,138	15,201	204.99	5,595	17,992
204.48	5,146	15,252	205.00	5,604	18,048
204.49	5,155	15,304	205.01	5,613	18,104
204.50	5,164	15,356	205.02	5,622	18,160
204.51	5,173	15,407	205.03	5,631	18,216
204.52	5,182	15,459	205.04	5,640	18,272
204.53	5,190	15,511	205.05	5,649	18,329
204.54	5,199	15,563	205.06	5,658	18,385
204.55	5,208	15,615	205.07	5,667	18,442
204.56	5,217	15,667	205.08	5,676	18,499
204.57	5,226	15,719	205.09	5,686	18,556
204.58	5,234	15,771	205.10	5,695	18,612
204.59	5,243	15,824	205.11	5,704	18,669
204.60	5,252	15,876	205.12	5,713	18,727
204.61	5,261	15,929	205.13	5,722	18,784
204.62	5,270	15,982	205.14	5,731	18,841
204.63	5,278	16,034	205.15	5,740	18,898
204.64	5,287	16,087	205.16	5,749	18,956
204.65	5,296	16,140	205.17	5,758	19,013
204.66	5,305	16,193	205.18	5,767	19,071
204.67	5,314	16,246	205.19	5,776	19,129

Stage-Area-Storage for Pond B-4A: Basin #4A (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
205.20	5,785	19,186
205.21	5,794	19,244
205.22	5,803	19,302
205.23	5,812	19,360
205.24	5,821	19,419
205.25	5,831	19,477
205.26	5,840	19,535
205.27	5,849	19,594
205.28	5,858	19,652
205.29	5,867	19,711
205.30	5,876	19,769
205.31	5,885	19,828
205.32	5,894	19,887
205.33	5,903	19,946
205.34	5,912	20,005
205.35	5,921	20,064
205.36	5,930	20,124
205.37	5,939	20,183
205.38	5,948	20,242
205.39	5,957	20,302
205.40	5,966	20,362
205.41	5,975	20,421
205.42	5,985	20,481
205.43	5,994	20,541
205.44	6,003	20,601
205.45	6,012	20,661
205.46	6,021	20,721
205.47	6,030	20,781
205.48	6,039	20,842
205.49	6,048	20,902
205.50	6,057	20,963

Summary for Pond B-4B: Basin #4B

Inflow Area = 2.331 ac, 36.89% Impervious, Inflow Depth = 2.27" for Future 2 yr event
 Inflow = 5.38 cfs @ 12.17 hrs, Volume= 0.441 af
 Outflow = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af, Atten= 100%, Lag= 0.0 min
 Primary = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af
 Routed to Pond B-5 : Basin #5

Routing by Stor-Ind method, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 Peak Elev= 204.93' @ 24.60 hrs Surf.Area= 6,318 sf Storage= 19,227 cf

Plug-Flow detention time= (not calculated: initial storage exceeds outflow)
 Center-of-Mass det. time= (not calculated: no outflow)

Volume	Invert	Avail.Storage	Storage Description
#1	200.00'	22,995 cf	Custom Stage Data (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
200.00	1,852	0	0
201.00	2,571	2,212	2,212
202.00	3,384	2,978	5,189
203.00	4,292	3,838	9,027
204.00	5,294	4,793	13,820
205.00	6,393	5,844	19,664
205.50	6,934	3,332	22,995

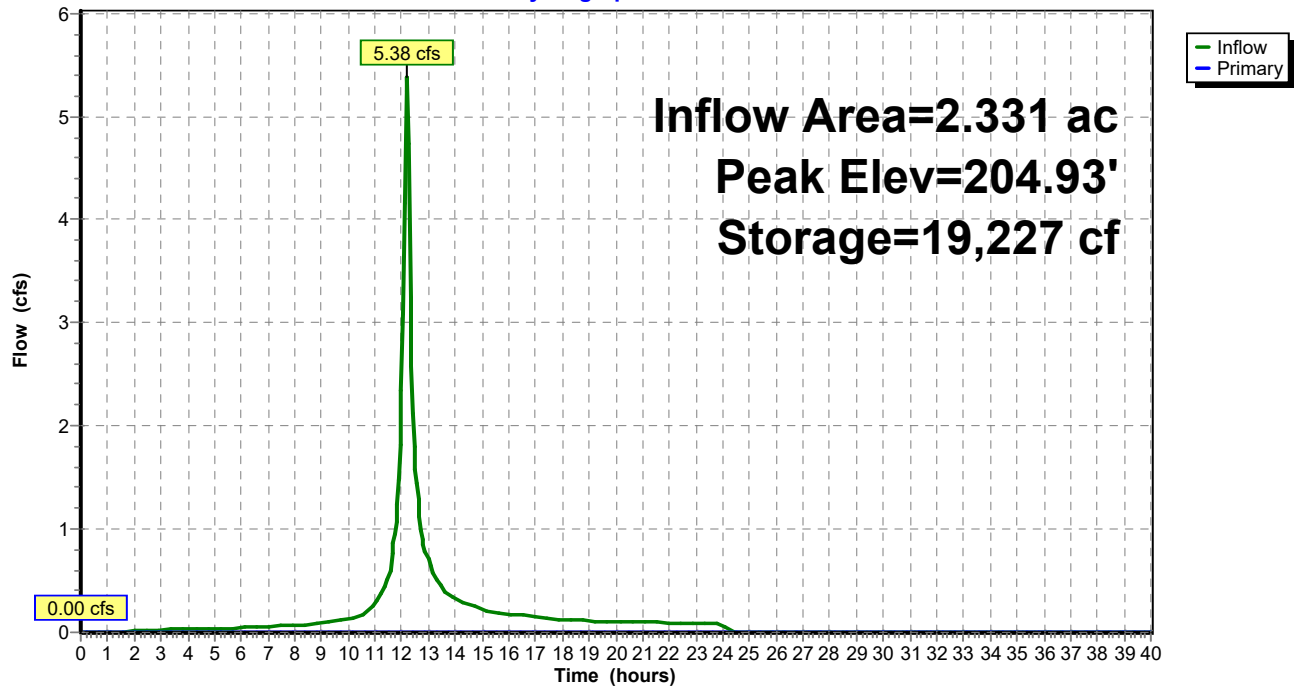
Device	Routing	Invert	Outlet Devices
#1	Primary	205.45'	50.0' long + 3.0 ' SideZ x 5.0' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 Coef. (English) 2.34 2.50 2.70 2.68 2.68 2.66 2.65 2.65 2.65 2.65 2.67 2.66 2.68 2.70 2.74 2.79 2.88

Primary OutFlow Max=0.00 cfs @ 0.00 hrs HW=200.00' (Free Discharge)

↑ **1=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)

Pond B-4B: Basin #4B

Hydrograph



Stage-Discharge for Pond B-4B: Basin #4B

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
200.00	0.00	200.52	0.00	201.04	0.00	201.56	0.00
200.01	0.00	200.53	0.00	201.05	0.00	201.57	0.00
200.02	0.00	200.54	0.00	201.06	0.00	201.58	0.00
200.03	0.00	200.55	0.00	201.07	0.00	201.59	0.00
200.04	0.00	200.56	0.00	201.08	0.00	201.60	0.00
200.05	0.00	200.57	0.00	201.09	0.00	201.61	0.00
200.06	0.00	200.58	0.00	201.10	0.00	201.62	0.00
200.07	0.00	200.59	0.00	201.11	0.00	201.63	0.00
200.08	0.00	200.60	0.00	201.12	0.00	201.64	0.00
200.09	0.00	200.61	0.00	201.13	0.00	201.65	0.00
200.10	0.00	200.62	0.00	201.14	0.00	201.66	0.00
200.11	0.00	200.63	0.00	201.15	0.00	201.67	0.00
200.12	0.00	200.64	0.00	201.16	0.00	201.68	0.00
200.13	0.00	200.65	0.00	201.17	0.00	201.69	0.00
200.14	0.00	200.66	0.00	201.18	0.00	201.70	0.00
200.15	0.00	200.67	0.00	201.19	0.00	201.71	0.00
200.16	0.00	200.68	0.00	201.20	0.00	201.72	0.00
200.17	0.00	200.69	0.00	201.21	0.00	201.73	0.00
200.18	0.00	200.70	0.00	201.22	0.00	201.74	0.00
200.19	0.00	200.71	0.00	201.23	0.00	201.75	0.00
200.20	0.00	200.72	0.00	201.24	0.00	201.76	0.00
200.21	0.00	200.73	0.00	201.25	0.00	201.77	0.00
200.22	0.00	200.74	0.00	201.26	0.00	201.78	0.00
200.23	0.00	200.75	0.00	201.27	0.00	201.79	0.00
200.24	0.00	200.76	0.00	201.28	0.00	201.80	0.00
200.25	0.00	200.77	0.00	201.29	0.00	201.81	0.00
200.26	0.00	200.78	0.00	201.30	0.00	201.82	0.00
200.27	0.00	200.79	0.00	201.31	0.00	201.83	0.00
200.28	0.00	200.80	0.00	201.32	0.00	201.84	0.00
200.29	0.00	200.81	0.00	201.33	0.00	201.85	0.00
200.30	0.00	200.82	0.00	201.34	0.00	201.86	0.00
200.31	0.00	200.83	0.00	201.35	0.00	201.87	0.00
200.32	0.00	200.84	0.00	201.36	0.00	201.88	0.00
200.33	0.00	200.85	0.00	201.37	0.00	201.89	0.00
200.34	0.00	200.86	0.00	201.38	0.00	201.90	0.00
200.35	0.00	200.87	0.00	201.39	0.00	201.91	0.00
200.36	0.00	200.88	0.00	201.40	0.00	201.92	0.00
200.37	0.00	200.89	0.00	201.41	0.00	201.93	0.00
200.38	0.00	200.90	0.00	201.42	0.00	201.94	0.00
200.39	0.00	200.91	0.00	201.43	0.00	201.95	0.00
200.40	0.00	200.92	0.00	201.44	0.00	201.96	0.00
200.41	0.00	200.93	0.00	201.45	0.00	201.97	0.00
200.42	0.00	200.94	0.00	201.46	0.00	201.98	0.00
200.43	0.00	200.95	0.00	201.47	0.00	201.99	0.00
200.44	0.00	200.96	0.00	201.48	0.00	202.00	0.00
200.45	0.00	200.97	0.00	201.49	0.00	202.01	0.00
200.46	0.00	200.98	0.00	201.50	0.00	202.02	0.00
200.47	0.00	200.99	0.00	201.51	0.00	202.03	0.00
200.48	0.00	201.00	0.00	201.52	0.00	202.04	0.00
200.49	0.00	201.01	0.00	201.53	0.00	202.05	0.00
200.50	0.00	201.02	0.00	201.54	0.00	202.06	0.00
200.51	0.00	201.03	0.00	201.55	0.00	202.07	0.00

Stage-Discharge for Pond B-4B: Basin #4B (continued)

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
202.08	0.00	202.60	0.00	203.12	0.00	203.64	0.00
202.09	0.00	202.61	0.00	203.13	0.00	203.65	0.00
202.10	0.00	202.62	0.00	203.14	0.00	203.66	0.00
202.11	0.00	202.63	0.00	203.15	0.00	203.67	0.00
202.12	0.00	202.64	0.00	203.16	0.00	203.68	0.00
202.13	0.00	202.65	0.00	203.17	0.00	203.69	0.00
202.14	0.00	202.66	0.00	203.18	0.00	203.70	0.00
202.15	0.00	202.67	0.00	203.19	0.00	203.71	0.00
202.16	0.00	202.68	0.00	203.20	0.00	203.72	0.00
202.17	0.00	202.69	0.00	203.21	0.00	203.73	0.00
202.18	0.00	202.70	0.00	203.22	0.00	203.74	0.00
202.19	0.00	202.71	0.00	203.23	0.00	203.75	0.00
202.20	0.00	202.72	0.00	203.24	0.00	203.76	0.00
202.21	0.00	202.73	0.00	203.25	0.00	203.77	0.00
202.22	0.00	202.74	0.00	203.26	0.00	203.78	0.00
202.23	0.00	202.75	0.00	203.27	0.00	203.79	0.00
202.24	0.00	202.76	0.00	203.28	0.00	203.80	0.00
202.25	0.00	202.77	0.00	203.29	0.00	203.81	0.00
202.26	0.00	202.78	0.00	203.30	0.00	203.82	0.00
202.27	0.00	202.79	0.00	203.31	0.00	203.83	0.00
202.28	0.00	202.80	0.00	203.32	0.00	203.84	0.00
202.29	0.00	202.81	0.00	203.33	0.00	203.85	0.00
202.30	0.00	202.82	0.00	203.34	0.00	203.86	0.00
202.31	0.00	202.83	0.00	203.35	0.00	203.87	0.00
202.32	0.00	202.84	0.00	203.36	0.00	203.88	0.00
202.33	0.00	202.85	0.00	203.37	0.00	203.89	0.00
202.34	0.00	202.86	0.00	203.38	0.00	203.90	0.00
202.35	0.00	202.87	0.00	203.39	0.00	203.91	0.00
202.36	0.00	202.88	0.00	203.40	0.00	203.92	0.00
202.37	0.00	202.89	0.00	203.41	0.00	203.93	0.00
202.38	0.00	202.90	0.00	203.42	0.00	203.94	0.00
202.39	0.00	202.91	0.00	203.43	0.00	203.95	0.00
202.40	0.00	202.92	0.00	203.44	0.00	203.96	0.00
202.41	0.00	202.93	0.00	203.45	0.00	203.97	0.00
202.42	0.00	202.94	0.00	203.46	0.00	203.98	0.00
202.43	0.00	202.95	0.00	203.47	0.00	203.99	0.00
202.44	0.00	202.96	0.00	203.48	0.00	204.00	0.00
202.45	0.00	202.97	0.00	203.49	0.00	204.01	0.00
202.46	0.00	202.98	0.00	203.50	0.00	204.02	0.00
202.47	0.00	202.99	0.00	203.51	0.00	204.03	0.00
202.48	0.00	203.00	0.00	203.52	0.00	204.04	0.00
202.49	0.00	203.01	0.00	203.53	0.00	204.05	0.00
202.50	0.00	203.02	0.00	203.54	0.00	204.06	0.00
202.51	0.00	203.03	0.00	203.55	0.00	204.07	0.00
202.52	0.00	203.04	0.00	203.56	0.00	204.08	0.00
202.53	0.00	203.05	0.00	203.57	0.00	204.09	0.00
202.54	0.00	203.06	0.00	203.58	0.00	204.10	0.00
202.55	0.00	203.07	0.00	203.59	0.00	204.11	0.00
202.56	0.00	203.08	0.00	203.60	0.00	204.12	0.00
202.57	0.00	203.09	0.00	203.61	0.00	204.13	0.00
202.58	0.00	203.10	0.00	203.62	0.00	204.14	0.00
202.59	0.00	203.11	0.00	203.63	0.00	204.15	0.00

Stage-Discharge for Pond B-4B: Basin #4B (continued)

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
204.16	0.00	204.68	0.00	205.20	0.00
204.17	0.00	204.69	0.00	205.21	0.00
204.18	0.00	204.70	0.00	205.22	0.00
204.19	0.00	204.71	0.00	205.23	0.00
204.20	0.00	204.72	0.00	205.24	0.00
204.21	0.00	204.73	0.00	205.25	0.00
204.22	0.00	204.74	0.00	205.26	0.00
204.23	0.00	204.75	0.00	205.27	0.00
204.24	0.00	204.76	0.00	205.28	0.00
204.25	0.00	204.77	0.00	205.29	0.00
204.26	0.00	204.78	0.00	205.30	0.00
204.27	0.00	204.79	0.00	205.31	0.00
204.28	0.00	204.80	0.00	205.32	0.00
204.29	0.00	204.81	0.00	205.33	0.00
204.30	0.00	204.82	0.00	205.34	0.00
204.31	0.00	204.83	0.00	205.35	0.00
204.32	0.00	204.84	0.00	205.36	0.00
204.33	0.00	204.85	0.00	205.37	0.00
204.34	0.00	204.86	0.00	205.38	0.00
204.35	0.00	204.87	0.00	205.39	0.00
204.36	0.00	204.88	0.00	205.40	0.00
204.37	0.00	204.89	0.00	205.41	0.00
204.38	0.00	204.90	0.00	205.42	0.00
204.39	0.00	204.91	0.00	205.43	0.00
204.40	0.00	204.92	0.00	205.44	0.00
204.41	0.00	204.93	0.00	205.45	0.00
204.42	0.00	204.94	0.00	205.46	0.12
204.43	0.00	204.95	0.00	205.47	0.33
204.44	0.00	204.96	0.00	205.48	0.61
204.45	0.00	204.97	0.00	205.49	0.94
204.46	0.00	204.98	0.00	205.50	1.31
204.47	0.00	204.99	0.00		
204.48	0.00	205.00	0.00		
204.49	0.00	205.01	0.00		
204.50	0.00	205.02	0.00		
204.51	0.00	205.03	0.00		
204.52	0.00	205.04	0.00		
204.53	0.00	205.05	0.00		
204.54	0.00	205.06	0.00		
204.55	0.00	205.07	0.00		
204.56	0.00	205.08	0.00		
204.57	0.00	205.09	0.00		
204.58	0.00	205.10	0.00		
204.59	0.00	205.11	0.00		
204.60	0.00	205.12	0.00		
204.61	0.00	205.13	0.00		
204.62	0.00	205.14	0.00		
204.63	0.00	205.15	0.00		
204.64	0.00	205.16	0.00		
204.65	0.00	205.17	0.00		
204.66	0.00	205.18	0.00		
204.67	0.00	205.19	0.00		

Stage-Area-Storage for Pond B-4B: Basin #4B

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
200.00	1,852	0	200.52	2,226	1,060
200.01	1,859	19	200.53	2,233	1,083
200.02	1,866	37	200.54	2,240	1,105
200.03	1,874	56	200.55	2,247	1,127
200.04	1,881	75	200.56	2,255	1,150
200.05	1,888	93	200.57	2,262	1,172
200.06	1,895	112	200.58	2,269	1,195
200.07	1,902	131	200.59	2,276	1,218
200.08	1,910	150	200.60	2,283	1,241
200.09	1,917	170	200.61	2,291	1,263
200.10	1,924	189	200.62	2,298	1,286
200.11	1,931	208	200.63	2,305	1,309
200.12	1,938	227	200.64	2,312	1,333
200.13	1,945	247	200.65	2,319	1,356
200.14	1,953	266	200.66	2,327	1,379
200.15	1,960	286	200.67	2,334	1,402
200.16	1,967	306	200.68	2,341	1,426
200.17	1,974	325	200.69	2,348	1,449
200.18	1,981	345	200.70	2,355	1,473
200.19	1,989	365	200.71	2,362	1,496
200.20	1,996	385	200.72	2,370	1,520
200.21	2,003	405	200.73	2,377	1,544
200.22	2,010	425	200.74	2,384	1,567
200.23	2,017	445	200.75	2,391	1,591
200.24	2,025	465	200.76	2,398	1,615
200.25	2,032	485	200.77	2,406	1,639
200.26	2,039	506	200.78	2,413	1,663
200.27	2,046	526	200.79	2,420	1,687
200.28	2,053	547	200.80	2,427	1,712
200.29	2,061	567	200.81	2,434	1,736
200.30	2,068	588	200.82	2,442	1,760
200.31	2,075	609	200.83	2,449	1,785
200.32	2,082	629	200.84	2,456	1,809
200.33	2,089	650	200.85	2,463	1,834
200.34	2,096	671	200.86	2,470	1,859
200.35	2,104	692	200.87	2,478	1,883
200.36	2,111	713	200.88	2,485	1,908
200.37	2,118	734	200.89	2,492	1,933
200.38	2,125	756	200.90	2,499	1,958
200.39	2,132	777	200.91	2,506	1,983
200.40	2,140	798	200.92	2,513	2,008
200.41	2,147	820	200.93	2,521	2,033
200.42	2,154	841	200.94	2,528	2,059
200.43	2,161	863	200.95	2,535	2,084
200.44	2,168	884	200.96	2,542	2,109
200.45	2,176	906	200.97	2,549	2,135
200.46	2,183	928	200.98	2,557	2,160
200.47	2,190	950	200.99	2,564	2,186
200.48	2,197	972	201.00	2,571	2,212
200.49	2,204	994	201.01	2,579	2,237
200.50	2,212	1,016	201.02	2,587	2,263
200.51	2,219	1,038	201.03	2,595	2,289

Stage-Area-Storage for Pond B-4B: Basin #4B (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
201.04	2,604	2,315	201.56	3,026	3,779
201.05	2,612	2,341	201.57	3,034	3,809
201.06	2,620	2,367	201.58	3,043	3,839
201.07	2,628	2,393	201.59	3,051	3,870
201.08	2,636	2,420	201.60	3,059	3,900
201.09	2,644	2,446	201.61	3,067	3,931
201.10	2,652	2,473	201.62	3,075	3,962
201.11	2,660	2,499	201.63	3,083	3,993
201.12	2,669	2,526	201.64	3,091	4,023
201.13	2,677	2,553	201.65	3,099	4,054
201.14	2,685	2,579	201.66	3,108	4,085
201.15	2,693	2,606	201.67	3,116	4,117
201.16	2,701	2,633	201.68	3,124	4,148
201.17	2,709	2,660	201.69	3,132	4,179
201.18	2,717	2,687	201.70	3,140	4,210
201.19	2,725	2,715	201.71	3,148	4,242
201.20	2,734	2,742	201.72	3,156	4,273
201.21	2,742	2,769	201.73	3,164	4,305
201.22	2,750	2,797	201.74	3,173	4,337
201.23	2,758	2,824	201.75	3,181	4,368
201.24	2,766	2,852	201.76	3,189	4,400
201.25	2,774	2,880	201.77	3,197	4,432
201.26	2,782	2,907	201.78	3,205	4,464
201.27	2,791	2,935	201.79	3,213	4,496
201.28	2,799	2,963	201.80	3,221	4,528
201.29	2,807	2,991	201.81	3,230	4,561
201.30	2,815	3,019	201.82	3,238	4,593
201.31	2,823	3,048	201.83	3,246	4,625
201.32	2,831	3,076	201.84	3,254	4,658
201.33	2,839	3,104	201.85	3,262	4,691
201.34	2,847	3,133	201.86	3,270	4,723
201.35	2,856	3,161	201.87	3,278	4,756
201.36	2,864	3,190	201.88	3,286	4,789
201.37	2,872	3,218	201.89	3,295	4,822
201.38	2,880	3,247	201.90	3,303	4,855
201.39	2,888	3,276	201.91	3,311	4,888
201.40	2,896	3,305	201.92	3,319	4,921
201.41	2,904	3,334	201.93	3,327	4,954
201.42	2,912	3,363	201.94	3,335	4,987
201.43	2,921	3,392	201.95	3,343	5,021
201.44	2,929	3,421	201.96	3,351	5,054
201.45	2,937	3,451	201.97	3,360	5,088
201.46	2,945	3,480	201.98	3,368	5,121
201.47	2,953	3,510	201.99	3,376	5,155
201.48	2,961	3,539	202.00	3,384	5,189
201.49	2,969	3,569	202.01	3,393	5,223
201.50	2,978	3,599	202.02	3,402	5,257
201.51	2,986	3,628	202.03	3,411	5,291
201.52	2,994	3,658	202.04	3,420	5,325
201.53	3,002	3,688	202.05	3,429	5,359
201.54	3,010	3,718	202.06	3,438	5,394
201.55	3,018	3,749	202.07	3,448	5,428

Stage-Area-Storage for Pond B-4B: Basin #4B (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
202.08	3,457	5,463	202.60	3,929	7,383
202.09	3,466	5,497	202.61	3,938	7,422
202.10	3,475	5,532	202.62	3,947	7,462
202.11	3,484	5,567	202.63	3,956	7,501
202.12	3,493	5,602	202.64	3,965	7,541
202.13	3,502	5,637	202.65	3,974	7,580
202.14	3,511	5,672	202.66	3,983	7,620
202.15	3,520	5,707	202.67	3,992	7,660
202.16	3,529	5,742	202.68	4,001	7,700
202.17	3,538	5,777	202.69	4,011	7,740
202.18	3,547	5,813	202.70	4,020	7,780
202.19	3,557	5,848	202.71	4,029	7,821
202.20	3,566	5,884	202.72	4,038	7,861
202.21	3,575	5,920	202.73	4,047	7,901
202.22	3,584	5,955	202.74	4,056	7,942
202.23	3,593	5,991	202.75	4,065	7,982
202.24	3,602	6,027	202.76	4,074	8,023
202.25	3,611	6,063	202.77	4,083	8,064
202.26	3,620	6,100	202.78	4,092	8,105
202.27	3,629	6,136	202.79	4,101	8,146
202.28	3,638	6,172	202.80	4,110	8,187
202.29	3,647	6,209	202.81	4,119	8,228
202.30	3,656	6,245	202.82	4,129	8,269
202.31	3,665	6,282	202.83	4,138	8,310
202.32	3,675	6,318	202.84	4,147	8,352
202.33	3,684	6,355	202.85	4,156	8,393
202.34	3,693	6,392	202.86	4,165	8,435
202.35	3,702	6,429	202.87	4,174	8,477
202.36	3,711	6,466	202.88	4,183	8,518
202.37	3,720	6,503	202.89	4,192	8,560
202.38	3,729	6,540	202.90	4,201	8,602
202.39	3,738	6,578	202.91	4,210	8,644
202.40	3,747	6,615	202.92	4,219	8,687
202.41	3,756	6,653	202.93	4,228	8,729
202.42	3,765	6,690	202.94	4,238	8,771
202.43	3,774	6,728	202.95	4,247	8,814
202.44	3,784	6,766	202.96	4,256	8,856
202.45	3,793	6,804	202.97	4,265	8,899
202.46	3,802	6,842	202.98	4,274	8,941
202.47	3,811	6,880	202.99	4,283	8,984
202.48	3,820	6,918	203.00	4,292	9,027
202.49	3,829	6,956	203.01	4,302	9,070
202.50	3,838	6,995	203.02	4,312	9,113
202.51	3,847	7,033	203.03	4,322	9,156
202.52	3,856	7,071	203.04	4,332	9,199
202.53	3,865	7,110	203.05	4,342	9,243
202.54	3,874	7,149	203.06	4,352	9,286
202.55	3,883	7,188	203.07	4,362	9,330
202.56	3,892	7,226	203.08	4,372	9,374
202.57	3,902	7,265	203.09	4,382	9,417
202.58	3,911	7,304	203.10	4,392	9,461
202.59	3,920	7,344	203.11	4,402	9,505

Stage-Area-Storage for Pond B-4B: Basin #4B (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
203.12	4,412	9,549	203.64	4,933	11,979
203.13	4,422	9,593	203.65	4,943	12,028
203.14	4,432	9,638	203.66	4,953	12,078
203.15	4,442	9,682	203.67	4,963	12,128
203.16	4,452	9,727	203.68	4,973	12,177
203.17	4,462	9,771	203.69	4,983	12,227
203.18	4,472	9,816	203.70	4,993	12,277
203.19	4,482	9,861	203.71	5,003	12,327
203.20	4,492	9,905	203.72	5,013	12,377
203.21	4,502	9,950	203.73	5,023	12,427
203.22	4,512	9,995	203.74	5,033	12,477
203.23	4,522	10,041	203.75	5,044	12,528
203.24	4,532	10,086	203.76	5,054	12,578
203.25	4,543	10,131	203.77	5,064	12,629
203.26	4,553	10,177	203.78	5,074	12,680
203.27	4,563	10,222	203.79	5,084	12,730
203.28	4,573	10,268	203.80	5,094	12,781
203.29	4,583	10,314	203.81	5,104	12,832
203.30	4,593	10,360	203.82	5,114	12,883
203.31	4,603	10,406	203.83	5,124	12,934
203.32	4,613	10,452	203.84	5,134	12,986
203.33	4,623	10,498	203.85	5,144	13,037
203.34	4,633	10,544	203.86	5,154	13,089
203.35	4,643	10,591	203.87	5,164	13,140
203.36	4,653	10,637	203.88	5,174	13,192
203.37	4,663	10,684	203.89	5,184	13,244
203.38	4,673	10,730	203.90	5,194	13,296
203.39	4,683	10,777	203.91	5,204	13,348
203.40	4,693	10,824	203.92	5,214	13,400
203.41	4,703	10,871	203.93	5,224	13,452
203.42	4,713	10,918	203.94	5,234	13,504
203.43	4,723	10,965	203.95	5,244	13,557
203.44	4,733	11,012	203.96	5,254	13,609
203.45	4,743	11,060	203.97	5,264	13,662
203.46	4,753	11,107	203.98	5,274	13,714
203.47	4,763	11,155	203.99	5,284	13,767
203.48	4,773	11,203	204.00	5,294	13,820
203.49	4,783	11,250	204.01	5,305	13,873
203.50	4,793	11,298	204.02	5,316	13,926
203.51	4,803	11,346	204.03	5,327	13,979
203.52	4,813	11,394	204.04	5,338	14,033
203.53	4,823	11,442	204.05	5,349	14,086
203.54	4,833	11,491	204.06	5,360	14,140
203.55	4,843	11,539	204.07	5,371	14,193
203.56	4,853	11,588	204.08	5,382	14,247
203.57	4,863	11,636	204.09	5,393	14,301
203.58	4,873	11,685	204.10	5,404	14,355
203.59	4,883	11,734	204.11	5,415	14,409
203.60	4,893	11,783	204.12	5,426	14,463
203.61	4,903	11,832	204.13	5,437	14,518
203.62	4,913	11,881	204.14	5,448	14,572
203.63	4,923	11,930	204.15	5,459	14,626

Stage-Area-Storage for Pond B-4B: Basin #4B (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
204.16	5,470	14,681	204.68	6,041	17,674
204.17	5,481	14,736	204.69	6,052	17,734
204.18	5,492	14,791	204.70	6,063	17,795
204.19	5,503	14,846	204.71	6,074	17,856
204.20	5,514	14,901	204.72	6,085	17,917
204.21	5,525	14,956	204.73	6,096	17,977
204.22	5,536	15,011	204.74	6,107	18,038
204.23	5,547	15,067	204.75	6,118	18,100
204.24	5,558	15,122	204.76	6,129	18,161
204.25	5,569	15,178	204.77	6,140	18,222
204.26	5,580	15,234	204.78	6,151	18,284
204.27	5,591	15,289	204.79	6,162	18,345
204.28	5,602	15,345	204.80	6,173	18,407
204.29	5,613	15,401	204.81	6,184	18,469
204.30	5,624	15,458	204.82	6,195	18,531
204.31	5,635	15,514	204.83	6,206	18,593
204.32	5,646	15,570	204.84	6,217	18,655
204.33	5,657	15,627	204.85	6,228	18,717
204.34	5,668	15,683	204.86	6,239	18,779
204.35	5,679	15,740	204.87	6,250	18,842
204.36	5,690	15,797	204.88	6,261	18,904
204.37	5,701	15,854	204.89	6,272	18,967
204.38	5,712	15,911	204.90	6,283	19,030
204.39	5,723	15,968	204.91	6,294	19,093
204.40	5,734	16,026	204.92	6,305	19,156
204.41	5,745	16,083	204.93	6,316	19,219
204.42	5,756	16,140	204.94	6,327	19,282
204.43	5,767	16,198	204.95	6,338	19,345
204.44	5,778	16,256	204.96	6,349	19,409
204.45	5,789	16,314	204.97	6,360	19,472
204.46	5,800	16,372	204.98	6,371	19,536
204.47	5,811	16,430	204.99	6,382	19,600
204.48	5,822	16,488	205.00	6,393	19,664
204.49	5,833	16,546	205.01	6,404	19,727
204.50	5,844	16,604	205.02	6,415	19,792
204.51	5,854	16,663	205.03	6,425	19,856
204.52	5,865	16,721	205.04	6,436	19,920
204.53	5,876	16,780	205.05	6,447	19,985
204.54	5,887	16,839	205.06	6,458	20,049
204.55	5,898	16,898	205.07	6,469	20,114
204.56	5,909	16,957	205.08	6,480	20,178
204.57	5,920	17,016	205.09	6,490	20,243
204.58	5,931	17,075	205.10	6,501	20,308
204.59	5,942	17,135	205.11	6,512	20,373
204.60	5,953	17,194	205.12	6,523	20,438
204.61	5,964	17,254	205.13	6,534	20,504
204.62	5,975	17,314	205.14	6,544	20,569
204.63	5,986	17,373	205.15	6,555	20,635
204.64	5,997	17,433	205.16	6,566	20,700
204.65	6,008	17,493	205.17	6,577	20,766
204.66	6,019	17,553	205.18	6,588	20,832
204.67	6,030	17,614	205.19	6,599	20,898

Stage-Area-Storage for Pond B-4B: Basin #4B (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
205.20	6,609	20,964
205.21	6,620	21,030
205.22	6,631	21,096
205.23	6,642	21,163
205.24	6,653	21,229
205.25	6,664	21,296
205.26	6,674	21,362
205.27	6,685	21,429
205.28	6,696	21,496
205.29	6,707	21,563
205.30	6,718	21,630
205.31	6,728	21,697
205.32	6,739	21,765
205.33	6,750	21,832
205.34	6,761	21,900
205.35	6,772	21,967
205.36	6,783	22,035
205.37	6,793	22,103
205.38	6,804	22,171
205.39	6,815	22,239
205.40	6,826	22,307
205.41	6,837	22,376
205.42	6,847	22,444
205.43	6,858	22,513
205.44	6,869	22,581
205.45	6,880	22,650
205.46	6,891	22,719
205.47	6,902	22,788
205.48	6,912	22,857
205.49	6,923	22,926
205.50	6,934	22,995

Summary for Pond B-5: Basin #5

Inflow Area = 5.341 ac, 32.20% Impervious, Inflow Depth = 0.19" for Future 2 yr event
 Inflow = 1.10 cfs @ 12.18 hrs, Volume= 0.084 af
 Outflow = 0.04 cfs @ 16.14 hrs, Volume= 0.062 af, Atten= 96%, Lag= 237.3 min
 Primary = 0.04 cfs @ 16.14 hrs, Volume= 0.062 af
 Routed to Link PDA-1 : Proposed Drainage Area #1

Routing by Stor-Ind method, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 Peak Elev= 200.20' @ 16.14 hrs Surf.Area= 11,862 sf Storage= 2,325 cf

Plug-Flow detention time= 603.3 min calculated for 0.062 af (73% of inflow)
 Center-of-Mass det. time= 503.8 min (1,362.0 - 858.3)

Volume	Invert	Avail.Storage	Storage Description
#1	200.00'	91,976 cf	Custom Stage Data (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
200.00	11,631	0	0
201.00	12,798	12,215	12,215
202.00	14,009	13,404	25,618
203.00	15,262	14,636	40,254
204.00	16,558	15,910	56,164
205.00	17,896	17,227	73,391
206.00	19,275	18,586	91,976

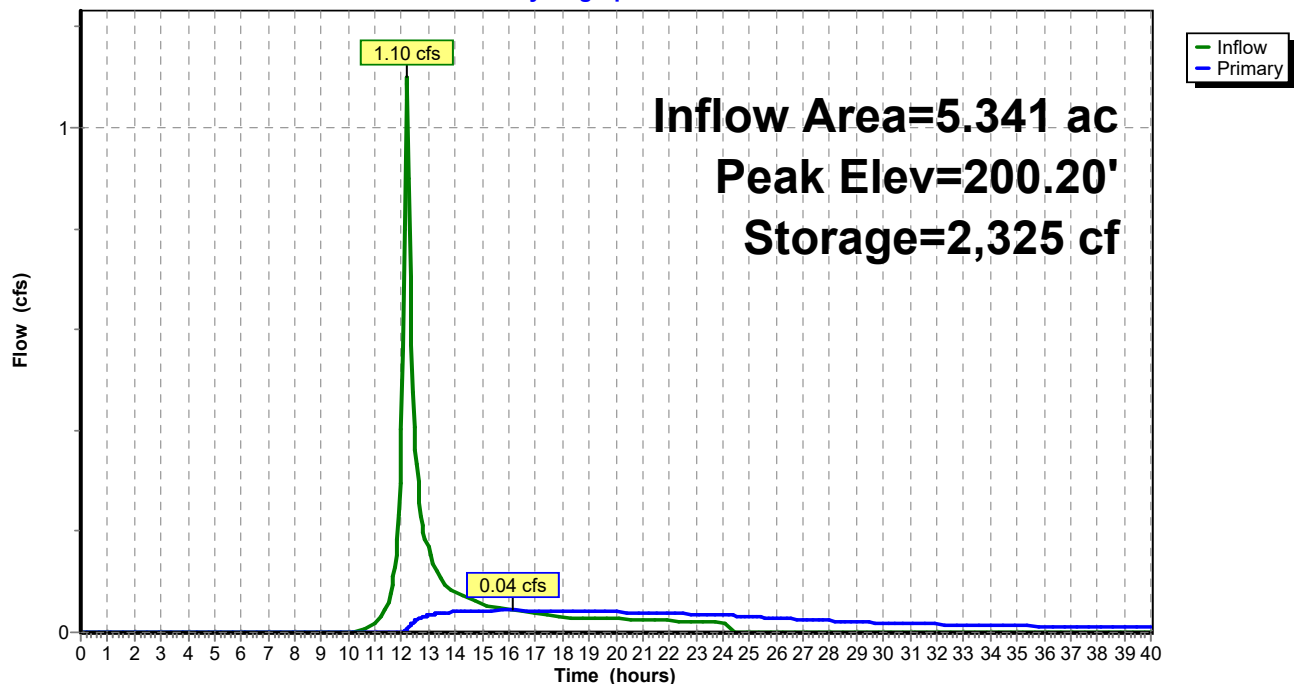
Device	Routing	Invert	Outlet Devices
#1	Primary	198.65'	18.0" Round Culvert L= 70.0' Ke= 0.500 Inlet / Outlet Invert= 198.65' / 196.00' S= 0.0379 '/' Cc= 0.900 n= 0.013, Flow Area= 1.77 sf
#2	Device 1	200.02'	2.5" Vert. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#3	Device 1	201.25'	4.0' long Sharp-Crested Rectangular Weir 2 End Contraction(s)
#4	Primary	205.00'	50.0' long + 3.0 '/' SideZ x 5.0' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 Coef. (English) 2.34 2.50 2.70 2.68 2.68 2.66 2.65 2.65 2.65 2.65 2.67 2.66 2.68 2.70 2.74 2.79 2.88

Primary OutFlow Max=0.04 cfs @ 16.14 hrs HW=200.20' (Free Discharge)

1=Culvert (Passes 0.04 cfs of 7.60 cfs potential flow)
 2=Orifice/Grate (Orifice Controls 0.04 cfs @ 1.44 fps)
 3=Sharp-Crested Rectangular Weir (Controls 0.00 cfs)
 4=Broad-Crested Rectangular Weir (Controls 0.00 cfs)

Pond B-5: Basin #5

Hydrograph



Stage-Discharge for Pond B-5: Basin #5

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
200.00	0.00	200.52	0.10	201.04	0.16	201.56	2.42
200.01	0.00	200.53	0.10	201.05	0.16	201.57	2.53
200.02	0.00	200.54	0.11	201.06	0.16	201.58	2.64
200.03	0.00	200.55	0.11	201.07	0.16	201.59	2.75
200.04	0.00	200.56	0.11	201.08	0.16	201.60	2.86
200.05	0.00	200.57	0.11	201.09	0.16	201.61	2.97
200.06	0.00	200.58	0.11	201.10	0.16	201.62	3.09
200.07	0.00	200.59	0.11	201.11	0.16	201.63	3.21
200.08	0.01	200.60	0.11	201.12	0.16	201.64	3.33
200.09	0.01	200.61	0.11	201.13	0.16	201.65	3.45
200.10	0.01	200.62	0.12	201.14	0.17	201.66	3.57
200.11	0.01	200.63	0.12	201.15	0.17	201.67	3.69
200.12	0.02	200.64	0.12	201.16	0.17	201.68	3.81
200.13	0.02	200.65	0.12	201.17	0.17	201.69	3.94
200.14	0.02	200.66	0.12	201.18	0.17	201.70	4.07
200.15	0.03	200.67	0.12	201.19	0.17	201.71	4.19
200.16	0.03	200.68	0.12	201.20	0.17	201.72	4.32
200.17	0.03	200.69	0.12	201.21	0.17	201.73	4.45
200.18	0.04	200.70	0.12	201.22	0.17	201.74	4.59
200.19	0.04	200.71	0.13	201.23	0.17	201.75	4.72
200.20	0.05	200.72	0.13	201.24	0.17	201.76	4.85
200.21	0.05	200.73	0.13	201.25	0.17	201.77	4.99
200.22	0.05	200.74	0.13	201.26	0.19	201.78	5.12
200.23	0.05	200.75	0.13	201.27	0.21	201.79	5.26
200.24	0.06	200.76	0.13	201.28	0.24	201.80	5.40
200.25	0.06	200.77	0.13	201.29	0.28	201.81	5.54
200.26	0.06	200.78	0.13	201.30	0.32	201.82	5.68
200.27	0.06	200.79	0.13	201.31	0.37	201.83	5.82
200.28	0.06	200.80	0.13	201.32	0.42	201.84	5.97
200.29	0.07	200.81	0.14	201.33	0.48	201.85	6.11
200.30	0.07	200.82	0.14	201.34	0.53	201.86	6.26
200.31	0.07	200.83	0.14	201.35	0.59	201.87	6.40
200.32	0.07	200.84	0.14	201.36	0.66	201.88	6.55
200.33	0.07	200.85	0.14	201.37	0.72	201.89	6.70
200.34	0.08	200.86	0.14	201.38	0.79	201.90	6.85
200.35	0.08	200.87	0.14	201.39	0.87	201.91	7.00
200.36	0.08	200.88	0.14	201.40	0.94	201.92	7.15
200.37	0.08	200.89	0.14	201.41	1.02	201.93	7.31
200.38	0.08	200.90	0.14	201.42	1.10	201.94	7.46
200.39	0.08	200.91	0.15	201.43	1.18	201.95	7.61
200.40	0.09	200.92	0.15	201.44	1.26	201.96	7.77
200.41	0.09	200.93	0.15	201.45	1.35	201.97	7.93
200.42	0.09	200.94	0.15	201.46	1.44	201.98	8.08
200.43	0.09	200.95	0.15	201.47	1.53	201.99	8.24
200.44	0.09	200.96	0.15	201.48	1.62	202.00	8.40
200.45	0.09	200.97	0.15	201.49	1.71	202.01	8.56
200.46	0.10	200.98	0.15	201.50	1.81	202.02	8.72
200.47	0.10	200.99	0.15	201.51	1.90	202.03	8.89
200.48	0.10	201.00	0.15	201.52	2.00	202.04	9.05
200.49	0.10	201.01	0.15	201.53	2.11	202.05	9.21
200.50	0.10	201.02	0.16	201.54	2.21	202.06	9.38
200.51	0.10	201.03	0.16	201.55	2.31	202.07	9.54

Stage-Discharge for Pond B-5: Basin #5 (continued)

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
202.08	9.71	202.60	15.22	203.12	16.41	203.64	17.52
202.09	9.88	202.61	15.24	203.13	16.43	203.65	17.54
202.10	10.05	202.62	15.27	203.14	16.46	203.66	17.56
202.11	10.21	202.63	15.29	203.15	16.48	203.67	17.58
202.12	10.38	202.64	15.32	203.16	16.50	203.68	17.60
202.13	10.56	202.65	15.34	203.17	16.52	203.69	17.62
202.14	10.73	202.66	15.36	203.18	16.54	203.70	17.64
202.15	10.90	202.67	15.39	203.19	16.56	203.71	17.66
202.16	11.07	202.68	15.41	203.20	16.59	203.72	17.69
202.17	11.25	202.69	15.43	203.21	16.61	203.73	17.71
202.18	11.42	202.70	15.46	203.22	16.63	203.74	17.73
202.19	11.60	202.71	15.48	203.23	16.65	203.75	17.75
202.20	11.77	202.72	15.50	203.24	16.67	203.76	17.77
202.21	11.95	202.73	15.53	203.25	16.70	203.77	17.79
202.22	12.13	202.74	15.55	203.26	16.72	203.78	17.81
202.23	12.31	202.75	15.57	203.27	16.74	203.79	17.83
202.24	12.49	202.76	15.60	203.28	16.76	203.80	17.85
202.25	12.67	202.77	15.62	203.29	16.78	203.81	17.87
202.26	12.85	202.78	15.64	203.30	16.80	203.82	17.89
202.27	13.03	202.79	15.67	203.31	16.82	203.83	17.91
202.28	13.21	202.80	15.69	203.32	16.85	203.84	17.93
202.29	13.39	202.81	15.71	203.33	16.87	203.85	17.95
202.30	13.58	202.82	15.74	203.34	16.89	203.86	17.97
202.31	13.76	202.83	15.76	203.35	16.91	203.87	17.99
202.32	13.95	202.84	15.78	203.36	16.93	203.88	18.01
202.33	14.13	202.85	15.80	203.37	16.95	203.89	18.03
202.34	14.32	202.86	15.83	203.38	16.97	203.90	18.05
202.35	14.51	202.87	15.85	203.39	17.00	203.91	18.07
202.36	14.64	202.88	15.87	203.40	17.02	203.92	18.09
202.37	14.66	202.89	15.90	203.41	17.04	203.93	18.11
202.38	14.69	202.90	15.92	203.42	17.06	203.94	18.13
202.39	14.71	202.91	15.94	203.43	17.08	203.95	18.15
202.40	14.74	202.92	15.96	203.44	17.10	203.96	18.17
202.41	14.76	202.93	15.99	203.45	17.12	203.97	18.19
202.42	14.79	202.94	16.01	203.46	17.14	203.98	18.21
202.43	14.81	202.95	16.03	203.47	17.17	203.99	18.23
202.44	14.84	202.96	16.05	203.48	17.19	204.00	18.25
202.45	14.86	202.97	16.08	203.49	17.21	204.01	18.27
202.46	14.88	202.98	16.10	203.50	17.23	204.02	18.29
202.47	14.91	202.99	16.12	203.51	17.25	204.03	18.31
202.48	14.93	203.00	16.14	203.52	17.27	204.04	18.33
202.49	14.96	203.01	16.17	203.53	17.29	204.05	18.35
202.50	14.98	203.02	16.19	203.54	17.31	204.06	18.37
202.51	15.01	203.03	16.21	203.55	17.33	204.07	18.39
202.52	15.03	203.04	16.23	203.56	17.35	204.08	18.41
202.53	15.05	203.05	16.26	203.57	17.38	204.09	18.43
202.54	15.08	203.06	16.28	203.58	17.40	204.10	18.45
202.55	15.10	203.07	16.30	203.59	17.42	204.11	18.47
202.56	15.13	203.08	16.32	203.60	17.44	204.12	18.49
202.57	15.15	203.09	16.34	203.61	17.46	204.13	18.51
202.58	15.17	203.10	16.37	203.62	17.48	204.14	18.52
202.59	15.20	203.11	16.39	203.63	17.50	204.15	18.54

Stage-Discharge for Pond B-5: Basin #5 (continued)

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
204.16	18.56	204.68	19.55	205.20	31.06	205.72	106.34
204.17	18.58	204.69	19.57	205.21	31.92	205.73	108.14
204.18	18.60	204.70	19.59	205.22	32.81	205.74	109.95
204.19	18.62	204.71	19.61	205.23	33.73	205.75	111.78
204.20	18.64	204.72	19.63	205.24	34.67	205.76	113.62
204.21	18.66	204.73	19.64	205.25	35.63	205.77	115.47
204.22	18.68	204.74	19.66	205.26	36.62	205.78	117.33
204.23	18.70	204.75	19.68	205.27	37.64	205.79	119.20
204.24	18.72	204.76	19.70	205.28	38.68	205.80	121.09
204.25	18.74	204.77	19.72	205.29	39.75	205.81	123.03
204.26	18.76	204.78	19.74	205.30	40.84	205.82	124.98
204.27	18.78	204.79	19.75	205.31	41.95	205.83	126.94
204.28	18.80	204.80	19.77	205.32	43.09	205.84	128.92
204.29	18.82	204.81	19.79	205.33	44.25	205.85	130.90
204.30	18.83	204.82	19.81	205.34	45.44	205.86	132.91
204.31	18.85	204.83	19.83	205.35	46.65	205.87	134.92
204.32	18.87	204.84	19.85	205.36	47.89	205.88	136.95
204.33	18.89	204.85	19.86	205.37	49.15	205.89	138.99
204.34	18.91	204.86	19.88	205.38	50.43	205.90	141.05
204.35	18.93	204.87	19.90	205.39	51.74	205.91	143.11
204.36	18.95	204.88	19.92	205.40	53.07	205.92	145.19
204.37	18.97	204.89	19.94	205.41	54.46	205.93	147.29
204.38	18.99	204.90	19.95	205.42	55.86	205.94	149.39
204.39	19.01	204.91	19.97	205.43	57.30	205.95	151.51
204.40	19.03	204.92	19.99	205.44	58.76	205.96	153.64
204.41	19.05	204.93	20.01	205.45	60.25	205.97	155.79
204.42	19.06	204.94	20.03	205.46	61.76	205.98	157.94
204.43	19.08	204.95	20.05	205.47	63.30	205.99	160.11
204.44	19.10	204.96	20.06	205.48	64.87	206.00	162.29
204.45	19.12	204.97	20.08	205.49	66.46		
204.46	19.14	204.98	20.10	205.50	68.08		
204.47	19.16	204.99	20.12	205.51	69.73		
204.48	19.18	205.00	20.14	205.52	71.40		
204.49	19.20	205.01	20.27	205.53	73.10		
204.50	19.22	205.02	20.50	205.54	74.82		
204.51	19.23	205.03	20.80	205.55	76.57		
204.52	19.25	205.04	21.14	205.56	78.35		
204.53	19.27	205.05	21.54	205.57	80.16		
204.54	19.29	205.06	21.97	205.58	81.99		
204.55	19.31	205.07	22.44	205.59	83.85		
204.56	19.33	205.08	22.94	205.60	85.74		
204.57	19.35	205.09	23.47	205.61	87.38		
204.58	19.37	205.10	24.03	205.62	89.04		
204.59	19.38	205.11	24.62	205.63	90.71		
204.60	19.40	205.12	25.24	205.64	92.39		
204.61	19.42	205.13	25.89	205.65	94.09		
204.62	19.44	205.14	26.56	205.66	95.80		
204.63	19.46	205.15	27.25	205.67	97.53		
204.64	19.48	205.16	27.97	205.68	99.26		
204.65	19.50	205.17	28.71	205.69	101.01		
204.66	19.51	205.18	29.47	205.70	102.78		
204.67	19.53	205.19	30.25	205.71	104.55		

Stage-Area-Storage for Pond B-5: Basin #5

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
200.00	11,631	0	200.52	12,238	6,206
200.01	11,643	116	200.53	12,250	6,328
200.02	11,654	233	200.54	12,261	6,451
200.03	11,666	349	200.55	12,273	6,574
200.04	11,678	466	200.56	12,285	6,696
200.05	11,689	583	200.57	12,296	6,819
200.06	11,701	700	200.58	12,308	6,942
200.07	11,713	817	200.59	12,320	7,065
200.08	11,724	934	200.60	12,331	7,189
200.09	11,736	1,052	200.61	12,343	7,312
200.10	11,748	1,169	200.62	12,355	7,436
200.11	11,759	1,286	200.63	12,366	7,559
200.12	11,771	1,404	200.64	12,378	7,683
200.13	11,783	1,522	200.65	12,390	7,807
200.14	11,794	1,640	200.66	12,401	7,931
200.15	11,806	1,758	200.67	12,413	8,055
200.16	11,818	1,876	200.68	12,425	8,179
200.17	11,829	1,994	200.69	12,436	8,303
200.18	11,841	2,112	200.70	12,448	8,428
200.19	11,853	2,231	200.71	12,460	8,552
200.20	11,864	2,350	200.72	12,471	8,677
200.21	11,876	2,468	200.73	12,483	8,802
200.22	11,888	2,587	200.74	12,495	8,926
200.23	11,899	2,706	200.75	12,506	9,051
200.24	11,911	2,825	200.76	12,518	9,177
200.25	11,923	2,944	200.77	12,530	9,302
200.26	11,934	3,064	200.78	12,541	9,427
200.27	11,946	3,183	200.79	12,553	9,553
200.28	11,958	3,302	200.80	12,565	9,678
200.29	11,969	3,422	200.81	12,576	9,804
200.30	11,981	3,542	200.82	12,588	9,930
200.31	11,993	3,662	200.83	12,600	10,056
200.32	12,004	3,782	200.84	12,611	10,182
200.33	12,016	3,902	200.85	12,623	10,308
200.34	12,028	4,022	200.86	12,635	10,434
200.35	12,039	4,142	200.87	12,646	10,561
200.36	12,051	4,263	200.88	12,658	10,687
200.37	12,063	4,383	200.89	12,670	10,814
200.38	12,074	4,504	200.90	12,681	10,941
200.39	12,086	4,625	200.91	12,693	11,067
200.40	12,098	4,746	200.92	12,705	11,194
200.41	12,109	4,867	200.93	12,716	11,321
200.42	12,121	4,988	200.94	12,728	11,449
200.43	12,133	5,109	200.95	12,740	11,576
200.44	12,144	5,231	200.96	12,751	11,704
200.45	12,156	5,352	200.97	12,763	11,831
200.46	12,168	5,474	200.98	12,775	11,959
200.47	12,179	5,595	200.99	12,786	12,087
200.48	12,191	5,717	201.00	12,798	12,215
200.49	12,203	5,839	201.01	12,810	12,343
200.50	12,215	5,961	201.02	12,822	12,471
200.51	12,226	6,084	201.03	12,834	12,599

Stage-Area-Storage for Pond B-5: Basin #5 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
201.04	12,846	12,727	201.56	13,476	19,571
201.05	12,859	12,856	201.57	13,488	19,706
201.06	12,871	12,985	201.58	13,500	19,841
201.07	12,883	13,113	201.59	13,512	19,976
201.08	12,895	13,242	201.60	13,525	20,111
201.09	12,907	13,371	201.61	13,537	20,247
201.10	12,919	13,500	201.62	13,549	20,382
201.11	12,931	13,630	201.63	13,561	20,518
201.12	12,943	13,759	201.64	13,573	20,653
201.13	12,955	13,888	201.65	13,585	20,789
201.14	12,968	14,018	201.66	13,597	20,925
201.15	12,980	14,148	201.67	13,609	21,061
201.16	12,992	14,278	201.68	13,621	21,197
201.17	13,004	14,408	201.69	13,634	21,333
201.18	13,016	14,538	201.70	13,646	21,470
201.19	13,028	14,668	201.71	13,658	21,606
201.20	13,040	14,798	201.72	13,670	21,743
201.21	13,052	14,929	201.73	13,682	21,880
201.22	13,064	15,059	201.74	13,694	22,017
201.23	13,077	15,190	201.75	13,706	22,154
201.24	13,089	15,321	201.76	13,718	22,291
201.25	13,101	15,452	201.77	13,730	22,428
201.26	13,113	15,583	201.78	13,743	22,565
201.27	13,125	15,714	201.79	13,755	22,703
201.28	13,137	15,845	201.80	13,767	22,840
201.29	13,149	15,977	201.81	13,779	22,978
201.30	13,161	16,108	201.82	13,791	23,116
201.31	13,173	16,240	201.83	13,803	23,254
201.32	13,186	16,372	201.84	13,815	23,392
201.33	13,198	16,504	201.85	13,827	23,530
201.34	13,210	16,636	201.86	13,839	23,669
201.35	13,222	16,768	201.87	13,852	23,807
201.36	13,234	16,900	201.88	13,864	23,946
201.37	13,246	17,033	201.89	13,876	24,084
201.38	13,258	17,165	201.90	13,888	24,223
201.39	13,270	17,298	201.91	13,900	24,362
201.40	13,282	17,431	201.92	13,912	24,501
201.41	13,295	17,563	201.93	13,924	24,640
201.42	13,307	17,696	201.94	13,936	24,780
201.43	13,319	17,830	201.95	13,948	24,919
201.44	13,331	17,963	201.96	13,961	25,059
201.45	13,343	18,096	201.97	13,973	25,198
201.46	13,355	18,230	201.98	13,985	25,338
201.47	13,367	18,363	201.99	13,997	25,478
201.48	13,379	18,497	202.00	14,009	25,618
201.49	13,391	18,631	202.01	14,022	25,758
201.50	13,404	18,765	202.02	14,034	25,898
201.51	13,416	18,899	202.03	14,047	26,039
201.52	13,428	19,033	202.04	14,059	26,179
201.53	13,440	19,168	202.05	14,072	26,320
201.54	13,452	19,302	202.06	14,084	26,461
201.55	13,464	19,437	202.07	14,097	26,602

Stage-Area-Storage for Pond B-5: Basin #5 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
202.08	14,109	26,743	202.60	14,761	34,249
202.09	14,122	26,884	202.61	14,773	34,397
202.10	14,134	27,025	202.62	14,786	34,544
202.11	14,147	27,167	202.63	14,798	34,692
202.12	14,159	27,308	202.64	14,811	34,840
202.13	14,172	27,450	202.65	14,823	34,989
202.14	14,184	27,592	202.66	14,836	35,137
202.15	14,197	27,733	202.67	14,849	35,285
202.16	14,209	27,875	202.68	14,861	35,434
202.17	14,222	28,018	202.69	14,874	35,582
202.18	14,235	28,160	202.70	14,886	35,731
202.19	14,247	28,302	202.71	14,899	35,880
202.20	14,260	28,445	202.72	14,911	36,029
202.21	14,272	28,588	202.73	14,924	36,178
202.22	14,285	28,730	202.74	14,936	36,328
202.23	14,297	28,873	202.75	14,949	36,477
202.24	14,310	29,016	202.76	14,961	36,627
202.25	14,322	29,159	202.77	14,974	36,776
202.26	14,335	29,303	202.78	14,986	36,926
202.27	14,347	29,446	202.79	14,999	37,076
202.28	14,360	29,590	202.80	15,011	37,226
202.29	14,372	29,733	202.81	15,024	37,376
202.30	14,385	29,877	202.82	15,036	37,527
202.31	14,397	30,021	202.83	15,049	37,677
202.32	14,410	30,165	202.84	15,062	37,828
202.33	14,422	30,309	202.85	15,074	37,978
202.34	14,435	30,453	202.86	15,087	38,129
202.35	14,448	30,598	202.87	15,099	38,280
202.36	14,460	30,742	202.88	15,112	38,431
202.37	14,473	30,887	202.89	15,124	38,582
202.38	14,485	31,032	202.90	15,137	38,734
202.39	14,498	31,177	202.91	15,149	38,885
202.40	14,510	31,322	202.92	15,162	39,037
202.41	14,523	31,467	202.93	15,174	39,188
202.42	14,535	31,612	202.94	15,187	39,340
202.43	14,548	31,758	202.95	15,199	39,492
202.44	14,560	31,903	202.96	15,212	39,644
202.45	14,573	32,049	202.97	15,224	39,796
202.46	14,585	32,195	202.98	15,237	39,949
202.47	14,598	32,341	202.99	15,249	40,101
202.48	14,610	32,487	203.00	15,262	40,254
202.49	14,623	32,633	203.01	15,275	40,406
202.50	14,636	32,779	203.02	15,288	40,559
202.51	14,648	32,926	203.03	15,301	40,712
202.52	14,661	33,072	203.04	15,314	40,865
202.53	14,673	33,219	203.05	15,327	41,018
202.54	14,686	33,366	203.06	15,340	41,172
202.55	14,698	33,512	203.07	15,353	41,325
202.56	14,711	33,660	203.08	15,366	41,479
202.57	14,723	33,807	203.09	15,379	41,632
202.58	14,736	33,954	203.10	15,392	41,786
202.59	14,748	34,101	203.11	15,405	41,940

Stage-Area-Storage for Pond B-5: Basin #5 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
203.12	15,418	42,094	203.64	16,091	50,287
203.13	15,430	42,249	203.65	16,104	50,448
203.14	15,443	42,403	203.66	16,117	50,609
203.15	15,456	42,557	203.67	16,130	50,770
203.16	15,469	42,712	203.68	16,143	50,931
203.17	15,482	42,867	203.69	16,156	51,093
203.18	15,495	43,022	203.70	16,169	51,254
203.19	15,508	43,177	203.71	16,182	51,416
203.20	15,521	43,332	203.72	16,195	51,578
203.21	15,534	43,487	203.73	16,208	51,740
203.22	15,547	43,643	203.74	16,221	51,902
203.23	15,560	43,798	203.75	16,234	52,065
203.24	15,573	43,954	203.76	16,247	52,227
203.25	15,586	44,110	203.77	16,260	52,389
203.26	15,599	44,265	203.78	16,273	52,552
203.27	15,612	44,421	203.79	16,286	52,715
203.28	15,625	44,578	203.80	16,299	52,878
203.29	15,638	44,734	203.81	16,312	53,041
203.30	15,651	44,890	203.82	16,325	53,204
203.31	15,664	45,047	203.83	16,338	53,367
203.32	15,677	45,204	203.84	16,351	53,531
203.33	15,690	45,361	203.85	16,364	53,694
203.34	15,703	45,517	203.86	16,377	53,858
203.35	15,716	45,675	203.87	16,390	54,022
203.36	15,729	45,832	203.88	16,402	54,186
203.37	15,742	45,989	203.89	16,415	54,350
203.38	15,754	46,147	203.90	16,428	54,514
203.39	15,767	46,304	203.91	16,441	54,679
203.40	15,780	46,462	203.92	16,454	54,843
203.41	15,793	46,620	203.93	16,467	55,008
203.42	15,806	46,778	203.94	16,480	55,172
203.43	15,819	46,936	203.95	16,493	55,337
203.44	15,832	47,094	203.96	16,506	55,502
203.45	15,845	47,253	203.97	16,519	55,667
203.46	15,858	47,411	203.98	16,532	55,833
203.47	15,871	47,570	203.99	16,545	55,998
203.48	15,884	47,729	204.00	16,558	56,164
203.49	15,897	47,887	204.01	16,571	56,329
203.50	15,910	48,047	204.02	16,585	56,495
203.51	15,923	48,206	204.03	16,598	56,661
203.52	15,936	48,365	204.04	16,612	56,827
203.53	15,949	48,524	204.05	16,625	56,993
203.54	15,962	48,684	204.06	16,638	57,159
203.55	15,975	48,844	204.07	16,652	57,326
203.56	15,988	49,003	204.08	16,665	57,492
203.57	16,001	49,163	204.09	16,678	57,659
203.58	16,014	49,323	204.10	16,692	57,826
203.59	16,027	49,484	204.11	16,705	57,993
203.60	16,040	49,644	204.12	16,719	58,160
203.61	16,053	49,804	204.13	16,732	58,327
203.62	16,066	49,965	204.14	16,745	58,495
203.63	16,078	50,126	204.15	16,759	58,662

Stage-Area-Storage for Pond B-5: Basin #5 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
204.16	16,772	58,830	204.68	17,468	67,732
204.17	16,785	58,998	204.69	17,481	67,907
204.18	16,799	59,166	204.70	17,495	68,082
204.19	16,812	59,334	204.71	17,508	68,257
204.20	16,826	59,502	204.72	17,521	68,432
204.21	16,839	59,670	204.73	17,535	68,607
204.22	16,852	59,839	204.74	17,548	68,783
204.23	16,866	60,007	204.75	17,562	68,958
204.24	16,879	60,176	204.76	17,575	69,134
204.25	16,893	60,345	204.77	17,588	69,310
204.26	16,906	60,514	204.78	17,602	69,486
204.27	16,919	60,683	204.79	17,615	69,662
204.28	16,933	60,852	204.80	17,628	69,838
204.29	16,946	61,022	204.81	17,642	70,014
204.30	16,959	61,191	204.82	17,655	70,191
204.31	16,973	61,361	204.83	17,669	70,368
204.32	16,986	61,531	204.84	17,682	70,544
204.33	17,000	61,700	204.85	17,695	70,721
204.34	17,013	61,871	204.86	17,709	70,898
204.35	17,026	62,041	204.87	17,722	71,075
204.36	17,040	62,211	204.88	17,735	71,253
204.37	17,053	62,382	204.89	17,749	71,430
204.38	17,066	62,552	204.90	17,762	71,608
204.39	17,080	62,723	204.91	17,776	71,785
204.40	17,093	62,894	204.92	17,789	71,963
204.41	17,107	63,065	204.93	17,802	72,141
204.42	17,120	63,236	204.94	17,816	72,319
204.43	17,133	63,407	204.95	17,829	72,497
204.44	17,147	63,579	204.96	17,842	72,676
204.45	17,160	63,750	204.97	17,856	72,854
204.46	17,173	63,922	204.98	17,869	73,033
204.47	17,187	64,094	204.99	17,883	73,212
204.48	17,200	64,265	205.00	17,896	73,391
204.49	17,214	64,438	205.01	17,910	73,570
204.50	17,227	64,610	205.02	17,924	73,749
204.51	17,240	64,782	205.03	17,937	73,928
204.52	17,254	64,955	205.04	17,951	74,107
204.53	17,267	65,127	205.05	17,965	74,287
204.54	17,281	65,300	205.06	17,979	74,467
204.55	17,294	65,473	205.07	17,993	74,647
204.56	17,307	65,646	205.08	18,006	74,827
204.57	17,321	65,819	205.09	18,020	75,007
204.58	17,334	65,992	205.10	18,034	75,187
204.59	17,347	66,166	205.11	18,048	75,367
204.60	17,361	66,339	205.12	18,061	75,548
204.61	17,374	66,513	205.13	18,075	75,729
204.62	17,388	66,687	205.14	18,089	75,909
204.63	17,401	66,861	205.15	18,103	76,090
204.64	17,414	67,035	205.16	18,117	76,272
204.65	17,428	67,209	205.17	18,130	76,453
204.66	17,441	67,383	205.18	18,144	76,634
204.67	17,454	67,558	205.19	18,158	76,816

Stage-Area-Storage for Pond B-5: Basin #5 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
205.20	18,172	76,997	205.72	18,889	86,633
205.21	18,186	77,179	205.73	18,903	86,822
205.22	18,199	77,361	205.74	18,916	87,011
205.23	18,213	77,543	205.75	18,930	87,200
205.24	18,227	77,725	205.76	18,944	87,390
205.25	18,241	77,908	205.77	18,958	87,579
205.26	18,255	78,090	205.78	18,972	87,769
205.27	18,268	78,273	205.79	18,985	87,959
205.28	18,282	78,455	205.80	18,999	88,149
205.29	18,296	78,638	205.81	19,013	88,339
205.30	18,310	78,821	205.82	19,027	88,529
205.31	18,323	79,005	205.83	19,041	88,719
205.32	18,337	79,188	205.84	19,054	88,910
205.33	18,351	79,371	205.85	19,068	89,100
205.34	18,365	79,555	205.86	19,082	89,291
205.35	18,379	79,739	205.87	19,096	89,482
205.36	18,392	79,922	205.88	19,110	89,673
205.37	18,406	80,106	205.89	19,123	89,864
205.38	18,420	80,291	205.90	19,137	90,055
205.39	18,434	80,475	205.91	19,151	90,247
205.40	18,448	80,659	205.92	19,165	90,438
205.41	18,461	80,844	205.93	19,178	90,630
205.42	18,475	81,028	205.94	19,192	90,822
205.43	18,489	81,213	205.95	19,206	91,014
205.44	18,503	81,398	205.96	19,220	91,206
205.45	18,517	81,583	205.97	19,234	91,398
205.46	18,530	81,769	205.98	19,247	91,591
205.47	18,544	81,954	205.99	19,261	91,783
205.48	18,558	82,139	206.00	19,275	91,976
205.49	18,572	82,325			
205.50	18,586	82,511			
205.51	18,599	82,697			
205.52	18,613	82,883			
205.53	18,627	83,069			
205.54	18,641	83,255			
205.55	18,654	83,442			
205.56	18,668	83,628			
205.57	18,682	83,815			
205.58	18,696	84,002			
205.59	18,710	84,189			
205.60	18,723	84,376			
205.61	18,737	84,564			
205.62	18,751	84,751			
205.63	18,765	84,939			
205.64	18,779	85,126			
205.65	18,792	85,314			
205.66	18,806	85,502			
205.67	18,820	85,690			
205.68	18,834	85,879			
205.69	18,848	86,067			
205.70	18,861	86,256			
205.71	18,875	86,444			

Summary for Pond B-6: Basin #6

Inflow Area = 1.191 ac, 58.27% Impervious, Inflow Depth = 2.73" for Future 2 yr event
 Inflow = 3.23 cfs @ 12.17 hrs, Volume= 0.271 af
 Outflow = 0.58 cfs @ 12.69 hrs, Volume= 0.199 af, Atten= 82%, Lag= 31.3 min
 Primary = 0.58 cfs @ 12.69 hrs, Volume= 0.199 af
 Routed to Link PDA-1 : Proposed Drainage Area #1

Routing by Stor-Ind method, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 Peak Elev= 200.21' @ 12.69 hrs Surf.Area= 6,204 sf Storage= 6,986 cf

Plug-Flow detention time= 471.3 min calculated for 0.199 af (74% of inflow)
 Center-of-Mass det. time= 377.9 min (1,158.3 - 780.4)

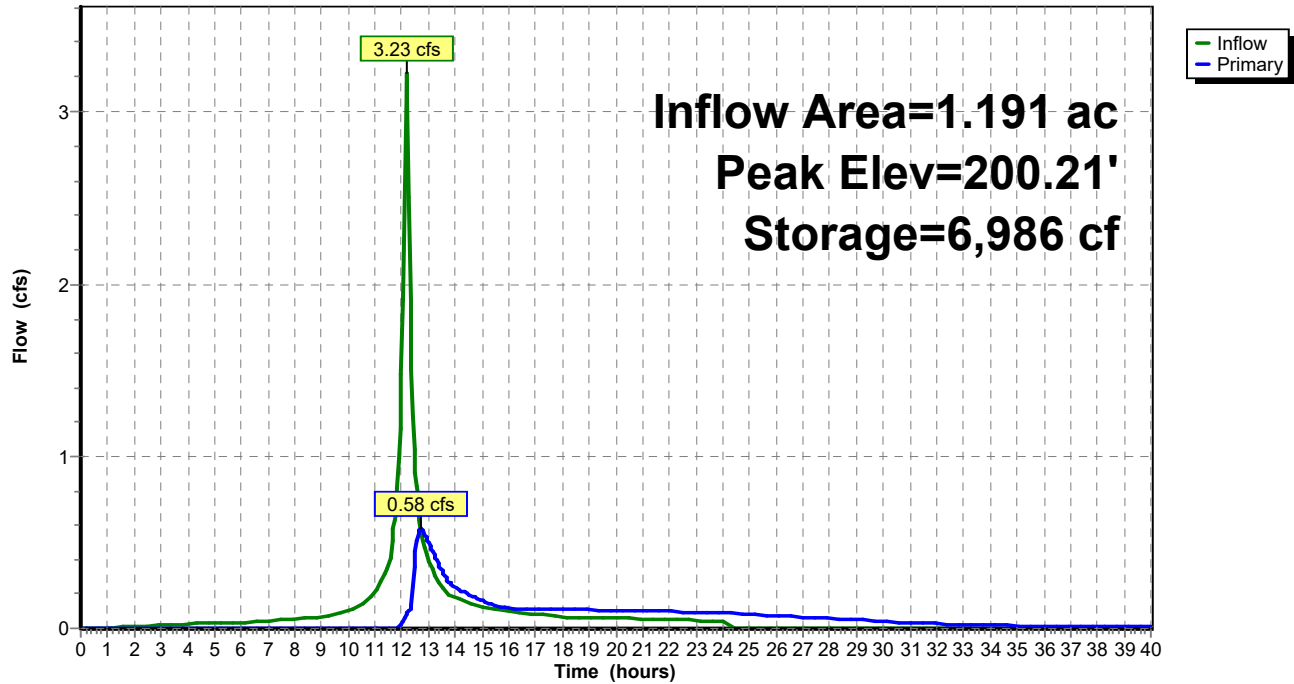
Volume	Invert	Avail.Storage	Storage Description
#1	199.00'	35,769 cf	Custom Stage Data (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
199.00	5,389	0	0
200.00	6,060	5,725	5,725
201.00	6,761	6,411	12,135
202.00	7,490	7,126	19,261
203.00	8,247	7,869	27,129
204.00	9,032	8,640	35,769

Device	Routing	Invert	Outlet Devices
#1	Primary	197.65'	18.0" Round Culvert L= 627.0' Ke= 0.500 Inlet / Outlet Invert= 197.65' / 194.00' S= 0.0058 '/' Cc= 0.900 n= 0.013, Flow Area= 1.77 sf
#2	Device 1	199.50'	2.5" Vert. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#3	Device 1	200.10'	4.0' long Sharp-Crested Rectangular Weir 2 End Contraction(s)
#4	Primary	200.89'	50.0' long + 3.0 '/' SideZ x 5.0' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 Coef. (English) 2.34 2.50 2.70 2.68 2.68 2.66 2.65 2.65 2.65 2.65 2.67 2.66 2.68 2.70 2.74 2.79 2.88

Primary OutFlow Max=0.57 cfs @ 12.69 hrs HW=200.21' (Free Discharge)

1=Culvert (Passes 0.57 cfs of 8.54 cfs potential flow)
 2=Orifice/Grate (Orifice Controls 0.13 cfs @ 3.73 fps)
 3=Sharp-Crested Rectangular Weir (Weir Controls 0.45 cfs @ 1.06 fps)
 4=Broad-Crested Rectangular Weir (Controls 0.00 cfs)

Pond B-6: Basin #6**Hydrograph**

Stage-Discharge for Pond B-6: Basin #6

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
199.00	0.00	199.52	0.00	200.04	0.11	200.56	4.15
199.01	0.00	199.53	0.00	200.05	0.11	200.57	4.28
199.02	0.00	199.54	0.00	200.06	0.11	200.58	4.41
199.03	0.00	199.55	0.00	200.07	0.11	200.59	4.54
199.04	0.00	199.56	0.01	200.08	0.11	200.60	4.67
199.05	0.00	199.57	0.01	200.09	0.11	200.61	4.81
199.06	0.00	199.58	0.01	200.10	0.12	200.62	4.94
199.07	0.00	199.59	0.01	200.11	0.13	200.63	5.08
199.08	0.00	199.60	0.02	200.12	0.15	200.64	5.22
199.09	0.00	199.61	0.02	200.13	0.19	200.65	5.36
199.10	0.00	199.62	0.02	200.14	0.22	200.66	5.50
199.11	0.00	199.63	0.03	200.15	0.27	200.67	5.64
199.12	0.00	199.64	0.03	200.16	0.31	200.68	5.78
199.13	0.00	199.65	0.03	200.17	0.36	200.69	5.92
199.14	0.00	199.66	0.04	200.18	0.42	200.70	6.07
199.15	0.00	199.67	0.04	200.19	0.48	200.71	6.21
199.16	0.00	199.68	0.05	200.20	0.54	200.72	6.36
199.17	0.00	199.69	0.05	200.21	0.60	200.73	6.51
199.18	0.00	199.70	0.05	200.22	0.67	200.74	6.66
199.19	0.00	199.71	0.05	200.23	0.74	200.75	6.81
199.20	0.00	199.72	0.06	200.24	0.81	200.76	6.96
199.21	0.00	199.73	0.06	200.25	0.89	200.77	7.11
199.22	0.00	199.74	0.06	200.26	0.96	200.78	7.26
199.23	0.00	199.75	0.06	200.27	1.04	200.79	7.42
199.24	0.00	199.76	0.06	200.28	1.12	200.80	7.57
199.25	0.00	199.77	0.07	200.29	1.21	200.81	7.73
199.26	0.00	199.78	0.07	200.30	1.30	200.82	7.88
199.27	0.00	199.79	0.07	200.31	1.38	200.83	8.04
199.28	0.00	199.80	0.07	200.32	1.47	200.84	8.20
199.29	0.00	199.81	0.07	200.33	1.57	200.85	8.36
199.30	0.00	199.82	0.08	200.34	1.66	200.86	8.52
199.31	0.00	199.83	0.08	200.35	1.76	200.87	8.68
199.32	0.00	199.84	0.08	200.36	1.85	200.88	8.84
199.33	0.00	199.85	0.08	200.37	1.95	200.89	9.01
199.34	0.00	199.86	0.08	200.38	2.06	200.90	9.27
199.35	0.00	199.87	0.08	200.39	2.16	200.91	9.49
199.36	0.00	199.88	0.09	200.40	2.26	200.92	9.78
199.37	0.00	199.89	0.09	200.41	2.37	200.93	10.11
199.38	0.00	199.90	0.09	200.42	2.48	200.94	10.50
199.39	0.00	199.91	0.09	200.43	2.59	200.95	10.92
199.40	0.00	199.92	0.09	200.44	2.70	200.96	11.38
199.41	0.00	199.93	0.09	200.45	2.81	200.97	11.87
199.42	0.00	199.94	0.10	200.46	2.93	200.98	12.39
199.43	0.00	199.95	0.10	200.47	3.04	200.99	12.95
199.44	0.00	199.96	0.10	200.48	3.16	201.00	13.53
199.45	0.00	199.97	0.10	200.49	3.28	201.01	14.14
199.46	0.00	199.98	0.10	200.50	3.40	201.02	14.77
199.47	0.00	199.99	0.10	200.51	3.52	201.03	15.43
199.48	0.00	200.00	0.10	200.52	3.64	201.04	16.12
199.49	0.00	200.01	0.10	200.53	3.77	201.05	16.82
199.50	0.00	200.02	0.11	200.54	3.89	201.06	17.55
199.51	0.00	200.03	0.11	200.55	4.02	201.07	18.31

Stage-Discharge for Pond B-6: Basin #6 (continued)

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
201.08	19.08	201.60	92.90	202.12	202.17	202.64	343.03
201.09	19.88	201.61	94.68	202.13	204.57	202.65	346.04
201.10	20.73	201.62	96.47	202.14	206.99	202.66	349.06
201.11	21.61	201.63	98.28	202.15	209.42	202.67	352.09
201.12	22.52	201.64	100.10	202.16	211.85	202.68	355.14
201.13	23.45	201.65	101.92	202.17	214.30	202.69	358.19
201.14	24.41	201.66	103.77	202.18	216.76	202.70	361.25
201.15	25.39	201.67	105.62	202.19	219.23	202.71	364.32
201.16	26.39	201.68	107.49	202.20	221.71	202.72	367.41
201.17	27.43	201.69	109.36	202.21	224.20	202.73	370.50
201.18	28.48	201.70	111.29	202.22	226.70	202.74	373.61
201.19	29.56	201.71	113.23	202.23	229.21	202.75	376.73
201.20	30.67	201.72	115.19	202.24	231.73	202.76	379.85
201.21	31.80	201.73	117.15	202.25	234.27	202.77	382.99
201.22	32.95	201.74	119.13	202.26	236.81	202.78	386.14
201.23	34.13	201.75	121.13	202.27	239.36	202.79	389.29
201.24	35.33	201.76	123.13	202.28	241.92	202.80	392.46
201.25	36.56	201.77	125.15	202.29	244.50	202.81	395.64
201.26	37.81	201.78	127.19	202.30	247.13	202.82	398.83
201.27	39.08	201.79	129.23	202.31	249.77	202.83	402.03
201.28	40.38	201.80	131.29	202.32	252.42	202.84	405.24
201.29	41.71	201.81	133.36	202.33	255.08	202.85	408.46
201.30	43.08	201.82	135.44	202.34	257.75	202.86	411.69
201.31	44.48	201.83	137.54	202.35	260.43	202.87	414.94
201.32	45.91	201.84	139.65	202.36	263.13	202.88	418.19
201.33	47.36	201.85	141.77	202.37	265.84	202.89	421.45
201.34	48.84	201.86	143.91	202.38	268.55	202.90	424.79
201.35	50.34	201.87	146.06	202.39	271.28	202.91	428.13
201.36	51.87	201.88	148.21	202.40	274.02	202.92	431.49
201.37	53.43	201.89	150.39	202.41	276.77	202.93	434.86
201.38	55.01	201.90	152.52	202.42	279.53	202.94	438.24
201.39	56.62	201.91	154.66	202.43	282.30	202.95	441.63
201.40	58.26	201.92	156.81	202.44	285.09	202.96	445.04
201.41	59.92	201.93	158.98	202.45	287.88	202.97	448.45
201.42	61.61	201.94	161.15	202.46	290.69	202.98	451.88
201.43	63.33	201.95	163.34	202.47	293.50	202.99	455.32
201.44	65.07	201.96	165.53	202.48	296.33	203.00	458.76
201.45	66.84	201.97	167.74	202.49	299.17	203.01	462.22
201.46	68.64	201.98	169.96	202.50	302.02	203.02	465.70
201.47	70.46	201.99	172.18	202.51	304.88	203.03	469.18
201.48	72.31	202.00	174.42	202.52	307.75	203.04	472.67
201.49	74.19	202.01	176.67	202.53	310.63	203.05	476.18
201.50	75.82	202.02	178.93	202.54	313.52	203.06	479.70
201.51	77.47	202.03	181.19	202.55	316.42	203.07	483.22
201.52	79.13	202.04	183.47	202.56	319.34	203.08	486.76
201.53	80.81	202.05	185.76	202.57	322.26	203.09	490.31
201.54	82.50	202.06	188.06	202.58	325.20	203.10	493.88
201.55	84.20	202.07	190.37	202.59	328.14	203.11	497.45
201.56	85.91	202.08	192.68	202.60	331.10	203.12	501.04
201.57	87.64	202.09	195.01	202.61	334.07	203.13	504.63
201.58	89.38	202.10	197.39	202.62	337.04	203.14	508.24
201.59	91.14	202.11	199.77	202.63	340.03	203.15	511.86

Stage-Discharge for Pond B-6: Basin #6 (continued)

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
203.16	515.49	203.68	715.19
203.17	519.13	203.69	719.23
203.18	522.78	203.70	723.28
203.19	526.45	203.71	727.34
203.20	530.12	203.72	731.41
203.21	533.81	203.73	735.49
203.22	537.50	203.74	739.58
203.23	541.21	203.75	743.67
203.24	544.93	203.76	747.78
203.25	548.67	203.77	751.90
203.26	552.41	203.78	756.02
203.27	556.16	203.79	760.15
203.28	559.93	203.80	764.30
203.29	563.70	203.81	768.45
203.30	567.49	203.82	772.61
203.31	571.29	203.83	776.79
203.32	575.10	203.84	780.97
203.33	578.92	203.85	785.16
203.34	582.76	203.86	789.36
203.35	586.60	203.87	793.57
203.36	590.46	203.88	797.78
203.37	594.32	203.89	802.01
203.38	598.20	203.90	806.43
203.39	602.09	203.91	810.86
203.40	605.86	203.92	815.29
203.41	609.64	203.93	819.74
203.42	613.42	203.94	824.20
203.43	617.22	203.95	828.68
203.44	621.02	203.96	833.16
203.45	624.84	203.97	837.65
203.46	628.66	203.98	842.16
203.47	632.49	203.99	846.68
203.48	636.34	204.00	851.20
203.49	640.19		
203.50	644.05		
203.51	647.92		
203.52	651.81		
203.53	655.70		
203.54	659.60		
203.55	663.51		
203.56	667.42		
203.57	671.35		
203.58	675.29		
203.59	679.24		
203.60	683.20		
203.61	687.16		
203.62	691.14		
203.63	695.12		
203.64	699.12		
203.65	703.12		
203.66	707.13		
203.67	711.16		

Stage-Area-Storage for Pond B-6: Basin #6

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
199.00	5,389	0	199.52	5,738	2,893
199.01	5,396	54	199.53	5,745	2,950
199.02	5,402	108	199.54	5,751	3,008
199.03	5,409	162	199.55	5,758	3,065
199.04	5,416	216	199.56	5,765	3,123
199.05	5,423	270	199.57	5,771	3,181
199.06	5,429	325	199.58	5,778	3,238
199.07	5,436	379	199.59	5,785	3,296
199.08	5,443	433	199.60	5,792	3,354
199.09	5,449	488	199.61	5,798	3,412
199.10	5,456	542	199.62	5,805	3,470
199.11	5,463	597	199.63	5,812	3,528
199.12	5,470	652	199.64	5,818	3,586
199.13	5,476	706	199.65	5,825	3,645
199.14	5,483	761	199.66	5,832	3,703
199.15	5,490	816	199.67	5,839	3,761
199.16	5,496	871	199.68	5,845	3,820
199.17	5,503	926	199.69	5,852	3,878
199.18	5,510	981	199.70	5,859	3,937
199.19	5,516	1,036	199.71	5,865	3,995
199.20	5,523	1,091	199.72	5,872	4,054
199.21	5,530	1,146	199.73	5,879	4,113
199.22	5,537	1,202	199.74	5,886	4,172
199.23	5,543	1,257	199.75	5,892	4,230
199.24	5,550	1,313	199.76	5,899	4,289
199.25	5,557	1,368	199.77	5,906	4,348
199.26	5,563	1,424	199.78	5,912	4,408
199.27	5,570	1,479	199.79	5,919	4,467
199.28	5,577	1,535	199.80	5,926	4,526
199.29	5,584	1,591	199.81	5,933	4,585
199.30	5,590	1,647	199.82	5,939	4,645
199.31	5,597	1,703	199.83	5,946	4,704
199.32	5,604	1,759	199.84	5,953	4,763
199.33	5,610	1,815	199.85	5,959	4,823
199.34	5,617	1,871	199.86	5,966	4,883
199.35	5,624	1,927	199.87	5,973	4,942
199.36	5,631	1,984	199.88	5,979	5,002
199.37	5,637	2,040	199.89	5,986	5,062
199.38	5,644	2,096	199.90	5,993	5,122
199.39	5,651	2,153	199.91	6,000	5,182
199.40	5,657	2,209	199.92	6,006	5,242
199.41	5,664	2,266	199.93	6,013	5,302
199.42	5,671	2,323	199.94	6,020	5,362
199.43	5,678	2,379	199.95	6,026	5,422
199.44	5,684	2,436	199.96	6,033	5,483
199.45	5,691	2,493	199.97	6,040	5,543
199.46	5,698	2,550	199.98	6,047	5,603
199.47	5,704	2,607	199.99	6,053	5,664
199.48	5,711	2,664	200.00	6,060	5,725
199.49	5,718	2,721	200.01	6,067	5,785
199.50	5,725	2,778	200.02	6,074	5,846
199.51	5,731	2,836	200.03	6,081	5,907

Stage-Area-Storage for Pond B-6: Basin #6 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
200.04	6,088	5,967	200.56	6,453	9,228
200.05	6,095	6,028	200.57	6,460	9,293
200.06	6,102	6,089	200.58	6,467	9,357
200.07	6,109	6,150	200.59	6,474	9,422
200.08	6,116	6,212	200.60	6,481	9,487
200.09	6,123	6,273	200.61	6,488	9,552
200.10	6,130	6,334	200.62	6,495	9,616
200.11	6,137	6,395	200.63	6,502	9,681
200.12	6,144	6,457	200.64	6,509	9,746
200.13	6,151	6,518	200.65	6,516	9,812
200.14	6,158	6,580	200.66	6,523	9,877
200.15	6,165	6,641	200.67	6,530	9,942
200.16	6,172	6,703	200.68	6,537	10,007
200.17	6,179	6,765	200.69	6,544	10,073
200.18	6,186	6,827	200.70	6,551	10,138
200.19	6,193	6,889	200.71	6,558	10,204
200.20	6,200	6,951	200.72	6,565	10,269
200.21	6,207	7,013	200.73	6,572	10,335
200.22	6,214	7,075	200.74	6,579	10,401
200.23	6,221	7,137	200.75	6,586	10,467
200.24	6,228	7,199	200.76	6,593	10,533
200.25	6,235	7,261	200.77	6,600	10,599
200.26	6,242	7,324	200.78	6,607	10,665
200.27	6,249	7,386	200.79	6,614	10,731
200.28	6,256	7,449	200.80	6,621	10,797
200.29	6,263	7,511	200.81	6,628	10,863
200.30	6,270	7,574	200.82	6,635	10,929
200.31	6,277	7,637	200.83	6,642	10,996
200.32	6,284	7,700	200.84	6,649	11,062
200.33	6,291	7,762	200.85	6,656	11,129
200.34	6,298	7,825	200.86	6,663	11,195
200.35	6,305	7,888	200.87	6,670	11,262
200.36	6,312	7,952	200.88	6,677	11,329
200.37	6,319	8,015	200.89	6,684	11,396
200.38	6,326	8,078	200.90	6,691	11,462
200.39	6,333	8,141	200.91	6,698	11,529
200.40	6,340	8,205	200.92	6,705	11,596
200.41	6,347	8,268	200.93	6,712	11,663
200.42	6,354	8,332	200.94	6,719	11,731
200.43	6,361	8,395	200.95	6,726	11,798
200.44	6,368	8,459	200.96	6,733	11,865
200.45	6,375	8,522	200.97	6,740	11,932
200.46	6,382	8,586	200.98	6,747	12,000
200.47	6,389	8,650	200.99	6,754	12,067
200.48	6,396	8,714	201.00	6,761	12,135
200.49	6,403	8,778	201.01	6,768	12,203
200.50	6,411	8,842	201.02	6,776	12,270
200.51	6,418	8,906	201.03	6,783	12,338
200.52	6,425	8,970	201.04	6,790	12,406
200.53	6,432	9,035	201.05	6,797	12,474
200.54	6,439	9,099	201.06	6,805	12,542
200.55	6,446	9,164	201.07	6,812	12,610

Stage-Area-Storage for Pond B-6: Basin #6 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
201.08	6,819	12,678	201.60	7,198	16,323
201.09	6,827	12,746	201.61	7,206	16,395
201.10	6,834	12,815	201.62	7,213	16,467
201.11	6,841	12,883	201.63	7,220	16,539
201.12	6,848	12,952	201.64	7,228	16,611
201.13	6,856	13,020	201.65	7,235	16,684
201.14	6,863	13,089	201.66	7,242	16,756
201.15	6,870	13,157	201.67	7,249	16,828
201.16	6,878	13,226	201.68	7,257	16,901
201.17	6,885	13,295	201.69	7,264	16,974
201.18	6,892	13,364	201.70	7,271	17,046
201.19	6,900	13,433	201.71	7,279	17,119
201.20	6,907	13,502	201.72	7,286	17,192
201.21	6,914	13,571	201.73	7,293	17,265
201.22	6,921	13,640	201.74	7,300	17,338
201.23	6,929	13,709	201.75	7,308	17,411
201.24	6,936	13,779	201.76	7,315	17,484
201.25	6,943	13,848	201.77	7,322	17,557
201.26	6,951	13,918	201.78	7,330	17,630
201.27	6,958	13,987	201.79	7,337	17,704
201.28	6,965	14,057	201.80	7,344	17,777
201.29	6,972	14,126	201.81	7,351	17,851
201.30	6,980	14,196	201.82	7,359	17,924
201.31	6,987	14,266	201.83	7,366	17,998
201.32	6,994	14,336	201.84	7,373	18,071
201.33	7,002	14,406	201.85	7,381	18,145
201.34	7,009	14,476	201.86	7,388	18,219
201.35	7,016	14,546	201.87	7,395	18,293
201.36	7,023	14,616	201.88	7,403	18,367
201.37	7,031	14,686	201.89	7,410	18,441
201.38	7,038	14,757	201.90	7,417	18,515
201.39	7,045	14,827	201.91	7,424	18,589
201.40	7,053	14,898	201.92	7,432	18,664
201.41	7,060	14,968	201.93	7,439	18,738
201.42	7,067	15,039	201.94	7,446	18,812
201.43	7,074	15,110	201.95	7,454	18,887
201.44	7,082	15,180	201.96	7,461	18,961
201.45	7,089	15,251	201.97	7,468	19,036
201.46	7,096	15,322	201.98	7,475	19,111
201.47	7,104	15,393	201.99	7,483	19,186
201.48	7,111	15,464	202.00	7,490	19,261
201.49	7,118	15,535	202.01	7,498	19,335
201.50	7,126	15,607	202.02	7,505	19,410
201.51	7,133	15,678	202.03	7,513	19,486
201.52	7,140	15,749	202.04	7,520	19,561
201.53	7,147	15,821	202.05	7,528	19,636
201.54	7,155	15,892	202.06	7,535	19,711
201.55	7,162	15,964	202.07	7,543	19,787
201.56	7,169	16,035	202.08	7,551	19,862
201.57	7,177	16,107	202.09	7,558	19,938
201.58	7,184	16,179	202.10	7,566	20,013
201.59	7,191	16,251	202.11	7,573	20,089

Stage-Area-Storage for Pond B-6: Basin #6 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
202.12	7,581	20,165	202.64	7,974	24,209
202.13	7,588	20,241	202.65	7,982	24,289
202.14	7,596	20,317	202.66	7,990	24,369
202.15	7,604	20,393	202.67	7,997	24,449
202.16	7,611	20,469	202.68	8,005	24,529
202.17	7,619	20,545	202.69	8,012	24,609
202.18	7,626	20,621	202.70	8,020	24,689
202.19	7,634	20,697	202.71	8,027	24,769
202.20	7,641	20,774	202.72	8,035	24,850
202.21	7,649	20,850	202.73	8,043	24,930
202.22	7,657	20,927	202.74	8,050	25,010
202.23	7,664	21,003	202.75	8,058	25,091
202.24	7,672	21,080	202.76	8,065	25,172
202.25	7,679	21,157	202.77	8,073	25,252
202.26	7,687	21,233	202.78	8,080	25,333
202.27	7,694	21,310	202.79	8,088	25,414
202.28	7,702	21,387	202.80	8,096	25,495
202.29	7,710	21,464	202.81	8,103	25,576
202.30	7,717	21,542	202.82	8,111	25,657
202.31	7,725	21,619	202.83	8,118	25,738
202.32	7,732	21,696	202.84	8,126	25,819
202.33	7,740	21,773	202.85	8,133	25,900
202.34	7,747	21,851	202.86	8,141	25,982
202.35	7,755	21,928	202.87	8,149	26,063
202.36	7,763	22,006	202.88	8,156	26,145
202.37	7,770	22,084	202.89	8,164	26,226
202.38	7,778	22,161	202.90	8,171	26,308
202.39	7,785	22,239	202.91	8,179	26,390
202.40	7,793	22,317	202.92	8,186	26,472
202.41	7,800	22,395	202.93	8,194	26,554
202.42	7,808	22,473	202.94	8,202	26,636
202.43	7,816	22,551	202.95	8,209	26,718
202.44	7,823	22,629	202.96	8,217	26,800
202.45	7,831	22,708	202.97	8,224	26,882
202.46	7,838	22,786	202.98	8,232	26,964
202.47	7,846	22,864	202.99	8,239	27,047
202.48	7,853	22,943	203.00	8,247	27,129
202.49	7,861	23,021	203.01	8,255	27,212
202.50	7,869	23,100	203.02	8,263	27,294
202.51	7,876	23,179	203.03	8,271	27,377
202.52	7,884	23,258	203.04	8,278	27,460
202.53	7,891	23,337	203.05	8,286	27,542
202.54	7,899	23,415	203.06	8,294	27,625
202.55	7,906	23,494	203.07	8,302	27,708
202.56	7,914	23,574	203.08	8,310	27,791
202.57	7,921	23,653	203.09	8,318	27,874
202.58	7,929	23,732	203.10	8,325	27,958
202.59	7,937	23,811	203.11	8,333	28,041
202.60	7,944	23,891	203.12	8,341	28,124
202.61	7,952	23,970	203.13	8,349	28,208
202.62	7,959	24,050	203.14	8,357	28,291
202.63	7,967	24,129	203.15	8,365	28,375

Stage-Area-Storage for Pond B-6: Basin #6 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
203.16	8,373	28,459	203.68	8,781	32,918
203.17	8,380	28,542	203.69	8,789	33,006
203.18	8,388	28,626	203.70	8,796	33,094
203.19	8,396	28,710	203.71	8,804	33,182
203.20	8,404	28,794	203.72	8,812	33,270
203.21	8,412	28,878	203.73	8,820	33,358
203.22	8,420	28,962	203.74	8,828	33,447
203.23	8,428	29,047	203.75	8,836	33,535
203.24	8,435	29,131	203.76	8,844	33,623
203.25	8,443	29,215	203.77	8,851	33,712
203.26	8,451	29,300	203.78	8,859	33,800
203.27	8,459	29,384	203.79	8,867	33,889
203.28	8,467	29,469	203.80	8,875	33,978
203.29	8,475	29,554	203.81	8,883	34,067
203.30	8,483	29,638	203.82	8,891	34,155
203.31	8,490	29,723	203.83	8,899	34,244
203.32	8,498	29,808	203.84	8,906	34,333
203.33	8,506	29,893	203.85	8,914	34,423
203.34	8,514	29,978	203.86	8,922	34,512
203.35	8,522	30,064	203.87	8,930	34,601
203.36	8,530	30,149	203.88	8,938	34,690
203.37	8,537	30,234	203.89	8,946	34,780
203.38	8,545	30,320	203.90	8,954	34,869
203.39	8,553	30,405	203.91	8,961	34,959
203.40	8,561	30,491	203.92	8,969	35,048
203.41	8,569	30,576	203.93	8,977	35,138
203.42	8,577	30,662	203.94	8,985	35,228
203.43	8,585	30,748	203.95	8,993	35,318
203.44	8,592	30,834	203.96	9,001	35,408
203.45	8,600	30,920	203.97	9,008	35,498
203.46	8,608	31,006	203.98	9,016	35,588
203.47	8,616	31,092	203.99	9,024	35,678
203.48	8,624	31,178	204.00	9,032	35,769
203.49	8,632	31,264			
203.50	8,640	31,351			
203.51	8,647	31,437			
203.52	8,655	31,524			
203.53	8,663	31,610			
203.54	8,671	31,697			
203.55	8,679	31,784			
203.56	8,687	31,870			
203.57	8,694	31,957			
203.58	8,702	32,044			
203.59	8,710	32,131			
203.60	8,718	32,218			
203.61	8,726	32,306			
203.62	8,734	32,393			
203.63	8,742	32,480			
203.64	8,749	32,568			
203.65	8,757	32,655			
203.66	8,765	32,743			
203.67	8,773	32,831			

Summary for Pond B-7: Basin #7

Inflow Area = 1.564 ac, 62.85% Impervious, Inflow Depth = 2.82" for Future 2 yr event
 Inflow = 4.37 cfs @ 12.17 hrs, Volume= 0.368 af
 Outflow = 0.79 cfs @ 12.69 hrs, Volume= 0.289 af, Atten= 82%, Lag= 30.9 min
 Primary = 0.79 cfs @ 12.69 hrs, Volume= 0.289 af
 Routed to Link PDA-1 : Proposed Drainage Area #1

Routing by Stor-Ind method, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 Peak Elev= 208.12' @ 12.69 hrs Surf.Area= 7,522 sf Storage= 9,523 cf

Plug-Flow detention time= 526.4 min calculated for 0.288 af (78% of inflow)
 Center-of-Mass det. time= 442.2 min (1,219.4 - 777.1)

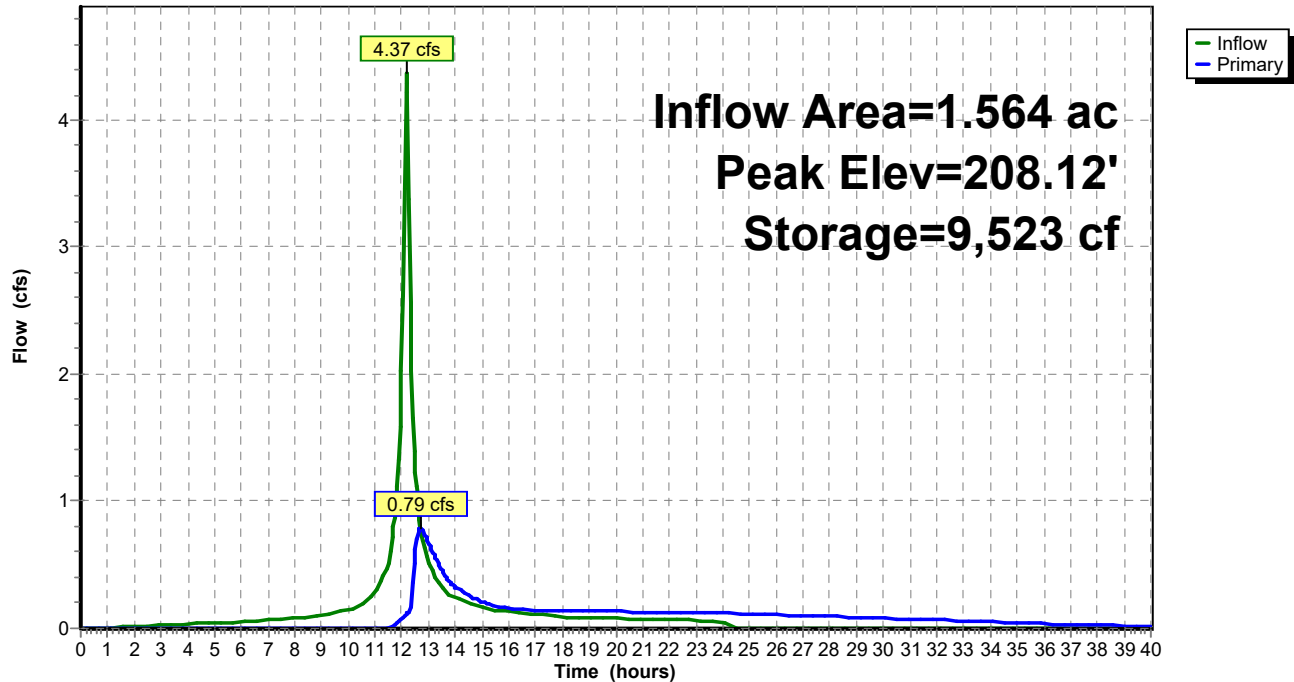
Volume	Invert	Avail.Storage	Storage Description
#1	206.47'	35,530 cf	Custom Stage Data (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
206.47	0	0	0
207.00	6,419	1,701	1,701
208.00	7,395	6,907	8,608
209.00	8,429	7,912	16,520
210.00	9,484	8,957	25,477
211.00	10,623	10,054	35,530

Device	Routing	Invert	Outlet Devices
#1	Primary	206.47'	18.0" Round Culvert L= 94.0' Ke= 0.500 Inlet / Outlet Invert= 206.47' / 206.00' S= 0.0050 ' / Cc= 0.900 n= 0.013, Flow Area= 1.77 sf
#2	Device 1	207.17'	2.5" Vert. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#3	Device 1	207.99'	4.0' long Sharp-Crested Rectangular Weir 2 End Contraction(s)
#4	Primary	208.86'	50.0' long + 3.0 ' SideZ x 5.0' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 Coef. (English) 2.34 2.50 2.70 2.68 2.68 2.66 2.65 2.65 2.65 2.65 2.67 2.66 2.68 2.70 2.74 2.79 2.88

Primary OutFlow Max=0.78 cfs @ 12.69 hrs HW=208.12' (Free Discharge)

1=Culvert (Passes 0.78 cfs of 7.01 cfs potential flow)
 2=Orifice/Grate (Orifice Controls 0.15 cfs @ 4.43 fps)
 3=Sharp-Crested Rectangular Weir (Weir Controls 0.63 cfs @ 1.19 fps)
 4=Broad-Crested Rectangular Weir (Controls 0.00 cfs)

Pond B-7: Basin #7**Hydrograph**

Stage-Discharge for Pond B-7: Basin #7

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
206.47	0.00	206.99	0.00	207.51	0.08	208.03	0.25
206.48	0.00	207.00	0.00	207.52	0.08	208.04	0.29
206.49	0.00	207.01	0.00	207.53	0.08	208.05	0.34
206.50	0.00	207.02	0.00	207.54	0.08	208.06	0.39
206.51	0.00	207.03	0.00	207.55	0.09	208.07	0.44
206.52	0.00	207.04	0.00	207.56	0.09	208.08	0.50
206.53	0.00	207.05	0.00	207.57	0.09	208.09	0.56
206.54	0.00	207.06	0.00	207.58	0.09	208.10	0.62
206.55	0.00	207.07	0.00	207.59	0.09	208.11	0.69
206.56	0.00	207.08	0.00	207.60	0.09	208.12	0.76
206.57	0.00	207.09	0.00	207.61	0.10	208.13	0.83
206.58	0.00	207.10	0.00	207.62	0.10	208.14	0.91
206.59	0.00	207.11	0.00	207.63	0.10	208.15	0.98
206.60	0.00	207.12	0.00	207.64	0.10	208.16	1.06
206.61	0.00	207.13	0.00	207.65	0.10	208.17	1.15
206.62	0.00	207.14	0.00	207.66	0.10	208.18	1.23
206.63	0.00	207.15	0.00	207.67	0.10	208.19	1.32
206.64	0.00	207.16	0.00	207.68	0.10	208.20	1.40
206.65	0.00	207.17	0.00	207.69	0.11	208.21	1.49
206.66	0.00	207.18	0.00	207.70	0.11	208.22	1.59
206.67	0.00	207.19	0.00	207.71	0.11	208.23	1.68
206.68	0.00	207.20	0.00	207.72	0.11	208.24	1.78
206.69	0.00	207.21	0.00	207.73	0.11	208.25	1.87
206.70	0.00	207.22	0.00	207.74	0.11	208.26	1.97
206.71	0.00	207.23	0.01	207.75	0.11	208.27	2.07
206.72	0.00	207.24	0.01	207.76	0.11	208.28	2.18
206.73	0.00	207.25	0.01	207.77	0.12	208.29	2.28
206.74	0.00	207.26	0.01	207.78	0.12	208.30	2.39
206.75	0.00	207.27	0.02	207.79	0.12	208.31	2.50
206.76	0.00	207.28	0.02	207.80	0.12	208.32	2.61
206.77	0.00	207.29	0.02	207.81	0.12	208.33	2.72
206.78	0.00	207.30	0.03	207.82	0.12	208.34	2.83
206.79	0.00	207.31	0.03	207.83	0.12	208.35	2.94
206.80	0.00	207.32	0.03	207.84	0.12	208.36	3.06
206.81	0.00	207.33	0.04	207.85	0.12	208.37	3.18
206.82	0.00	207.34	0.04	207.86	0.13	208.38	3.30
206.83	0.00	207.35	0.05	207.87	0.13	208.39	3.42
206.84	0.00	207.36	0.05	207.88	0.13	208.40	3.54
206.85	0.00	207.37	0.05	207.89	0.13	208.41	3.66
206.86	0.00	207.38	0.05	207.90	0.13	208.42	3.78
206.87	0.00	207.39	0.06	207.91	0.13	208.43	3.91
206.88	0.00	207.40	0.06	207.92	0.13	208.44	4.04
206.89	0.00	207.41	0.06	207.93	0.13	208.45	4.16
206.90	0.00	207.42	0.06	207.94	0.13	208.46	4.29
206.91	0.00	207.43	0.06	207.95	0.13	208.47	4.42
206.92	0.00	207.44	0.07	207.96	0.14	208.48	4.56
206.93	0.00	207.45	0.07	207.97	0.14	208.49	4.69
206.94	0.00	207.46	0.07	207.98	0.14	208.50	4.82
206.95	0.00	207.47	0.07	207.99	0.14	208.51	4.96
206.96	0.00	207.48	0.07	208.00	0.15	208.52	5.10
206.97	0.00	207.49	0.08	208.01	0.18	208.53	5.23
206.98	0.00	207.50	0.08	208.02	0.21	208.54	5.37

Stage-Discharge for Pond B-7: Basin #7 (continued)

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
208.55	5.51	209.07	21.32	209.59	98.16	210.11	209.61
208.56	5.65	209.08	22.22	209.60	99.98	210.12	212.05
208.57	5.80	209.09	23.15	209.61	101.82	210.13	214.51
208.58	5.94	209.10	24.10	209.62	103.67	210.14	216.97
208.59	6.08	209.11	25.08	209.63	105.53	210.15	219.45
208.60	6.23	209.12	26.09	209.64	107.40	210.16	221.94
208.61	6.38	209.13	27.12	209.65	109.28	210.17	224.43
208.62	6.52	209.14	28.17	209.66	111.18	210.18	226.94
208.63	6.67	209.15	29.25	209.67	113.13	210.19	229.46
208.64	6.82	209.16	30.35	209.68	115.09	210.20	231.98
208.65	6.97	209.17	31.48	209.69	117.06	210.21	234.52
208.66	7.13	209.18	32.63	209.70	119.05	210.22	237.07
208.67	7.28	209.19	33.81	209.71	121.05	210.23	239.63
208.68	7.43	209.20	35.01	209.72	123.06	210.24	242.20
208.69	7.59	209.21	36.23	209.73	125.08	210.25	244.78
208.70	7.74	209.22	37.48	209.74	127.12	210.26	247.37
208.71	7.90	209.23	38.75	209.75	129.17	210.27	250.01
208.72	8.06	209.24	40.05	209.76	131.24	210.28	252.67
208.73	8.22	209.25	41.37	209.77	133.31	210.29	255.33
208.74	8.38	209.26	42.72	209.78	135.40	210.30	258.01
208.75	8.54	209.27	44.11	209.79	137.50	210.31	260.70
208.76	8.70	209.28	45.53	209.80	139.62	210.32	263.40
208.77	8.86	209.29	46.98	209.81	141.75	210.33	266.11
208.78	8.94	209.30	48.45	209.82	143.89	210.34	268.83
208.79	8.98	209.31	49.95	209.83	146.04	210.35	271.57
208.80	9.01	209.32	51.48	209.84	148.21	210.36	274.31
208.81	9.05	209.33	53.03	209.85	150.38	210.37	277.07
208.82	9.08	209.34	54.61	209.86	152.57	210.38	279.83
208.83	9.12	209.35	56.21	209.87	154.72	210.39	282.61
208.84	9.15	209.36	57.84	209.88	156.88	210.40	285.40
208.85	9.18	209.37	59.50	209.89	159.06	210.41	288.20
208.86	9.22	209.38	61.19	209.90	161.24	210.42	291.01
208.87	9.37	209.39	62.90	209.91	163.43	210.43	293.83
208.88	9.62	209.40	64.63	209.92	165.63	210.44	296.66
208.89	9.93	209.41	66.40	209.93	167.84	210.45	299.50
208.90	10.29	209.42	68.19	209.94	170.07	210.46	302.35
208.91	10.70	209.43	70.00	209.95	172.30	210.47	305.22
208.92	11.14	209.44	71.85	209.96	174.55	210.48	308.09
208.93	11.63	209.45	73.72	209.97	176.80	210.49	310.98
208.94	12.14	209.46	75.61	209.98	179.07	210.50	313.88
208.95	12.69	209.47	77.27	209.99	181.34	210.51	316.78
208.96	13.27	209.48	78.94	210.00	183.63	210.52	319.70
208.97	13.87	209.49	80.62	210.01	185.92	210.53	322.63
208.98	14.51	209.50	82.32	210.02	188.23	210.54	325.57
208.99	15.17	209.51	84.02	210.03	190.54	210.55	328.52
209.00	15.85	209.52	85.75	210.04	192.87	210.56	331.48
209.01	16.56	209.53	87.48	210.05	195.20	210.57	334.45
209.02	17.29	209.54	89.23	210.06	197.55	210.58	337.44
209.03	18.04	209.55	90.99	210.07	199.94	210.59	340.43
209.04	18.82	209.56	92.76	210.08	202.34	210.60	343.43
209.05	19.62	209.57	94.55	210.09	204.75	210.61	346.45
209.06	20.44	209.58	96.35	210.10	207.18	210.62	349.47

Stage-Discharge for Pond B-7: Basin #7 (continued)

Elevation (feet)	Primary (cfs)
210.63	352.51
210.64	355.55
210.65	358.61
210.66	361.68
210.67	364.76
210.68	367.84
210.69	370.94
210.70	374.05
210.71	377.17
210.72	380.30
210.73	383.45
210.74	386.60
210.75	389.76
210.76	392.93
210.77	396.12
210.78	399.31
210.79	402.51
210.80	405.73
210.81	408.95
210.82	412.19
210.83	415.43
210.84	418.69
210.85	421.96
210.86	425.23
210.87	428.58
210.88	431.94
210.89	435.32
210.90	438.70
210.91	442.09
210.92	445.50
210.93	448.92
210.94	452.35
210.95	455.79
210.96	459.24
210.97	462.70
210.98	466.18
210.99	469.66
211.00	473.16

Stage-Area-Storage for Pond B-7: Basin #7

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
206.47	0	0	206.99	6,298	1,637
206.48	121	1	207.00	6,419	1,701
206.49	242	2	207.01	6,429	1,765
206.50	363	5	207.02	6,439	1,830
206.51	484	10	207.03	6,448	1,894
206.52	606	15	207.04	6,458	1,959
206.53	727	22	207.05	6,468	2,023
206.54	848	30	207.06	6,478	2,088
206.55	969	39	207.07	6,487	2,153
206.56	1,090	49	207.08	6,497	2,218
206.57	1,211	61	207.09	6,507	2,283
206.58	1,332	73	207.10	6,517	2,348
206.59	1,453	87	207.11	6,526	2,413
206.60	1,574	102	207.12	6,536	2,478
206.61	1,696	119	207.13	6,546	2,544
206.62	1,817	136	207.14	6,556	2,609
206.63	1,938	155	207.15	6,565	2,675
206.64	2,059	175	207.16	6,575	2,741
206.65	2,180	196	207.17	6,585	2,806
206.66	2,301	219	207.18	6,595	2,872
206.67	2,422	242	207.19	6,604	2,938
206.68	2,543	267	207.20	6,614	3,004
206.69	2,664	293	207.21	6,624	3,071
206.70	2,786	320	207.22	6,634	3,137
206.71	2,907	349	207.23	6,643	3,203
206.72	3,028	378	207.24	6,653	3,270
206.73	3,149	409	207.25	6,663	3,336
206.74	3,270	441	207.26	6,673	3,403
206.75	3,391	475	207.27	6,683	3,470
206.76	3,512	509	207.28	6,692	3,537
206.77	3,633	545	207.29	6,702	3,604
206.78	3,755	582	207.30	6,712	3,671
206.79	3,876	620	207.31	6,722	3,738
206.80	3,997	659	207.32	6,731	3,805
206.81	4,118	700	207.33	6,741	3,872
206.82	4,239	742	207.34	6,751	3,940
206.83	4,360	785	207.35	6,761	4,007
206.84	4,481	829	207.36	6,770	4,075
206.85	4,602	874	207.37	6,780	4,143
206.86	4,723	921	207.38	6,790	4,211
206.87	4,845	969	207.39	6,800	4,279
206.88	4,966	1,018	207.40	6,809	4,347
206.89	5,087	1,068	207.41	6,819	4,415
206.90	5,208	1,120	207.42	6,829	4,483
206.91	5,329	1,172	207.43	6,839	4,551
206.92	5,450	1,226	207.44	6,848	4,620
206.93	5,571	1,281	207.45	6,858	4,688
206.94	5,692	1,338	207.46	6,868	4,757
206.95	5,813	1,395	207.47	6,878	4,826
206.96	5,935	1,454	207.48	6,887	4,895
206.97	6,056	1,514	207.49	6,897	4,964
206.98	6,177	1,575	207.50	6,907	5,033

Stage-Area-Storage for Pond B-7: Basin #7 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
207.51	6,917	5,102	208.03	7,426	8,830
207.52	6,927	5,171	208.04	7,436	8,905
207.53	6,936	5,240	208.05	7,447	8,979
207.54	6,946	5,310	208.06	7,457	9,054
207.55	6,956	5,379	208.07	7,467	9,128
207.56	6,966	5,449	208.08	7,478	9,203
207.57	6,975	5,518	208.09	7,488	9,278
207.58	6,985	5,588	208.10	7,498	9,353
207.59	6,995	5,658	208.11	7,509	9,428
207.60	7,005	5,728	208.12	7,519	9,503
207.61	7,014	5,798	208.13	7,529	9,578
207.62	7,024	5,868	208.14	7,540	9,653
207.63	7,034	5,939	208.15	7,550	9,729
207.64	7,044	6,009	208.16	7,560	9,804
207.65	7,053	6,080	208.17	7,571	9,880
207.66	7,063	6,150	208.18	7,581	9,956
207.67	7,073	6,221	208.19	7,591	10,032
207.68	7,083	6,292	208.20	7,602	10,108
207.69	7,092	6,362	208.21	7,612	10,184
207.70	7,102	6,433	208.22	7,622	10,260
207.71	7,112	6,505	208.23	7,633	10,336
207.72	7,122	6,576	208.24	7,643	10,413
207.73	7,131	6,647	208.25	7,654	10,489
207.74	7,141	6,718	208.26	7,664	10,566
207.75	7,151	6,790	208.27	7,674	10,642
207.76	7,161	6,861	208.28	7,685	10,719
207.77	7,171	6,933	208.29	7,695	10,796
207.78	7,180	7,005	208.30	7,705	10,873
207.79	7,190	7,077	208.31	7,716	10,950
207.80	7,200	7,149	208.32	7,726	11,027
207.81	7,210	7,221	208.33	7,736	11,105
207.82	7,219	7,293	208.34	7,747	11,182
207.83	7,229	7,365	208.35	7,757	11,260
207.84	7,239	7,437	208.36	7,767	11,337
207.85	7,249	7,510	208.37	7,778	11,415
207.86	7,258	7,582	208.38	7,788	11,493
207.87	7,268	7,655	208.39	7,798	11,571
207.88	7,278	7,728	208.40	7,809	11,649
207.89	7,288	7,800	208.41	7,819	11,727
207.90	7,297	7,873	208.42	7,829	11,805
207.91	7,307	7,946	208.43	7,840	11,883
207.92	7,317	8,020	208.44	7,850	11,962
207.93	7,327	8,093	208.45	7,860	12,040
207.94	7,336	8,166	208.46	7,871	12,119
207.95	7,346	8,240	208.47	7,881	12,198
207.96	7,356	8,313	208.48	7,891	12,277
207.97	7,366	8,387	208.49	7,902	12,356
207.98	7,375	8,460	208.50	7,912	12,435
207.99	7,385	8,534	208.51	7,922	12,514
208.00	7,395	8,608	208.52	7,933	12,593
208.01	7,405	8,682	208.53	7,943	12,673
208.02	7,416	8,756	208.54	7,953	12,752

Stage-Area-Storage for Pond B-7: Basin #7 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
208.55	7,964	12,832	209.07	8,503	17,113
208.56	7,974	12,911	209.08	8,513	17,198
208.57	7,984	12,991	209.09	8,524	17,283
208.58	7,995	13,071	209.10	8,534	17,368
208.59	8,005	13,151	209.11	8,545	17,454
208.60	8,015	13,231	209.12	8,556	17,539
208.61	8,026	13,311	209.13	8,566	17,625
208.62	8,036	13,392	209.14	8,577	17,710
208.63	8,046	13,472	209.15	8,587	17,796
208.64	8,057	13,553	209.16	8,598	17,882
208.65	8,067	13,633	209.17	8,608	17,968
208.66	8,077	13,714	209.18	8,619	18,054
208.67	8,088	13,795	209.19	8,629	18,141
208.68	8,098	13,876	209.20	8,640	18,227
208.69	8,108	13,957	209.21	8,651	18,313
208.70	8,119	14,038	209.22	8,661	18,400
208.71	8,129	14,119	209.23	8,672	18,487
208.72	8,139	14,200	209.24	8,682	18,573
208.73	8,150	14,282	209.25	8,693	18,660
208.74	8,160	14,363	209.26	8,703	18,747
208.75	8,171	14,445	209.27	8,714	18,834
208.76	8,181	14,527	209.28	8,724	18,922
208.77	8,191	14,609	209.29	8,735	19,009
208.78	8,202	14,691	209.30	8,746	19,096
208.79	8,212	14,773	209.31	8,756	19,184
208.80	8,222	14,855	209.32	8,767	19,271
208.81	8,233	14,937	209.33	8,777	19,359
208.82	8,243	15,020	209.34	8,788	19,447
208.83	8,253	15,102	209.35	8,798	19,535
208.84	8,264	15,185	209.36	8,809	19,623
208.85	8,274	15,267	209.37	8,819	19,711
208.86	8,284	15,350	209.38	8,830	19,799
208.87	8,295	15,433	209.39	8,840	19,888
208.88	8,305	15,516	209.40	8,851	19,976
208.89	8,315	15,599	209.41	8,862	20,065
208.90	8,326	15,682	209.42	8,872	20,153
208.91	8,336	15,766	209.43	8,883	20,242
208.92	8,346	15,849	209.44	8,893	20,331
208.93	8,357	15,933	209.45	8,904	20,420
208.94	8,367	16,016	209.46	8,914	20,509
208.95	8,377	16,100	209.47	8,925	20,598
208.96	8,388	16,184	209.48	8,935	20,687
208.97	8,398	16,268	209.49	8,946	20,777
208.98	8,408	16,352	209.50	8,957	20,866
208.99	8,419	16,436	209.51	8,967	20,956
209.00	8,429	16,520	209.52	8,978	21,046
209.01	8,440	16,604	209.53	8,988	21,136
209.02	8,450	16,689	209.54	8,999	21,226
209.03	8,461	16,773	209.55	9,009	21,316
209.04	8,471	16,858	209.56	9,020	21,406
209.05	8,482	16,943	209.57	9,030	21,496
209.06	8,492	17,028	209.58	9,041	21,586

Stage-Area-Storage for Pond B-7: Basin #7 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
209.59	9,051	21,677	210.11	9,609	26,527
209.60	9,062	21,767	210.12	9,621	26,623
209.61	9,073	21,858	210.13	9,632	26,719
209.62	9,083	21,949	210.14	9,643	26,815
209.63	9,094	22,040	210.15	9,655	26,912
209.64	9,104	22,131	210.16	9,666	27,009
209.65	9,115	22,222	210.17	9,678	27,105
209.66	9,125	22,313	210.18	9,689	27,202
209.67	9,136	22,404	210.19	9,700	27,299
209.68	9,146	22,496	210.20	9,712	27,396
209.69	9,157	22,587	210.21	9,723	27,493
209.70	9,167	22,679	210.22	9,735	27,591
209.71	9,178	22,771	210.23	9,746	27,688
209.72	9,189	22,862	210.24	9,757	27,785
209.73	9,199	22,954	210.25	9,769	27,883
209.74	9,210	23,046	210.26	9,780	27,981
209.75	9,220	23,139	210.27	9,792	28,079
209.76	9,231	23,231	210.28	9,803	28,177
209.77	9,241	23,323	210.29	9,814	28,275
209.78	9,252	23,416	210.30	9,826	28,373
209.79	9,262	23,508	210.31	9,837	28,471
209.80	9,273	23,601	210.32	9,848	28,570
209.81	9,284	23,694	210.33	9,860	28,668
209.82	9,294	23,787	210.34	9,871	28,767
209.83	9,305	23,879	210.35	9,883	28,866
209.84	9,315	23,973	210.36	9,894	28,965
209.85	9,326	24,066	210.37	9,905	29,064
209.86	9,336	24,159	210.38	9,917	29,163
209.87	9,347	24,253	210.39	9,928	29,262
209.88	9,357	24,346	210.40	9,940	29,361
209.89	9,368	24,440	210.41	9,951	29,461
209.90	9,379	24,533	210.42	9,962	29,560
209.91	9,389	24,627	210.43	9,974	29,660
209.92	9,400	24,721	210.44	9,985	29,760
209.93	9,410	24,815	210.45	9,997	29,860
209.94	9,421	24,909	210.46	10,008	29,960
209.95	9,431	25,004	210.47	10,019	30,060
209.96	9,442	25,098	210.48	10,031	30,160
209.97	9,452	25,192	210.49	10,042	30,260
209.98	9,463	25,287	210.50	10,054	30,361
209.99	9,473	25,382	210.51	10,065	30,462
210.00	9,484	25,477	210.52	10,076	30,562
210.01	9,495	25,571	210.53	10,088	30,663
210.02	9,507	25,666	210.54	10,099	30,764
210.03	9,518	25,762	210.55	10,110	30,865
210.04	9,530	25,857	210.56	10,122	30,966
210.05	9,541	25,952	210.57	10,133	31,067
210.06	9,552	26,048	210.58	10,145	31,169
210.07	9,564	26,143	210.59	10,156	31,270
210.08	9,575	26,239	210.60	10,167	31,372
210.09	9,587	26,335	210.61	10,179	31,474
210.10	9,598	26,431	210.62	10,190	31,576

Stage-Area-Storage for Pond B-7: Basin #7 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
210.63	10,202	31,677
210.64	10,213	31,780
210.65	10,224	31,882
210.66	10,236	31,984
210.67	10,247	32,086
210.68	10,259	32,189
210.69	10,270	32,292
210.70	10,281	32,394
210.71	10,293	32,497
210.72	10,304	32,600
210.73	10,315	32,703
210.74	10,327	32,807
210.75	10,338	32,910
210.76	10,350	33,013
210.77	10,361	33,117
210.78	10,372	33,221
210.79	10,384	33,324
210.80	10,395	33,428
210.81	10,407	33,532
210.82	10,418	33,636
210.83	10,429	33,741
210.84	10,441	33,845
210.85	10,452	33,949
210.86	10,464	34,054
210.87	10,475	34,159
210.88	10,486	34,263
210.89	10,498	34,368
210.90	10,509	34,473
210.91	10,520	34,579
210.92	10,532	34,684
210.93	10,543	34,789
210.94	10,555	34,895
210.95	10,566	35,000
210.96	10,577	35,106
210.97	10,589	35,212
210.98	10,600	35,318
210.99	10,612	35,424
211.00	10,623	35,530

Summary for Pond B-8: Basin #8

Inflow Area = 2.090 ac, 23.06% Impervious, Inflow Depth = 1.98" for Future 2 yr event
 Inflow = 4.28 cfs @ 12.18 hrs, Volume= 0.344 af
 Outflow = 0.12 cfs @ 17.39 hrs, Volume= 0.223 af, Atten= 97%, Lag= 312.8 min
 Primary = 0.12 cfs @ 17.39 hrs, Volume= 0.223 af
 Routed to Link PDA-1 : Proposed Drainage Area #1

Routing by Stor-Ind method, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 Peak Elev= 179.79' @ 17.39 hrs Surf.Area= 14,066 sf Storage= 10,811 cf

Plug-Flow detention time= 775.3 min calculated for 0.223 af (65% of inflow)
 Center-of-Mass det. time= 663.7 min (1,479.5 - 815.8)

Volume	Invert	Avail.Storage	Storage Description
#1	179.00'	44,379 cf	Custom Stage Data (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
179.00	13,283	0	0
180.00	14,274	13,779	13,779
181.00	15,293	14,784	28,562
182.00	16,341	15,817	44,379

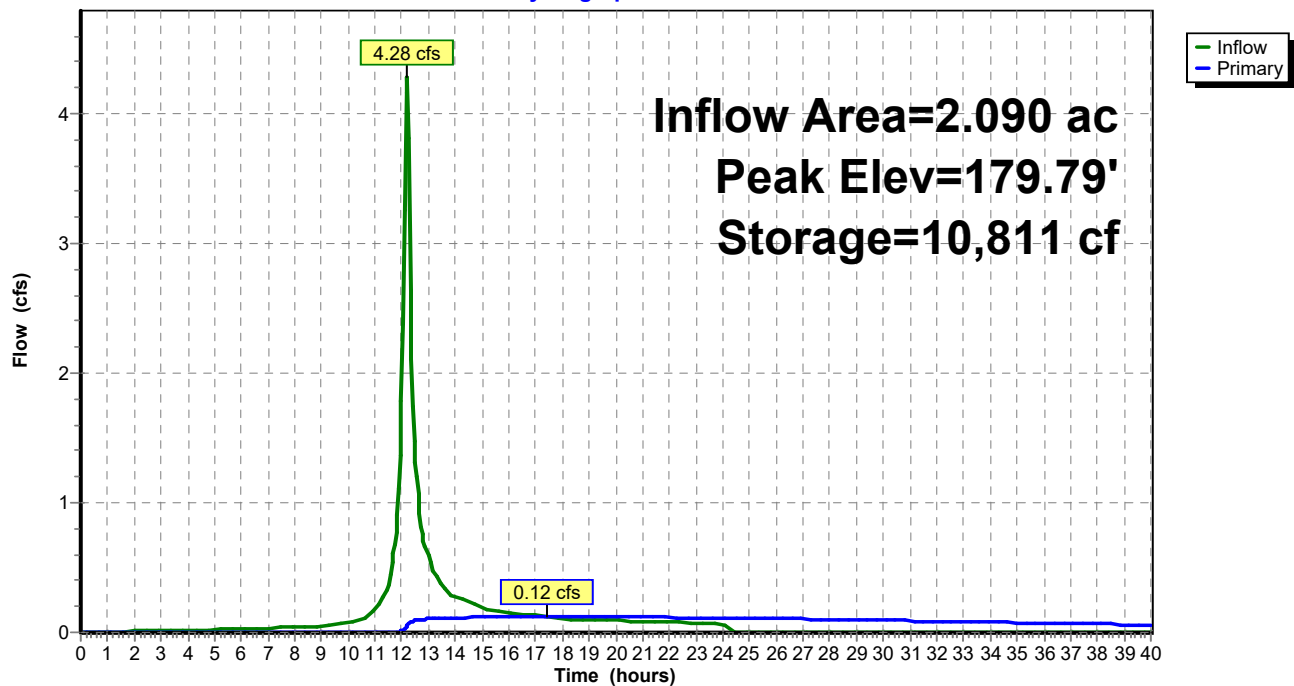
Device	Routing	Invert	Outlet Devices
#1	Primary	178.23'	18.0" Round Culvert L= 46.0' Ke= 0.500 Inlet / Outlet Invert= 178.23' / 178.00' S= 0.0050 ' S= 0.0050 ' Cc= 0.900 n= 0.013, Flow Area= 1.77 sf
#2	Device 1	179.17'	2.5" Vert. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#3	Device 1	179.79'	4.0' long Sharp-Crested Rectangular Weir 2 End Contraction(s)
#4	Primary	180.83'	50.0' long + 3.0 ' SideZ x 5.0' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 Coef. (English) 2.34 2.50 2.70 2.68 2.68 2.66 2.65 2.65 2.65 2.65 2.67 2.66 2.68 2.70 2.74 2.79 2.88

Primary OutFlow Max=0.12 cfs @ 17.39 hrs HW=179.79' (Free Discharge)

1=Culvert (Passes 0.12 cfs of 6.38 cfs potential flow)
 2=Orifice/Grate (Orifice Controls 0.12 cfs @ 3.46 fps)
 3=Sharp-Crested Rectangular Weir(Weir Controls 0.00 cfs @ 0.08 fps)
 4=Broad-Crested Rectangular Weir(Controls 0.00 cfs)

Pond B-8: Basin #8

Hydrograph



Stage-Discharge for Pond B-8: Basin #8

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
179.00	0.00	179.52	0.08	180.04	1.76	180.56	8.68
179.01	0.00	179.53	0.08	180.05	1.86	180.57	8.85
179.02	0.00	179.54	0.08	180.06	1.96	180.58	9.01
179.03	0.00	179.55	0.09	180.07	2.06	180.59	9.17
179.04	0.00	179.56	0.09	180.08	2.16	180.60	9.34
179.05	0.00	179.57	0.09	180.09	2.27	180.61	9.50
179.06	0.00	179.58	0.09	180.10	2.37	180.62	9.67
179.07	0.00	179.59	0.09	180.11	2.48	180.63	9.84
179.08	0.00	179.60	0.09	180.12	2.59	180.64	9.90
179.09	0.00	179.61	0.10	180.13	2.70	180.65	9.94
179.10	0.00	179.62	0.10	180.14	2.81	180.66	9.98
179.11	0.00	179.63	0.10	180.15	2.93	180.67	10.03
179.12	0.00	179.64	0.10	180.16	3.04	180.68	10.07
179.13	0.00	179.65	0.10	180.17	3.16	180.69	10.11
179.14	0.00	179.66	0.10	180.18	3.28	180.70	10.15
179.15	0.00	179.67	0.10	180.19	3.40	180.71	10.19
179.16	0.00	179.68	0.10	180.20	3.52	180.72	10.24
179.17	0.00	179.69	0.11	180.21	3.64	180.73	10.28
179.18	0.00	179.70	0.11	180.22	3.77	180.74	10.32
179.19	0.00	179.71	0.11	180.23	3.89	180.75	10.36
179.20	0.00	179.72	0.11	180.24	4.02	180.76	10.40
179.21	0.00	179.73	0.11	180.25	4.15	180.77	10.44
179.22	0.00	179.74	0.11	180.26	4.28	180.78	10.49
179.23	0.01	179.75	0.11	180.27	4.41	180.79	10.53
179.24	0.01	179.76	0.11	180.28	4.54	180.80	10.57
179.25	0.01	179.77	0.12	180.29	4.67	180.81	10.61
179.26	0.01	179.78	0.12	180.30	4.81	180.82	10.65
179.27	0.02	179.79	0.12	180.31	4.94	180.83	10.69
179.28	0.02	179.80	0.13	180.32	5.08	180.84	10.85
179.29	0.02	179.81	0.16	180.33	5.22	180.85	11.10
179.30	0.03	179.82	0.19	180.34	5.36	180.86	11.42
179.31	0.03	179.83	0.23	180.35	5.50	180.87	11.79
179.32	0.03	179.84	0.27	180.36	5.64	180.88	12.20
179.33	0.04	179.85	0.32	180.37	5.78	180.89	12.65
179.34	0.04	179.86	0.37	180.38	5.93	180.90	13.14
179.35	0.05	179.87	0.42	180.39	6.07	180.91	13.66
179.36	0.05	179.88	0.48	180.40	6.22	180.92	14.22
179.37	0.05	179.89	0.54	180.41	6.36	180.93	14.80
179.38	0.05	179.90	0.60	180.42	6.51	180.94	15.41
179.39	0.06	179.91	0.67	180.43	6.66	180.95	16.05
179.40	0.06	179.92	0.74	180.44	6.81	180.96	16.72
179.41	0.06	179.93	0.81	180.45	6.96	180.97	17.41
179.42	0.06	179.94	0.89	180.46	7.11	180.98	18.12
179.43	0.06	179.95	0.97	180.47	7.26	180.99	18.86
179.44	0.07	179.96	1.04	180.48	7.42	181.00	19.62
179.45	0.07	179.97	1.13	180.49	7.57	181.01	20.40
179.46	0.07	179.98	1.21	180.50	7.73	181.02	21.20
179.47	0.07	179.99	1.30	180.51	7.89	181.03	22.03
179.48	0.07	180.00	1.39	180.52	8.04	181.04	22.91
179.49	0.08	180.01	1.48	180.53	8.20	181.05	23.82
179.50	0.08	180.02	1.57	180.54	8.36	181.06	24.76
179.51	0.08	180.03	1.66	180.55	8.52	181.07	25.72

Stage-Discharge for Pond B-8: Basin #8 (continued)

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
181.08	26.70	181.60	107.42
181.09	27.71	181.61	109.30
181.10	28.75	181.62	111.19
181.11	29.81	181.63	113.09
181.12	30.89	181.64	115.04
181.13	32.00	181.65	117.01
181.14	33.13	181.66	118.98
181.15	34.29	181.67	120.98
181.16	35.47	181.68	122.98
181.17	36.68	181.69	125.00
181.18	37.91	181.70	127.03
181.19	39.16	181.71	129.07
181.20	40.44	181.72	131.13
181.21	41.74	181.73	133.19
181.22	43.07	181.74	135.28
181.23	44.42	181.75	137.37
181.24	45.82	181.76	139.48
181.25	47.25	181.77	141.60
181.26	48.70	181.78	143.73
181.27	50.18	181.79	145.87
181.28	51.68	181.80	148.03
181.29	53.22	181.81	150.20
181.30	54.77	181.82	152.38
181.31	56.36	181.83	154.58
181.32	57.97	181.84	156.73
181.33	59.60	181.85	158.90
181.34	61.27	181.86	161.07
181.35	62.95	181.87	163.26
181.36	64.67	181.88	165.46
181.37	66.41	181.89	167.66
181.38	68.18	181.90	169.88
181.39	69.98	181.91	172.11
181.40	71.80	181.92	174.35
181.41	73.65	181.93	176.60
181.42	75.52	181.94	178.86
181.43	77.42	181.95	181.13
181.44	79.09	181.96	183.41
181.45	80.76	181.97	185.70
181.46	82.45	181.98	188.00
181.47	84.15	181.99	190.31
181.48	85.86	182.00	192.63
181.49	87.59		
181.50	89.33		
181.51	91.08		
181.52	92.84		
181.53	94.62		
181.54	96.41		
181.55	98.22		
181.56	100.03		
181.57	101.86		
181.58	103.70		
181.59	105.56		

Stage-Area-Storage for Pond B-8: Basin #8

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
179.00	13,283	0	179.52	13,798	7,041
179.01	13,293	133	179.53	13,808	7,179
179.02	13,303	266	179.54	13,818	7,317
179.03	13,313	399	179.55	13,828	7,456
179.04	13,323	532	179.56	13,838	7,594
179.05	13,333	665	179.57	13,848	7,732
179.06	13,342	799	179.58	13,858	7,871
179.07	13,352	932	179.59	13,868	8,009
179.08	13,362	1,066	179.60	13,878	8,148
179.09	13,372	1,199	179.61	13,888	8,287
179.10	13,382	1,333	179.62	13,897	8,426
179.11	13,392	1,467	179.63	13,907	8,565
179.12	13,402	1,601	179.64	13,917	8,704
179.13	13,412	1,735	179.65	13,927	8,843
179.14	13,422	1,869	179.66	13,937	8,983
179.15	13,432	2,004	179.67	13,947	9,122
179.16	13,442	2,138	179.68	13,957	9,262
179.17	13,451	2,272	179.69	13,967	9,401
179.18	13,461	2,407	179.70	13,977	9,541
179.19	13,471	2,542	179.71	13,987	9,681
179.20	13,481	2,676	179.72	13,997	9,821
179.21	13,491	2,811	179.73	14,006	9,961
179.22	13,501	2,946	179.74	14,016	10,101
179.23	13,511	3,081	179.75	14,026	10,241
179.24	13,521	3,216	179.76	14,036	10,381
179.25	13,531	3,352	179.77	14,046	10,522
179.26	13,541	3,487	179.78	14,056	10,662
179.27	13,551	3,623	179.79	14,066	10,803
179.28	13,560	3,758	179.80	14,076	10,944
179.29	13,570	3,894	179.81	14,086	11,084
179.30	13,580	4,029	179.82	14,096	11,225
179.31	13,590	4,165	179.83	14,106	11,366
179.32	13,600	4,301	179.84	14,115	11,507
179.33	13,610	4,437	179.85	14,125	11,649
179.34	13,620	4,573	179.86	14,135	11,790
179.35	13,630	4,710	179.87	14,145	11,931
179.36	13,640	4,846	179.88	14,155	12,073
179.37	13,650	4,983	179.89	14,165	12,214
179.38	13,660	5,119	179.90	14,175	12,356
179.39	13,669	5,256	179.91	14,185	12,498
179.40	13,679	5,392	179.92	14,195	12,640
179.41	13,689	5,529	179.93	14,205	12,782
179.42	13,699	5,666	179.94	14,215	12,924
179.43	13,709	5,803	179.95	14,224	13,066
179.44	13,719	5,940	179.96	14,234	13,208
179.45	13,729	6,078	179.97	14,244	13,351
179.46	13,739	6,215	179.98	14,254	13,493
179.47	13,749	6,352	179.99	14,264	13,636
179.48	13,759	6,490	180.00	14,274	13,779
179.49	13,769	6,628	180.01	14,284	13,921
179.50	13,779	6,765	180.02	14,294	14,064
179.51	13,788	6,903	180.03	14,305	14,207

Stage-Area-Storage for Pond B-8: Basin #8 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
180.04	14,315	14,350	180.56	14,845	21,932
180.05	14,325	14,493	180.57	14,855	22,080
180.06	14,335	14,637	180.58	14,865	22,229
180.07	14,345	14,780	180.59	14,875	22,378
180.08	14,356	14,924	180.60	14,885	22,526
180.09	14,366	15,067	180.61	14,896	22,675
180.10	14,376	15,211	180.62	14,906	22,824
180.11	14,386	15,355	180.63	14,916	22,973
180.12	14,396	15,499	180.64	14,926	23,123
180.13	14,406	15,643	180.65	14,936	23,272
180.14	14,417	15,787	180.66	14,947	23,421
180.15	14,427	15,931	180.67	14,957	23,571
180.16	14,437	16,075	180.68	14,967	23,720
180.17	14,447	16,220	180.69	14,977	23,870
180.18	14,457	16,364	180.70	14,987	24,020
180.19	14,468	16,509	180.71	14,997	24,170
180.20	14,478	16,654	180.72	15,008	24,320
180.21	14,488	16,799	180.73	15,018	24,470
180.22	14,498	16,943	180.74	15,028	24,620
180.23	14,508	17,088	180.75	15,038	24,771
180.24	14,519	17,234	180.76	15,048	24,921
180.25	14,529	17,379	180.77	15,059	25,072
180.26	14,539	17,524	180.78	15,069	25,222
180.27	14,549	17,670	180.79	15,079	25,373
180.28	14,559	17,815	180.80	15,089	25,524
180.29	14,570	17,961	180.81	15,099	25,675
180.30	14,580	18,107	180.82	15,110	25,826
180.31	14,590	18,252	180.83	15,120	25,977
180.32	14,600	18,398	180.84	15,130	26,128
180.33	14,610	18,544	180.85	15,140	26,280
180.34	14,620	18,691	180.86	15,150	26,431
180.35	14,631	18,837	180.87	15,161	26,583
180.36	14,641	18,983	180.88	15,171	26,734
180.37	14,651	19,130	180.89	15,181	26,886
180.38	14,661	19,276	180.90	15,191	27,038
180.39	14,671	19,423	180.91	15,201	27,190
180.40	14,682	19,570	180.92	15,211	27,342
180.41	14,692	19,716	180.93	15,222	27,494
180.42	14,702	19,863	180.94	15,232	27,646
180.43	14,712	20,011	180.95	15,242	27,799
180.44	14,722	20,158	180.96	15,252	27,951
180.45	14,733	20,305	180.97	15,262	28,104
180.46	14,743	20,452	180.98	15,273	28,256
180.47	14,753	20,600	180.99	15,283	28,409
180.48	14,763	20,747	181.00	15,293	28,562
180.49	14,773	20,895	181.01	15,303	28,715
180.50	14,784	21,043	181.02	15,314	28,868
180.51	14,794	21,191	181.03	15,324	29,021
180.52	14,804	21,339	181.04	15,335	29,175
180.53	14,814	21,487	181.05	15,345	29,328
180.54	14,824	21,635	181.06	15,356	29,481
180.55	14,834	21,783	181.07	15,366	29,635

Stage-Area-Storage for Pond B-8: Basin #8 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
181.08	15,377	29,789	181.60	15,922	37,926
181.09	15,387	29,943	181.61	15,932	38,086
181.10	15,398	30,097	181.62	15,943	38,245
181.11	15,408	30,251	181.63	15,953	38,405
181.12	15,419	30,405	181.64	15,964	38,564
181.13	15,429	30,559	181.65	15,974	38,724
181.14	15,440	30,713	181.66	15,985	38,884
181.15	15,450	30,868	181.67	15,995	39,044
181.16	15,461	31,022	181.68	16,006	39,204
181.17	15,471	31,177	181.69	16,016	39,364
181.18	15,482	31,332	181.70	16,027	39,524
181.19	15,492	31,487	181.71	16,037	39,684
181.20	15,503	31,642	181.72	16,048	39,845
181.21	15,513	31,797	181.73	16,058	40,005
181.22	15,524	31,952	181.74	16,069	40,166
181.23	15,534	32,107	181.75	16,079	40,327
181.24	15,545	32,263	181.76	16,089	40,487
181.25	15,555	32,418	181.77	16,100	40,648
181.26	15,565	32,574	181.78	16,110	40,809
181.27	15,576	32,729	181.79	16,121	40,970
181.28	15,586	32,885	181.80	16,131	41,132
181.29	15,597	33,041	181.81	16,142	41,293
181.30	15,607	33,197	181.82	16,152	41,455
181.31	15,618	33,353	181.83	16,163	41,616
181.32	15,628	33,509	181.84	16,173	41,778
181.33	15,639	33,666	181.85	16,184	41,940
181.34	15,649	33,822	181.86	16,194	42,102
181.35	15,660	33,979	181.87	16,205	42,264
181.36	15,670	34,135	181.88	16,215	42,426
181.37	15,681	34,292	181.89	16,226	42,588
181.38	15,691	34,449	181.90	16,236	42,750
181.39	15,702	34,606	181.91	16,247	42,913
181.40	15,712	34,763	181.92	16,257	43,075
181.41	15,723	34,920	181.93	16,268	43,238
181.42	15,733	35,077	181.94	16,278	43,400
181.43	15,744	35,235	181.95	16,289	43,563
181.44	15,754	35,392	181.96	16,299	43,726
181.45	15,765	35,550	181.97	16,310	43,889
181.46	15,775	35,708	181.98	16,320	44,052
181.47	15,786	35,865	181.99	16,331	44,216
181.48	15,796	36,023	182.00	16,341	44,379
181.49	15,807	36,181			
181.50	15,817	36,340			
181.51	15,827	36,498			
181.52	15,838	36,656			
181.53	15,848	36,814			
181.54	15,859	36,973			
181.55	15,869	37,132			
181.56	15,880	37,290			
181.57	15,890	37,449			
181.58	15,901	37,608			
181.59	15,911	37,767			

Summary for Pond B-9: Basin #9

Inflow Area = 1.503 ac, 52.63% Impervious, Inflow Depth = 2.61" for Future 2 yr event
 Inflow = 3.91 cfs @ 12.17 hrs, Volume= 0.327 af
 Outflow = 0.12 cfs @ 15.90 hrs, Volume= 0.210 af, Atten= 97%, Lag= 223.6 min
 Primary = 0.12 cfs @ 15.90 hrs, Volume= 0.210 af
 Routed to Link PDA-1 : Proposed Drainage Area #1

Routing by Stor-Ind method, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 Peak Elev= 179.93' @ 15.90 hrs Surf.Area= 11,634 sf Storage= 10,420 cf

Plug-Flow detention time= 763.3 min calculated for 0.210 af (64% of inflow)
 Center-of-Mass det. time= 654.0 min (1,438.6 - 784.7)

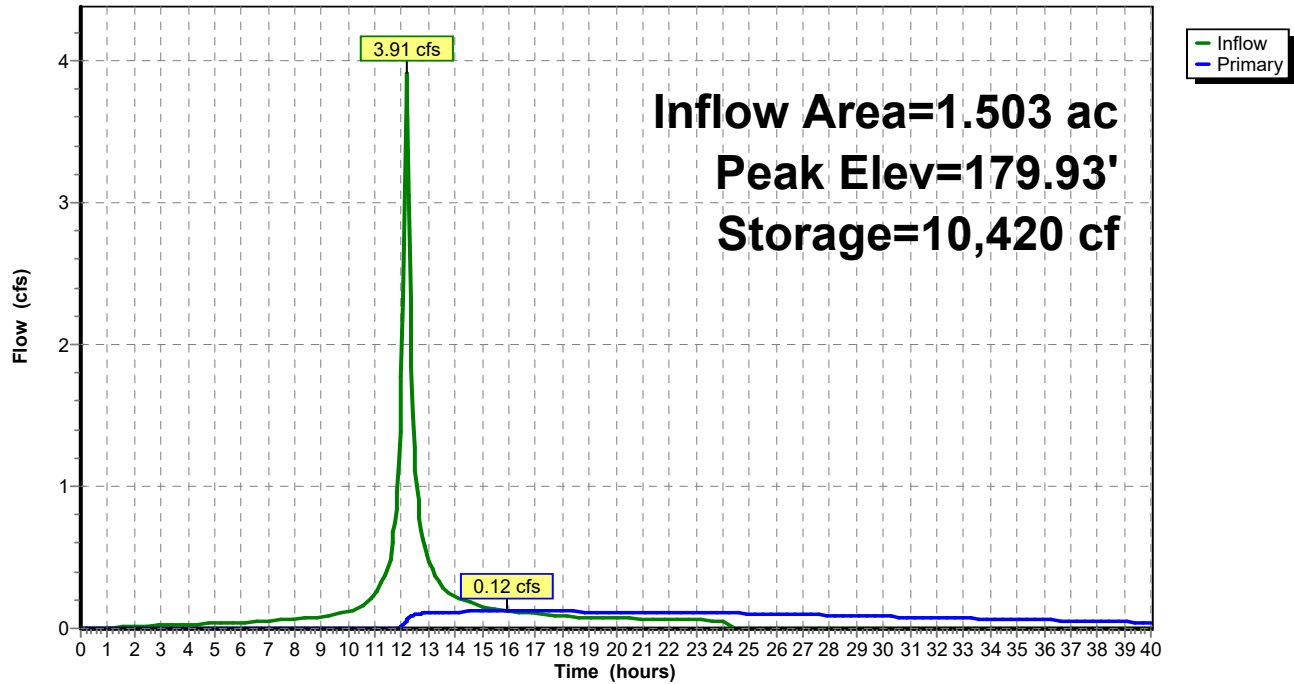
Volume	Invert	Avail.Storage	Storage Description
#1	179.00'	36,641 cf	Custom Stage Data (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
179.00	10,720	0	0
180.00	11,700	11,210	11,210
181.00	12,708	12,204	23,414
182.00	13,745	13,227	36,641

Device	Routing	Invert	Outlet Devices
#1	Primary	178.23'	18.0" Round Culvert L= 45.0' Ke= 0.500 Inlet / Outlet Invert= 178.23' / 178.00' S= 0.0051 '/' Cc= 0.900 n= 0.013, Flow Area= 1.77 sf
#2	Device 1	179.30'	2.5" Vert. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#3	Device 1	179.93'	4.0' long Sharp-Crested Rectangular Weir 2 End Contraction(s)
#4	Primary	181.95'	50.0' long + 3.0 '/' SideZ x 5.0' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 Coef. (English) 2.34 2.50 2.70 2.68 2.68 2.66 2.65 2.65 2.65 2.65 2.67 2.66 2.68 2.70 2.74 2.79 2.88

Primary OutFlow Max=0.12 cfs @ 15.90 hrs HW=179.93' (Free Discharge)

1=Culvert (Passes 0.12 cfs of 7.13 cfs potential flow)
 2=Orifice/Grate (Orifice Controls 0.12 cfs @ 3.50 fps)
 3=Sharp-Crested Rectangular Weir (Weir Controls 0.00 cfs @ 0.16 fps)
 4=Broad-Crested Rectangular Weir (Controls 0.00 cfs)

Pond B-9: Basin #9**Hydrograph**

Stage-Discharge for Pond B-9: Basin #9

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
179.00	0.00	179.52	0.06	180.04	0.61	180.56	6.51
179.01	0.00	179.53	0.06	180.05	0.67	180.57	6.66
179.02	0.00	179.54	0.06	180.06	0.74	180.58	6.81
179.03	0.00	179.55	0.06	180.07	0.81	180.59	6.96
179.04	0.00	179.56	0.06	180.08	0.89	180.60	7.11
179.05	0.00	179.57	0.07	180.09	0.97	180.61	7.27
179.06	0.00	179.58	0.07	180.10	1.05	180.62	7.42
179.07	0.00	179.59	0.07	180.11	1.13	180.63	7.57
179.08	0.00	179.60	0.07	180.12	1.21	180.64	7.73
179.09	0.00	179.61	0.07	180.13	1.30	180.65	7.89
179.10	0.00	179.62	0.08	180.14	1.39	180.66	8.04
179.11	0.00	179.63	0.08	180.15	1.48	180.67	8.20
179.12	0.00	179.64	0.08	180.16	1.57	180.68	8.36
179.13	0.00	179.65	0.08	180.17	1.66	180.69	8.52
179.14	0.00	179.66	0.08	180.18	1.76	180.70	8.68
179.15	0.00	179.67	0.08	180.19	1.86	180.71	8.85
179.16	0.00	179.68	0.09	180.20	1.96	180.72	9.01
179.17	0.00	179.69	0.09	180.21	2.06	180.73	9.17
179.18	0.00	179.70	0.09	180.22	2.16	180.74	9.34
179.19	0.00	179.71	0.09	180.23	2.27	180.75	9.50
179.20	0.00	179.72	0.09	180.24	2.37	180.76	9.67
179.21	0.00	179.73	0.09	180.25	2.48	180.77	9.84
179.22	0.00	179.74	0.10	180.26	2.59	180.78	10.01
179.23	0.00	179.75	0.10	180.27	2.70	180.79	10.18
179.24	0.00	179.76	0.10	180.28	2.81	180.80	10.35
179.25	0.00	179.77	0.10	180.29	2.93	180.81	10.52
179.26	0.00	179.78	0.10	180.30	3.04	180.82	10.69
179.27	0.00	179.79	0.10	180.31	3.16	180.83	10.73
179.28	0.00	179.80	0.10	180.32	3.28	180.84	10.77
179.29	0.00	179.81	0.10	180.33	3.40	180.85	10.81
179.30	0.00	179.82	0.11	180.34	3.52	180.86	10.85
179.31	0.00	179.83	0.11	180.35	3.65	180.87	10.89
179.32	0.00	179.84	0.11	180.36	3.77	180.88	10.93
179.33	0.00	179.85	0.11	180.37	3.89	180.89	10.97
179.34	0.00	179.86	0.11	180.38	4.02	180.90	11.01
179.35	0.00	179.87	0.11	180.39	4.15	180.91	11.05
179.36	0.01	179.88	0.11	180.40	4.28	180.92	11.09
179.37	0.01	179.89	0.11	180.41	4.41	180.93	11.13
179.38	0.01	179.90	0.12	180.42	4.54	180.94	11.17
179.39	0.01	179.91	0.12	180.43	4.68	180.95	11.20
179.40	0.02	179.92	0.12	180.44	4.81	180.96	11.24
179.41	0.02	179.93	0.12	180.45	4.95	180.97	11.28
179.42	0.02	179.94	0.13	180.46	5.08	180.98	11.32
179.43	0.03	179.95	0.16	180.47	5.22	180.99	11.36
179.44	0.03	179.96	0.19	180.48	5.36	181.00	11.40
179.45	0.03	179.97	0.23	180.49	5.50	181.01	11.43
179.46	0.04	179.98	0.27	180.50	5.64	181.02	11.47
179.47	0.04	179.99	0.32	180.51	5.78	181.03	11.51
179.48	0.05	180.00	0.37	180.52	5.93	181.04	11.55
179.49	0.05	180.01	0.42	180.53	6.07	181.05	11.58
179.50	0.05	180.02	0.48	180.54	6.22	181.06	11.62
179.51	0.05	180.03	0.54	180.55	6.36	181.07	11.66

Stage-Discharge for Pond B-9: Basin #9 (continued)

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
181.08	11.70	181.60	13.48
181.09	11.73	181.61	13.52
181.10	11.77	181.62	13.55
181.11	11.81	181.63	13.58
181.12	11.84	181.64	13.61
181.13	11.88	181.65	13.64
181.14	11.92	181.66	13.67
181.15	11.95	181.67	13.71
181.16	11.99	181.68	13.74
181.17	12.02	181.69	13.77
181.18	12.06	181.70	13.80
181.19	12.10	181.71	13.83
181.20	12.13	181.72	13.86
181.21	12.17	181.73	13.89
181.22	12.20	181.74	13.93
181.23	12.24	181.75	13.96
181.24	12.27	181.76	13.99
181.25	12.31	181.77	14.02
181.26	12.34	181.78	14.05
181.27	12.38	181.79	14.08
181.28	12.41	181.80	14.11
181.29	12.45	181.81	14.14
181.30	12.48	181.82	14.17
181.31	12.52	181.83	14.20
181.32	12.55	181.84	14.23
181.33	12.59	181.85	14.26
181.34	12.62	181.86	14.29
181.35	12.66	181.87	14.32
181.36	12.69	181.88	14.35
181.37	12.72	181.89	14.38
181.38	12.76	181.90	14.41
181.39	12.79	181.91	14.44
181.40	12.83	181.92	14.47
181.41	12.86	181.93	14.50
181.42	12.89	181.94	14.53
181.43	12.93	181.95	14.56
181.44	12.96	181.96	14.71
181.45	12.99	181.97	14.95
181.46	13.03	181.98	15.26
181.47	13.06	181.99	15.62
181.48	13.09	182.00	16.02
181.49	13.13		
181.50	13.16		
181.51	13.19		
181.52	13.22		
181.53	13.26		
181.54	13.29		
181.55	13.32		
181.56	13.35		
181.57	13.39		
181.58	13.42		
181.59	13.45		

Stage-Area-Storage for Pond B-9: Basin #9

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
179.00	10,720	0	179.52	11,230	5,707
179.01	10,730	107	179.53	11,239	5,819
179.02	10,740	215	179.54	11,249	5,932
179.03	10,749	322	179.55	11,259	6,044
179.04	10,759	430	179.56	11,269	6,157
179.05	10,769	537	179.57	11,279	6,270
179.06	10,779	645	179.58	11,288	6,382
179.07	10,789	753	179.59	11,298	6,495
179.08	10,798	861	179.60	11,308	6,608
179.09	10,808	969	179.61	11,318	6,722
179.10	10,818	1,077	179.62	11,328	6,835
179.11	10,828	1,185	179.63	11,337	6,948
179.12	10,838	1,293	179.64	11,347	7,062
179.13	10,847	1,402	179.65	11,357	7,175
179.14	10,857	1,510	179.66	11,367	7,289
179.15	10,867	1,619	179.67	11,377	7,402
179.16	10,877	1,728	179.68	11,386	7,516
179.17	10,887	1,837	179.69	11,396	7,630
179.18	10,896	1,945	179.70	11,406	7,744
179.19	10,906	2,054	179.71	11,416	7,858
179.20	10,916	2,164	179.72	11,426	7,972
179.21	10,926	2,273	179.73	11,435	8,087
179.22	10,936	2,382	179.74	11,445	8,201
179.23	10,945	2,492	179.75	11,455	8,316
179.24	10,955	2,601	179.76	11,465	8,430
179.25	10,965	2,711	179.77	11,475	8,545
179.26	10,975	2,820	179.78	11,484	8,660
179.27	10,985	2,930	179.79	11,494	8,775
179.28	10,994	3,040	179.80	11,504	8,890
179.29	11,004	3,150	179.81	11,514	9,005
179.30	11,014	3,260	179.82	11,524	9,120
179.31	11,024	3,370	179.83	11,533	9,235
179.32	11,034	3,481	179.84	11,543	9,351
179.33	11,043	3,591	179.85	11,553	9,466
179.34	11,053	3,701	179.86	11,563	9,582
179.35	11,063	3,812	179.87	11,573	9,697
179.36	11,073	3,923	179.88	11,582	9,813
179.37	11,083	4,033	179.89	11,592	9,929
179.38	11,092	4,144	179.90	11,602	10,045
179.39	11,102	4,255	179.91	11,612	10,161
179.40	11,112	4,366	179.92	11,622	10,277
179.41	11,122	4,478	179.93	11,631	10,393
179.42	11,132	4,589	179.94	11,641	10,510
179.43	11,141	4,700	179.95	11,651	10,626
179.44	11,151	4,812	179.96	11,661	10,743
179.45	11,161	4,923	179.97	11,671	10,859
179.46	11,171	5,035	179.98	11,680	10,976
179.47	11,181	5,147	179.99	11,690	11,093
179.48	11,190	5,258	180.00	11,700	11,210
179.49	11,200	5,370	180.01	11,710	11,327
179.50	11,210	5,483	180.02	11,720	11,444
179.51	11,220	5,595	180.03	11,730	11,561

Stage-Area-Storage for Pond B-9: Basin #9 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
180.04	11,740	11,679	180.56	12,264	17,920
180.05	11,750	11,796	180.57	12,275	18,043
180.06	11,760	11,914	180.58	12,285	18,166
180.07	11,771	12,031	180.59	12,295	18,288
180.08	11,781	12,149	180.60	12,305	18,411
180.09	11,791	12,267	180.61	12,315	18,535
180.10	11,801	12,385	180.62	12,325	18,658
180.11	11,811	12,503	180.63	12,335	18,781
180.12	11,821	12,621	180.64	12,345	18,904
180.13	11,831	12,740	180.65	12,355	19,028
180.14	11,841	12,858	180.66	12,365	19,152
180.15	11,851	12,976	180.67	12,375	19,275
180.16	11,861	13,095	180.68	12,385	19,399
180.17	11,871	13,214	180.69	12,396	19,523
180.18	11,881	13,332	180.70	12,406	19,647
180.19	11,892	13,451	180.71	12,416	19,771
180.20	11,902	13,570	180.72	12,426	19,895
180.21	11,912	13,689	180.73	12,436	20,020
180.22	11,922	13,808	180.74	12,446	20,144
180.23	11,932	13,928	180.75	12,456	20,269
180.24	11,942	14,047	180.76	12,466	20,393
180.25	11,952	14,167	180.77	12,476	20,518
180.26	11,962	14,286	180.78	12,486	20,643
180.27	11,972	14,406	180.79	12,496	20,768
180.28	11,982	14,526	180.80	12,506	20,893
180.29	11,992	14,645	180.81	12,516	21,018
180.30	12,002	14,765	180.82	12,527	21,143
180.31	12,012	14,885	180.83	12,537	21,268
180.32	12,023	15,006	180.84	12,547	21,394
180.33	12,033	15,126	180.85	12,557	21,519
180.34	12,043	15,246	180.86	12,567	21,645
180.35	12,053	15,367	180.87	12,577	21,770
180.36	12,063	15,487	180.88	12,587	21,896
180.37	12,073	15,608	180.89	12,597	22,022
180.38	12,083	15,729	180.90	12,607	22,148
180.39	12,093	15,850	180.91	12,617	22,274
180.40	12,103	15,971	180.92	12,627	22,401
180.41	12,113	16,092	180.93	12,637	22,527
180.42	12,123	16,213	180.94	12,648	22,653
180.43	12,133	16,334	180.95	12,658	22,780
180.44	12,144	16,456	180.96	12,668	22,906
180.45	12,154	16,577	180.97	12,678	23,033
180.46	12,164	16,699	180.98	12,688	23,160
180.47	12,174	16,820	180.99	12,698	23,287
180.48	12,184	16,942	181.00	12,708	23,414
180.49	12,194	17,064	181.01	12,718	23,541
180.50	12,204	17,186	181.02	12,729	23,668
180.51	12,214	17,308	181.03	12,739	23,796
180.52	12,224	17,430	181.04	12,749	23,923
180.53	12,234	17,553	181.05	12,760	24,051
180.54	12,244	17,675	181.06	12,770	24,178
180.55	12,254	17,797	181.07	12,781	24,306

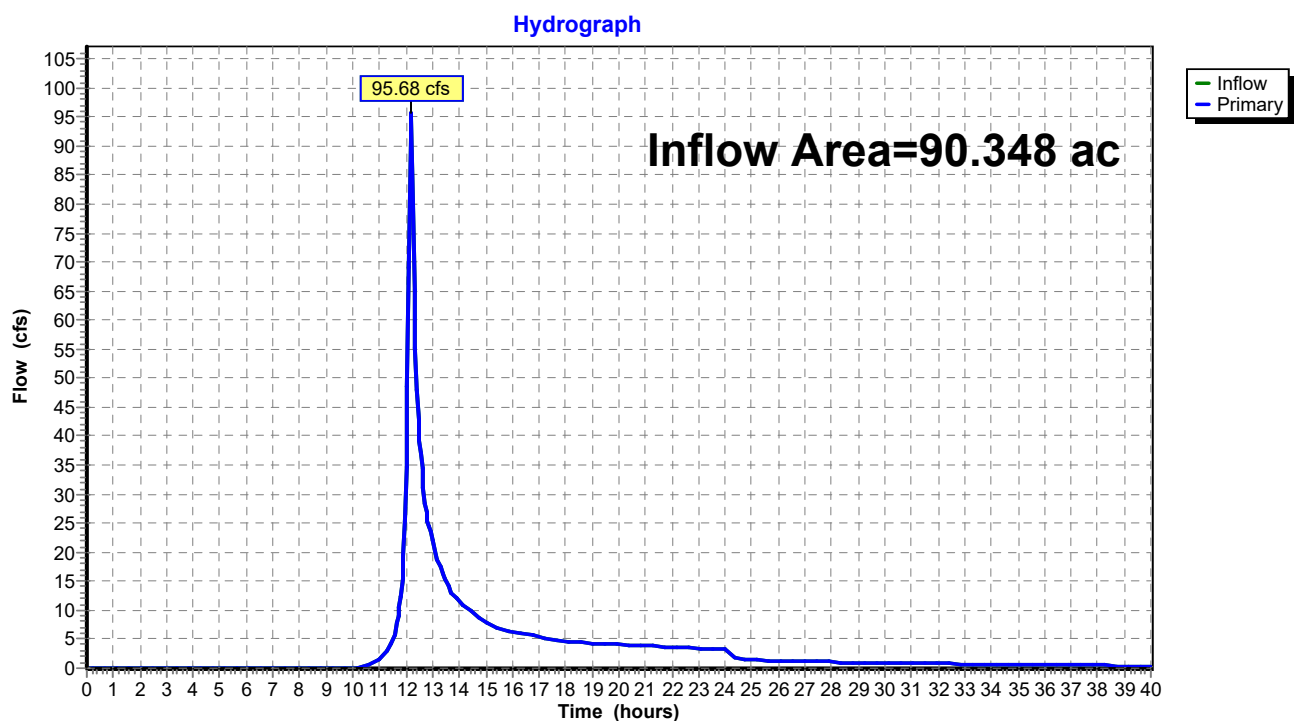
Stage-Area-Storage for Pond B-9: Basin #9 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
181.08	12,791	24,434	181.60	13,330	31,225
181.09	12,801	24,562	181.61	13,341	31,359
181.10	12,812	24,690	181.62	13,351	31,492
181.11	12,822	24,818	181.63	13,361	31,626
181.12	12,832	24,946	181.64	13,372	31,759
181.13	12,843	25,075	181.65	13,382	31,893
181.14	12,853	25,203	181.66	13,392	32,027
181.15	12,864	25,332	181.67	13,403	32,161
181.16	12,874	25,461	181.68	13,413	32,295
181.17	12,884	25,589	181.69	13,424	32,429
181.18	12,895	25,718	181.70	13,434	32,564
181.19	12,905	25,847	181.71	13,444	32,698
181.20	12,915	25,976	181.72	13,455	32,833
181.21	12,926	26,106	181.73	13,465	32,967
181.22	12,936	26,235	181.74	13,475	33,102
181.23	12,947	26,364	181.75	13,486	33,237
181.24	12,957	26,494	181.76	13,496	33,372
181.25	12,967	26,623	181.77	13,506	33,507
181.26	12,978	26,753	181.78	13,517	33,642
181.27	12,988	26,883	181.79	13,527	33,777
181.28	12,998	27,013	181.80	13,538	33,912
181.29	13,009	27,143	181.81	13,548	34,048
181.30	13,019	27,273	181.82	13,558	34,183
181.31	13,029	27,403	181.83	13,569	34,319
181.32	13,040	27,534	181.84	13,579	34,455
181.33	13,050	27,664	181.85	13,589	34,590
181.34	13,061	27,795	181.86	13,600	34,726
181.35	13,071	27,925	181.87	13,610	34,862
181.36	13,081	28,056	181.88	13,621	34,999
181.37	13,092	28,187	181.89	13,631	35,135
181.38	13,102	28,318	181.90	13,641	35,271
181.39	13,112	28,449	181.91	13,652	35,408
181.40	13,123	28,580	181.92	13,662	35,544
181.41	13,133	28,711	181.93	13,672	35,681
181.42	13,144	28,843	181.94	13,683	35,818
181.43	13,154	28,974	181.95	13,693	35,955
181.44	13,164	29,106	181.96	13,704	36,092
181.45	13,175	29,238	181.97	13,714	36,229
181.46	13,185	29,369	181.98	13,724	36,366
181.47	13,195	29,501	181.99	13,735	36,503
181.48	13,206	29,633	182.00	13,745	36,641
181.49	13,216	29,765			
181.50	13,227	29,898			
181.51	13,237	30,030			
181.52	13,247	30,162			
181.53	13,258	30,295			
181.54	13,268	30,428			
181.55	13,278	30,560			
181.56	13,289	30,693			
181.57	13,299	30,826			
181.58	13,309	30,959			
181.59	13,320	31,092			

Summary for Link PDA-1: Proposed Drainage Area #1

Inflow Area = 90.348 ac, 16.68% Impervious, Inflow Depth > 1.47" for Future 2 yr event
Inflow = 95.68 cfs @ 12.19 hrs, Volume= 11.105 af
Primary = 95.68 cfs @ 12.19 hrs, Volume= 11.105 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs

Link PDA-1: Proposed Drainage Area #1

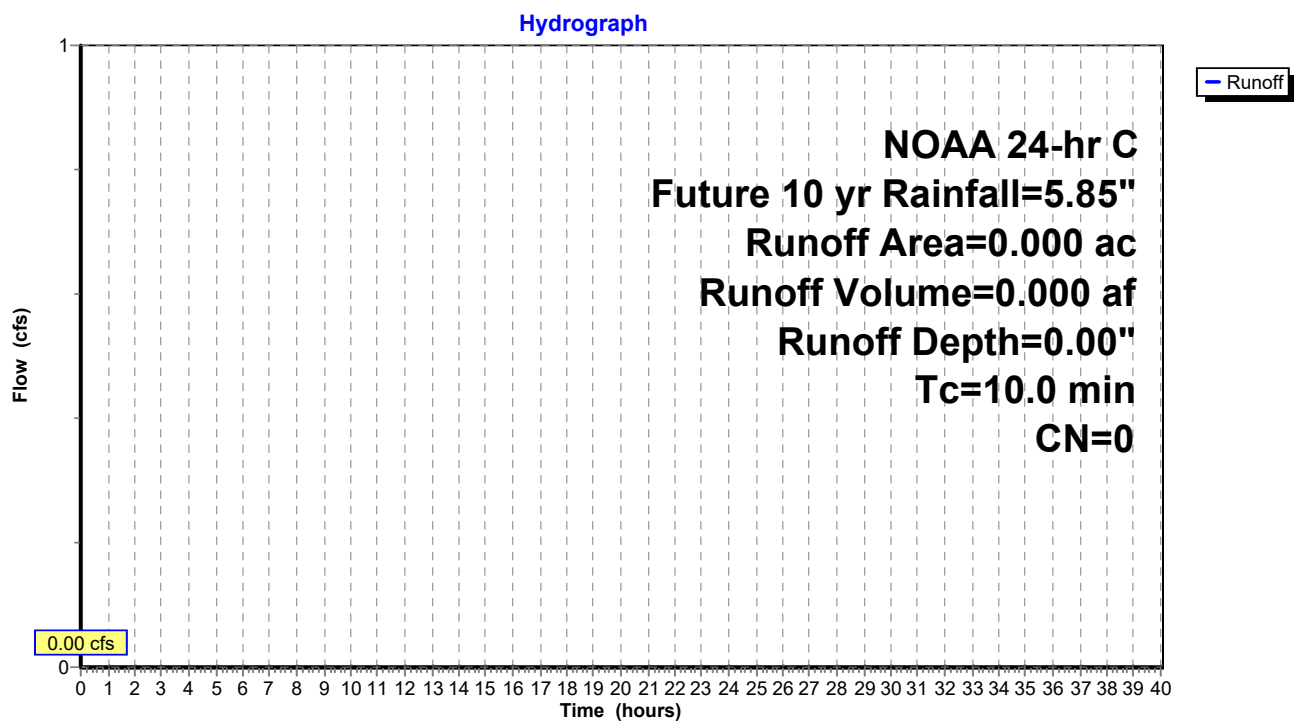
Summary for Subcatchment 1I: PDA-1 (impervious)

Runoff = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af, Depth= 0.00"
 Routed to Pond B-1 : Basin #1

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 NOAA 24-hr C Future 10 yr Rainfall=5.85"

Area (ac)	CN	Description
* 0.000	98	Pavement, HSG C
* 0.000	98	Concrete, HSG C
0.000	0	Weighted Average

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.0					Direct Entry,

Subcatchment 1I: PDA-1 (impervious)

Summary for Subcatchment 1P: PDA-1 (pervious)

Runoff = 3.00 cfs @ 12.18 hrs, Volume= 0.226 af, Depth= 3.06"
 Routed to Pond B-1 : Basin #1

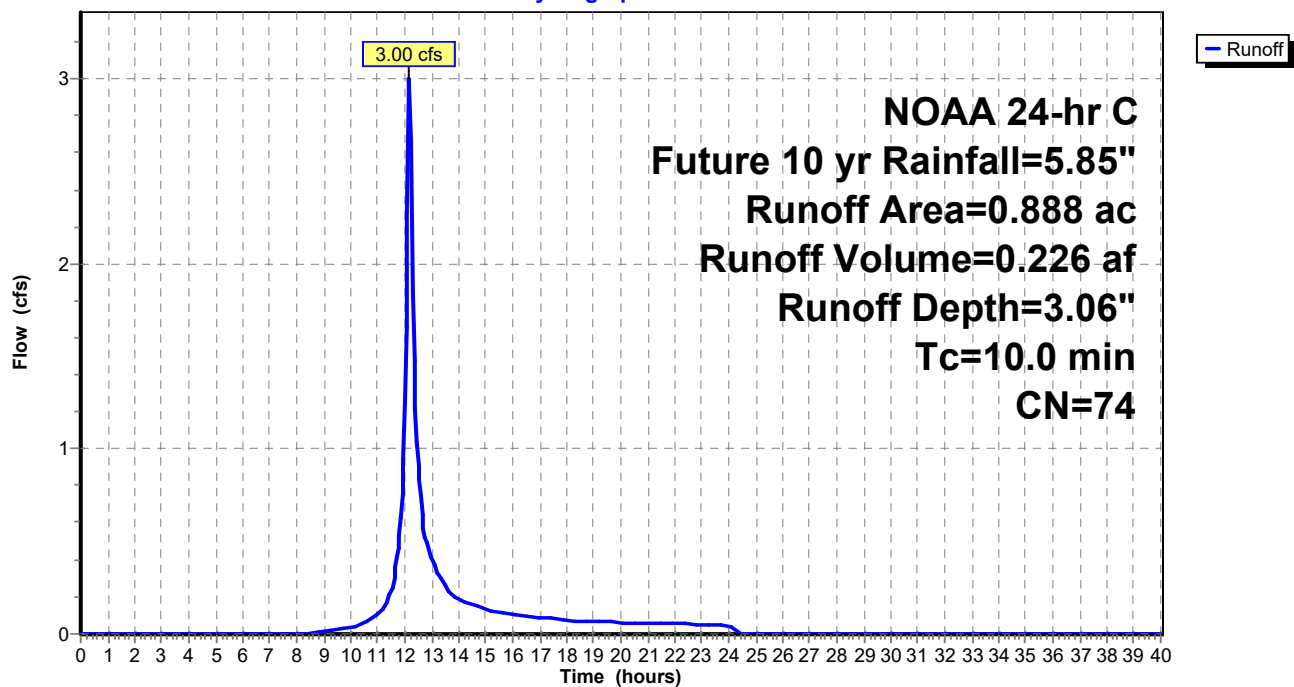
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 NOAA 24-hr C Future 10 yr Rainfall=5.85"

Area (ac)	CN	Description
0.888	74	>75% Grass cover, Good, HSG C
0.888		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.0					Direct Entry,

Subcatchment 1P: PDA-1 (pervious)

Hydrograph



Summary for Subcatchment 2I: PDA-2 (impervious)

Runoff = 3.86 cfs @ 12.17 hrs, Volume= 0.339 af, Depth= 5.61"
 Routed to Pond B-2 : Basin #2

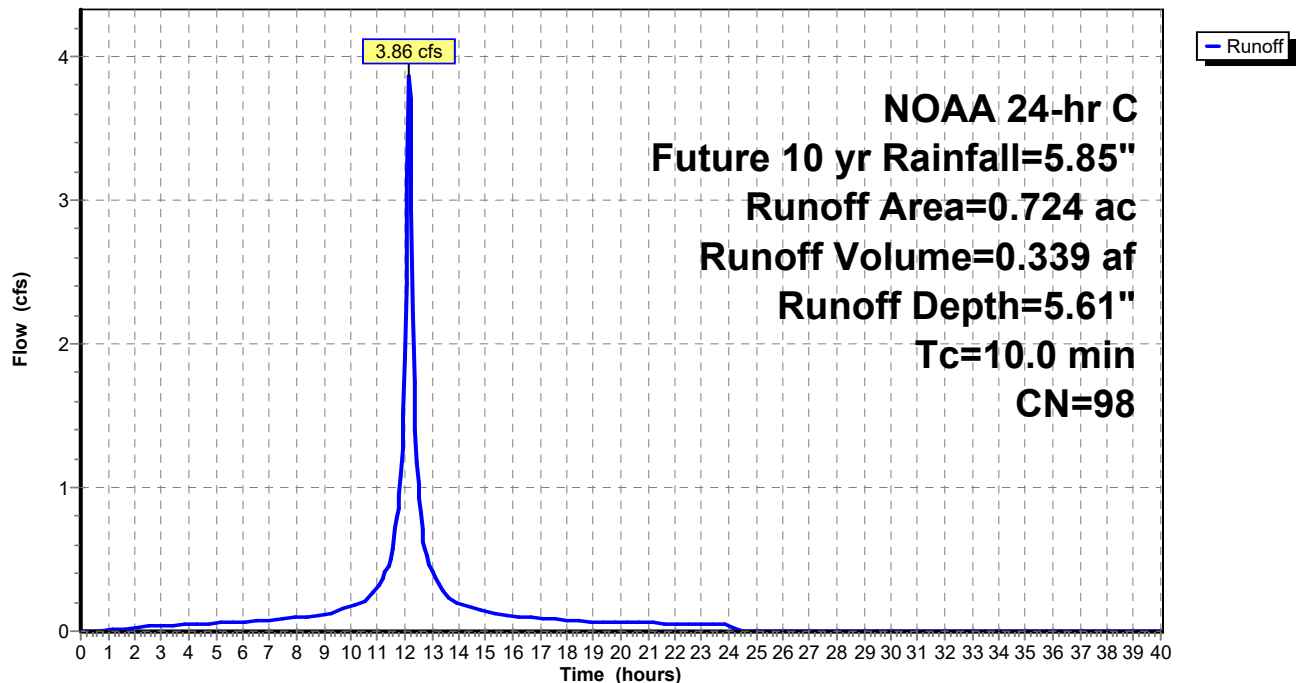
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 NOAA 24-hr C Future 10 yr Rainfall=5.85"

Area (ac)	CN	Description
* 0.490	98	Roof, HSG C
* 0.196	98	Pavement, HSG C
* 0.038	98	Concrete, HSG C
0.724	98	Weighted Average
0.724		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.0					Direct Entry,

Subcatchment 2I: PDA-2 (impervious)

Hydrograph



Summary for Subcatchment 2P: PDA-2 (pervious)

Runoff = 3.96 cfs @ 12.18 hrs, Volume= 0.298 af, Depth= 3.06"
 Routed to Pond B-2 : Basin #2

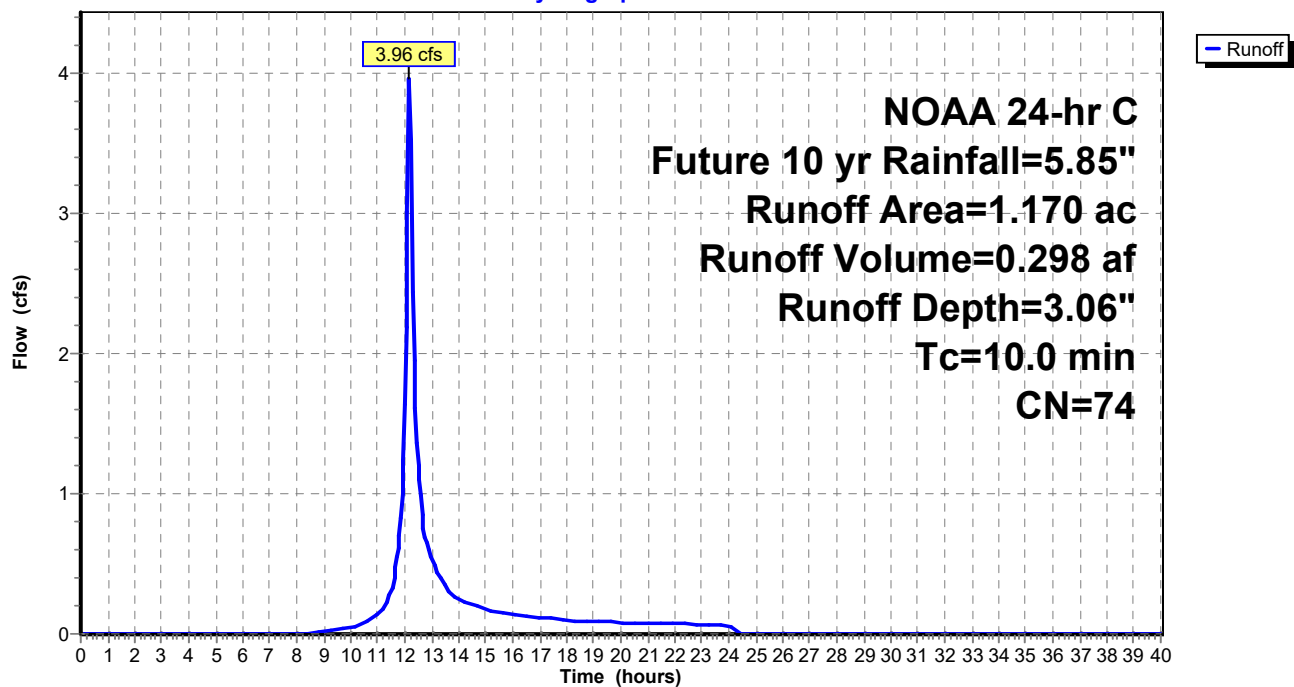
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 NOAA 24-hr C Future 10 yr Rainfall=5.85"

Area (ac)	CN	Description
1.170	74	>75% Grass cover, Good, HSG C
1.170		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.0					Direct Entry,

Subcatchment 2P: PDA-2 (pervious)

Hydrograph



Summary for Subcatchment 3I: PDA-3 (impervious)

Runoff = 3.18 cfs @ 12.17 hrs, Volume= 0.279 af, Depth= 5.61"
 Routed to Pond B-3 : Basin #3

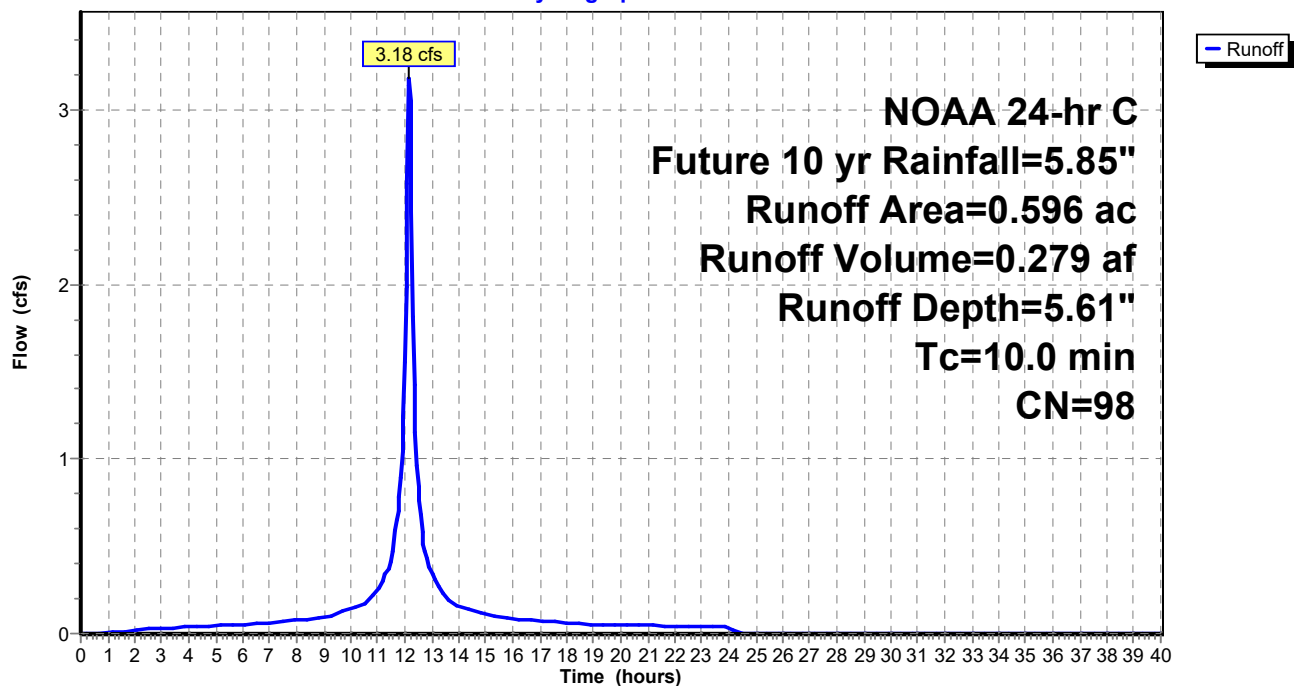
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 NOAA 24-hr C Future 10 yr Rainfall=5.85"

Area (ac)	CN	Description
* 0.304	98	Pavement, HSG C
* 0.035	98	Concrete, HSG C
0.257	98	Unconnected roofs, HSG C
0.596	98	Weighted Average
0.596		100.00% Impervious Area
0.257		43.12% Unconnected

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.0					Direct Entry,

Subcatchment 3I: PDA-3 (impervious)

Hydrograph



Summary for Subcatchment 3P: PDA-3 (pervious)

Runoff = 3.24 cfs @ 12.18 hrs, Volume= 0.244 af, Depth= 3.06"
 Routed to Pond B-3 : Basin #3

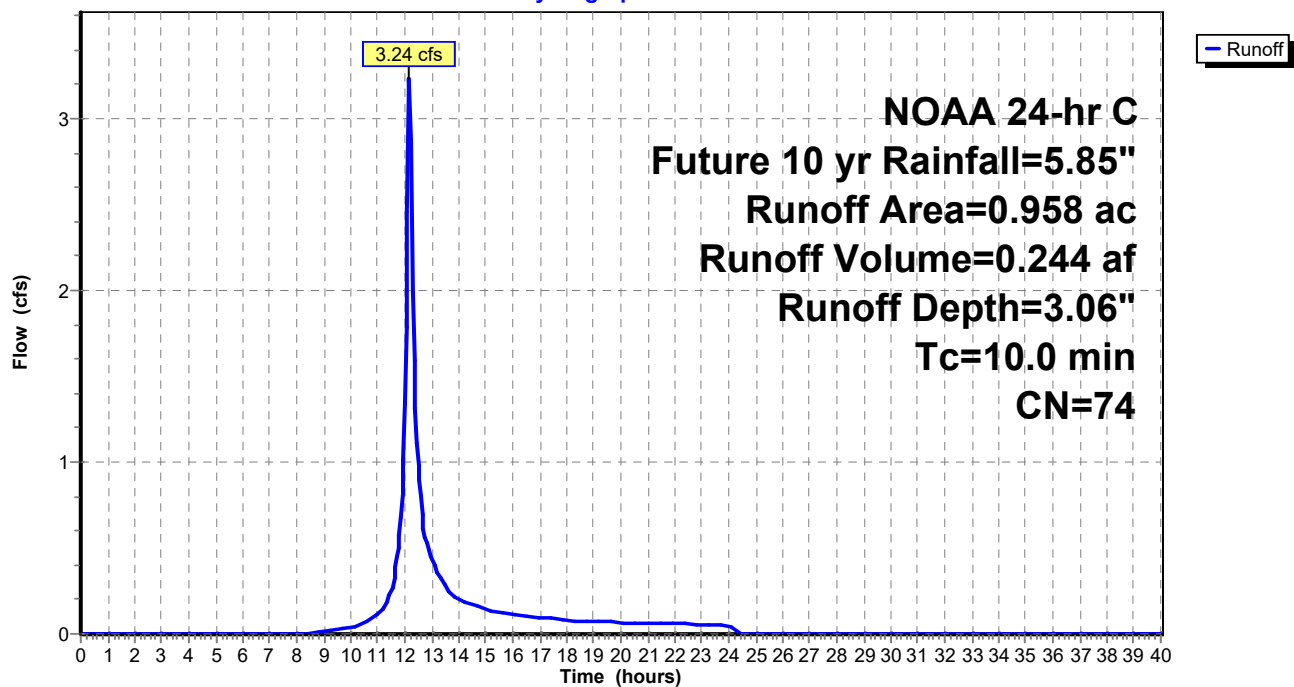
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 NOAA 24-hr C Future 10 yr Rainfall=5.85"

Area (ac)	CN	Description
0.958	74	>75% Grass cover, Good, HSG C
0.958		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.0					Direct Entry,

Subcatchment 3P: PDA-3 (pervious)

Hydrograph



Summary for Subcatchment 4AI: PDA-4A (impervious)

Runoff = 4.59 cfs @ 12.17 hrs, Volume= 0.402 af, Depth= 5.61"
 Routed to Pond B-4A : Basin #4A

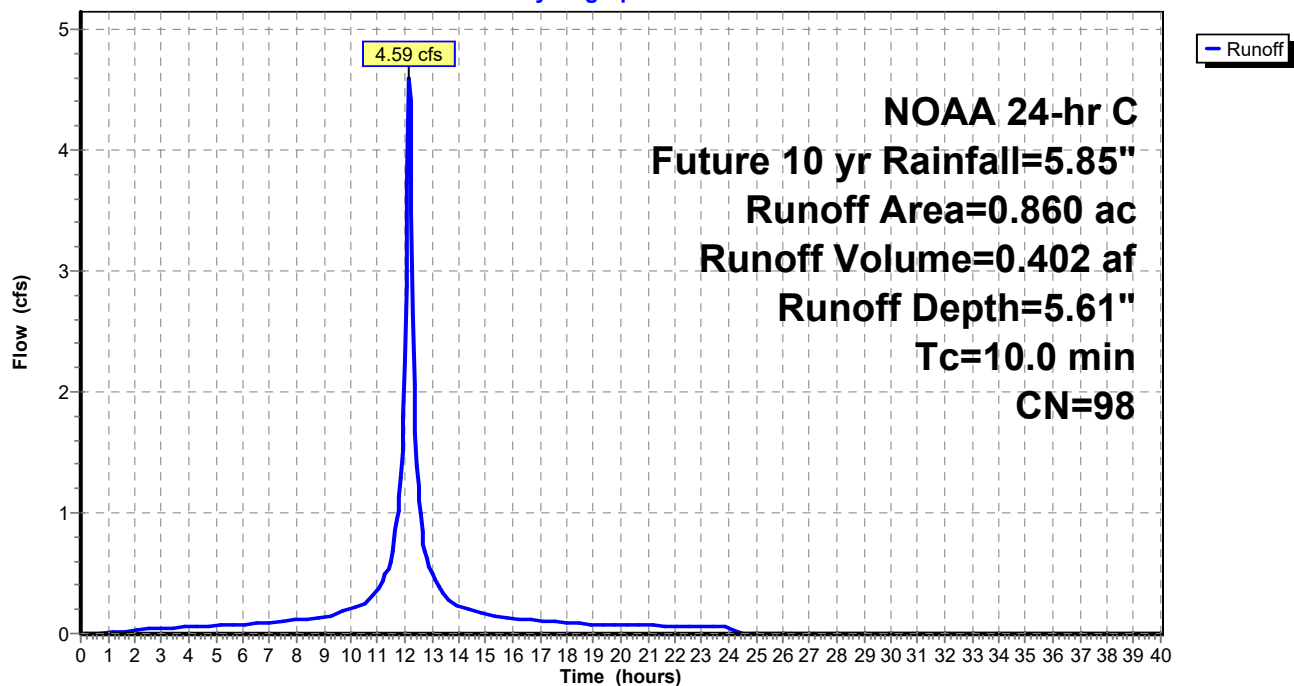
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 NOAA 24-hr C Future 10 yr Rainfall=5.85"

Area (ac)	CN	Description
* 0.742	98	Pavement, HSG C
* 0.118	98	Concrete, HSG C
0.860	98	Weighted Average
0.860		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.0					Direct Entry,

Subcatchment 4AI: PDA-4A (impervious)

Hydrograph



Summary for Subcatchment 4AP: PDA-4A (pervious)

Runoff = 4.97 cfs @ 12.18 hrs, Volume= 0.375 af, Depth= 3.06"
 Routed to Pond B-4A : Basin #4A

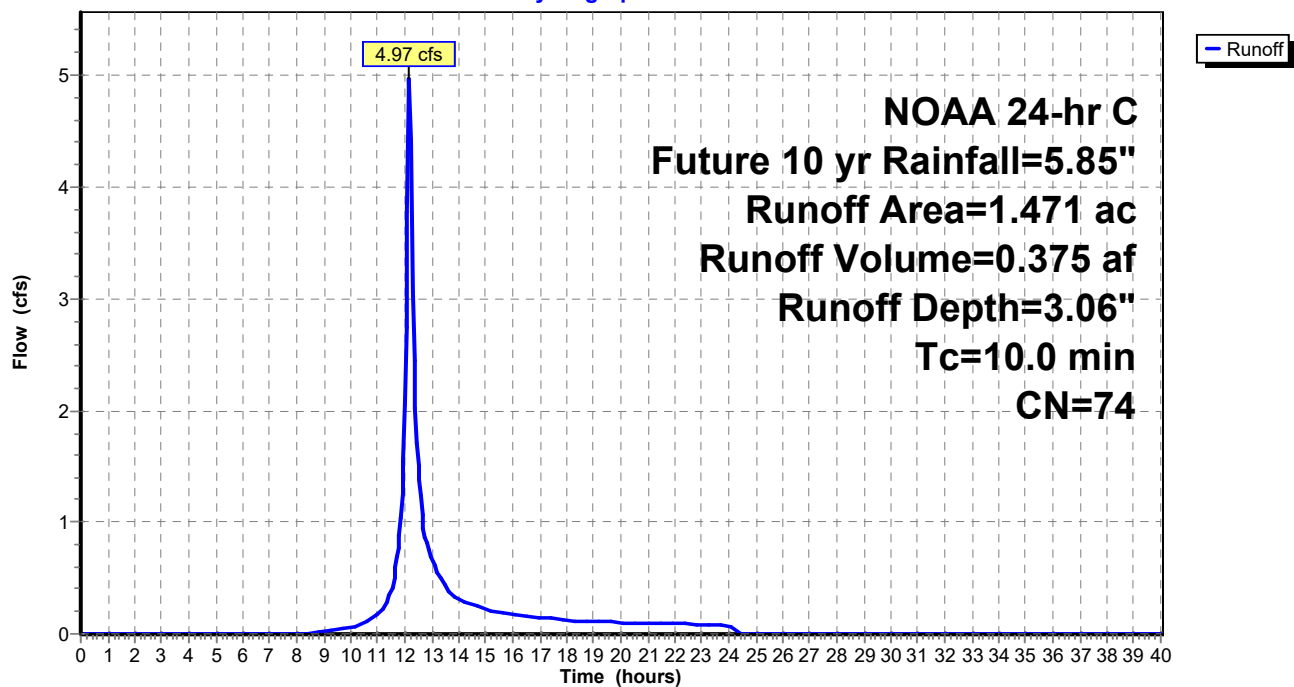
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 NOAA 24-hr C Future 10 yr Rainfall=5.85"

Area (ac)	CN	Description
1.471	74	>75% Grass cover, Good, HSG C
1.471		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.0					Direct Entry,

Subcatchment 4AP: PDA-4A (pervious)

Hydrograph



Summary for Subcatchment 4BI: PDA-4B (impervious)

Runoff = 4.59 cfs @ 12.17 hrs, Volume= 0.402 af, Depth= 5.61"
 Routed to Pond B-4B : Basin #4B

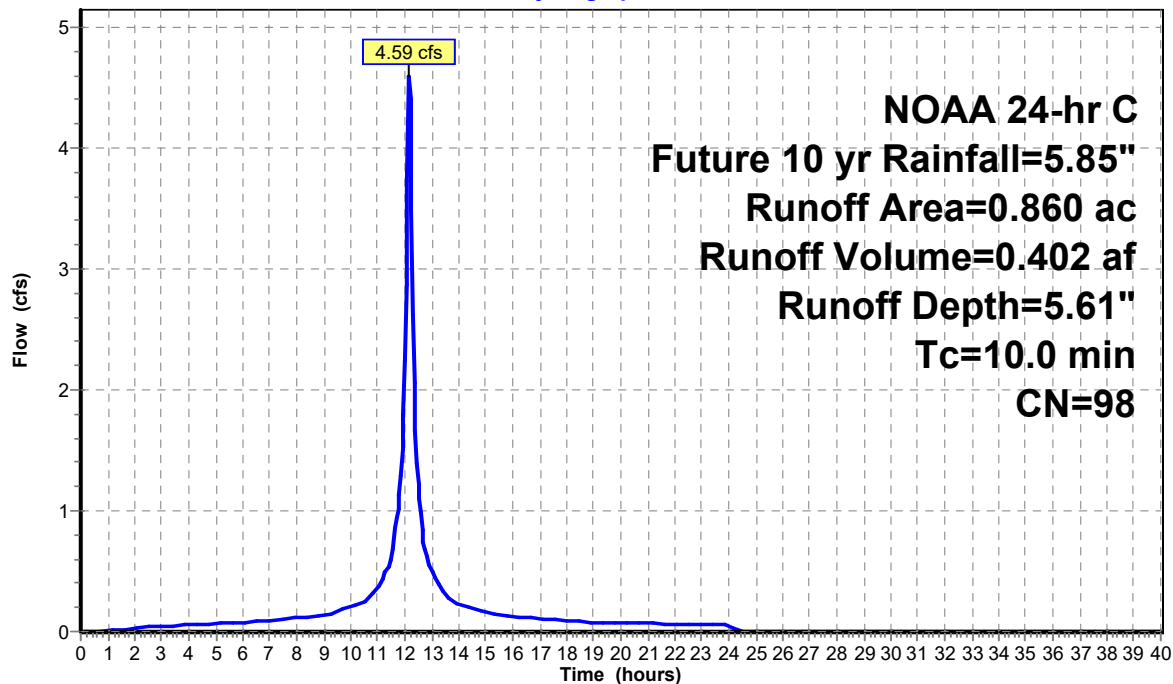
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 NOAA 24-hr C Future 10 yr Rainfall=5.85"

Area (ac)	CN	Description
* 0.742	98	Pavement, HSG C
* 0.118	98	Concrete, HSG C
0.860	98	Weighted Average
0.860		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.0					Direct Entry,

Subcatchment 4BI: PDA-4B (impervious)

Hydrograph



Summary for Subcatchment 4BP: PDA-4B (pervious)

Runoff = 4.97 cfs @ 12.18 hrs, Volume= 0.375 af, Depth= 3.06"
 Routed to Pond B-4B : Basin #4B

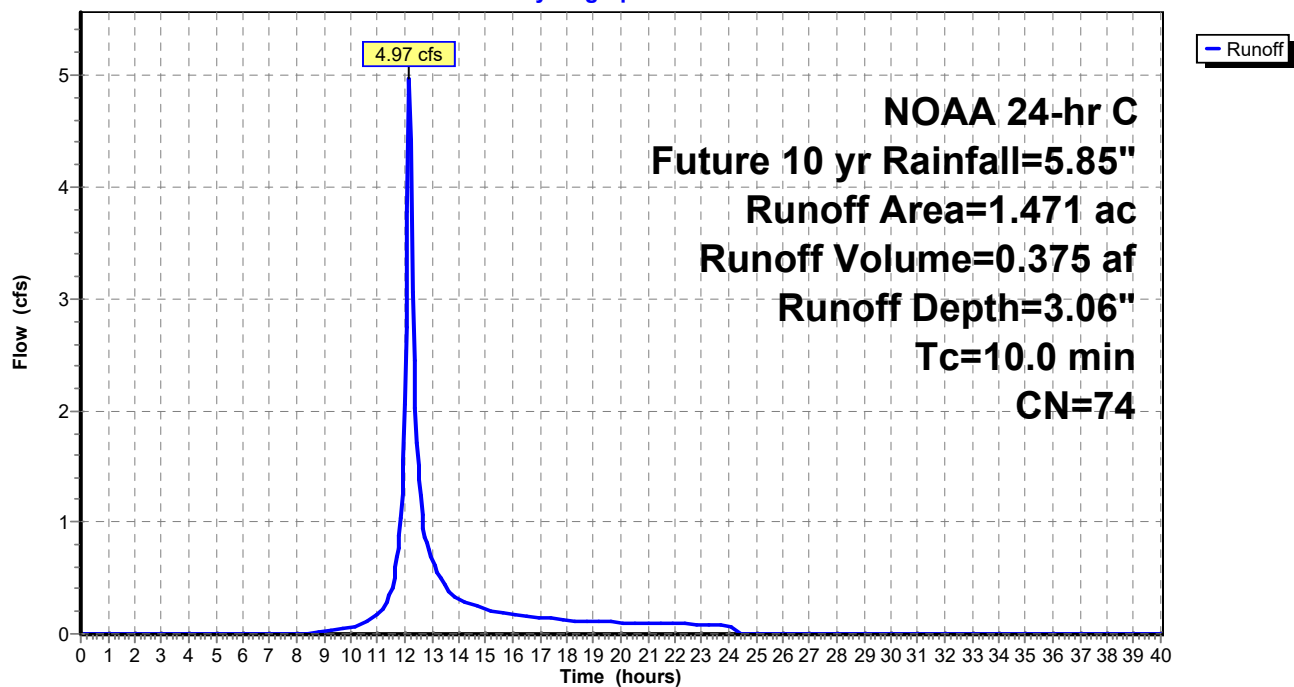
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 NOAA 24-hr C Future 10 yr Rainfall=5.85"

Area (ac)	CN	Description
1.471	74	>75% Grass cover, Good, HSG C
1.471		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.0					Direct Entry,

Subcatchment 4BP: PDA-4B (pervious)

Hydrograph



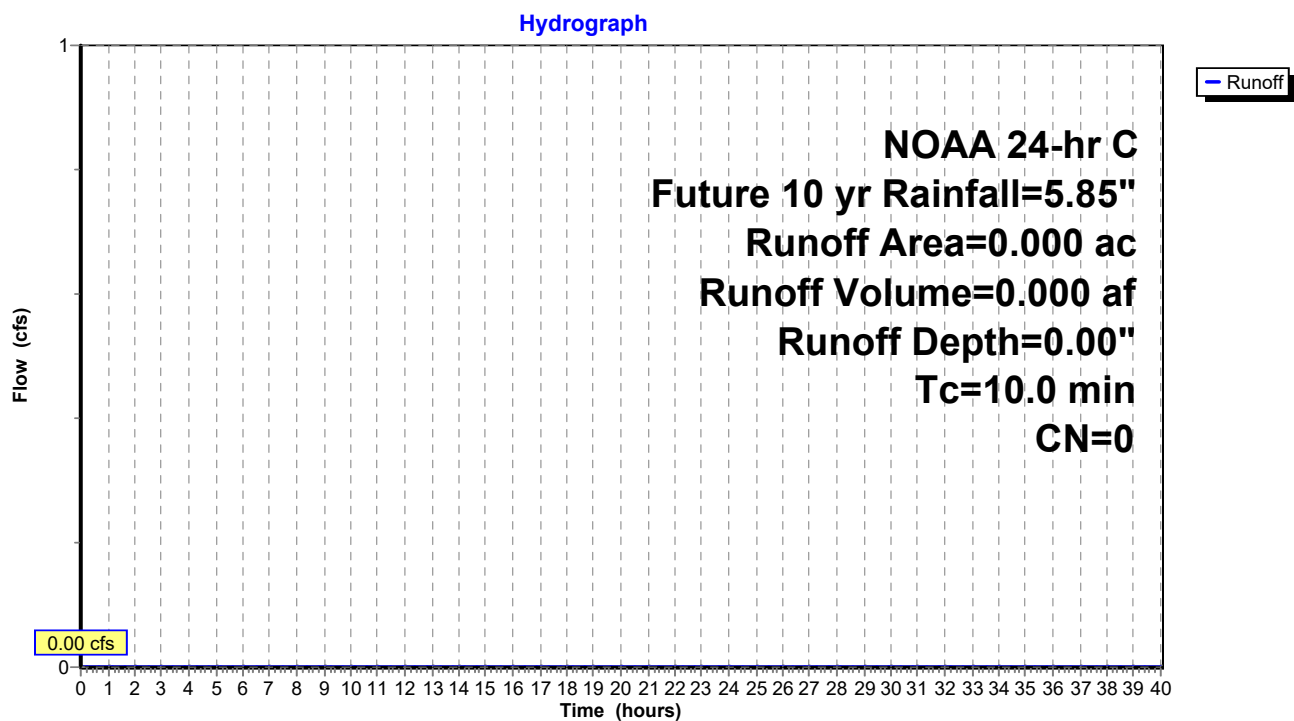
Summary for Subcatchment 5I: PDA-5 (impervious)

Runoff = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af, Depth= 0.00"
 Routed to Pond B-5 : Basin #5

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 NOAA 24-hr C Future 10 yr Rainfall=5.85"

Area (ac)	CN	Description
* 0.000	98	Pavement, HSG C
* 0.000	98	Concrete, HSG C
0.000	0	Weighted Average

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.0					Direct Entry,

Subcatchment 5I: PDA-5 (impervious)

Summary for Subcatchment 5P: PDA-5 (pervious)

Runoff = 2.30 cfs @ 12.18 hrs, Volume= 0.173 af, Depth= 3.06"
 Routed to Pond B-5 : Basin #5

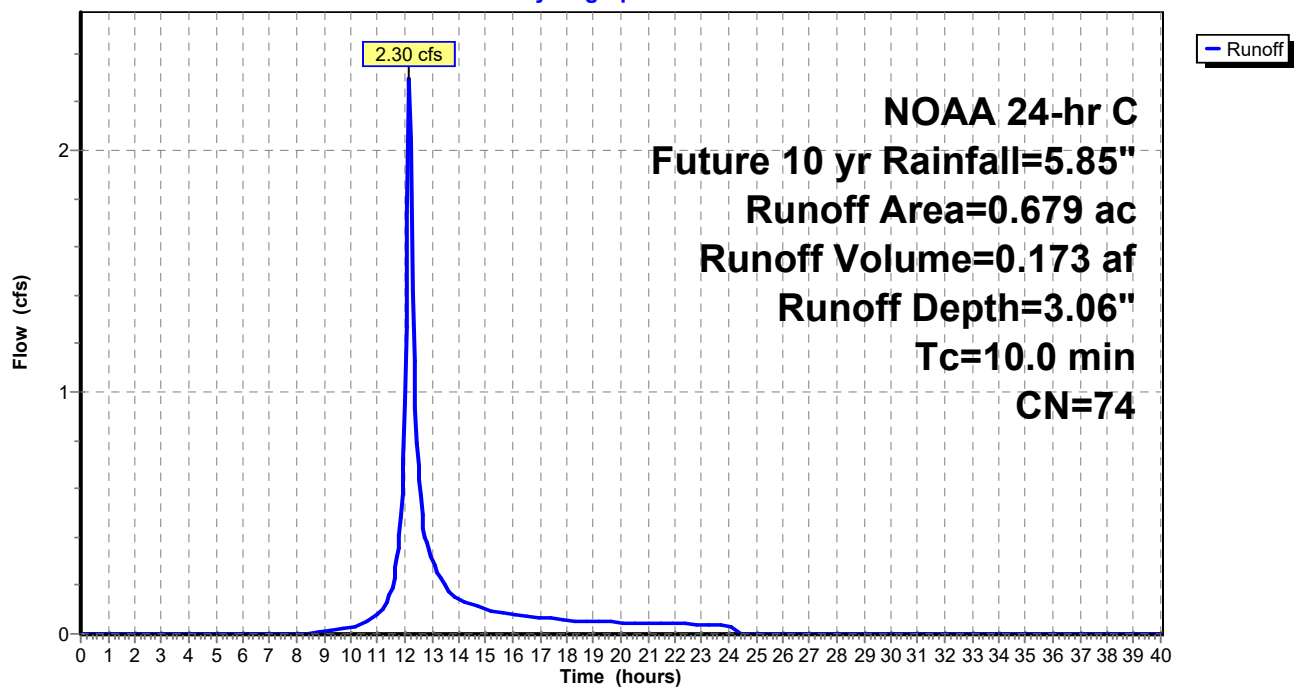
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 NOAA 24-hr C Future 10 yr Rainfall=5.85"

Area (ac)	CN	Description
0.679	74	>75% Grass cover, Good, HSG C
0.679		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.0					Direct Entry,

Subcatchment 5P: PDA-5 (pervious)

Hydrograph



Summary for Subcatchment 6I: PDA-6 (impervious)

Runoff = 3.70 cfs @ 12.17 hrs, Volume= 0.325 af, Depth= 5.61"
 Routed to Pond B-6 : Basin #6

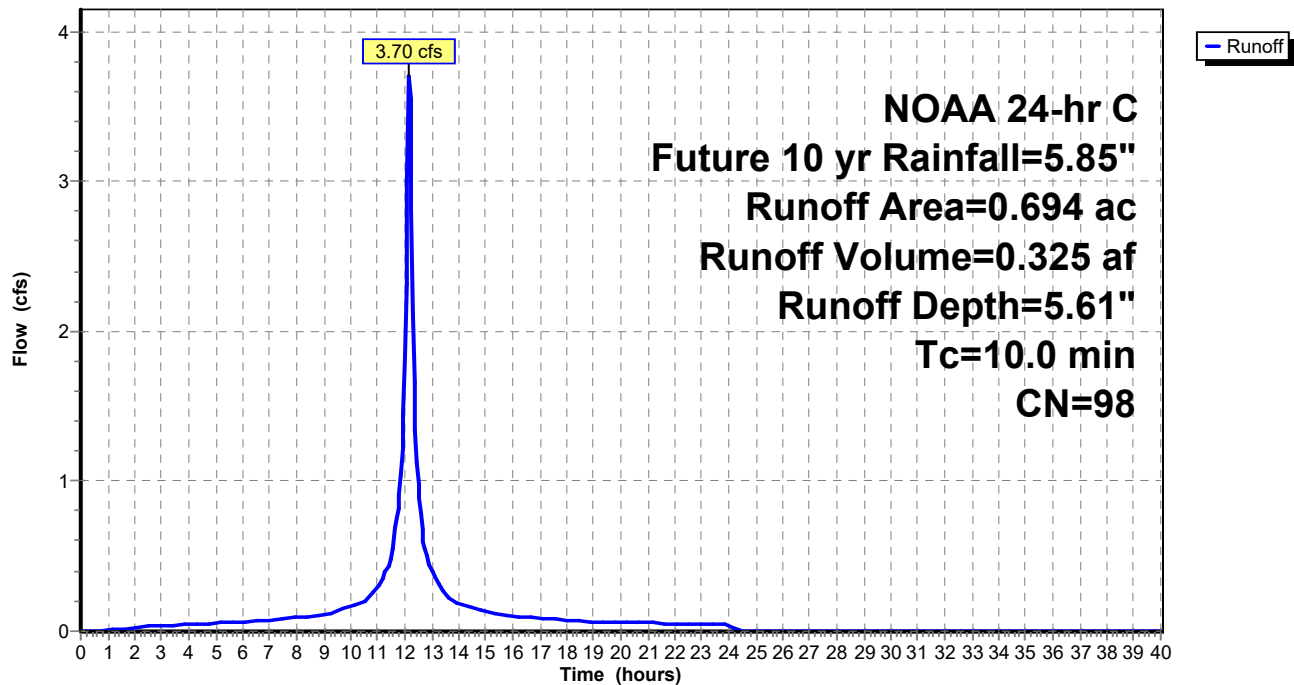
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 NOAA 24-hr C Future 10 yr Rainfall=5.85"

Area (ac)	CN	Description
* 0.459	98	Pavement, HSG C
* 0.129	98	Roof, HSG C
* 0.106	98	Concrete, HSG C
0.694	98	Weighted Average
0.694		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.0					Direct Entry,

Subcatchment 6I: PDA-6 (impervious)

Hydrograph



Summary for Subcatchment 6P: PDA-6 (pervious)

Runoff = 1.68 cfs @ 12.18 hrs, Volume= 0.127 af, Depth= 3.06"
 Routed to Pond B-6 : Basin #6

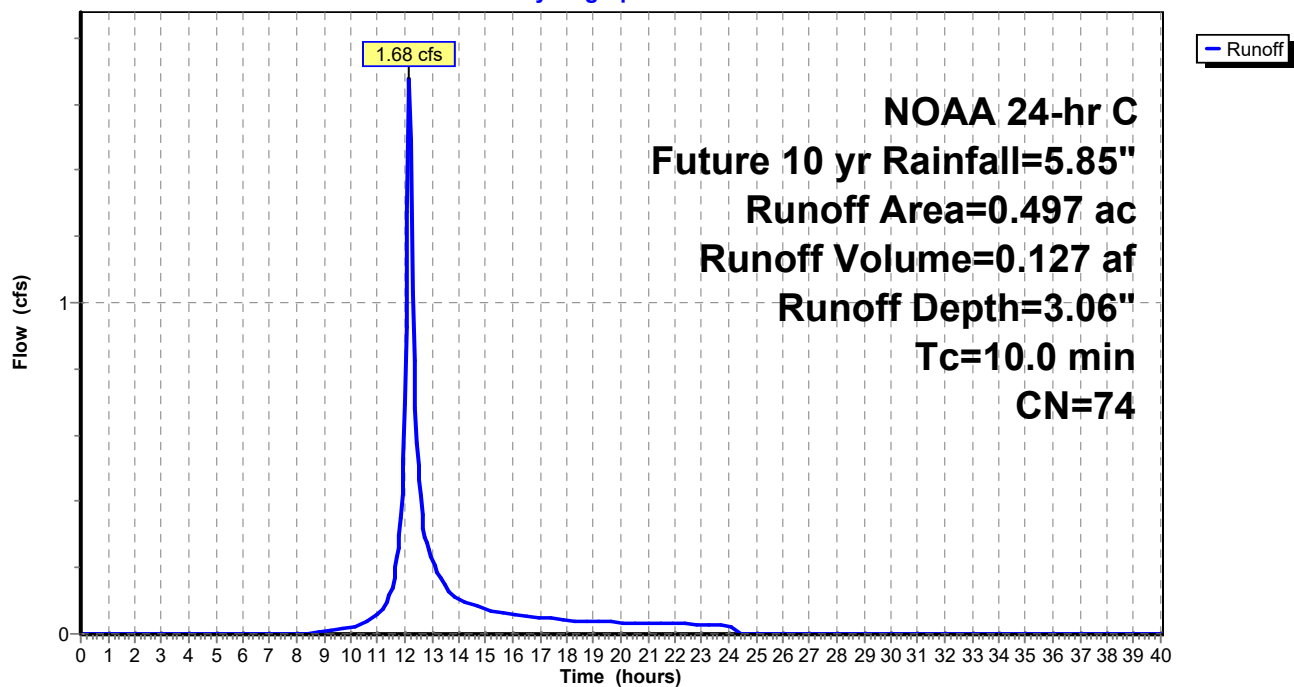
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 NOAA 24-hr C Future 10 yr Rainfall=5.85"

Area (ac)	CN	Description
0.497	74	>75% Grass cover, Good, HSG C
0.497		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.0					Direct Entry,

Subcatchment 6P: PDA-6 (pervious)

Hydrograph



Summary for Subcatchment 7I: PDA-7 (impervious)

Runoff = 5.24 cfs @ 12.17 hrs, Volume= 0.460 af, Depth= 5.61"
 Routed to Pond B-7 : Basin #7

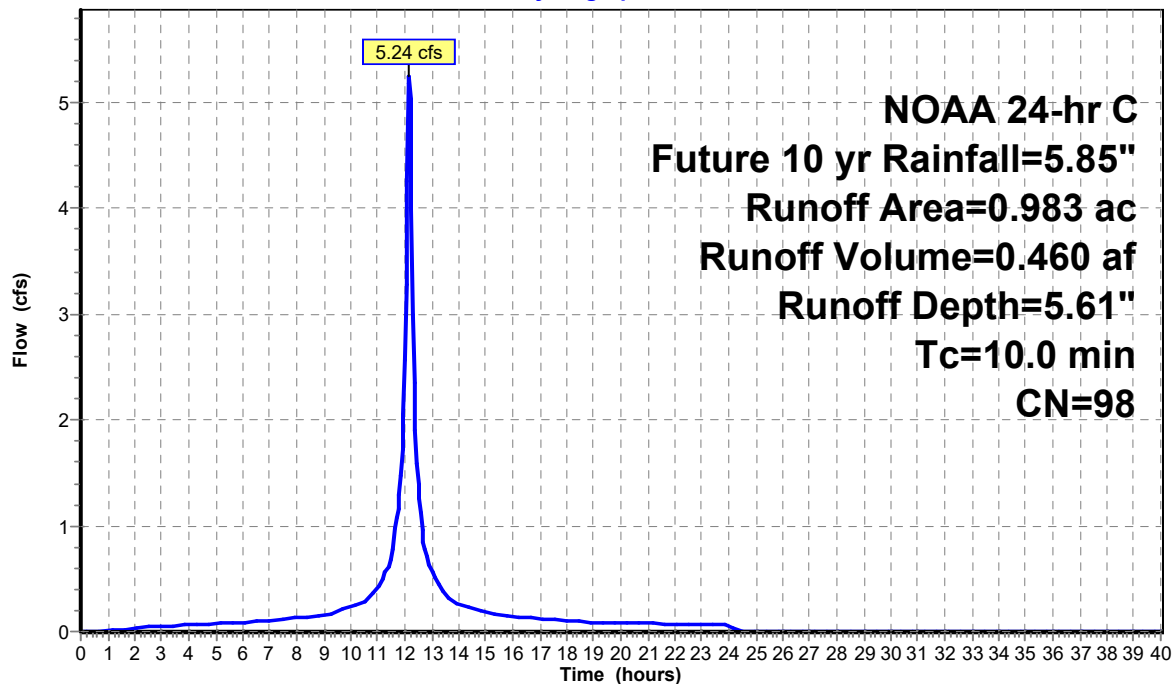
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 NOAA 24-hr C Future 10 yr Rainfall=5.85"

Area (ac)	CN	Description
* 0.886	98	Pavement, HSG C
* 0.097	98	Concrete, HSG C
0.983	98	Weighted Average
0.983		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.0					Direct Entry,

Subcatchment 7I: PDA-7 (impervious)

Hydrograph



Summary for Subcatchment 7P: PDA-7 (pervious)

Runoff = 1.96 cfs @ 12.18 hrs, Volume= 0.148 af, Depth= 3.06"
 Routed to Pond B-7 : Basin #7

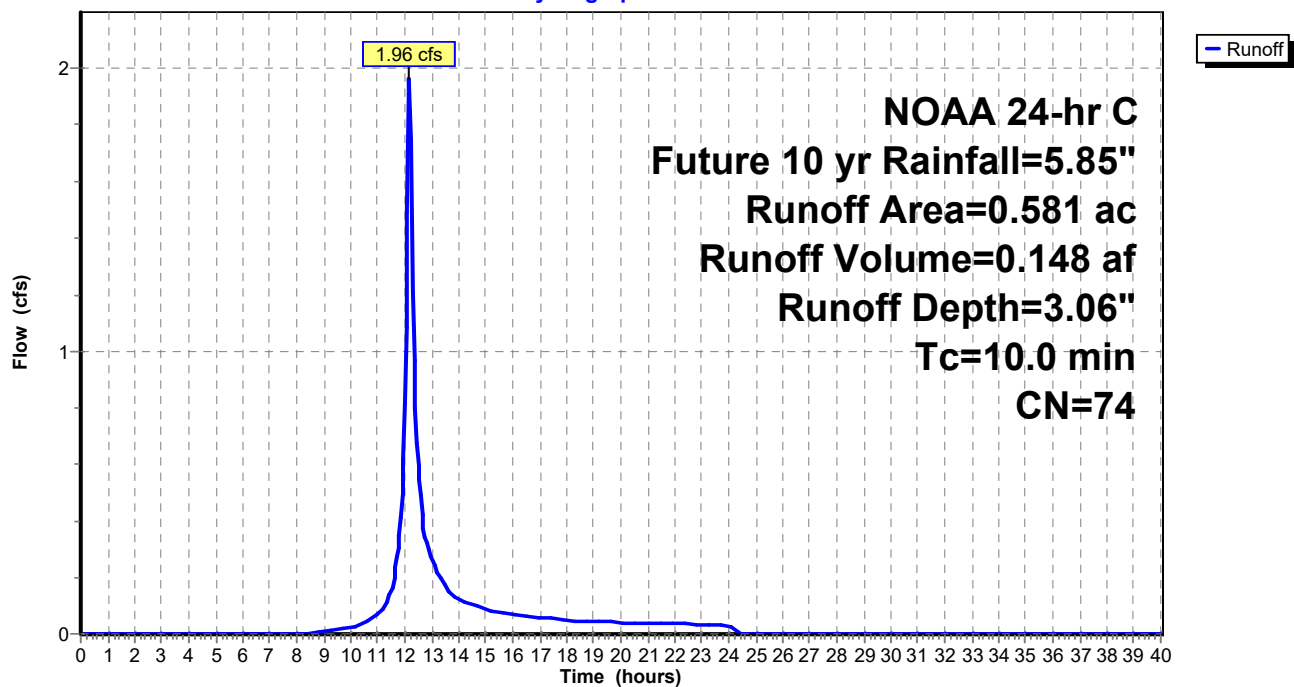
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 NOAA 24-hr C Future 10 yr Rainfall=5.85"

Area (ac)	CN	Description
0.581	74	>75% Grass cover, Good, HSG C
0.581		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.0					Direct Entry,

Subcatchment 7P: PDA-7 (pervious)

Hydrograph



Summary for Subcatchment 8I: PDA-8 (impervious)

Runoff = 2.57 cfs @ 12.17 hrs, Volume= 0.225 af, Depth= 5.61"
 Routed to Pond B-8 : Basin #8

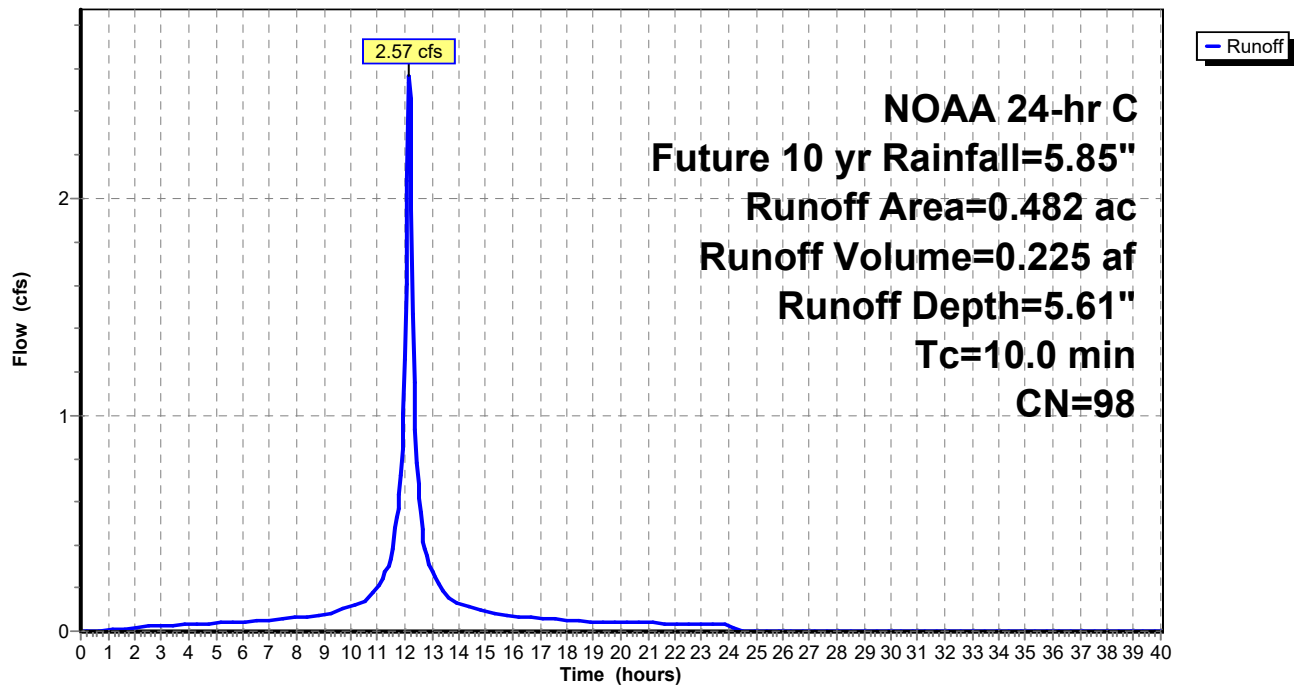
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 NOAA 24-hr C Future 10 yr Rainfall=5.85"

Area (ac)	CN	Description
* 0.000	98	Pavement, HSG C
* 0.482	98	Roof, HSG C
* 0.000	98	Concrete, HSG C
0.482	98	Weighted Average
0.482		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.0					Direct Entry,

Subcatchment 8I: PDA-8 (impervious)

Hydrograph



Summary for Subcatchment 8P: PDA-8 (pervious)

Runoff = 5.44 cfs @ 12.18 hrs, Volume= 0.410 af, Depth= 3.06"
 Routed to Pond B-8 : Basin #8

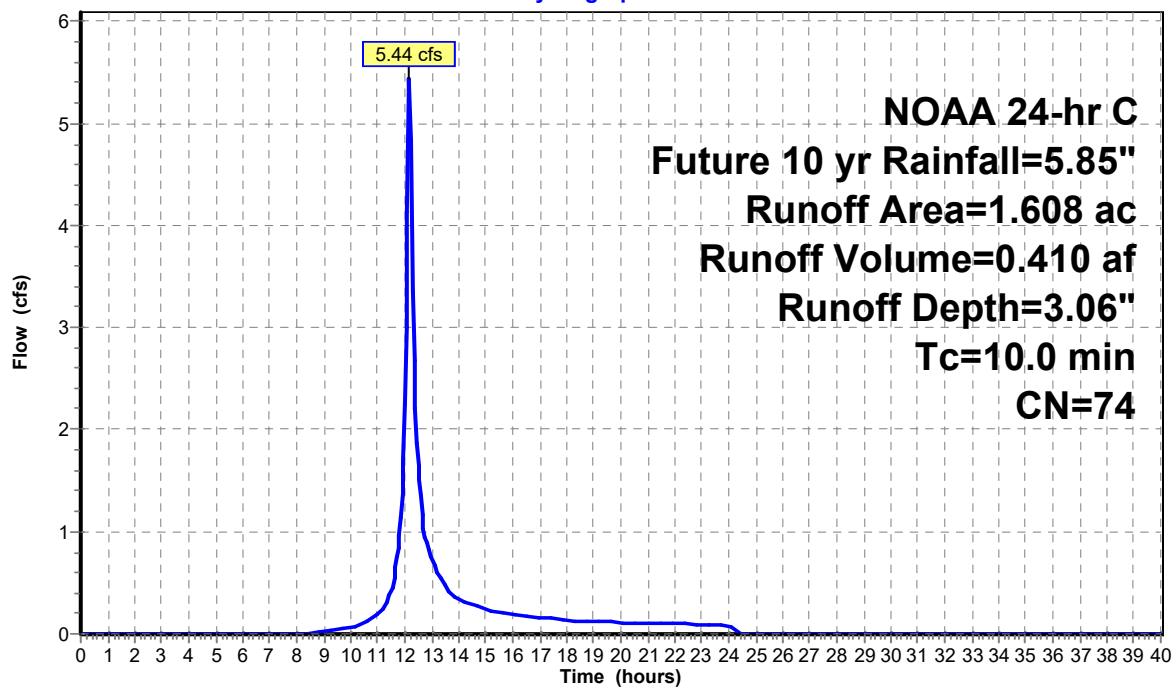
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 NOAA 24-hr C Future 10 yr Rainfall=5.85"

Area (ac)	CN	Description
1.608	74	>75% Grass cover, Good, HSG C
1.608		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.0					Direct Entry,

Subcatchment 8P: PDA-8 (pervious)

Hydrograph



Summary for Subcatchment 9I: PDA-9 (impervious)

Runoff = 4.22 cfs @ 12.17 hrs, Volume= 0.370 af, Depth= 5.61"
 Routed to Pond B-9 : Basin #9

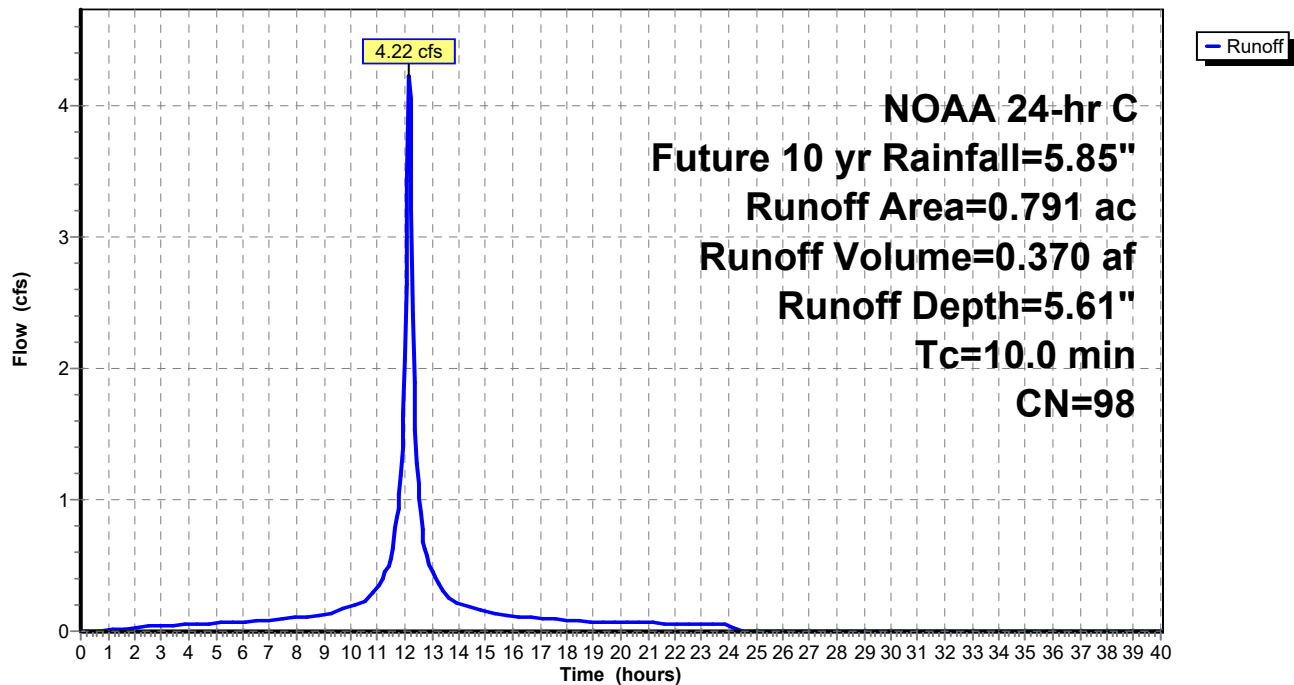
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 NOAA 24-hr C Future 10 yr Rainfall=5.85"

Area (ac)	CN	Description
* 0.286	98	Pavement, HSG C
* 0.450	98	Roof, HSG C
* 0.055	98	Concrete, HSG C
0.791	98	Weighted Average
0.791		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.0					Direct Entry,

Subcatchment 9I: PDA-9 (impervious)

Hydrograph



Summary for Subcatchment 9P: PDA-9 (pervious)

Runoff = 2.41 cfs @ 12.18 hrs, Volume= 0.182 af, Depth= 3.06"
 Routed to Pond B-9 : Basin #9

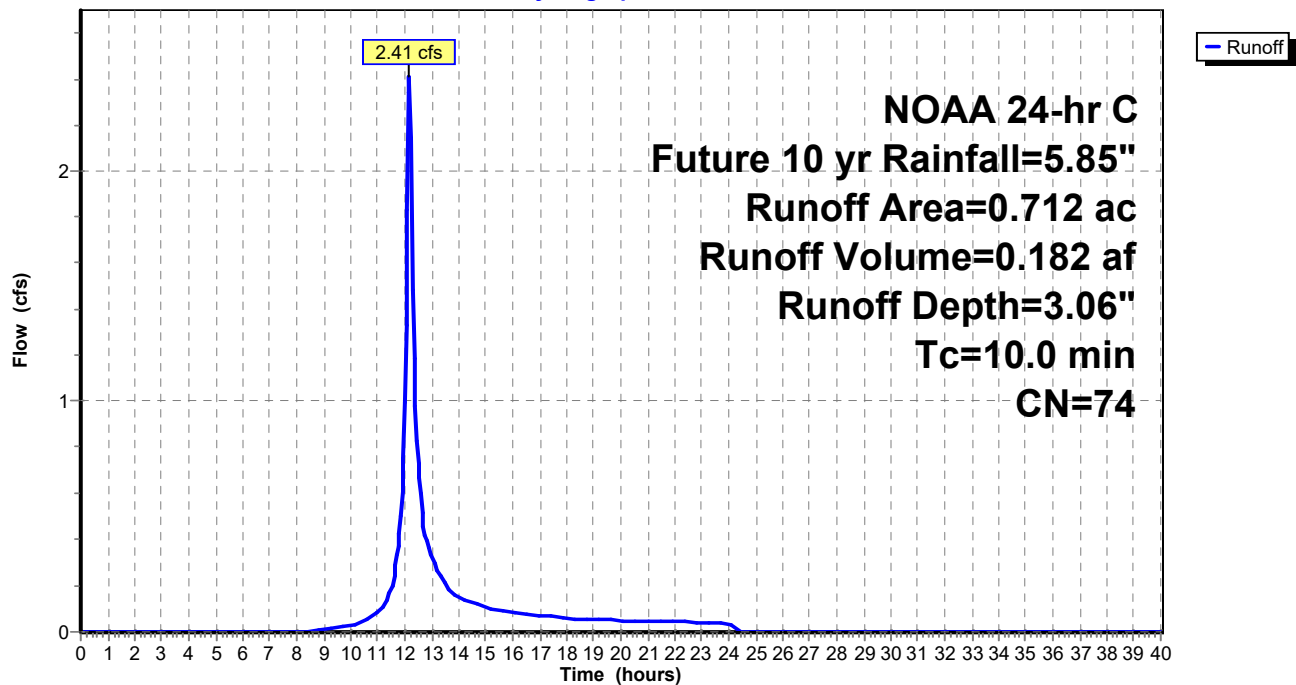
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 NOAA 24-hr C Future 10 yr Rainfall=5.85"

Area (ac)	CN	Description
0.712	74	>75% Grass cover, Good, HSG C
0.712		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.0					Direct Entry,

Subcatchment 9P: PDA-9 (pervious)

Hydrograph



Summary for Subcatchment 10I: PDA-10 (impervious)

Runoff = 5.06 cfs @ 12.17 hrs, Volume= 0.443 af, Depth= 5.61"
 Routed to Pond B-10 : Basin #10

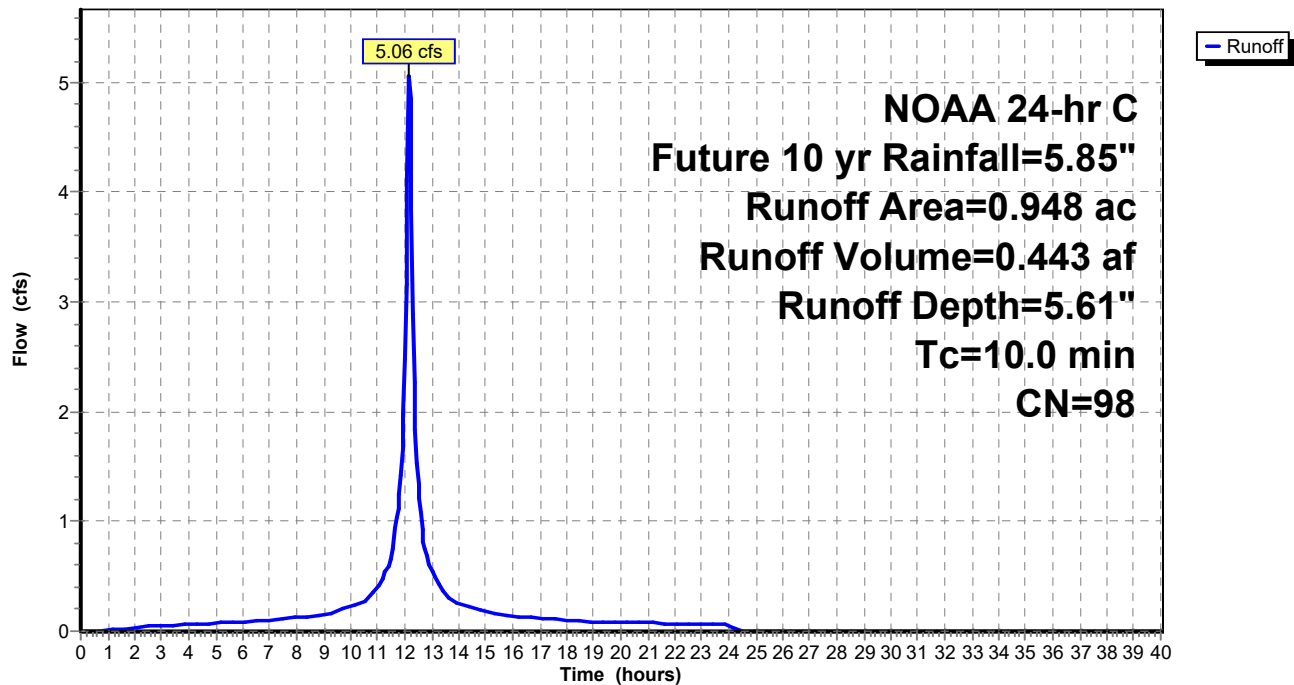
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 NOAA 24-hr C Future 10 yr Rainfall=5.85"

Area (ac)	CN	Description
* 0.570	98	Pavement, HSG C
* 0.321	98	Roof, HSG C
* 0.057	98	Concrete, HSG C
0.948	98	Weighted Average
0.948		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.0					Direct Entry,

Subcatchment 10I: PDA-10 (impervious)

Hydrograph



Summary for Subcatchment 10P: PDA-10 (pervious)

Runoff = 2.45 cfs @ 12.18 hrs, Volume= 0.185 af, Depth= 3.06"
 Routed to Pond B-10 : Basin #10

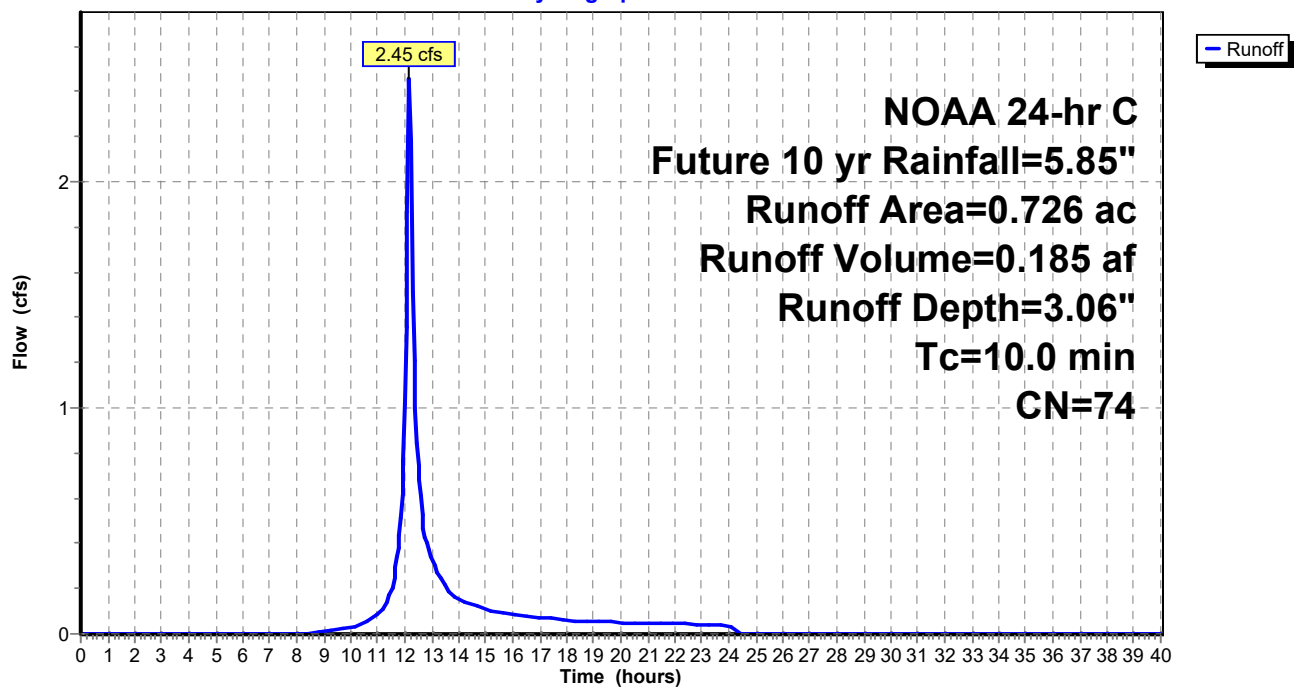
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 NOAA 24-hr C Future 10 yr Rainfall=5.85"

Area (ac)	CN	Description
0.726	74	>75% Grass cover, Good, HSG C
0.726		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.0					Direct Entry,

Subcatchment 10P: PDA-10 (pervious)

Hydrograph



Summary for Subcatchment 11I: PDA-11 (impervious)

Runoff = 6.96 cfs @ 12.17 hrs, Volume= 0.610 af, Depth= 5.61"
 Routed to Pond B-11 : Basin #11

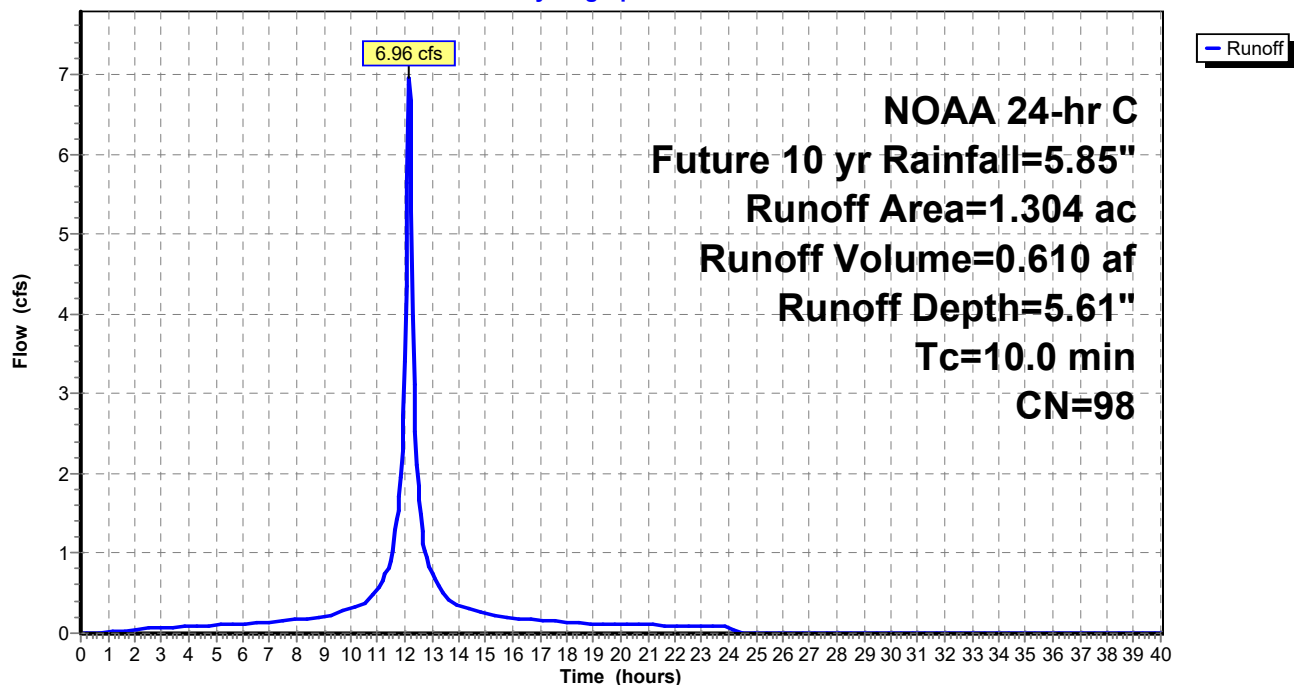
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 NOAA 24-hr C Future 10 yr Rainfall=5.85"

Area (ac)	CN	Description
* 0.166	98	Concrete, HSG C
0.231	98	Roofs, HSG C
0.907	98	Paved roads w/curbs & sewers, HSG C
1.304	98	Weighted Average
1.304		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.0					Direct Entry,

Subcatchment 11I: PDA-11 (impervious)

Hydrograph



Summary for Subcatchment 11P: PDA-11 (pervious)

Runoff = 3.12 cfs @ 12.18 hrs, Volume= 0.236 af, Depth= 3.06"
 Routed to Pond B-11 : Basin #11

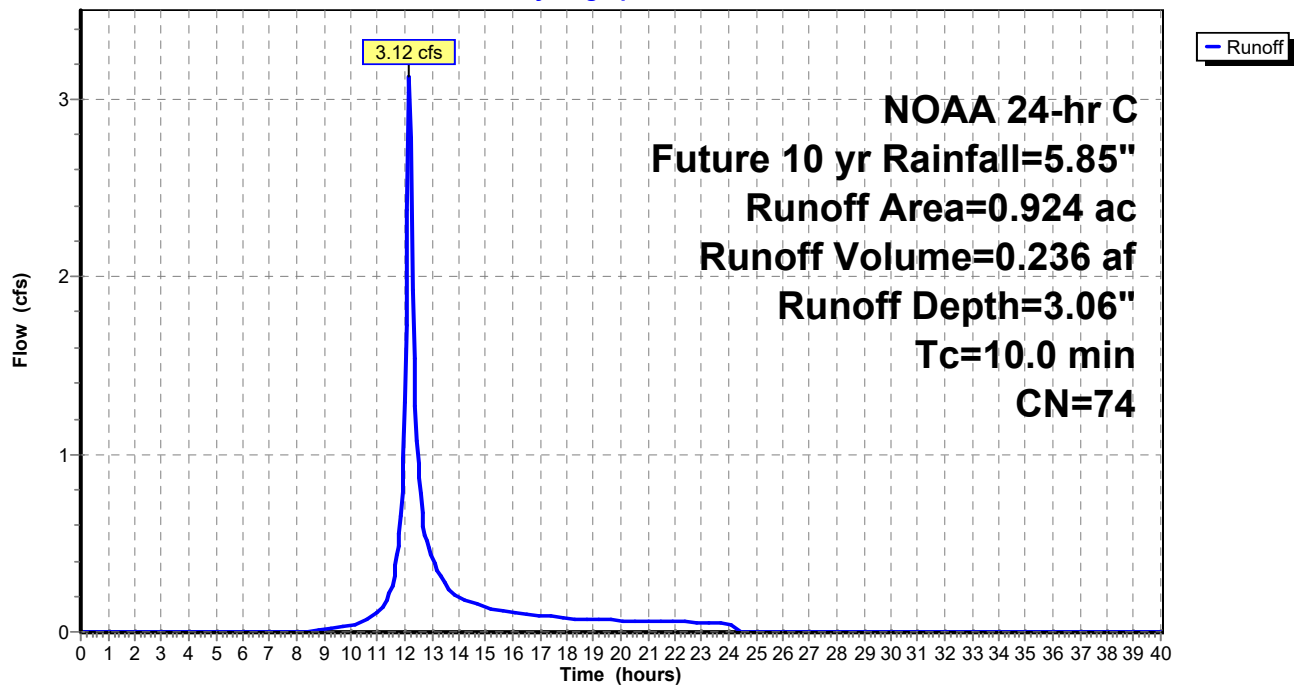
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 NOAA 24-hr C Future 10 yr Rainfall=5.85"

Area (ac)	CN	Description
0.924	74	>75% Grass cover, Good, HSG C
0.924		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.0					Direct Entry,

Subcatchment 11P: PDA-11 (pervious)

Hydrograph



Summary for Subcatchment 12I: PDA-12 (impervious)

Runoff = 5.79 cfs @ 12.17 hrs, Volume= 0.508 af, Depth= 5.61"
 Routed to Pond B-12 : Basin #12

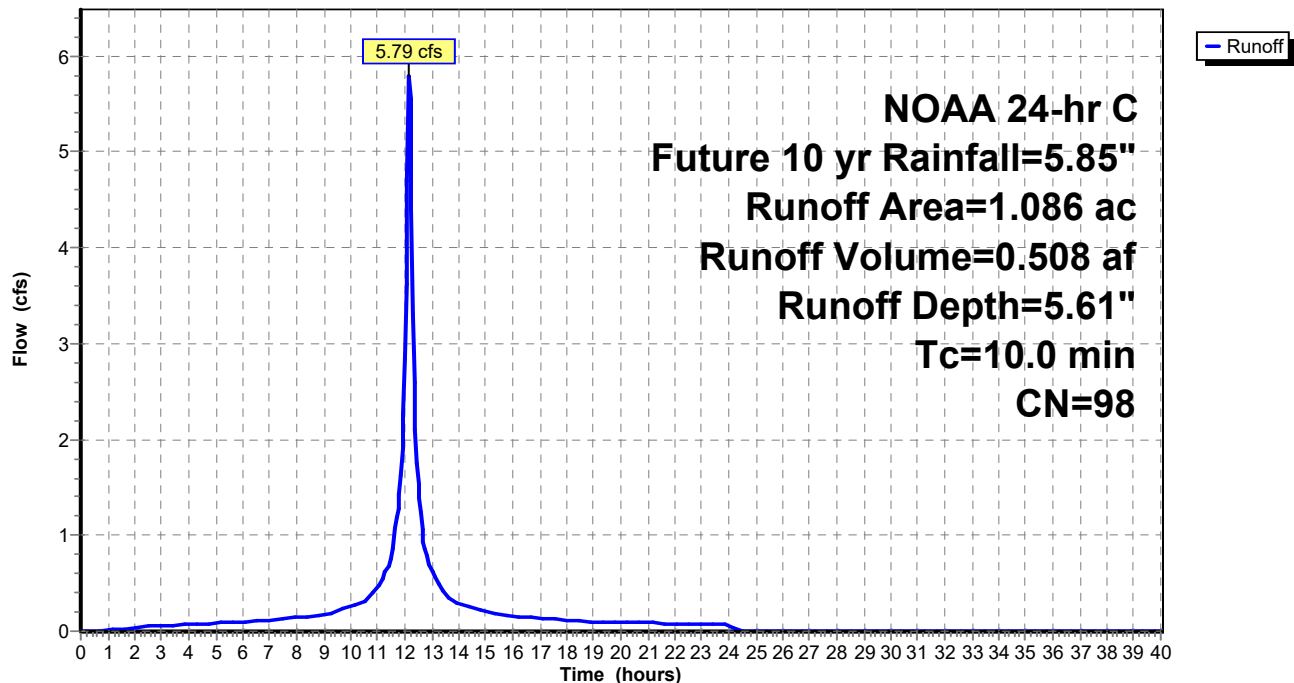
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 NOAA 24-hr C Future 10 yr Rainfall=5.85"

Area (ac)	CN	Description
* 0.404	98	Pavement, HSG C
* 0.643	98	Roof, HSG C
* 0.039	98	Concrete, HSG C
1.086	98	Weighted Average
1.086		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.0					Direct Entry,

Subcatchment 12I: PDA-12 (impervious)

Hydrograph



Summary for Subcatchment 12P: PDA-12 (pervious)

Runoff = 4.53 cfs @ 12.18 hrs, Volume= 0.342 af, Depth= 3.06"
 Routed to Pond B-12 : Basin #12

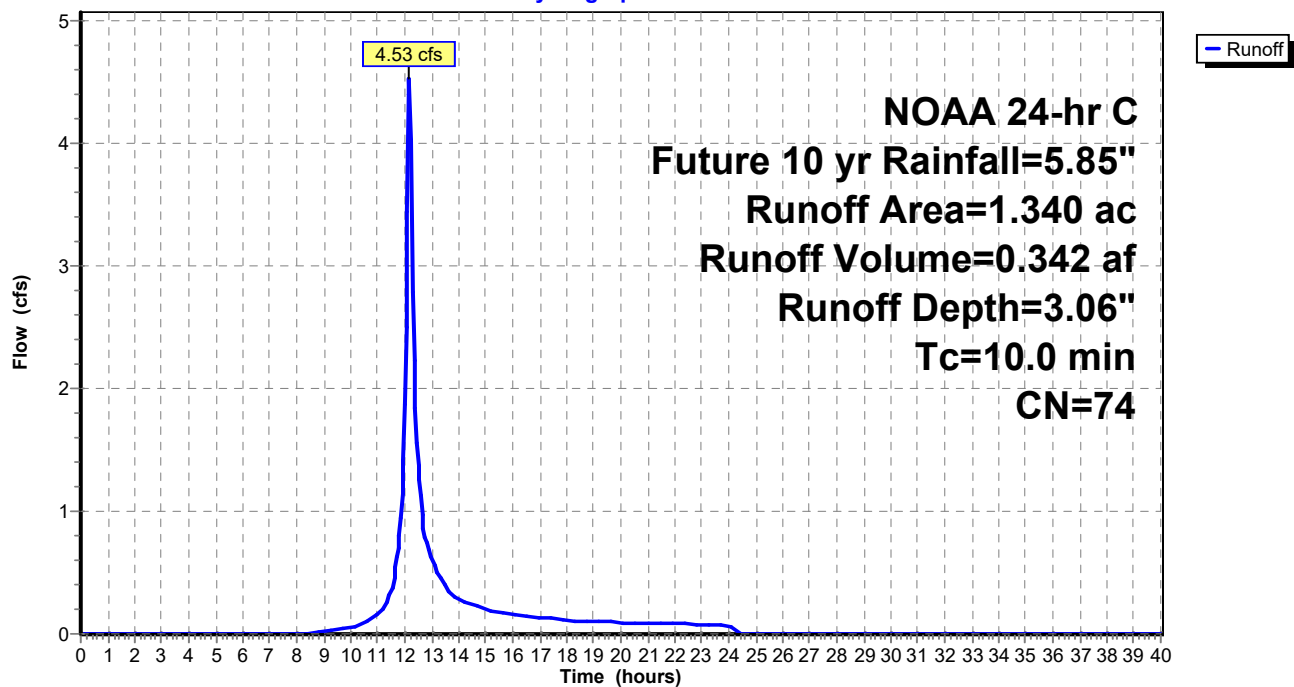
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 NOAA 24-hr C Future 10 yr Rainfall=5.85"

Area (ac)	CN	Description
1.340	74	>75% Grass cover, Good, HSG C
1.340		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.0					Direct Entry,

Subcatchment 12P: PDA-12 (pervious)

Hydrograph



Summary for Subcatchment 13I: PDA-13 (impervious)

Runoff = 7.83 cfs @ 12.17 hrs, Volume= 0.686 af, Depth= 5.61"
 Routed to Pond B-13 : Basin #13

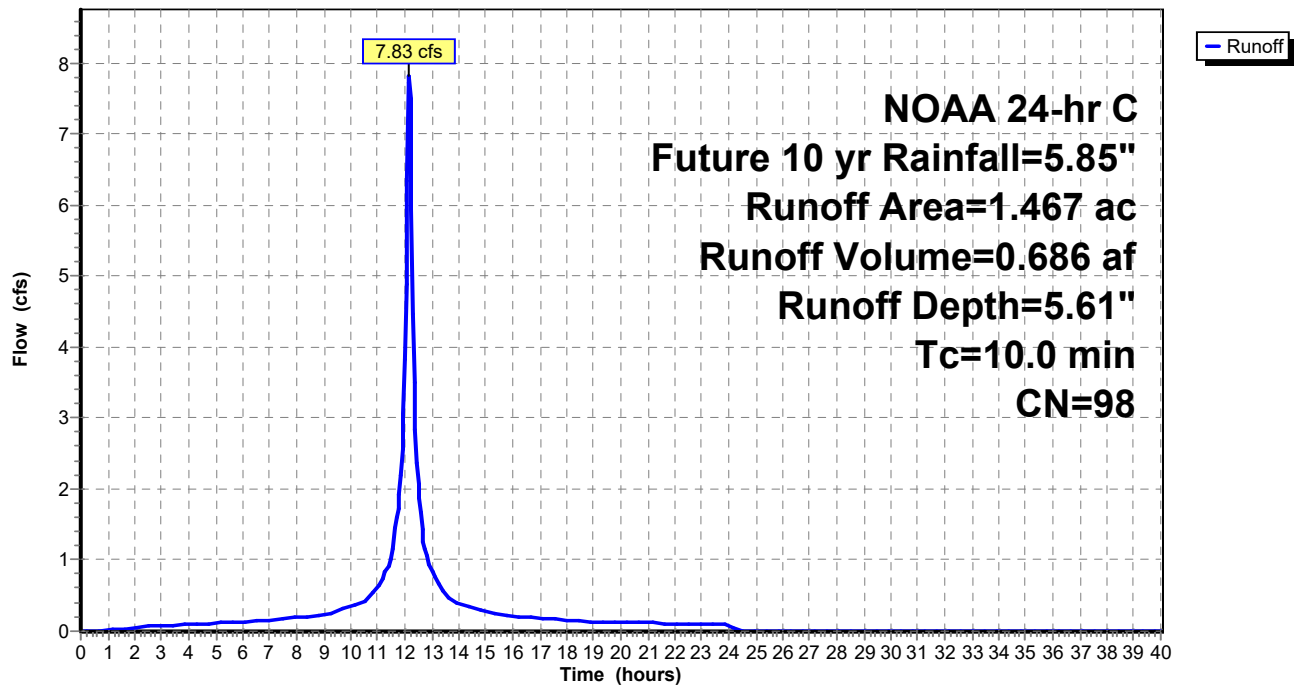
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 NOAA 24-hr C Future 10 yr Rainfall=5.85"

Area (ac)	CN	Description
* 0.678	98	Pavement, HSG C
* 0.707	98	Roof, HSG C
* 0.082	98	Concrete, HSG C
1.467	98	Weighted Average
1.467		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.0					Direct Entry,

Subcatchment 13I: PDA-13 (impervious)

Hydrograph



Summary for Subcatchment 13P: PDA-13 (pervious)

Runoff = 2.99 cfs @ 12.18 hrs, Volume= 0.225 af, Depth= 3.06"
 Routed to Pond B-13 : Basin #13

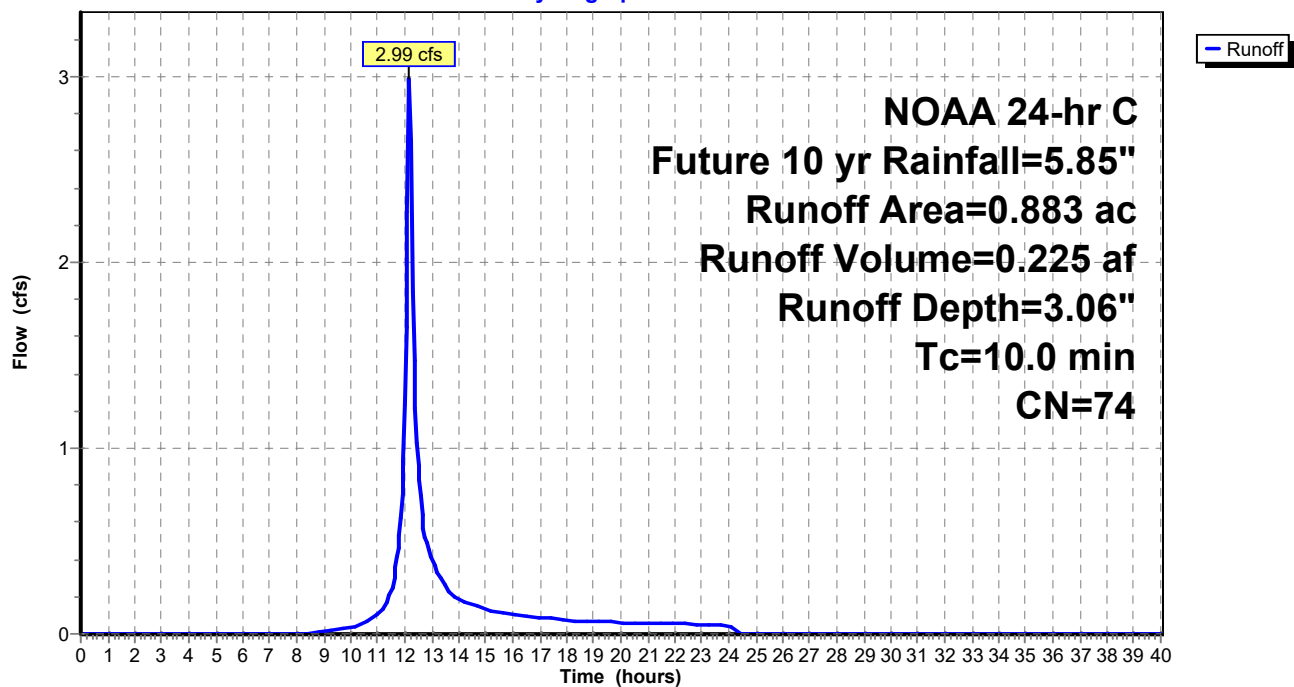
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 NOAA 24-hr C Future 10 yr Rainfall=5.85"

Area (ac)	CN	Description
0.883	74	>75% Grass cover, Good, HSG C
0.883		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.0					Direct Entry,

Subcatchment 13P: PDA-13 (pervious)

Hydrograph



Summary for Subcatchment 14I: PDA-14 (impervious)

Runoff = 2.71 cfs @ 12.17 hrs, Volume= 0.238 af, Depth= 5.61"
 Routed to Pond B-14 : Basin #14

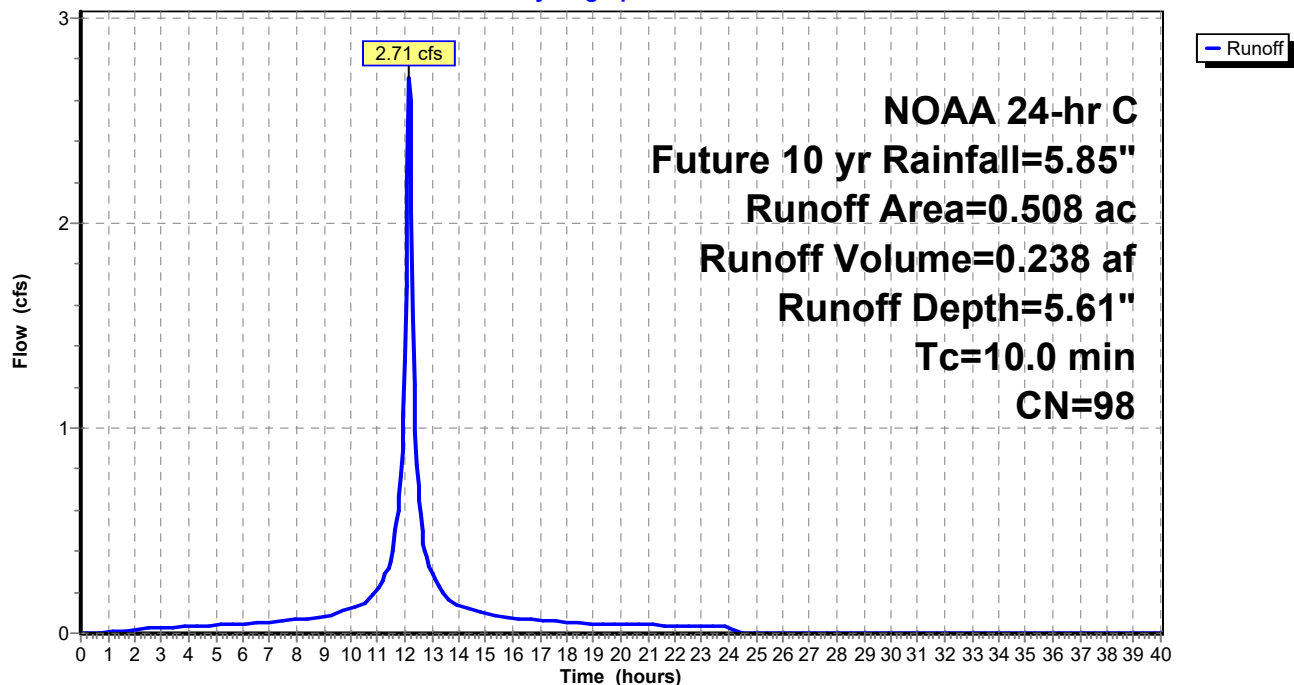
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 NOAA 24-hr C Future 10 yr Rainfall=5.85"

Area (ac)	CN	Description
* 0.308	98	Pavement, HSG C
* 0.064	98	Roof, HSG C
* 0.136	98	Concrete, HSG C
0.508	98	Weighted Average
0.508		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.0					Direct Entry,

Subcatchment 14I: PDA-14 (impervious)

Hydrograph



Summary for Subcatchment 14P: PDA-14 (pervious)

Runoff = 5.55 cfs @ 12.18 hrs, Volume= 0.418 af, Depth= 3.06"
 Routed to Pond B-14 : Basin #14

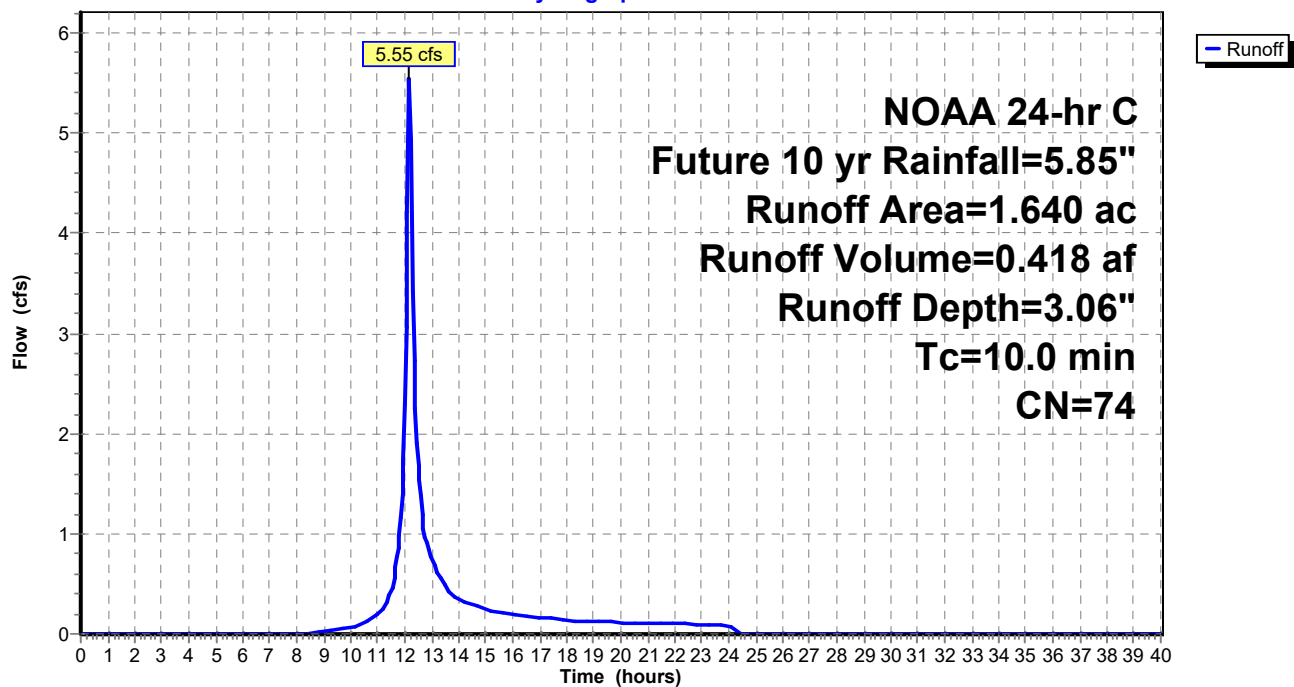
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 NOAA 24-hr C Future 10 yr Rainfall=5.85"

Area (ac)	CN	Description
1.640	74	>75% Grass cover, Good, HSG C
1.640		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.0					Direct Entry,

Subcatchment 14P: PDA-14 (pervious)

Hydrograph



Summary for Subcatchment 15I: PDA-15 (impervious)

Runoff = 7.41 cfs @ 12.17 hrs, Volume= 0.650 af, Depth= 5.61"
 Routed to Pond B-15 : Basin #15

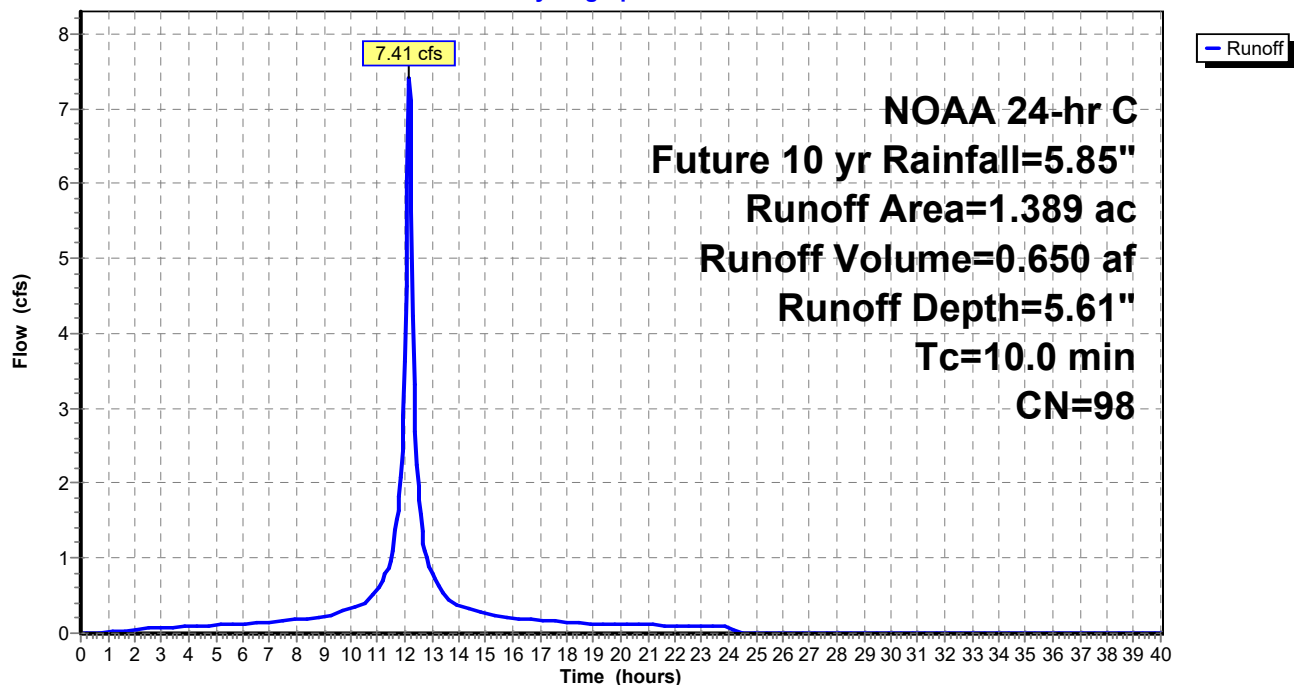
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 NOAA 24-hr C Future 10 yr Rainfall=5.85"

Area (ac)	CN	Description
* 0.501	98	Pavement, HSG C
* 0.836	98	Roof, HSG C
* 0.052	98	Concrete, HSG C
1.389	98	Weighted Average
1.389		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.0					Direct Entry,

Subcatchment 15I: PDA-15 (impervious)

Hydrograph



Summary for Subcatchment 15P: PDA-15 (pervious)

Runoff = 3.30 cfs @ 12.18 hrs, Volume= 0.249 af, Depth= 3.06"
 Routed to Pond B-15 : Basin #15

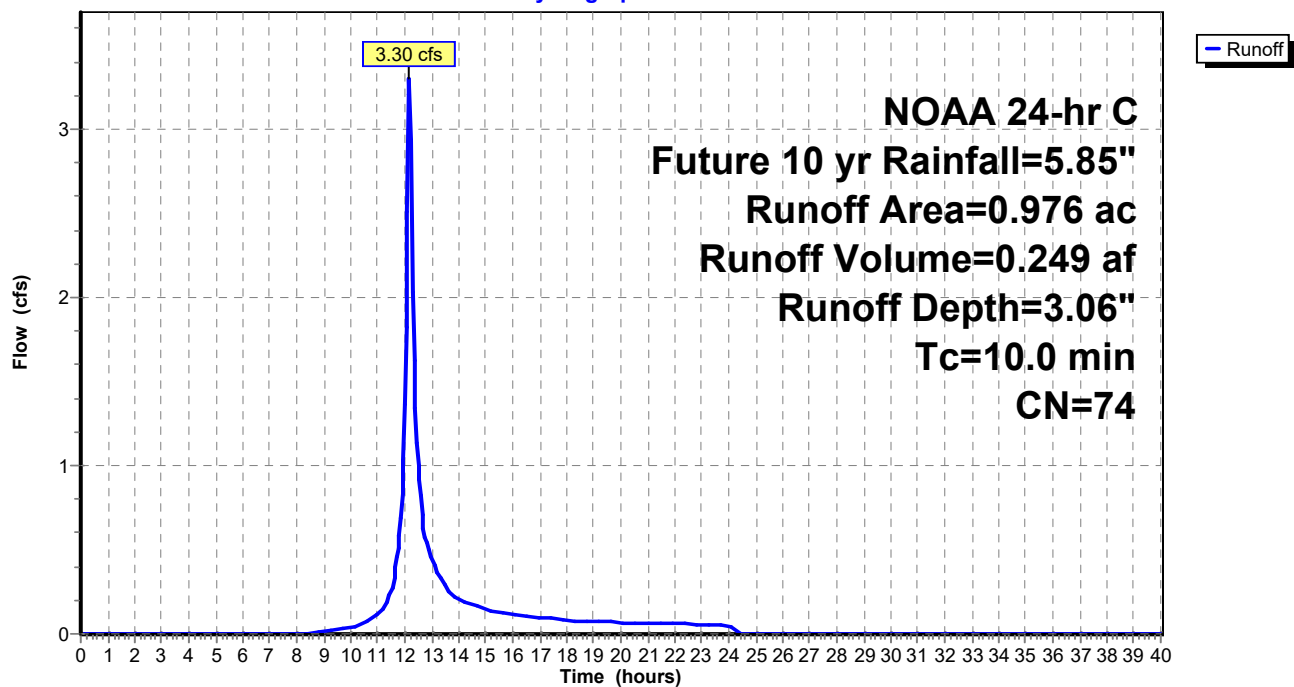
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 NOAA 24-hr C Future 10 yr Rainfall=5.85"

Area (ac)	CN	Description
0.976	74	>75% Grass cover, Good, HSG C
0.976		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.0					Direct Entry,

Subcatchment 15P: PDA-15 (pervious)

Hydrograph



Summary for Subcatchment 16A1: PDA-16A (impervious)

Runoff = 4.55 cfs @ 12.17 hrs, Volume= 0.399 af, Depth= 5.61"
 Routed to Pond B-16A : Basin #16A

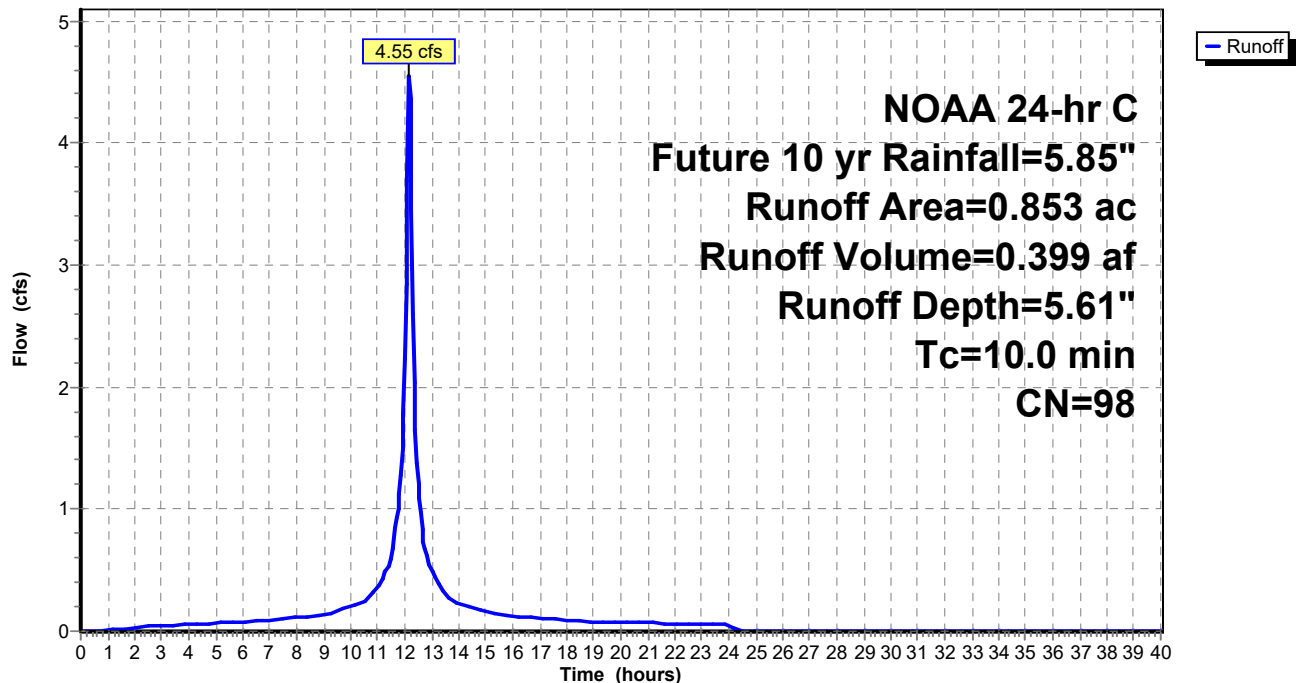
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 NOAA 24-hr C Future 10 yr Rainfall=5.85"

Area (ac)	CN	Description
* 0.072	98	Pavement, HSG C
* 0.771	98	Roof, HSG C
* 0.010	98	Concrete, HSG C
0.853	98	Weighted Average
0.853		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.0					Direct Entry,

Subcatchment 16A1: PDA-16A (impervious)

Hydrograph



Summary for Subcatchment 16AP: PDA-16A (pervious)

Runoff = 3.46 cfs @ 12.18 hrs, Volume= 0.261 af, Depth= 3.06"
 Routed to Pond B-16A : Basin #16A

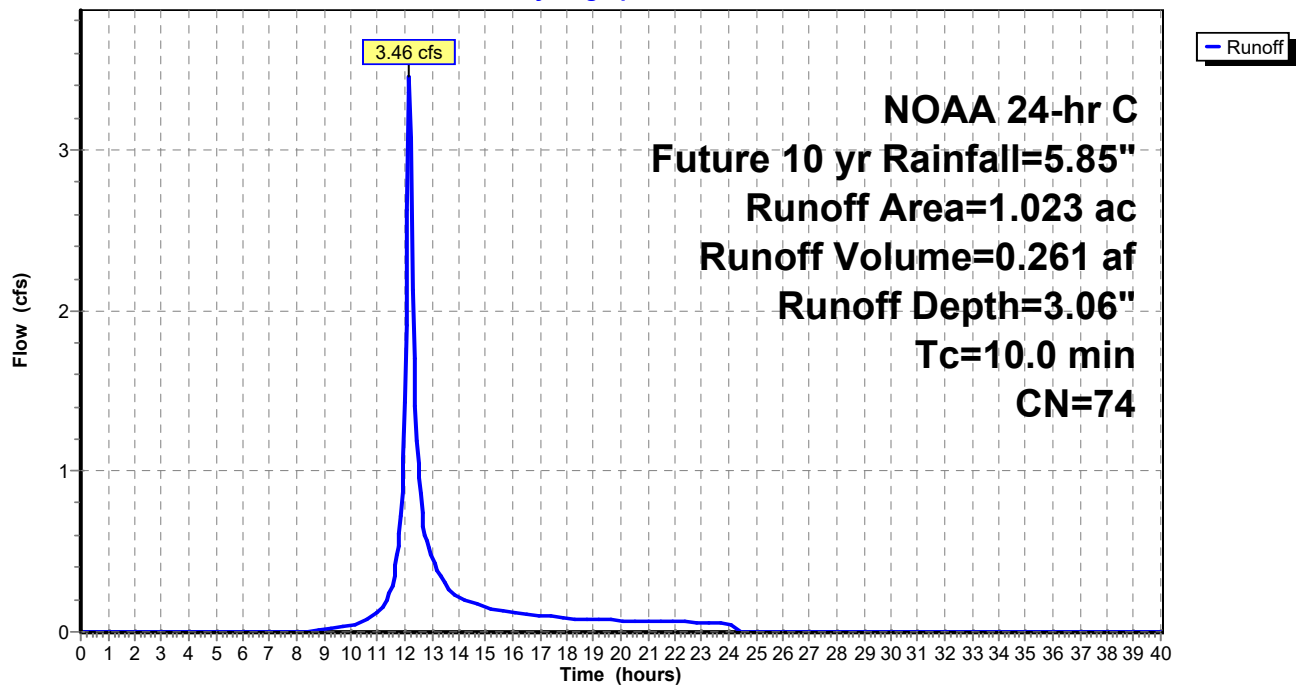
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 NOAA 24-hr C Future 10 yr Rainfall=5.85"

Area (ac)	CN	Description
1.023	74	>75% Grass cover, Good, HSG C
1.023		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.0					Direct Entry,

Subcatchment 16AP: PDA-16A (pervious)

Hydrograph



Summary for Subcatchment 16BI: PDA-16B (impervious)

Runoff = 4.38 cfs @ 12.17 hrs, Volume= 0.384 af, Depth= 5.61"
 Routed to Pond B-16B : Basin #16B

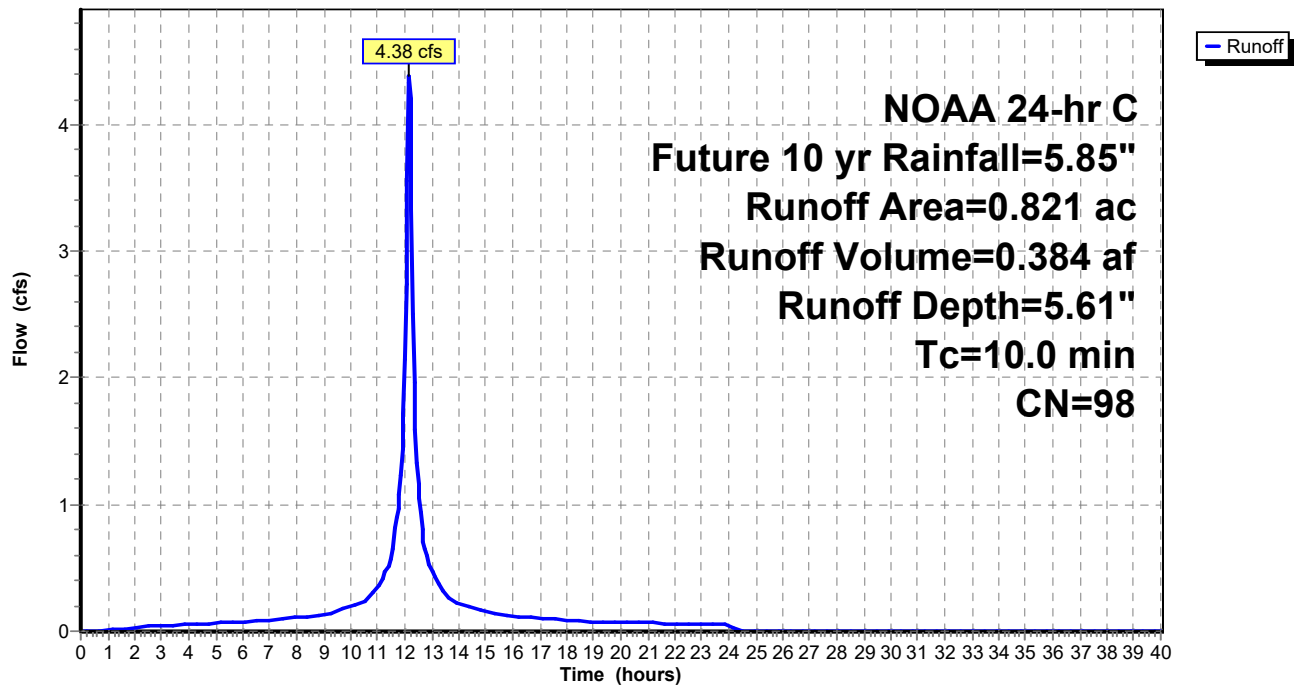
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 NOAA 24-hr C Future 10 yr Rainfall=5.85"

Area (ac)	CN	Description
* 0.621	98	Pavement, HSG C
* 0.064	98	Roof, HSG C
* 0.136	98	Concrete, HSG C
0.821	98	Weighted Average
0.821		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.0					Direct Entry,

Subcatchment 16BI: PDA-16B (impervious)

Hydrograph



Summary for Subcatchment 16BP: PDA-16B (pervious)

Runoff = 3.57 cfs @ 12.18 hrs, Volume= 0.269 af, Depth= 3.06"
 Routed to Pond B-16B : Basin #16B

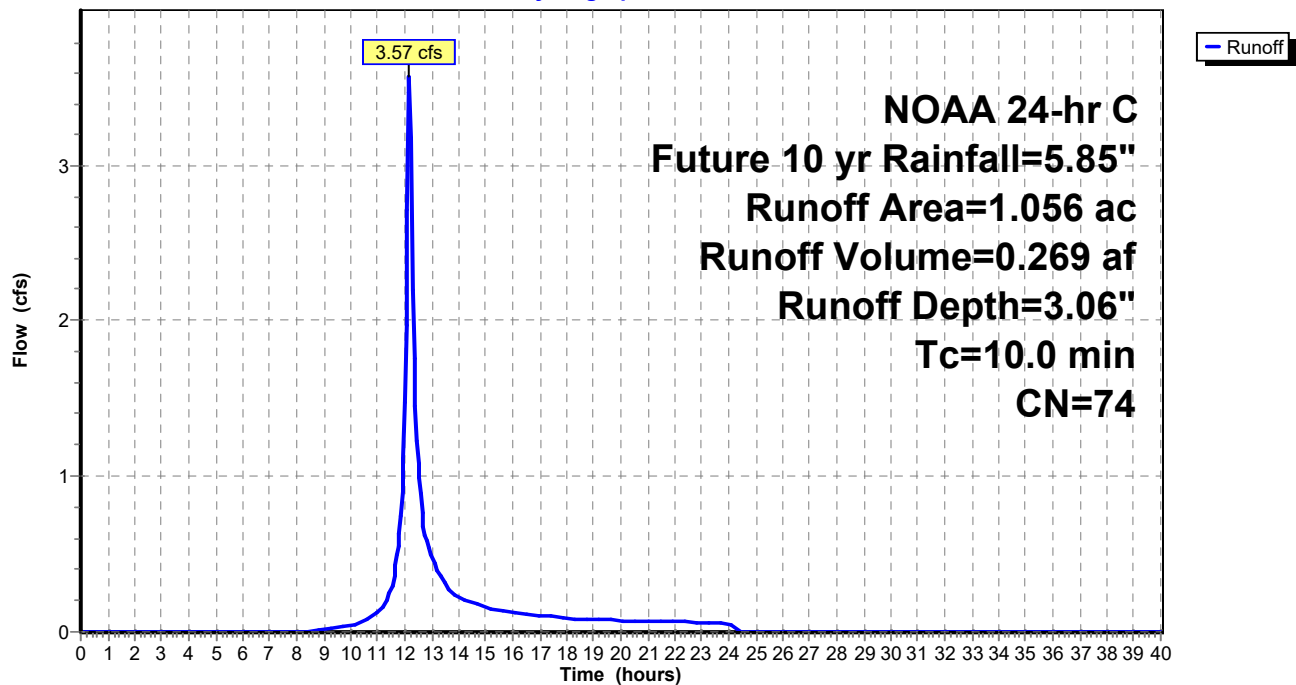
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 NOAA 24-hr C Future 10 yr Rainfall=5.85"

Area (ac)	CN	Description
1.056	74	>75% Grass cover, Good, HSG C
1.056		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.0					Direct Entry,

Subcatchment 16BP: PDA-16B (pervious)

Hydrograph



Summary for Subcatchment 17A1: PDA-17A (impervious)

Runoff = 1.03 cfs @ 12.17 hrs, Volume= 0.090 af, Depth= 5.61"
 Routed to Pond B-17A : Basin #17A

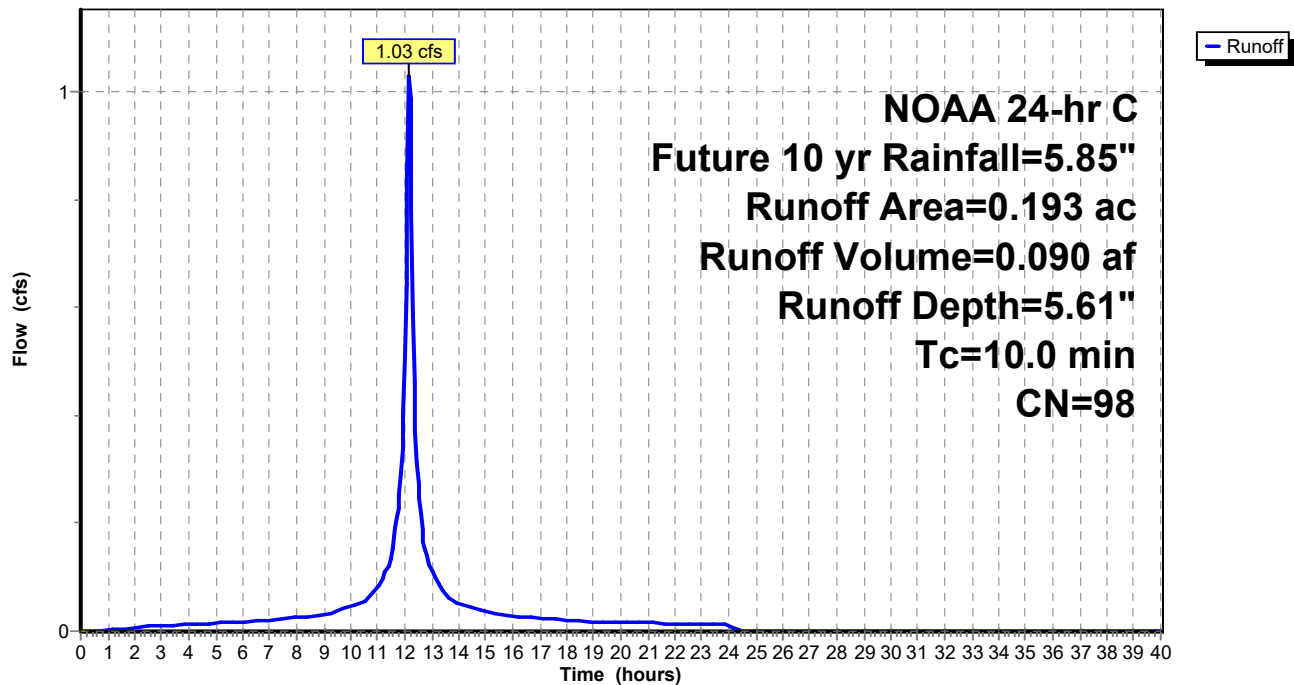
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 NOAA 24-hr C Future 10 yr Rainfall=5.85"

Area (ac)	CN	Description
* 0.193	98	Roof, HSG C
0.000	98	Paved roads w/curbs & sewers, HSG C
* 0.000	98	Concrete, HSG C
0.193	98	Weighted Average
0.193		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.0					Direct Entry,

Subcatchment 17A1: PDA-17A (impervious)

Hydrograph



Summary for Subcatchment 17AP: PDA-17A (pervious)

Runoff = 3.82 cfs @ 12.18 hrs, Volume= 0.288 af, Depth= 3.06"
 Routed to Pond B-17A : Basin #17A

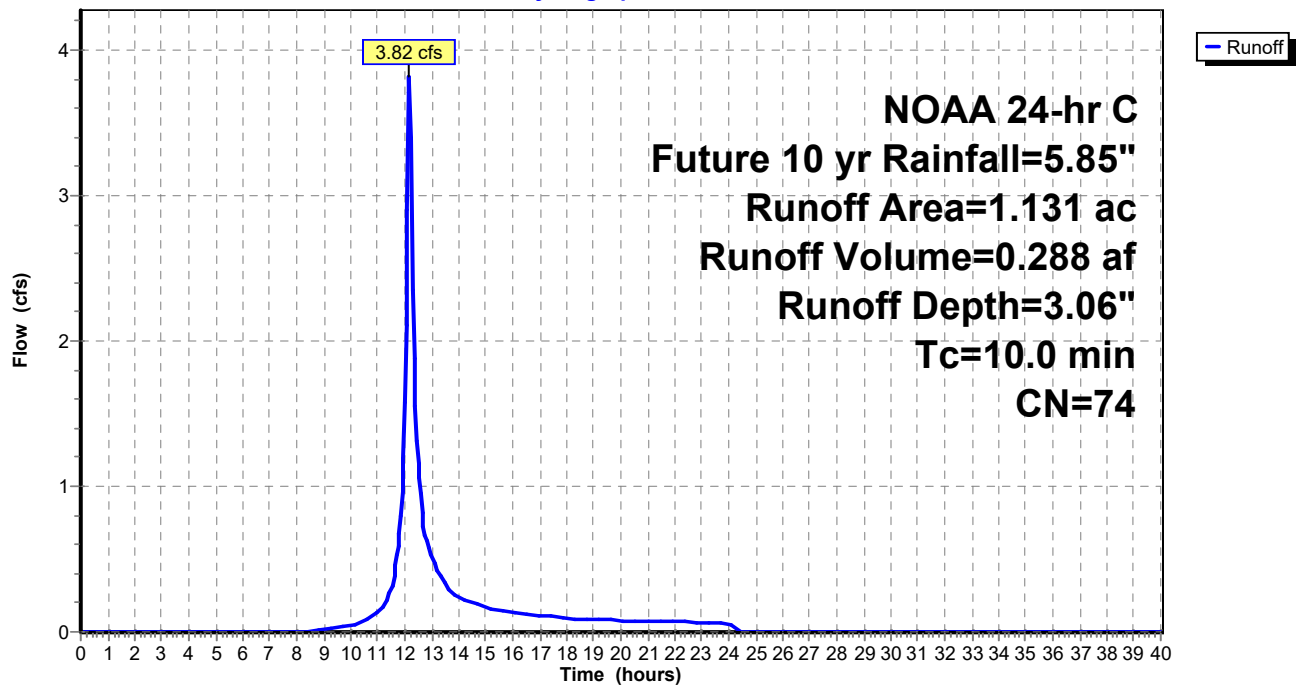
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 NOAA 24-hr C Future 10 yr Rainfall=5.85"

Area (ac)	CN	Description
1.131	74	>75% Grass cover, Good, HSG C
1.131		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.0					Direct Entry,

Subcatchment 17AP: PDA-17A (pervious)

Hydrograph



Summary for Subcatchment 17BI: PDA-17B (impervious)

Runoff = 2.74 cfs @ 12.17 hrs, Volume= 0.240 af, Depth= 5.61"
 Routed to Pond B-17B : Basin #17B

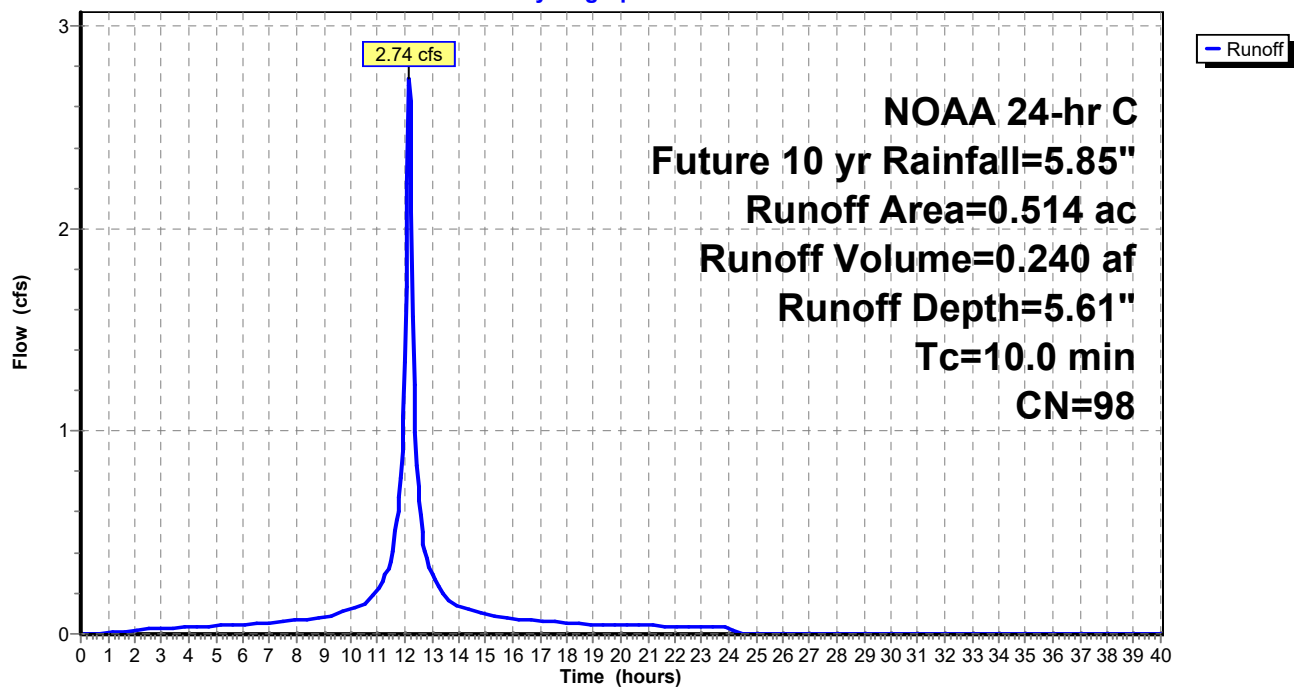
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 NOAA 24-hr C Future 10 yr Rainfall=5.85"

Area (ac)	CN	Description
* 0.514	98	Roof, HSG C
0.514		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.0					Direct Entry,

Subcatchment 17BI: PDA-17B (impervious)

Hydrograph



Summary for Subcatchment 17BP: PDA-17B (pervious)

Runoff = 2.94 cfs @ 12.18 hrs, Volume= 0.222 af, Depth= 3.06"
 Routed to Pond B-17B : Basin #17B

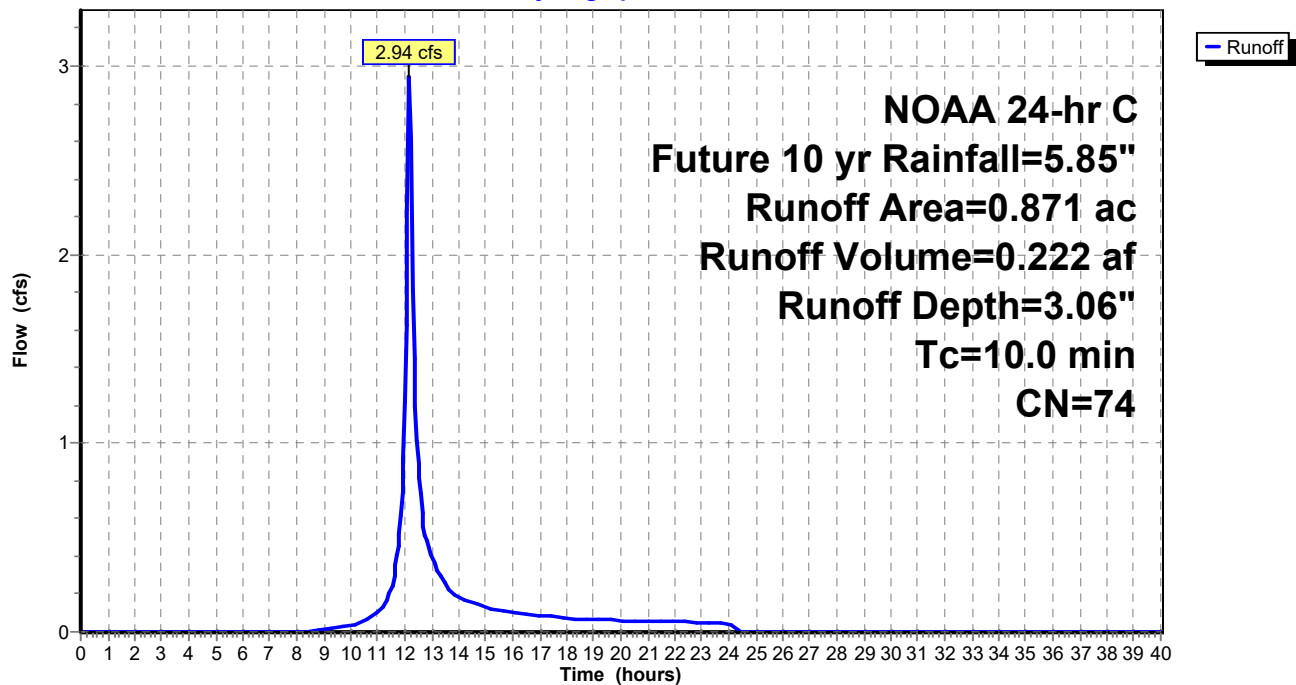
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 NOAA 24-hr C Future 10 yr Rainfall=5.85"

Area (ac)	CN	Description
0.871	74	>75% Grass cover, Good, HSG C
0.871		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.0					Direct Entry,

Subcatchment 17BP: PDA-17B (pervious)

Hydrograph



Summary for Subcatchment UPDA-1: PDA-1 (undetained)

Runoff = 184.85 cfs @ 12.18 hrs, Volume= 13.937 af, Depth= 3.06"

Routed to Link PDA-1 : Proposed Drainage Area #1

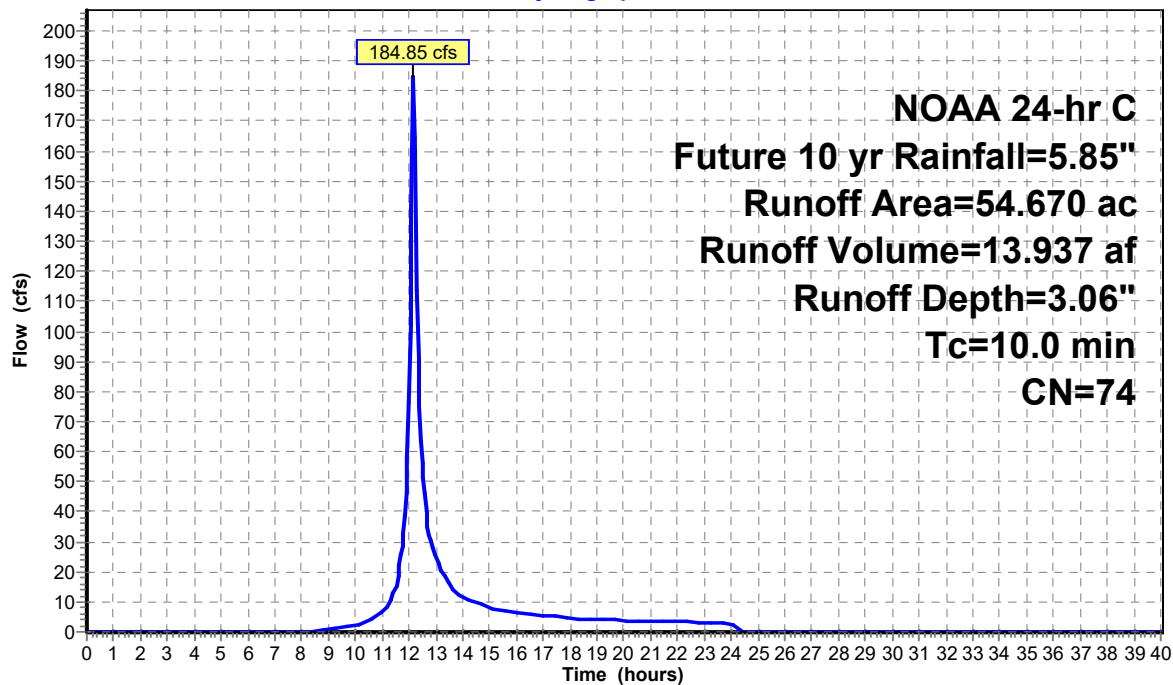
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 NOAA 24-hr C Future 10 yr Rainfall=5.85"

Area (ac)	CN	Description
54.670	74	>75% Grass cover, Good, HSG C
54.670		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.0					Direct Entry,

Subcatchment UPDA-1: PDA-1 (undetained)

Hydrograph



Summary for Pond B-1: Basin #1

Inflow Area = 2.782 ac, 26.02% Impervious, Inflow Depth = 1.32" for Future 10 yr event
 Inflow = 3.00 cfs @ 12.18 hrs, Volume= 0.305 af
 Outflow = 0.20 cfs @ 20.35 hrs, Volume= 0.229 af, Atten= 93%, Lag= 490.6 min
 Primary = 0.20 cfs @ 20.35 hrs, Volume= 0.229 af
 Routed to Link PDA-1 : Proposed Drainage Area #1

Routing by Stor-Ind method, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 Peak Elev= 209.71' @ 20.35 hrs Surf.Area= 10,854 sf Storage= 7,422 cf

Plug-Flow detention time= 609.8 min calculated for 0.229 af (75% of inflow)
 Center-of-Mass det. time= 492.2 min (1,431.4 - 939.2)

Volume	Invert	Avail.Storage	Storage Description
#1	209.00'	34,903 cf	Custom Stage Data (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
209.00	10,187	0	0
210.00	11,133	10,660	10,660
211.00	12,113	11,623	22,283
212.00	13,126	12,620	34,903

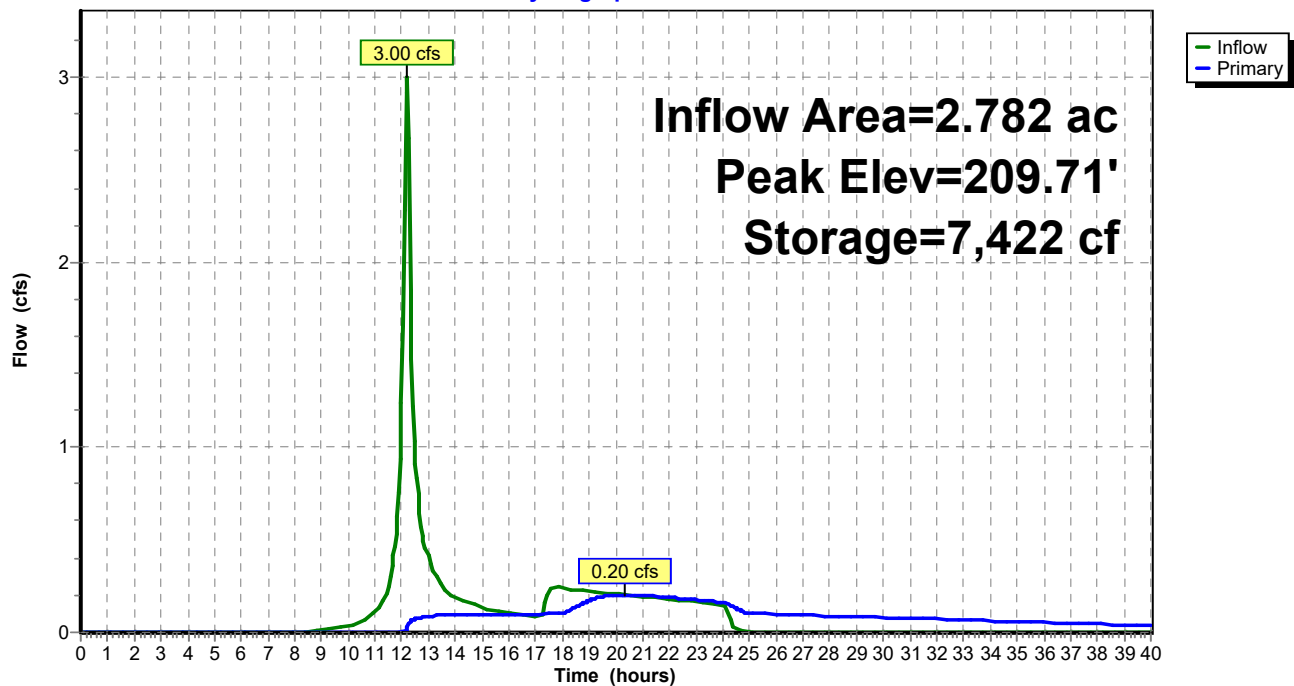
Device	Routing	Invert	Outlet Devices
#1	Primary	207.65'	18.0" Round Culvert L= 276.0' Ke= 0.500 Inlet / Outlet Invert= 207.65' / 204.00' S= 0.0132 '/' Cc= 0.900 n= 0.013, Flow Area= 1.77 sf
#2	Device 1	209.17'	2.5" Vert. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#3	Device 1	209.67'	4.0' long Sharp-Crested Rectangular Weir 2 End Contraction(s)
#4	Primary	210.80'	50.0' long + 3.0 ' SideZ x 5.0' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 Coef. (English) 2.34 2.50 2.70 2.68 2.68 2.66 2.65 2.65 2.65 2.65 2.67 2.66 2.68 2.70 2.74 2.79 2.88

Primary OutFlow Max=0.19 cfs @ 20.35 hrs HW=209.71' (Free Discharge)

1=Culvert (Passes 0.19 cfs of 9.72 cfs potential flow)
 2=Orifice/Grate (Orifice Controls 0.11 cfs @ 3.16 fps)
 3=Sharp-Crested Rectangular Weir(Weir Controls 0.09 cfs @ 0.62 fps)
 4=Broad-Crested Rectangular Weir(Controls 0.00 cfs)

Pond B-1: Basin #1

Hydrograph



Stage-Discharge for Pond B-1: Basin #1

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
209.00	0.00	209.52	0.08	210.04	3.03	210.56	10.68
209.01	0.00	209.53	0.08	210.05	3.15	210.57	10.85
209.02	0.00	209.54	0.08	210.06	3.27	210.58	11.03
209.03	0.00	209.55	0.09	210.07	3.39	210.59	11.20
209.04	0.00	209.56	0.09	210.08	3.51	210.60	11.37
209.05	0.00	209.57	0.09	210.09	3.63	210.61	11.55
209.06	0.00	209.58	0.09	210.10	3.76	210.62	11.73
209.07	0.00	209.59	0.09	210.11	3.88	210.63	11.90
209.08	0.00	209.60	0.09	210.12	4.01	210.64	12.08
209.09	0.00	209.61	0.10	210.13	4.14	210.65	12.26
209.10	0.00	209.62	0.10	210.14	4.27	210.66	12.44
209.11	0.00	209.63	0.10	210.15	4.40	210.67	12.60
209.12	0.00	209.64	0.10	210.16	4.53	210.68	12.61
209.13	0.00	209.65	0.10	210.17	4.66	210.69	12.63
209.14	0.00	209.66	0.10	210.18	4.80	210.70	12.64
209.15	0.00	209.67	0.10	210.19	4.93	210.71	12.65
209.16	0.00	209.68	0.12	210.20	5.07	210.72	12.66
209.17	0.00	209.69	0.14	210.21	5.21	210.73	12.67
209.18	0.00	209.70	0.17	210.22	5.35	210.74	12.69
209.19	0.00	209.71	0.21	210.23	5.49	210.75	12.70
209.20	0.00	209.72	0.26	210.24	5.63	210.76	12.71
209.21	0.00	209.73	0.30	210.25	5.77	210.77	12.72
209.22	0.00	209.74	0.35	210.26	5.92	210.78	12.73
209.23	0.01	209.75	0.41	210.27	6.06	210.79	12.75
209.24	0.01	209.76	0.47	210.28	6.21	210.80	12.76
209.25	0.01	209.77	0.53	210.29	6.35	210.81	12.89
209.26	0.01	209.78	0.59	210.30	6.50	210.82	13.11
209.27	0.02	209.79	0.66	210.31	6.65	210.83	13.40
209.28	0.02	209.80	0.73	210.32	6.80	210.84	13.74
209.29	0.02	209.81	0.80	210.33	6.95	210.85	14.13
209.30	0.03	209.82	0.88	210.34	7.10	210.86	14.56
209.31	0.03	209.83	0.95	210.35	7.26	210.87	15.02
209.32	0.03	209.84	1.03	210.36	7.41	210.88	15.51
209.33	0.04	209.85	1.11	210.37	7.56	210.89	16.04
209.34	0.04	209.86	1.20	210.38	7.72	210.90	16.60
209.35	0.05	209.87	1.28	210.39	7.88	210.91	17.18
209.36	0.05	209.88	1.37	210.40	8.03	210.92	17.79
209.37	0.05	209.89	1.46	210.41	8.19	210.93	18.43
209.38	0.05	209.90	1.56	210.42	8.35	210.94	19.10
209.39	0.06	209.91	1.65	210.43	8.51	210.95	19.78
209.40	0.06	209.92	1.75	210.44	8.67	210.96	20.50
209.41	0.06	209.93	1.84	210.45	8.84	210.97	21.23
209.42	0.06	209.94	1.94	210.46	9.00	210.98	21.99
209.43	0.06	209.95	2.05	210.47	9.16	210.99	22.76
209.44	0.07	209.96	2.15	210.48	9.33	211.00	23.56
209.45	0.07	209.97	2.25	210.49	9.50	211.01	24.42
209.46	0.07	209.98	2.36	210.50	9.66	211.02	25.31
209.47	0.07	209.99	2.47	210.51	9.83	211.03	26.21
209.48	0.07	210.00	2.58	210.52	10.00	211.04	27.15
209.49	0.08	210.01	2.69	210.53	10.17	211.05	28.11
209.50	0.08	210.02	2.80	210.54	10.34	211.06	29.10
209.51	0.08	210.03	2.92	210.55	10.51	211.07	30.11

Stage-Discharge for Pond B-1: Basin #1 (continued)

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
211.08	31.14	211.60	113.25
211.09	32.20	211.61	115.18
211.10	33.28	211.62	117.13
211.11	34.39	211.63	119.08
211.12	35.53	211.64	121.06
211.13	36.68	211.65	123.04
211.14	37.86	211.66	125.04
211.15	39.07	211.67	127.05
211.16	40.30	211.68	129.07
211.17	41.55	211.69	131.10
211.18	42.83	211.70	133.15
211.19	44.14	211.71	135.22
211.20	45.46	211.72	137.29
211.21	46.84	211.73	139.38
211.22	48.24	211.74	141.48
211.23	49.67	211.75	143.59
211.24	51.13	211.76	145.72
211.25	52.61	211.77	147.85
211.26	54.12	211.78	150.00
211.27	55.65	211.79	152.17
211.28	57.21	211.80	154.34
211.29	58.80	211.81	156.48
211.30	60.41	211.82	158.62
211.31	62.05	211.83	160.78
211.32	63.72	211.84	162.95
211.33	65.41	211.85	165.12
211.34	67.13	211.86	167.31
211.35	68.88	211.87	169.51
211.36	70.65	211.88	171.72
211.37	72.45	211.89	173.94
211.38	74.28	211.90	176.17
211.39	76.13	211.91	178.41
211.40	78.01	211.92	180.66
211.41	79.65	211.93	182.92
211.42	81.30	211.94	185.19
211.43	82.97	211.95	187.48
211.44	84.65	211.96	189.77
211.45	86.34	211.97	192.07
211.46	88.04	211.98	194.38
211.47	89.76	211.99	196.70
211.48	91.49	212.00	199.03
211.49	93.24		
211.50	94.99		
211.51	96.76		
211.52	98.55		
211.53	100.34		
211.54	102.15		
211.55	103.97		
211.56	105.80		
211.57	107.65		
211.58	109.50		
211.59	111.37		

Stage-Area-Storage for Pond B-1: Basin #1

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
209.00	10,187	0	209.52	10,679	5,425
209.01	10,196	102	209.53	10,688	5,532
209.02	10,206	204	209.54	10,698	5,639
209.03	10,215	306	209.55	10,707	5,746
209.04	10,225	408	209.56	10,717	5,853
209.05	10,234	511	209.57	10,726	5,960
209.06	10,244	613	209.58	10,736	6,068
209.07	10,253	715	209.59	10,745	6,175
209.08	10,263	818	209.60	10,755	6,282
209.09	10,272	921	209.61	10,764	6,390
209.10	10,282	1,023	209.62	10,774	6,498
209.11	10,291	1,126	209.63	10,783	6,606
209.12	10,301	1,229	209.64	10,792	6,713
209.13	10,310	1,332	209.65	10,802	6,821
209.14	10,319	1,435	209.66	10,811	6,929
209.15	10,329	1,539	209.67	10,821	7,038
209.16	10,338	1,642	209.68	10,830	7,146
209.17	10,348	1,745	209.69	10,840	7,254
209.18	10,357	1,849	209.70	10,849	7,363
209.19	10,367	1,953	209.71	10,859	7,471
209.20	10,376	2,056	209.72	10,868	7,580
209.21	10,386	2,160	209.73	10,878	7,689
209.22	10,395	2,264	209.74	10,887	7,797
209.23	10,405	2,368	209.75	10,897	7,906
209.24	10,414	2,472	209.76	10,906	8,015
209.25	10,424	2,576	209.77	10,915	8,124
209.26	10,433	2,681	209.78	10,925	8,234
209.27	10,442	2,785	209.79	10,934	8,343
209.28	10,452	2,889	209.80	10,944	8,452
209.29	10,461	2,994	209.81	10,953	8,562
209.30	10,471	3,099	209.82	10,963	8,671
209.31	10,480	3,203	209.83	10,972	8,781
209.32	10,490	3,308	209.84	10,982	8,891
209.33	10,499	3,413	209.85	10,991	9,001
209.34	10,509	3,518	209.86	11,001	9,111
209.35	10,518	3,623	209.87	11,010	9,221
209.36	10,528	3,729	209.88	11,019	9,331
209.37	10,537	3,834	209.89	11,029	9,441
209.38	10,546	3,939	209.90	11,038	9,551
209.39	10,556	4,045	209.91	11,048	9,662
209.40	10,565	4,150	209.92	11,057	9,772
209.41	10,575	4,256	209.93	11,067	9,883
209.42	10,584	4,362	209.94	11,076	9,994
209.43	10,594	4,468	209.95	11,086	10,105
209.44	10,603	4,574	209.96	11,095	10,215
209.45	10,613	4,680	209.97	11,105	10,326
209.46	10,622	4,786	209.98	11,114	10,438
209.47	10,632	4,892	209.99	11,124	10,549
209.48	10,641	4,999	210.00	11,133	10,660
209.49	10,651	5,105	210.01	11,143	10,771
209.50	10,660	5,212	210.02	11,153	10,883
209.51	10,669	5,318	210.03	11,162	10,994

Stage-Area-Storage for Pond B-1: Basin #1 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
210.04	11,172	11,106	210.56	11,682	17,048
210.05	11,182	11,218	210.57	11,692	17,165
210.06	11,192	11,330	210.58	11,701	17,282
210.07	11,202	11,442	210.59	11,711	17,399
210.08	11,211	11,554	210.60	11,721	17,516
210.09	11,221	11,666	210.61	11,731	17,633
210.10	11,231	11,778	210.62	11,741	17,751
210.11	11,241	11,891	210.63	11,750	17,868
210.12	11,251	12,003	210.64	11,760	17,986
210.13	11,260	12,116	210.65	11,770	18,103
210.14	11,270	12,228	210.66	11,780	18,221
210.15	11,280	12,341	210.67	11,790	18,339
210.16	11,290	12,454	210.68	11,799	18,457
210.17	11,300	12,567	210.69	11,809	18,575
210.18	11,309	12,680	210.70	11,819	18,693
210.19	11,319	12,793	210.71	11,829	18,811
210.20	11,329	12,906	210.72	11,839	18,930
210.21	11,339	13,020	210.73	11,848	19,048
210.22	11,349	13,133	210.74	11,858	19,167
210.23	11,358	13,247	210.75	11,868	19,285
210.24	11,368	13,360	210.76	11,878	19,404
210.25	11,378	13,474	210.77	11,888	19,523
210.26	11,388	13,588	210.78	11,897	19,642
210.27	11,398	13,702	210.79	11,907	19,761
210.28	11,407	13,816	210.80	11,917	19,880
210.29	11,417	13,930	210.81	11,927	19,999
210.30	11,427	14,044	210.82	11,937	20,119
210.31	11,437	14,158	210.83	11,946	20,238
210.32	11,447	14,273	210.84	11,956	20,357
210.33	11,456	14,387	210.85	11,966	20,477
210.34	11,466	14,502	210.86	11,976	20,597
210.35	11,476	14,617	210.87	11,986	20,717
210.36	11,486	14,731	210.88	11,995	20,836
210.37	11,496	14,846	210.89	12,005	20,956
210.38	11,505	14,961	210.90	12,015	21,077
210.39	11,515	15,076	210.91	12,025	21,197
210.40	11,525	15,192	210.92	12,035	21,317
210.41	11,535	15,307	210.93	12,044	21,437
210.42	11,545	15,422	210.94	12,054	21,558
210.43	11,554	15,538	210.95	12,064	21,679
210.44	11,564	15,653	210.96	12,074	21,799
210.45	11,574	15,769	210.97	12,084	21,920
210.46	11,584	15,885	210.98	12,093	22,041
210.47	11,594	16,001	210.99	12,103	22,162
210.48	11,603	16,117	211.00	12,113	22,283
210.49	11,613	16,233	211.01	12,123	22,404
210.50	11,623	16,349	211.02	12,133	22,525
210.51	11,633	16,465	211.03	12,143	22,647
210.52	11,643	16,582	211.04	12,154	22,768
210.53	11,652	16,698	211.05	12,164	22,890
210.54	11,662	16,815	211.06	12,174	23,012
210.55	11,672	16,931	211.07	12,184	23,133

Stage-Area-Storage for Pond B-1: Basin #1 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
211.08	12,194	23,255	211.60	12,721	29,733
211.09	12,204	23,377	211.61	12,731	29,860
211.10	12,214	23,499	211.62	12,741	29,988
211.11	12,224	23,622	211.63	12,751	30,115
211.12	12,235	23,744	211.64	12,761	30,243
211.13	12,245	23,866	211.65	12,771	30,370
211.14	12,255	23,989	211.66	12,782	30,498
211.15	12,265	24,111	211.67	12,792	30,626
211.16	12,275	24,234	211.68	12,802	30,754
211.17	12,285	24,357	211.69	12,812	30,882
211.18	12,295	24,480	211.70	12,822	31,010
211.19	12,305	24,603	211.71	12,832	31,139
211.20	12,316	24,726	211.72	12,842	31,267
211.21	12,326	24,849	211.73	12,852	31,395
211.22	12,336	24,972	211.74	12,863	31,524
211.23	12,346	25,096	211.75	12,873	31,653
211.24	12,356	25,219	211.76	12,883	31,781
211.25	12,366	25,343	211.77	12,893	31,910
211.26	12,376	25,467	211.78	12,903	32,039
211.27	12,387	25,590	211.79	12,913	32,168
211.28	12,397	25,714	211.80	12,923	32,298
211.29	12,407	25,838	211.81	12,934	32,427
211.30	12,417	25,962	211.82	12,944	32,556
211.31	12,427	26,087	211.83	12,954	32,686
211.32	12,437	26,211	211.84	12,964	32,815
211.33	12,447	26,335	211.85	12,974	32,945
211.34	12,457	26,460	211.86	12,984	33,075
211.35	12,468	26,585	211.87	12,994	33,205
211.36	12,478	26,709	211.88	13,004	33,335
211.37	12,488	26,834	211.89	13,015	33,465
211.38	12,498	26,959	211.90	13,025	33,595
211.39	12,508	27,084	211.91	13,035	33,725
211.40	12,518	27,209	211.92	13,045	33,856
211.41	12,528	27,334	211.93	13,055	33,986
211.42	12,538	27,460	211.94	13,065	34,117
211.43	12,549	27,585	211.95	13,075	34,247
211.44	12,559	27,711	211.96	13,085	34,378
211.45	12,569	27,836	211.97	13,096	34,509
211.46	12,579	27,962	211.98	13,106	34,640
211.47	12,589	28,088	211.99	13,116	34,771
211.48	12,599	28,214	212.00	13,126	34,903
211.49	12,609	28,340			
211.50	12,620	28,466			
211.51	12,630	28,592			
211.52	12,640	28,719			
211.53	12,650	28,845			
211.54	12,660	28,972			
211.55	12,670	29,098			
211.56	12,680	29,225			
211.57	12,690	29,352			
211.58	12,701	29,479			
211.59	12,711	29,606			

Summary for Pond B-10: Basin #10

Inflow Area = 1.674 ac, 56.63% Impervious, Inflow Depth = 4.50" for Future 10 yr event
 Inflow = 7.51 cfs @ 12.17 hrs, Volume= 0.628 af
 Outflow = 1.90 cfs @ 12.55 hrs, Volume= 0.536 af, Atten= 75%, Lag= 22.7 min
 Primary = 1.90 cfs @ 12.55 hrs, Volume= 0.536 af
 Routed to Link PDA-1 : Proposed Drainage Area #1

Routing by Stor-Ind method, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 Peak Elev= 181.36' @ 12.55 hrs Surf.Area= 6,148 sf Storage= 12,178 cf

Plug-Flow detention time= 170.6 min calculated for 0.536 af (85% of inflow)
 Center-of-Mass det. time= 103.2 min (878.8 - 775.6)

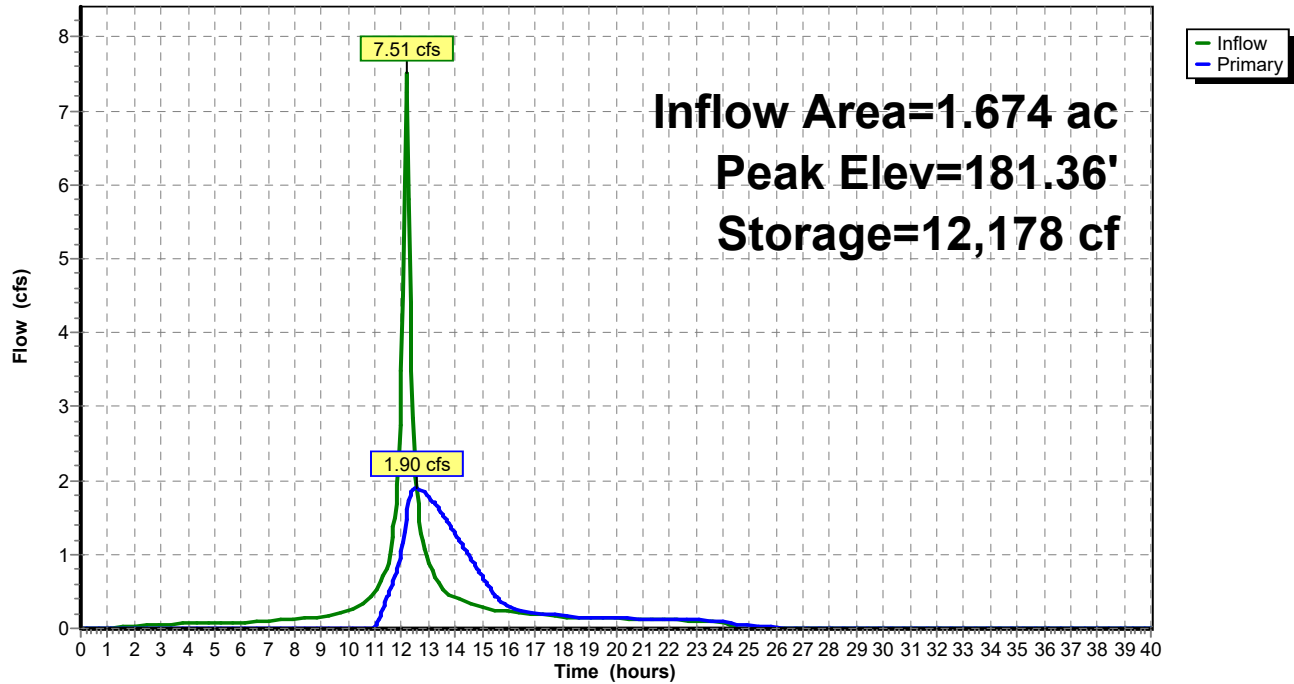
Volume	Invert	Avail.Storage	Storage Description
#1	179.00'	23,473 cf	Custom Stage Data (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
179.00	4,220	0	0
180.00	5,003	4,612	4,612
181.00	5,833	5,418	10,030
182.00	6,710	6,272	16,301
183.00	7,633	7,172	23,473

Device	Routing	Invert	Outlet Devices
#1	Primary	177.65'	18.0" Round Culvert L= 52.0' Ke= 0.500 Inlet / Outlet Invert= 177.65' / 176.00' S= 0.0317 ' S Cc= 0.900 n= 0.013, Flow Area= 1.77 sf
#2	Device 1	179.88'	24.0" W x 2.0" H Vert. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#3	Device 1	182.00'	4.0' long Sharp-Crested Rectangular Weir 2 End Contraction(s)
#4	Primary	182.95'	50.0' long + 3.0 ' SideZ x 5.0' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 Coef. (English) 2.34 2.50 2.70 2.68 2.68 2.66 2.65 2.65 2.65 2.65 2.67 2.66 2.68 2.70 2.74 2.79 2.88

Primary OutFlow Max=1.90 cfs @ 12.55 hrs HW=181.36' (Free Discharge)

1=Culvert (Passes 1.90 cfs of 14.64 cfs potential flow)
 2=Orifice/Grate (Orifice Controls 1.90 cfs @ 5.69 fps)
 3=Sharp-Crested Rectangular Weir (Controls 0.00 cfs)
 4=Broad-Crested Rectangular Weir (Controls 0.00 cfs)

Pond B-10: Basin #10**Hydrograph**

Stage-Discharge for Pond B-10: Basin #10

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
179.00	0.00	179.52	0.00	180.04	0.41	180.56	1.24
179.01	0.00	179.53	0.00	180.05	0.45	180.57	1.25
179.02	0.00	179.54	0.00	180.06	0.48	180.58	1.26
179.03	0.00	179.55	0.00	180.07	0.51	180.59	1.27
179.04	0.00	179.56	0.00	180.08	0.54	180.60	1.28
179.05	0.00	179.57	0.00	180.09	0.56	180.61	1.29
179.06	0.00	179.58	0.00	180.10	0.58	180.62	1.30
179.07	0.00	179.59	0.00	180.11	0.61	180.63	1.31
179.08	0.00	179.60	0.00	180.12	0.63	180.64	1.32
179.09	0.00	179.61	0.00	180.13	0.65	180.65	1.33
179.10	0.00	179.62	0.00	180.14	0.67	180.66	1.34
179.11	0.00	179.63	0.00	180.15	0.69	180.67	1.35
179.12	0.00	179.64	0.00	180.16	0.71	180.68	1.36
179.13	0.00	179.65	0.00	180.17	0.72	180.69	1.37
179.14	0.00	179.66	0.00	180.18	0.74	180.70	1.38
179.15	0.00	179.67	0.00	180.19	0.76	180.71	1.39
179.16	0.00	179.68	0.00	180.20	0.78	180.72	1.40
179.17	0.00	179.69	0.00	180.21	0.79	180.73	1.40
179.18	0.00	179.70	0.00	180.22	0.81	180.74	1.41
179.19	0.00	179.71	0.00	180.23	0.83	180.75	1.42
179.20	0.00	179.72	0.00	180.24	0.84	180.76	1.43
179.21	0.00	179.73	0.00	180.25	0.86	180.77	1.44
179.22	0.00	179.74	0.00	180.26	0.87	180.78	1.45
179.23	0.00	179.75	0.00	180.27	0.89	180.79	1.46
179.24	0.00	179.76	0.00	180.28	0.90	180.80	1.47
179.25	0.00	179.77	0.00	180.29	0.91	180.81	1.48
179.26	0.00	179.78	0.00	180.30	0.93	180.82	1.48
179.27	0.00	179.79	0.00	180.31	0.94	180.83	1.49
179.28	0.00	179.80	0.00	180.32	0.96	180.84	1.50
179.29	0.00	179.81	0.00	180.33	0.97	180.85	1.51
179.30	0.00	179.82	0.00	180.34	0.98	180.86	1.52
179.31	0.00	179.83	0.00	180.35	1.00	180.87	1.53
179.32	0.00	179.84	0.00	180.36	1.01	180.88	1.54
179.33	0.00	179.85	0.00	180.37	1.02	180.89	1.54
179.34	0.00	179.86	0.00	180.38	1.03	180.90	1.55
179.35	0.00	179.87	0.00	180.39	1.05	180.91	1.56
179.36	0.00	179.88	0.00	180.40	1.06	180.92	1.57
179.37	0.00	179.89	0.01	180.41	1.07	180.93	1.58
179.38	0.00	179.90	0.02	180.42	1.08	180.94	1.59
179.39	0.00	179.91	0.03	180.43	1.09	180.95	1.59
179.40	0.00	179.92	0.05	180.44	1.11	180.96	1.60
179.41	0.00	179.93	0.07	180.45	1.12	180.97	1.61
179.42	0.00	179.94	0.09	180.46	1.13	180.98	1.62
179.43	0.00	179.95	0.12	180.47	1.14	180.99	1.63
179.44	0.00	179.96	0.15	180.48	1.15	181.00	1.63
179.45	0.00	179.97	0.17	180.49	1.16	181.01	1.64
179.46	0.00	179.98	0.20	180.50	1.17	181.02	1.65
179.47	0.00	179.99	0.23	180.51	1.19	181.03	1.66
179.48	0.00	180.00	0.27	180.52	1.20	181.04	1.66
179.49	0.00	180.01	0.30	180.53	1.21	181.05	1.67
179.50	0.00	180.02	0.34	180.54	1.22	181.06	1.68
179.51	0.00	180.03	0.37	180.55	1.23	181.07	1.69

Stage-Discharge for Pond B-10: Basin #10 (continued)

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
181.08	1.70	181.60	2.05	182.12	2.90	182.64	9.11
181.09	1.70	181.61	2.06	182.13	2.97	182.65	9.26
181.10	1.71	181.62	2.07	182.14	3.05	182.66	9.42
181.11	1.72	181.63	2.07	182.15	3.13	182.67	9.57
181.12	1.73	181.64	2.08	182.16	3.21	182.68	9.73
181.13	1.73	181.65	2.08	182.17	3.29	182.69	9.89
181.14	1.74	181.66	2.09	182.18	3.38	182.70	10.05
181.15	1.75	181.67	2.10	182.19	3.47	182.71	10.21
181.16	1.76	181.68	2.10	182.20	3.56	182.72	10.37
181.17	1.76	181.69	2.11	182.21	3.65	182.73	10.53
181.18	1.77	181.70	2.11	182.22	3.75	182.74	10.69
181.19	1.78	181.71	2.12	182.23	3.84	182.75	10.86
181.20	1.78	181.72	2.13	182.24	3.94	182.76	11.02
181.21	1.79	181.73	2.13	182.25	4.04	182.77	11.19
181.22	1.80	181.74	2.14	182.26	4.14	182.78	11.35
181.23	1.81	181.75	2.15	182.27	4.25	182.79	11.52
181.24	1.81	181.76	2.15	182.28	4.35	182.80	11.69
181.25	1.82	181.77	2.16	182.29	4.46	182.81	11.86
181.26	1.83	181.78	2.16	182.30	4.57	182.82	12.03
181.27	1.83	181.79	2.17	182.31	4.68	182.83	12.20
181.28	1.84	181.80	2.17	182.32	4.79	182.84	12.37
181.29	1.85	181.81	2.18	182.33	4.91	182.85	12.54
181.30	1.86	181.82	2.19	182.34	5.02	182.86	12.71
181.31	1.86	181.83	2.19	182.35	5.14	182.87	12.89
181.32	1.87	181.84	2.20	182.36	5.26	182.88	13.06
181.33	1.88	181.85	2.20	182.37	5.38	182.89	13.24
181.34	1.88	181.86	2.21	182.38	5.50	182.90	13.42
181.35	1.89	181.87	2.22	182.39	5.62	182.91	13.59
181.36	1.90	181.88	2.22	182.40	5.75	182.92	13.77
181.37	1.90	181.89	2.23	182.41	5.87	182.93	13.95
181.38	1.91	181.90	2.23	182.42	6.00	182.94	14.13
181.39	1.92	181.91	2.24	182.43	6.13	182.95	14.31
181.40	1.92	181.92	2.24	182.44	6.26	182.96	14.61
181.41	1.93	181.93	2.25	182.45	6.39	182.97	15.00
181.42	1.94	181.94	2.26	182.46	6.52	182.98	15.46
181.43	1.94	181.95	2.26	182.47	6.66	182.99	15.98
181.44	1.95	181.96	2.27	182.48	6.79	183.00	16.53
181.45	1.96	181.97	2.27	182.49	6.93		
181.46	1.96	181.98	2.28	182.50	7.07		
181.47	1.97	181.99	2.28	182.51	7.20		
181.48	1.98	182.00	2.29	182.52	7.34		
181.49	1.98	182.01	2.31	182.53	7.48		
181.50	1.99	182.02	2.34	182.54	7.63		
181.51	2.00	182.03	2.38	182.55	7.77		
181.52	2.00	182.04	2.42	182.56	7.91		
181.53	2.01	182.05	2.46	182.57	8.06		
181.54	2.02	182.06	2.52	182.58	8.21		
181.55	2.02	182.07	2.57	182.59	8.35		
181.56	2.03	182.08	2.63	182.60	8.50		
181.57	2.03	182.09	2.69	182.61	8.65		
181.58	2.04	182.10	2.76	182.62	8.80		
181.59	2.05	182.11	2.83	182.63	8.96		

Stage-Area-Storage for Pond B-10: Basin #10

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
179.00	4,220	0	179.52	4,627	2,300
179.01	4,228	42	179.53	4,635	2,347
179.02	4,236	85	179.54	4,643	2,393
179.03	4,243	127	179.55	4,651	2,439
179.04	4,251	169	179.56	4,658	2,486
179.05	4,259	212	179.57	4,666	2,533
179.06	4,267	255	179.58	4,674	2,579
179.07	4,275	297	179.59	4,682	2,626
179.08	4,283	340	179.60	4,690	2,673
179.09	4,290	383	179.61	4,698	2,720
179.10	4,298	426	179.62	4,705	2,767
179.11	4,306	469	179.63	4,713	2,814
179.12	4,314	512	179.64	4,721	2,861
179.13	4,322	555	179.65	4,729	2,908
179.14	4,330	598	179.66	4,737	2,956
179.15	4,337	642	179.67	4,745	3,003
179.16	4,345	685	179.68	4,752	3,051
179.17	4,353	729	179.69	4,760	3,098
179.18	4,361	772	179.70	4,768	3,146
179.19	4,369	816	179.71	4,776	3,194
179.20	4,377	860	179.72	4,784	3,241
179.21	4,384	903	179.73	4,792	3,289
179.22	4,392	947	179.74	4,799	3,337
179.23	4,400	991	179.75	4,807	3,385
179.24	4,408	1,035	179.76	4,815	3,433
179.25	4,416	1,079	179.77	4,823	3,482
179.26	4,424	1,124	179.78	4,831	3,530
179.27	4,431	1,168	179.79	4,839	3,578
179.28	4,439	1,212	179.80	4,846	3,627
179.29	4,447	1,257	179.81	4,854	3,675
179.30	4,455	1,301	179.82	4,862	3,724
179.31	4,463	1,346	179.83	4,870	3,772
179.32	4,471	1,390	179.84	4,878	3,821
179.33	4,478	1,435	179.85	4,886	3,870
179.34	4,486	1,480	179.86	4,893	3,919
179.35	4,494	1,525	179.87	4,901	3,968
179.36	4,502	1,570	179.88	4,909	4,017
179.37	4,510	1,615	179.89	4,917	4,066
179.38	4,518	1,660	179.90	4,925	4,115
179.39	4,525	1,705	179.91	4,933	4,164
179.40	4,533	1,751	179.92	4,940	4,214
179.41	4,541	1,796	179.93	4,948	4,263
179.42	4,549	1,841	179.94	4,956	4,313
179.43	4,557	1,887	179.95	4,964	4,362
179.44	4,565	1,933	179.96	4,972	4,412
179.45	4,572	1,978	179.97	4,980	4,462
179.46	4,580	2,024	179.98	4,987	4,512
179.47	4,588	2,070	179.99	4,995	4,562
179.48	4,596	2,116	180.00	5,003	4,612
179.49	4,604	2,162	180.01	5,011	4,662
179.50	4,612	2,208	180.02	5,020	4,712
179.51	4,619	2,254	180.03	5,028	4,762

Stage-Area-Storage for Pond B-10: Basin #10 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
180.04	5,036	4,812	180.56	5,468	7,543
180.05	5,045	4,863	180.57	5,476	7,598
180.06	5,053	4,913	180.58	5,484	7,653
180.07	5,061	4,964	180.59	5,493	7,708
180.08	5,069	5,014	180.60	5,501	7,763
180.09	5,078	5,065	180.61	5,509	7,818
180.10	5,086	5,116	180.62	5,518	7,873
180.11	5,094	5,167	180.63	5,526	7,928
180.12	5,103	5,218	180.64	5,534	7,983
180.13	5,111	5,269	180.65	5,543	8,039
180.14	5,119	5,320	180.66	5,551	8,094
180.15	5,128	5,371	180.67	5,559	8,150
180.16	5,136	5,423	180.68	5,567	8,205
180.17	5,144	5,474	180.69	5,576	8,261
180.18	5,152	5,525	180.70	5,584	8,317
180.19	5,161	5,577	180.71	5,592	8,373
180.20	5,169	5,629	180.72	5,601	8,429
180.21	5,177	5,680	180.73	5,609	8,485
180.22	5,186	5,732	180.74	5,617	8,541
180.23	5,194	5,784	180.75	5,626	8,597
180.24	5,202	5,836	180.76	5,634	8,653
180.25	5,211	5,888	180.77	5,642	8,710
180.26	5,219	5,940	180.78	5,650	8,766
180.27	5,227	5,993	180.79	5,659	8,823
180.28	5,235	6,045	180.80	5,667	8,880
180.29	5,244	6,097	180.81	5,675	8,936
180.30	5,252	6,150	180.82	5,684	8,993
180.31	5,260	6,202	180.83	5,692	9,050
180.32	5,269	6,255	180.84	5,700	9,107
180.33	5,277	6,308	180.85	5,708	9,164
180.34	5,285	6,360	180.86	5,717	9,221
180.35	5,293	6,413	180.87	5,725	9,278
180.36	5,302	6,466	180.88	5,733	9,336
180.37	5,310	6,519	180.89	5,742	9,393
180.38	5,318	6,573	180.90	5,750	9,450
180.39	5,327	6,626	180.91	5,758	9,508
180.40	5,335	6,679	180.92	5,767	9,566
180.41	5,343	6,732	180.93	5,775	9,623
180.42	5,352	6,786	180.94	5,783	9,681
180.43	5,360	6,840	180.95	5,791	9,739
180.44	5,368	6,893	180.96	5,800	9,797
180.45	5,376	6,947	180.97	5,808	9,855
180.46	5,385	7,001	180.98	5,816	9,913
180.47	5,393	7,055	180.99	5,825	9,971
180.48	5,401	7,109	181.00	5,833	10,030
180.49	5,410	7,163	181.01	5,842	10,088
180.50	5,418	7,217	181.02	5,851	10,146
180.51	5,426	7,271	181.03	5,859	10,205
180.52	5,435	7,325	181.04	5,868	10,264
180.53	5,443	7,380	181.05	5,877	10,322
180.54	5,451	7,434	181.06	5,886	10,381
180.55	5,460	7,489	181.07	5,894	10,440

Stage-Area-Storage for Pond B-10: Basin #10 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
181.08	5,903	10,499	181.60	6,359	13,687
181.09	5,912	10,558	181.61	6,368	13,751
181.10	5,921	10,617	181.62	6,377	13,815
181.11	5,929	10,676	181.63	6,386	13,878
181.12	5,938	10,736	181.64	6,394	13,942
181.13	5,947	10,795	181.65	6,403	14,006
181.14	5,956	10,855	181.66	6,412	14,070
181.15	5,965	10,914	181.67	6,421	14,134
181.16	5,973	10,974	181.68	6,429	14,199
181.17	5,982	11,034	181.69	6,438	14,263
181.18	5,991	11,094	181.70	6,447	14,327
181.19	6,000	11,154	181.71	6,456	14,392
181.20	6,008	11,214	181.72	6,464	14,457
181.21	6,017	11,274	181.73	6,473	14,521
181.22	6,026	11,334	181.74	6,482	14,586
181.23	6,035	11,394	181.75	6,491	14,651
181.24	6,043	11,455	181.76	6,500	14,716
181.25	6,052	11,515	181.77	6,508	14,781
181.26	6,061	11,576	181.78	6,517	14,846
181.27	6,070	11,636	181.79	6,526	14,911
181.28	6,079	11,697	181.80	6,535	14,977
181.29	6,087	11,758	181.81	6,543	15,042
181.30	6,096	11,819	181.82	6,552	15,107
181.31	6,105	11,880	181.83	6,561	15,173
181.32	6,114	11,941	181.84	6,570	15,239
181.33	6,122	12,002	181.85	6,578	15,304
181.34	6,131	12,063	181.86	6,587	15,370
181.35	6,140	12,125	181.87	6,596	15,436
181.36	6,149	12,186	181.88	6,605	15,502
181.37	6,157	12,248	181.89	6,614	15,568
181.38	6,166	12,309	181.90	6,622	15,634
181.39	6,175	12,371	181.91	6,631	15,701
181.40	6,184	12,433	181.92	6,640	15,767
181.41	6,193	12,495	181.93	6,649	15,833
181.42	6,201	12,557	181.94	6,657	15,900
181.43	6,210	12,619	181.95	6,666	15,967
181.44	6,219	12,681	181.96	6,675	16,033
181.45	6,228	12,743	181.97	6,684	16,100
181.46	6,236	12,805	181.98	6,692	16,167
181.47	6,245	12,868	181.99	6,701	16,234
181.48	6,254	12,930	182.00	6,710	16,301
181.49	6,263	12,993	182.01	6,719	16,368
181.50	6,272	13,056	182.02	6,728	16,435
181.51	6,280	13,118	182.03	6,738	16,503
181.52	6,289	13,181	182.04	6,747	16,570
181.53	6,298	13,244	182.05	6,756	16,638
181.54	6,307	13,307	182.06	6,765	16,705
181.55	6,315	13,370	182.07	6,775	16,773
181.56	6,324	13,433	182.08	6,784	16,841
181.57	6,333	13,497	182.09	6,793	16,909
181.58	6,342	13,560	182.10	6,802	16,977
181.59	6,350	13,624	182.11	6,812	17,045

Stage-Area-Storage for Pond B-10: Basin #10 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
182.12	6,821	17,113	182.64	7,301	20,784
182.13	6,830	17,181	182.65	7,310	20,857
182.14	6,839	17,249	182.66	7,319	20,931
182.15	6,848	17,318	182.67	7,328	21,004
182.16	6,858	17,386	182.68	7,338	21,077
182.17	6,867	17,455	182.69	7,347	21,151
182.18	6,876	17,524	182.70	7,356	21,224
182.19	6,885	17,593	182.71	7,365	21,298
182.20	6,895	17,661	182.72	7,375	21,371
182.21	6,904	17,730	182.73	7,384	21,445
182.22	6,913	17,800	182.74	7,393	21,519
182.23	6,922	17,869	182.75	7,402	21,593
182.24	6,932	17,938	182.76	7,411	21,667
182.25	6,941	18,007	182.77	7,421	21,741
182.26	6,950	18,077	182.78	7,430	21,816
182.27	6,959	18,146	182.79	7,439	21,890
182.28	6,968	18,216	182.80	7,448	21,964
182.29	6,978	18,286	182.81	7,458	22,039
182.30	6,987	18,356	182.82	7,467	22,114
182.31	6,996	18,425	182.83	7,476	22,188
182.32	7,005	18,495	182.84	7,485	22,263
182.33	7,015	18,566	182.85	7,495	22,338
182.34	7,024	18,636	182.86	7,504	22,413
182.35	7,033	18,706	182.87	7,513	22,488
182.36	7,042	18,776	182.88	7,522	22,563
182.37	7,052	18,847	182.89	7,531	22,638
182.38	7,061	18,917	182.90	7,541	22,714
182.39	7,070	18,988	182.91	7,550	22,789
182.40	7,079	19,059	182.92	7,559	22,865
182.41	7,088	19,130	182.93	7,568	22,940
182.42	7,098	19,201	182.94	7,578	23,016
182.43	7,107	19,272	182.95	7,587	23,092
182.44	7,116	19,343	182.96	7,596	23,168
182.45	7,125	19,414	182.97	7,605	23,244
182.46	7,135	19,485	182.98	7,615	23,320
182.47	7,144	19,557	182.99	7,624	23,396
182.48	7,153	19,628	183.00	7,633	23,473
182.49	7,162	19,700			
182.50	7,172	19,771			
182.51	7,181	19,843			
182.52	7,190	19,915			
182.53	7,199	19,987			
182.54	7,208	20,059			
182.55	7,218	20,131			
182.56	7,227	20,203			
182.57	7,236	20,276			
182.58	7,245	20,348			
182.59	7,255	20,421			
182.60	7,264	20,493			
182.61	7,273	20,566			
182.62	7,282	20,639			
182.63	7,291	20,711			

Summary for Pond B-11: Basin #11

Inflow Area = 2.228 ac, 58.53% Impervious, Inflow Depth = 4.55" for Future 10 yr event
 Inflow = 10.08 cfs @ 12.17 hrs, Volume= 0.845 af
 Outflow = 3.81 cfs @ 12.41 hrs, Volume= 0.685 af, Atten= 62%, Lag= 14.2 min
 Primary = 3.81 cfs @ 12.41 hrs, Volume= 0.685 af
 Routed to Link PDA-1 : Proposed Drainage Area #1

Routing by Stor-Ind method, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 Peak Elev= 183.18' @ 12.41 hrs Surf.Area= 7,290 sf Storage= 19,064 cf

Plug-Flow detention time= 473.7 min calculated for 0.684 af (81% of inflow)
 Center-of-Mass det. time= 395.4 min (1,169.6 - 774.2)

Volume	Invert	Avail.Storage	Storage Description
#1	180.00'	43,224 cf	Custom Stage Data (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
180.00	4,780	0	0
181.00	5,522	5,151	5,151
182.00	6,306	5,914	11,065
183.00	7,135	6,721	17,786
184.00	8,007	7,571	25,357
185.00	8,923	8,465	33,822
186.00	9,882	9,403	43,224

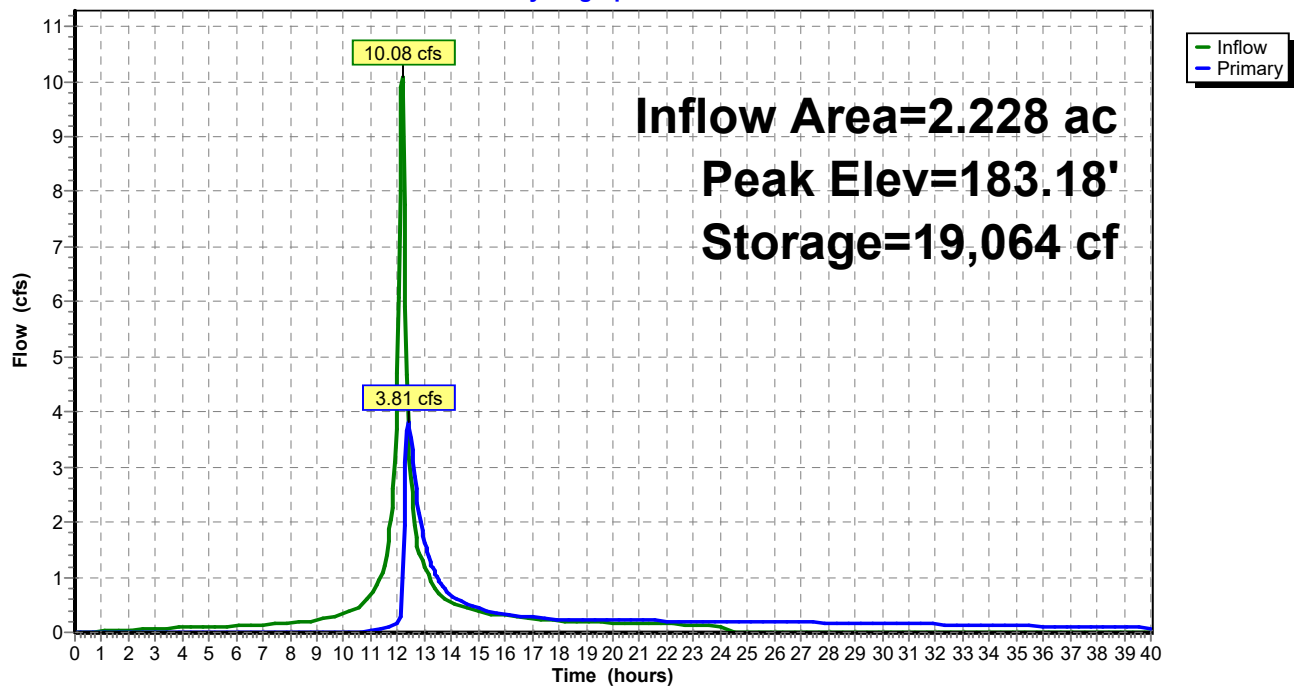
Device	Routing	Invert	Outlet Devices
#1	Primary	178.65'	18.0" Round Culvert L= 131.0' Ke= 0.500 Inlet / Outlet Invert= 178.65' / 178.00' S= 0.0050 '/' Cc= 0.900 n= 0.013, Flow Area= 1.77 sf
#2	Device 1	181.00'	2.5" Vert. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#3	Device 1	182.75'	4.0' long Sharp-Crested Rectangular Weir 2 End Contraction(s)
#4	Primary	183.91'	50.0' long + 3.0 '/' SideZ x 5.0' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 Coef. (English) 2.34 2.50 2.70 2.68 2.68 2.66 2.65 2.65 2.65 2.65 2.67 2.66 2.68 2.70 2.74 2.79 2.88

Primary OutFlow Max=3.80 cfs @ 12.41 hrs HW=183.18' (Free Discharge)

1=Culvert (Passes 3.80 cfs of 13.78 cfs potential flow)
 2=Orifice/Grate (Orifice Controls 0.24 cfs @ 6.93 fps)
 3=Sharp-Crested Rectangular Weir (Weir Controls 3.56 cfs @ 2.13 fps)
 4=Broad-Crested Rectangular Weir (Controls 0.00 cfs)

Pond B-11: Basin #11

Hydrograph



Stage-Discharge for Pond B-11: Basin #11

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
180.00	0.00	180.52	0.00	181.04	0.00	181.56	0.11
180.01	0.00	180.53	0.00	181.05	0.00	181.57	0.11
180.02	0.00	180.54	0.00	181.06	0.01	181.58	0.11
180.03	0.00	180.55	0.00	181.07	0.01	181.59	0.11
180.04	0.00	180.56	0.00	181.08	0.01	181.60	0.12
180.05	0.00	180.57	0.00	181.09	0.01	181.61	0.12
180.06	0.00	180.58	0.00	181.10	0.02	181.62	0.12
180.07	0.00	180.59	0.00	181.11	0.02	181.63	0.12
180.08	0.00	180.60	0.00	181.12	0.02	181.64	0.12
180.09	0.00	180.61	0.00	181.13	0.03	181.65	0.12
180.10	0.00	180.62	0.00	181.14	0.03	181.66	0.12
180.11	0.00	180.63	0.00	181.15	0.03	181.67	0.12
180.12	0.00	180.64	0.00	181.16	0.04	181.68	0.12
180.13	0.00	180.65	0.00	181.17	0.04	181.69	0.13
180.14	0.00	180.66	0.00	181.18	0.05	181.70	0.13
180.15	0.00	180.67	0.00	181.19	0.05	181.71	0.13
180.16	0.00	180.68	0.00	181.20	0.05	181.72	0.13
180.17	0.00	180.69	0.00	181.21	0.05	181.73	0.13
180.18	0.00	180.70	0.00	181.22	0.06	181.74	0.13
180.19	0.00	180.71	0.00	181.23	0.06	181.75	0.13
180.20	0.00	180.72	0.00	181.24	0.06	181.76	0.13
180.21	0.00	180.73	0.00	181.25	0.06	181.77	0.13
180.22	0.00	180.74	0.00	181.26	0.06	181.78	0.13
180.23	0.00	180.75	0.00	181.27	0.07	181.79	0.14
180.24	0.00	180.76	0.00	181.28	0.07	181.80	0.14
180.25	0.00	180.77	0.00	181.29	0.07	181.81	0.14
180.26	0.00	180.78	0.00	181.30	0.07	181.82	0.14
180.27	0.00	180.79	0.00	181.31	0.07	181.83	0.14
180.28	0.00	180.80	0.00	181.32	0.08	181.84	0.14
180.29	0.00	180.81	0.00	181.33	0.08	181.85	0.14
180.30	0.00	180.82	0.00	181.34	0.08	181.86	0.14
180.31	0.00	180.83	0.00	181.35	0.08	181.87	0.14
180.32	0.00	180.84	0.00	181.36	0.08	181.88	0.14
180.33	0.00	180.85	0.00	181.37	0.08	181.89	0.15
180.34	0.00	180.86	0.00	181.38	0.09	181.90	0.15
180.35	0.00	180.87	0.00	181.39	0.09	181.91	0.15
180.36	0.00	180.88	0.00	181.40	0.09	181.92	0.15
180.37	0.00	180.89	0.00	181.41	0.09	181.93	0.15
180.38	0.00	180.90	0.00	181.42	0.09	181.94	0.15
180.39	0.00	180.91	0.00	181.43	0.09	181.95	0.15
180.40	0.00	180.92	0.00	181.44	0.10	181.96	0.15
180.41	0.00	180.93	0.00	181.45	0.10	181.97	0.15
180.42	0.00	180.94	0.00	181.46	0.10	181.98	0.15
180.43	0.00	180.95	0.00	181.47	0.10	181.99	0.15
180.44	0.00	180.96	0.00	181.48	0.10	182.00	0.16
180.45	0.00	180.97	0.00	181.49	0.10	182.01	0.16
180.46	0.00	180.98	0.00	181.50	0.10	182.02	0.16
180.47	0.00	180.99	0.00	181.51	0.10	182.03	0.16
180.48	0.00	181.00	0.00	181.52	0.11	182.04	0.16
180.49	0.00	181.01	0.00	181.53	0.11	182.05	0.16
180.50	0.00	181.02	0.00	181.54	0.11	182.06	0.16
180.51	0.00	181.03	0.00	181.55	0.11	182.07	0.16

Stage-Discharge for Pond B-11: Basin #11 (continued)

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
182.08	0.16	182.60	0.20	183.12	3.12	183.64	10.75
182.09	0.16	182.61	0.20	183.13	3.24	183.65	10.93
182.10	0.16	182.62	0.20	183.14	3.36	183.66	11.10
182.11	0.16	182.63	0.20	183.15	3.48	183.67	11.27
182.12	0.17	182.64	0.20	183.16	3.60	183.68	11.45
182.13	0.17	182.65	0.20	183.17	3.72	183.69	11.62
182.14	0.17	182.66	0.20	183.18	3.85	183.70	11.80
182.15	0.17	182.67	0.21	183.19	3.97	183.71	11.98
182.16	0.17	182.68	0.21	183.20	4.10	183.72	12.16
182.17	0.17	182.69	0.21	183.21	4.23	183.73	12.33
182.18	0.17	182.70	0.21	183.22	4.35	183.74	12.51
182.19	0.17	182.71	0.21	183.23	4.48	183.75	12.69
182.20	0.17	182.72	0.21	183.24	4.62	183.76	12.87
182.21	0.17	182.73	0.21	183.25	4.75	183.77	13.06
182.22	0.17	182.74	0.21	183.26	4.88	183.78	13.24
182.23	0.17	182.75	0.21	183.27	5.02	183.79	13.42
182.24	0.17	182.76	0.22	183.28	5.16	183.80	13.60
182.25	0.18	182.77	0.25	183.29	5.29	183.81	13.79
182.26	0.18	182.78	0.28	183.30	5.43	183.82	13.97
182.27	0.18	182.79	0.32	183.31	5.57	183.83	14.16
182.28	0.18	182.80	0.36	183.32	5.71	183.84	14.35
182.29	0.18	182.81	0.41	183.33	5.85	183.85	14.53
182.30	0.18	182.82	0.46	183.34	6.00	183.86	14.72
182.31	0.18	182.83	0.51	183.35	6.14	183.87	14.91
182.32	0.18	182.84	0.57	183.36	6.29	183.88	15.04
182.33	0.18	182.85	0.63	183.37	6.43	183.89	15.05
182.34	0.18	182.86	0.69	183.38	6.58	183.90	15.07
182.35	0.18	182.87	0.76	183.39	6.73	183.91	15.09
182.36	0.18	182.88	0.83	183.40	6.88	183.92	15.22
182.37	0.18	182.89	0.90	183.41	7.03	183.93	15.45
182.38	0.19	182.90	0.97	183.42	7.18	183.94	15.75
182.39	0.19	182.91	1.05	183.43	7.34	183.95	16.09
182.40	0.19	182.92	1.13	183.44	7.49	183.96	16.48
182.41	0.19	182.93	1.21	183.45	7.64	183.97	16.92
182.42	0.19	182.94	1.30	183.46	7.80	183.98	17.38
182.43	0.19	182.95	1.38	183.47	7.96	183.99	17.88
182.44	0.19	182.96	1.47	183.48	8.11	184.00	18.41
182.45	0.19	182.97	1.56	183.49	8.27	184.01	18.98
182.46	0.19	182.98	1.65	183.50	8.43	184.02	19.57
182.47	0.19	182.99	1.74	183.51	8.59	184.03	20.18
182.48	0.19	183.00	1.84	183.52	8.75	184.04	20.83
182.49	0.19	183.01	1.94	183.53	8.91	184.05	21.50
182.50	0.19	183.02	2.04	183.54	9.08	184.06	22.19
182.51	0.19	183.03	2.14	183.55	9.24	184.07	22.91
182.52	0.20	183.04	2.24	183.56	9.41	184.08	23.64
182.53	0.20	183.05	2.35	183.57	9.57	184.09	24.41
182.54	0.20	183.06	2.45	183.58	9.74	184.10	25.19
182.55	0.20	183.07	2.56	183.59	9.91	184.11	25.99
182.56	0.20	183.08	2.67	183.60	10.07	184.12	26.86
182.57	0.20	183.09	2.78	183.61	10.24	184.13	27.74
182.58	0.20	183.10	2.89	183.62	10.41	184.14	28.66
182.59	0.20	183.11	3.01	183.63	10.58	184.15	29.60

Stage-Discharge for Pond B-11: Basin #11 (continued)

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
184.16	30.56	184.68	110.34	185.20	223.74	185.72	368.60
184.17	31.55	184.69	112.21	185.21	226.21	185.73	371.68
184.18	32.57	184.70	114.08	185.22	228.70	185.74	374.77
184.19	33.61	184.71	115.96	185.23	231.20	185.75	377.88
184.20	34.67	184.72	117.90	185.24	233.71	185.76	380.99
184.21	35.76	184.73	119.85	185.25	236.23	185.77	384.11
184.22	36.88	184.74	121.81	185.26	238.75	185.78	387.25
184.23	38.01	184.75	123.79	185.27	241.29	185.79	390.39
184.24	39.18	184.76	125.77	185.28	243.84	185.80	393.54
184.25	40.36	184.77	127.77	185.29	246.40	185.81	396.71
184.26	41.57	184.78	129.79	185.30	248.97	185.82	399.88
184.27	42.81	184.79	131.82	185.31	251.55	185.83	403.07
184.28	44.07	184.80	133.86	185.32	254.19	185.84	406.27
184.29	45.35	184.81	135.91	185.33	256.84	185.85	409.47
184.30	46.66	184.82	137.98	185.34	259.49	185.86	412.69
184.31	47.99	184.83	140.06	185.35	262.16	185.87	415.92
184.32	49.37	184.84	142.15	185.36	264.84	185.88	419.16
184.33	50.78	184.85	144.25	185.37	267.54	185.89	422.41
184.34	52.21	184.86	146.37	185.38	270.24	185.90	425.67
184.35	53.67	184.87	148.50	185.39	272.95	185.91	428.93
184.36	55.16	184.88	150.64	185.40	275.68	185.92	432.28
184.37	56.67	184.89	152.80	185.41	278.41	185.93	435.63
184.38	58.21	184.90	154.96	185.42	281.16	185.94	439.00
184.39	59.78	184.91	157.14	185.43	283.92	185.95	442.37
184.40	61.37	184.92	159.28	185.44	286.68	185.96	445.76
184.41	62.99	184.93	161.43	185.45	289.46	185.97	449.16
184.42	64.63	184.94	163.59	185.46	292.25	185.98	452.57
184.43	66.30	184.95	165.77	185.47	295.06	185.99	455.99
184.44	68.00	184.96	167.95	185.48	297.87	186.00	459.42
184.45	69.72	184.97	170.14	185.49	300.69		
184.46	71.47	184.98	172.34	185.50	303.52		
184.47	73.25	184.99	174.56	185.51	306.37		
184.48	75.06	185.00	176.78	185.52	309.23		
184.49	76.89	185.01	179.02	185.53	312.09		
184.50	78.75	185.02	181.26	185.54	314.97		
184.51	80.63	185.03	183.52	185.55	317.86		
184.52	82.27	185.04	185.78	185.56	320.76		
184.53	83.93	185.05	188.06	185.57	323.67		
184.54	85.60	185.06	190.34	185.58	326.59		
184.55	87.28	185.07	192.64	185.59	329.52		
184.56	88.98	185.08	194.94	185.60	332.46		
184.57	90.69	185.09	197.26	185.61	335.42		
184.58	92.41	185.10	199.59	185.62	338.38		
184.59	94.15	185.11	201.92	185.63	341.35		
184.60	95.90	185.12	204.30	185.64	344.34		
184.61	97.66	185.13	206.69	185.65	347.33		
184.62	99.43	185.14	209.10	185.66	350.34		
184.63	101.22	185.15	211.51	185.67	353.36		
184.64	103.02	185.16	213.93	185.68	356.39		
184.65	104.83	185.17	216.37	185.69	359.42		
184.66	106.66	185.18	218.81	185.70	362.47		
184.67	108.49	185.19	221.27	185.71	365.53		

Stage-Area-Storage for Pond B-11: Basin #11

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
180.00	4,780	0	180.52	5,166	2,586
180.01	4,787	48	180.53	5,173	2,638
180.02	4,795	96	180.54	5,181	2,689
180.03	4,802	144	180.55	5,188	2,741
180.04	4,810	192	180.56	5,196	2,793
180.05	4,817	240	180.57	5,203	2,845
180.06	4,825	288	180.58	5,210	2,897
180.07	4,832	336	180.59	5,218	2,949
180.08	4,839	385	180.60	5,225	3,002
180.09	4,847	433	180.61	5,233	3,054
180.10	4,854	482	180.62	5,240	3,106
180.11	4,862	530	180.63	5,247	3,159
180.12	4,869	579	180.64	5,255	3,211
180.13	4,876	628	180.65	5,262	3,264
180.14	4,884	676	180.66	5,270	3,316
180.15	4,891	725	180.67	5,277	3,369
180.16	4,899	774	180.68	5,285	3,422
180.17	4,906	823	180.69	5,292	3,475
180.18	4,914	872	180.70	5,299	3,528
180.19	4,921	922	180.71	5,307	3,581
180.20	4,928	971	180.72	5,314	3,634
180.21	4,936	1,020	180.73	5,322	3,687
180.22	4,943	1,070	180.74	5,329	3,740
180.23	4,951	1,119	180.75	5,337	3,794
180.24	4,958	1,169	180.76	5,344	3,847
180.25	4,966	1,218	180.77	5,351	3,901
180.26	4,973	1,268	180.78	5,359	3,954
180.27	4,980	1,318	180.79	5,366	4,008
180.28	4,988	1,367	180.80	5,374	4,061
180.29	4,995	1,417	180.81	5,381	4,115
180.30	5,003	1,467	180.82	5,388	4,169
180.31	5,010	1,517	180.83	5,396	4,223
180.32	5,017	1,568	180.84	5,403	4,277
180.33	5,025	1,618	180.85	5,411	4,331
180.34	5,032	1,668	180.86	5,418	4,385
180.35	5,040	1,718	180.87	5,426	4,439
180.36	5,047	1,769	180.88	5,433	4,494
180.37	5,055	1,819	180.89	5,440	4,548
180.38	5,062	1,870	180.90	5,448	4,603
180.39	5,069	1,921	180.91	5,455	4,657
180.40	5,077	1,971	180.92	5,463	4,712
180.41	5,084	2,022	180.93	5,470	4,766
180.42	5,092	2,073	180.94	5,477	4,821
180.43	5,099	2,124	180.95	5,485	4,876
180.44	5,106	2,175	180.96	5,492	4,931
180.45	5,114	2,226	180.97	5,500	4,986
180.46	5,121	2,277	180.98	5,507	5,041
180.47	5,129	2,329	180.99	5,515	5,096
180.48	5,136	2,380	181.00	5,522	5,151
180.49	5,144	2,431	181.01	5,530	5,206
180.50	5,151	2,483	181.02	5,538	5,262
180.51	5,158	2,534	181.03	5,546	5,317

Stage-Area-Storage for Pond B-11: Basin #11 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
181.04	5,553	5,373	181.56	5,961	8,366
181.05	5,561	5,428	181.57	5,969	8,426
181.06	5,569	5,484	181.58	5,977	8,486
181.07	5,577	5,539	181.59	5,985	8,545
181.08	5,585	5,595	181.60	5,992	8,605
181.09	5,593	5,651	181.61	6,000	8,665
181.10	5,600	5,707	181.62	6,008	8,725
181.11	5,608	5,763	181.63	6,016	8,785
181.12	5,616	5,819	181.64	6,024	8,846
181.13	5,624	5,875	181.65	6,032	8,906
181.14	5,632	5,932	181.66	6,039	8,966
181.15	5,640	5,988	181.67	6,047	9,027
181.16	5,647	6,045	181.68	6,055	9,087
181.17	5,655	6,101	181.69	6,063	9,148
181.18	5,663	6,158	181.70	6,071	9,208
181.19	5,671	6,214	181.71	6,079	9,269
181.20	5,679	6,271	181.72	6,086	9,330
181.21	5,687	6,328	181.73	6,094	9,391
181.22	5,694	6,385	181.74	6,102	9,452
181.23	5,702	6,442	181.75	6,110	9,513
181.24	5,710	6,499	181.76	6,118	9,574
181.25	5,718	6,556	181.77	6,126	9,635
181.26	5,726	6,613	181.78	6,134	9,697
181.27	5,734	6,671	181.79	6,141	9,758
181.28	5,742	6,728	181.80	6,149	9,819
181.29	5,749	6,785	181.81	6,157	9,881
181.30	5,757	6,843	181.82	6,165	9,943
181.31	5,765	6,900	181.83	6,173	10,004
181.32	5,773	6,958	181.84	6,181	10,066
181.33	5,781	7,016	181.85	6,188	10,128
181.34	5,789	7,074	181.86	6,196	10,190
181.35	5,796	7,132	181.87	6,204	10,252
181.36	5,804	7,190	181.88	6,212	10,314
181.37	5,812	7,248	181.89	6,220	10,376
181.38	5,820	7,306	181.90	6,228	10,438
181.39	5,828	7,364	181.91	6,235	10,501
181.40	5,836	7,423	181.92	6,243	10,563
181.41	5,843	7,481	181.93	6,251	10,626
181.42	5,851	7,539	181.94	6,259	10,688
181.43	5,859	7,598	181.95	6,267	10,751
181.44	5,867	7,657	181.96	6,275	10,813
181.45	5,875	7,715	181.97	6,282	10,876
181.46	5,883	7,774	181.98	6,290	10,939
181.47	5,890	7,833	181.99	6,298	11,002
181.48	5,898	7,892	182.00	6,306	11,065
181.49	5,906	7,951	182.01	6,314	11,128
181.50	5,914	8,010	182.02	6,323	11,191
181.51	5,922	8,069	182.03	6,331	11,255
181.52	5,930	8,128	182.04	6,339	11,318
181.53	5,938	8,188	182.05	6,347	11,381
181.54	5,945	8,247	182.06	6,356	11,445
181.55	5,953	8,307	182.07	6,364	11,508

Stage-Area-Storage for Pond B-11: Basin #11 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
182.08	6,372	11,572	182.60	6,803	14,998
182.09	6,381	11,636	182.61	6,812	15,066
182.10	6,389	11,700	182.62	6,820	15,134
182.11	6,397	11,764	182.63	6,828	15,202
182.12	6,405	11,828	182.64	6,837	15,271
182.13	6,414	11,892	182.65	6,845	15,339
182.14	6,422	11,956	182.66	6,853	15,408
182.15	6,430	12,020	182.67	6,861	15,476
182.16	6,439	12,085	182.68	6,870	15,545
182.17	6,447	12,149	182.69	6,878	15,613
182.18	6,455	12,214	182.70	6,886	15,682
182.19	6,464	12,278	182.71	6,895	15,751
182.20	6,472	12,343	182.72	6,903	15,820
182.21	6,480	12,408	182.73	6,911	15,889
182.22	6,488	12,472	182.74	6,919	15,958
182.23	6,497	12,537	182.75	6,928	16,028
182.24	6,505	12,602	182.76	6,936	16,097
182.25	6,513	12,667	182.77	6,944	16,166
182.26	6,522	12,733	182.78	6,953	16,236
182.27	6,530	12,798	182.79	6,961	16,305
182.28	6,538	12,863	182.80	6,969	16,375
182.29	6,546	12,929	182.81	6,977	16,445
182.30	6,555	12,994	182.82	6,986	16,515
182.31	6,563	13,060	182.83	6,994	16,585
182.32	6,571	13,125	182.84	7,002	16,655
182.33	6,580	13,191	182.85	7,011	16,725
182.34	6,588	13,257	182.86	7,019	16,795
182.35	6,596	13,323	182.87	7,027	16,865
182.36	6,604	13,389	182.88	7,036	16,935
182.37	6,613	13,455	182.89	7,044	17,006
182.38	6,621	13,521	182.90	7,052	17,076
182.39	6,629	13,587	182.91	7,060	17,147
182.40	6,638	13,654	182.92	7,069	17,217
182.41	6,646	13,720	182.93	7,077	17,288
182.42	6,654	13,787	182.94	7,085	17,359
182.43	6,662	13,853	182.95	7,094	17,430
182.44	6,671	13,920	182.96	7,102	17,501
182.45	6,679	13,987	182.97	7,110	17,572
182.46	6,687	14,053	182.98	7,118	17,643
182.47	6,696	14,120	182.99	7,127	17,714
182.48	6,704	14,187	183.00	7,135	17,786
182.49	6,712	14,254	183.01	7,144	17,857
182.50	6,721	14,322	183.02	7,152	17,928
182.51	6,729	14,389	183.03	7,161	18,000
182.52	6,737	14,456	183.04	7,170	18,072
182.53	6,745	14,524	183.05	7,179	18,143
182.54	6,754	14,591	183.06	7,187	18,215
182.55	6,762	14,659	183.07	7,196	18,287
182.56	6,770	14,726	183.08	7,205	18,359
182.57	6,779	14,794	183.09	7,213	18,431
182.58	6,787	14,862	183.10	7,222	18,503
182.59	6,795	14,930	183.11	7,231	18,576

Stage-Area-Storage for Pond B-11: Basin #11 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
183.12	7,240	18,648	183.64	7,693	22,530
183.13	7,248	18,720	183.65	7,702	22,607
183.14	7,257	18,793	183.66	7,711	22,685
183.15	7,266	18,866	183.67	7,719	22,762
183.16	7,275	18,938	183.68	7,728	22,839
183.17	7,283	19,011	183.69	7,737	22,916
183.18	7,292	19,084	183.70	7,745	22,994
183.19	7,301	19,157	183.71	7,754	23,071
183.20	7,309	19,230	183.72	7,763	23,149
183.21	7,318	19,303	183.73	7,772	23,226
183.22	7,327	19,376	183.74	7,780	23,304
183.23	7,336	19,450	183.75	7,789	23,382
183.24	7,344	19,523	183.76	7,798	23,460
183.25	7,353	19,597	183.77	7,806	23,538
183.26	7,362	19,670	183.78	7,815	23,616
183.27	7,370	19,744	183.79	7,824	23,694
183.28	7,379	19,817	183.80	7,833	23,773
183.29	7,388	19,891	183.81	7,841	23,851
183.30	7,397	19,965	183.82	7,850	23,929
183.31	7,405	20,039	183.83	7,859	24,008
183.32	7,414	20,113	183.84	7,867	24,087
183.33	7,423	20,188	183.85	7,876	24,165
183.34	7,431	20,262	183.86	7,885	24,244
183.35	7,440	20,336	183.87	7,894	24,323
183.36	7,449	20,411	183.88	7,902	24,402
183.37	7,458	20,485	183.89	7,911	24,481
183.38	7,466	20,560	183.90	7,920	24,560
183.39	7,475	20,634	183.91	7,929	24,639
183.40	7,484	20,709	183.92	7,937	24,719
183.41	7,493	20,784	183.93	7,946	24,798
183.42	7,501	20,859	183.94	7,955	24,878
183.43	7,510	20,934	183.95	7,963	24,957
183.44	7,519	21,009	183.96	7,972	25,037
183.45	7,527	21,085	183.97	7,981	25,117
183.46	7,536	21,160	183.98	7,990	25,197
183.47	7,545	21,235	183.99	7,998	25,276
183.48	7,554	21,311	184.00	8,007	25,357
183.49	7,562	21,386	184.01	8,016	25,437
183.50	7,571	21,462	184.02	8,025	25,517
183.51	7,580	21,538	184.03	8,034	25,597
183.52	7,588	21,614	184.04	8,044	25,678
183.53	7,597	21,690	184.05	8,053	25,758
183.54	7,606	21,766	184.06	8,062	25,839
183.55	7,615	21,842	184.07	8,071	25,919
183.56	7,623	21,918	184.08	8,080	26,000
183.57	7,632	21,994	184.09	8,089	26,081
183.58	7,641	22,070	184.10	8,099	26,162
183.59	7,649	22,147	184.11	8,108	26,243
183.60	7,658	22,223	184.12	8,117	26,324
183.61	7,667	22,300	184.13	8,126	26,405
183.62	7,676	22,377	184.14	8,135	26,486
183.63	7,684	22,454	184.15	8,144	26,568

Stage-Area-Storage for Pond B-11: Basin #11 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
184.16	8,154	26,649	184.68	8,630	31,013
184.17	8,163	26,731	184.69	8,639	31,099
184.18	8,172	26,813	184.70	8,648	31,186
184.19	8,181	26,894	184.71	8,657	31,272
184.20	8,190	26,976	184.72	8,667	31,359
184.21	8,199	27,058	184.73	8,676	31,446
184.22	8,209	27,140	184.74	8,685	31,532
184.23	8,218	27,222	184.75	8,694	31,619
184.24	8,227	27,305	184.76	8,703	31,706
184.25	8,236	27,387	184.77	8,712	31,793
184.26	8,245	27,469	184.78	8,721	31,881
184.27	8,254	27,552	184.79	8,731	31,968
184.28	8,263	27,634	184.80	8,740	32,055
184.29	8,273	27,717	184.81	8,749	32,143
184.30	8,282	27,800	184.82	8,758	32,230
184.31	8,291	27,883	184.83	8,767	32,318
184.32	8,300	27,966	184.84	8,776	32,406
184.33	8,309	28,049	184.85	8,786	32,493
184.34	8,318	28,132	184.86	8,795	32,581
184.35	8,328	28,215	184.87	8,804	32,669
184.36	8,337	28,298	184.88	8,813	32,757
184.37	8,346	28,382	184.89	8,822	32,846
184.38	8,355	28,465	184.90	8,831	32,934
184.39	8,364	28,549	184.91	8,841	33,022
184.40	8,373	28,633	184.92	8,850	33,111
184.41	8,383	28,716	184.93	8,859	33,199
184.42	8,392	28,800	184.94	8,868	33,288
184.43	8,401	28,884	184.95	8,877	33,376
184.44	8,410	28,968	184.96	8,886	33,465
184.45	8,419	29,052	184.97	8,896	33,554
184.46	8,428	29,137	184.98	8,905	33,643
184.47	8,438	29,221	184.99	8,914	33,732
184.48	8,447	29,305	185.00	8,923	33,822
184.49	8,456	29,390	185.01	8,933	33,911
184.50	8,465	29,475	185.02	8,942	34,000
184.51	8,474	29,559	185.03	8,952	34,090
184.52	8,483	29,644	185.04	8,961	34,179
184.53	8,492	29,729	185.05	8,971	34,269
184.54	8,502	29,814	185.06	8,981	34,359
184.55	8,511	29,899	185.07	8,990	34,448
184.56	8,520	29,984	185.08	9,000	34,538
184.57	8,529	30,069	185.09	9,009	34,628
184.58	8,538	30,155	185.10	9,019	34,719
184.59	8,547	30,240	185.11	9,028	34,809
184.60	8,557	30,326	185.12	9,038	34,899
184.61	8,566	30,411	185.13	9,048	34,990
184.62	8,575	30,497	185.14	9,057	35,080
184.63	8,584	30,583	185.15	9,067	35,171
184.64	8,593	30,669	185.16	9,076	35,261
184.65	8,602	30,755	185.17	9,086	35,352
184.66	8,612	30,841	185.18	9,096	35,443
184.67	8,621	30,927	185.19	9,105	35,534

Stage-Area-Storage for Pond B-11: Basin #11 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
185.20	9,115	35,625	185.72	9,613	40,495
185.21	9,124	35,716	185.73	9,623	40,591
185.22	9,134	35,808	185.74	9,633	40,687
185.23	9,144	35,899	185.75	9,642	40,783
185.24	9,153	35,991	185.76	9,652	40,880
185.25	9,163	36,082	185.77	9,661	40,977
185.26	9,172	36,174	185.78	9,671	41,073
185.27	9,182	36,266	185.79	9,681	41,170
185.28	9,192	36,358	185.80	9,690	41,267
185.29	9,201	36,449	185.81	9,700	41,364
185.30	9,211	36,542	185.82	9,709	41,461
185.31	9,220	36,634	185.83	9,719	41,558
185.32	9,230	36,726	185.84	9,729	41,655
185.33	9,239	36,818	185.85	9,738	41,752
185.34	9,249	36,911	185.86	9,748	41,850
185.35	9,259	37,003	185.87	9,757	41,947
185.36	9,268	37,096	185.88	9,767	42,045
185.37	9,278	37,189	185.89	9,777	42,143
185.38	9,287	37,281	185.90	9,786	42,241
185.39	9,297	37,374	185.91	9,796	42,339
185.40	9,307	37,467	185.92	9,805	42,437
185.41	9,316	37,561	185.93	9,815	42,535
185.42	9,326	37,654	185.94	9,824	42,633
185.43	9,335	37,747	185.95	9,834	42,731
185.44	9,345	37,840	185.96	9,844	42,829
185.45	9,355	37,934	185.97	9,853	42,928
185.46	9,364	38,028	185.98	9,863	43,027
185.47	9,374	38,121	185.99	9,872	43,125
185.48	9,383	38,215	186.00	9,882	43,224
185.49	9,393	38,309			
185.50	9,403	38,403			
185.51	9,412	38,497			
185.52	9,422	38,591			
185.53	9,431	38,685			
185.54	9,441	38,780			
185.55	9,450	38,874			
185.56	9,460	38,969			
185.57	9,470	39,063			
185.58	9,479	39,158			
185.59	9,489	39,253			
185.60	9,498	39,348			
185.61	9,508	39,443			
185.62	9,518	39,538			
185.63	9,527	39,633			
185.64	9,537	39,729			
185.65	9,546	39,824			
185.66	9,556	39,920			
185.67	9,566	40,015			
185.68	9,575	40,111			
185.69	9,585	40,207			
185.70	9,594	40,303			
185.71	9,604	40,399			

Summary for Pond B-12: Basin #12

Inflow Area = 2.426 ac, 44.77% Impervious, Inflow Depth = 4.20" for Future 10 yr event
 Inflow = 10.33 cfs @ 12.17 hrs, Volume= 0.849 af
 Outflow = 6.40 cfs @ 12.30 hrs, Volume= 0.745 af, Atten= 38%, Lag= 7.7 min
 Primary = 6.40 cfs @ 12.30 hrs, Volume= 0.745 af
 Routed to Link PDA-1 : Proposed Drainage Area #1

Routing by Stor-Ind method, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 Peak Elev= 203.53' @ 12.30 hrs Surf.Area= 6,521 sf Storage= 14,086 cf

Plug-Flow detention time= 172.0 min calculated for 0.745 af (88% of inflow)
 Center-of-Mass det. time= 111.3 min (896.3 - 785.0)

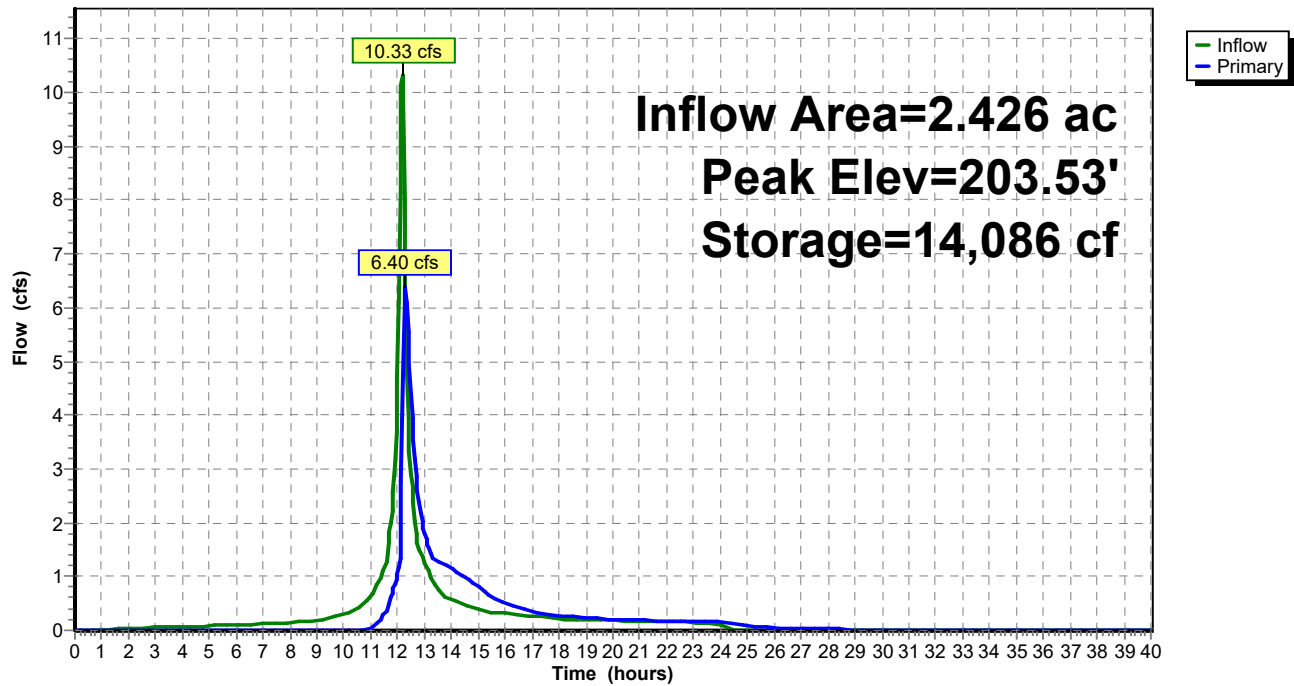
Volume	Invert	Avail.Storage	Storage Description
#1	201.00'	24,487 cf	Custom Stage Data (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
201.00	4,623	0	0
202.00	5,350	4,987	4,987
203.00	6,105	5,728	10,714
204.00	6,883	6,494	17,208
205.00	7,674	7,279	24,487

Device	Routing	Invert	Outlet Devices
#1	Primary	199.65'	18.0" Round Culvert L= 238.0' Ke= 0.500 Inlet / Outlet Invert= 199.65' / 195.50' S= 0.0174 ' / ' Cc= 0.900 n= 0.013, Flow Area= 1.77 sf
#2	Device 1	201.90'	7.5" Vert. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#3	Device 1	203.02'	4.0' long Sharp-Crested Rectangular Weir 2 End Contraction(s)
#4	Primary	204.50'	50.0' long + 3.0 ' / ' SideZ x 5.0' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 Coef. (English) 2.34 2.50 2.70 2.68 2.68 2.66 2.65 2.65 2.65 2.65 2.67 2.66 2.68 2.70 2.74 2.79 2.88

Primary OutFlow Max=6.39 cfs @ 12.30 hrs HW=203.53' (Free Discharge)

1=Culvert (Passes 6.39 cfs of 14.98 cfs potential flow)
 2=Orifice/Grate (Orifice Controls 1.70 cfs @ 5.54 fps)
 3=Sharp-Crested Rectangular Weir (Weir Controls 4.70 cfs @ 2.34 fps)
 4=Broad-Crested Rectangular Weir (Controls 0.00 cfs)

Pond B-12: Basin #12**Hydrograph**

Stage-Discharge for Pond B-12: Basin #12

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
201.00	0.00	201.52	0.00	202.04	0.07	202.56	0.87
201.01	0.00	201.53	0.00	202.05	0.07	202.57	0.88
201.02	0.00	201.54	0.00	202.06	0.08	202.58	0.90
201.03	0.00	201.55	0.00	202.07	0.09	202.59	0.91
201.04	0.00	201.56	0.00	202.08	0.11	202.60	0.92
201.05	0.00	201.57	0.00	202.09	0.12	202.61	0.93
201.06	0.00	201.58	0.00	202.10	0.13	202.62	0.94
201.07	0.00	201.59	0.00	202.11	0.14	202.63	0.95
201.08	0.00	201.60	0.00	202.12	0.15	202.64	0.97
201.09	0.00	201.61	0.00	202.13	0.17	202.65	0.98
201.10	0.00	201.62	0.00	202.14	0.18	202.66	0.99
201.11	0.00	201.63	0.00	202.15	0.20	202.67	1.00
201.12	0.00	201.64	0.00	202.16	0.21	202.68	1.01
201.13	0.00	201.65	0.00	202.17	0.22	202.69	1.02
201.14	0.00	201.66	0.00	202.18	0.24	202.70	1.03
201.15	0.00	201.67	0.00	202.19	0.26	202.71	1.04
201.16	0.00	201.68	0.00	202.20	0.27	202.72	1.05
201.17	0.00	201.69	0.00	202.21	0.29	202.73	1.06
201.18	0.00	201.70	0.00	202.22	0.30	202.74	1.07
201.19	0.00	201.71	0.00	202.23	0.32	202.75	1.08
201.20	0.00	201.72	0.00	202.24	0.34	202.76	1.09
201.21	0.00	201.73	0.00	202.25	0.36	202.77	1.10
201.22	0.00	201.74	0.00	202.26	0.37	202.78	1.11
201.23	0.00	201.75	0.00	202.27	0.39	202.79	1.12
201.24	0.00	201.76	0.00	202.28	0.41	202.80	1.13
201.25	0.00	201.77	0.00	202.29	0.43	202.81	1.14
201.26	0.00	201.78	0.00	202.30	0.45	202.82	1.15
201.27	0.00	201.79	0.00	202.31	0.47	202.83	1.16
201.28	0.00	201.80	0.00	202.32	0.48	202.84	1.17
201.29	0.00	201.81	0.00	202.33	0.50	202.85	1.18
201.30	0.00	201.82	0.00	202.34	0.52	202.86	1.19
201.31	0.00	201.83	0.00	202.35	0.54	202.87	1.20
201.32	0.00	201.84	0.00	202.36	0.56	202.88	1.21
201.33	0.00	201.85	0.00	202.37	0.58	202.89	1.22
201.34	0.00	201.86	0.00	202.38	0.60	202.90	1.22
201.35	0.00	201.87	0.00	202.39	0.61	202.91	1.23
201.36	0.00	201.88	0.00	202.40	0.63	202.92	1.24
201.37	0.00	201.89	0.00	202.41	0.65	202.93	1.25
201.38	0.00	201.90	0.00	202.42	0.67	202.94	1.26
201.39	0.00	201.91	0.00	202.43	0.69	202.95	1.27
201.40	0.00	201.92	0.00	202.44	0.70	202.96	1.28
201.41	0.00	201.93	0.00	202.45	0.72	202.97	1.29
201.42	0.00	201.94	0.01	202.46	0.74	202.98	1.29
201.43	0.00	201.95	0.01	202.47	0.75	202.99	1.30
201.44	0.00	201.96	0.01	202.48	0.77	203.00	1.31
201.45	0.00	201.97	0.02	202.49	0.78	203.01	1.32
201.46	0.00	201.98	0.02	202.50	0.80	203.02	1.33
201.47	0.00	201.99	0.03	202.51	0.81	203.03	1.35
201.48	0.00	202.00	0.03	202.52	0.82	203.04	1.38
201.49	0.00	202.01	0.04	202.53	0.83	203.05	1.42
201.50	0.00	202.02	0.05	202.54	0.85	203.06	1.46
201.51	0.00	202.03	0.06	202.55	0.86	203.07	1.51

Stage-Discharge for Pond B-12: Basin #12 (continued)

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
203.08	1.57	203.60	7.35	204.12	15.64	204.64	22.37
203.09	1.63	203.61	7.50	204.13	15.65	204.65	23.06
203.10	1.69	203.62	7.65	204.14	15.66	204.66	23.77
203.11	1.75	203.63	7.80	204.15	15.67	204.67	24.50
203.12	1.82	203.64	7.95	204.16	15.69	204.68	25.26
203.13	1.89	203.65	8.11	204.17	15.70	204.69	26.03
203.14	1.96	203.66	8.26	204.18	15.71	204.70	26.83
203.15	2.04	203.67	8.42	204.19	15.72	204.71	27.69
203.16	2.12	203.68	8.57	204.20	15.73	204.72	28.57
203.17	2.20	203.69	8.73	204.21	15.74	204.73	29.48
203.18	2.28	203.70	8.89	204.22	15.75	204.74	30.41
203.19	2.37	203.71	9.05	204.23	15.76	204.75	31.37
203.20	2.46	203.72	9.21	204.24	15.77	204.76	32.36
203.21	2.55	203.73	9.37	204.25	15.78	204.77	33.37
203.22	2.64	203.74	9.53	204.26	15.79	204.78	34.40
203.23	2.74	203.75	9.69	204.27	15.81	204.79	35.46
203.24	2.83	203.76	9.86	204.28	15.82	204.80	36.54
203.25	2.93	203.77	10.02	204.29	15.83	204.81	37.65
203.26	3.03	203.78	10.19	204.30	15.84	204.82	38.78
203.27	3.13	203.79	10.35	204.31	15.85	204.83	39.94
203.28	3.24	203.80	10.52	204.32	15.86	204.84	41.12
203.29	3.34	203.81	10.69	204.33	15.87	204.85	42.32
203.30	3.45	203.82	10.86	204.34	15.88	204.86	43.55
203.31	3.56	203.83	11.03	204.35	15.89	204.87	44.80
203.32	3.67	203.84	11.20	204.36	15.90	204.88	46.08
203.33	3.78	203.85	11.37	204.37	15.91	204.89	47.38
203.34	3.90	203.86	11.54	204.38	15.92	204.90	48.71
203.35	4.01	203.87	11.72	204.39	15.94	204.91	50.08
203.36	4.13	203.88	11.89	204.40	15.95	204.92	51.48
203.37	4.25	203.89	12.07	204.41	15.96	204.93	52.91
203.38	4.37	203.90	12.24	204.42	15.97	204.94	54.37
203.39	4.49	203.91	12.42	204.43	15.98	204.95	55.85
203.40	4.62	203.92	12.60	204.44	15.99	204.96	57.35
203.41	4.74	203.93	12.77	204.45	16.00	204.97	58.89
203.42	4.87	203.94	12.95	204.46	16.01	204.98	60.45
203.43	4.99	203.95	13.13	204.47	16.02	204.99	62.03
203.44	5.12	203.96	13.31	204.48	16.03	205.00	63.65
203.45	5.25	203.97	13.49	204.49	16.04		
203.46	5.38	203.98	13.68	204.50	16.05		
203.47	5.52	203.99	13.86	204.51	16.18		
203.48	5.65	204.00	14.04	204.52	16.41		
203.49	5.79	204.01	14.23	204.53	16.69		
203.50	5.92	204.02	14.41	204.54	17.03		
203.51	6.06	204.03	14.60	204.55	17.42		
203.52	6.20	204.04	14.78	204.56	17.84		
203.53	6.34	204.05	14.97	204.57	18.30		
203.54	6.48	204.06	15.16	204.58	18.80		
203.55	6.62	204.07	15.35	204.59	19.32		
203.56	6.77	204.08	15.54	204.60	19.88		
203.57	6.91	204.09	15.61	204.61	20.46		
203.58	7.06	204.10	15.62	204.62	21.07		
203.59	7.20	204.11	15.63	204.63	21.71		

Stage-Area-Storage for Pond B-12: Basin #12

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
201.00	4,623	0	201.52	5,001	2,502
201.01	4,630	46	201.53	5,008	2,552
201.02	4,638	93	201.54	5,016	2,602
201.03	4,645	139	201.55	5,023	2,653
201.04	4,652	186	201.56	5,030	2,703
201.05	4,659	232	201.57	5,037	2,753
201.06	4,667	279	201.58	5,045	2,804
201.07	4,674	325	201.59	5,052	2,854
201.08	4,681	372	201.60	5,059	2,905
201.09	4,688	419	201.61	5,066	2,955
201.10	4,696	466	201.62	5,074	3,006
201.11	4,703	513	201.63	5,081	3,057
201.12	4,710	560	201.64	5,088	3,108
201.13	4,718	607	201.65	5,096	3,159
201.14	4,725	654	201.66	5,103	3,210
201.15	4,732	702	201.67	5,110	3,261
201.16	4,739	749	201.68	5,117	3,312
201.17	4,747	796	201.69	5,125	3,363
201.18	4,754	844	201.70	5,132	3,414
201.19	4,761	891	201.71	5,139	3,466
201.20	4,768	939	201.72	5,146	3,517
201.21	4,776	987	201.73	5,154	3,568
201.22	4,783	1,035	201.74	5,161	3,620
201.23	4,790	1,083	201.75	5,168	3,672
201.24	4,797	1,130	201.76	5,176	3,723
201.25	4,805	1,178	201.77	5,183	3,775
201.26	4,812	1,227	201.78	5,190	3,827
201.27	4,819	1,275	201.79	5,197	3,879
201.28	4,827	1,323	201.80	5,205	3,931
201.29	4,834	1,371	201.81	5,212	3,983
201.30	4,841	1,420	201.82	5,219	4,035
201.31	4,848	1,468	201.83	5,226	4,088
201.32	4,856	1,517	201.84	5,234	4,140
201.33	4,863	1,565	201.85	5,241	4,192
201.34	4,870	1,614	201.86	5,248	4,245
201.35	4,877	1,663	201.87	5,255	4,297
201.36	4,885	1,711	201.88	5,263	4,350
201.37	4,892	1,760	201.89	5,270	4,402
201.38	4,899	1,809	201.90	5,277	4,455
201.39	4,907	1,858	201.91	5,285	4,508
201.40	4,914	1,907	201.92	5,292	4,561
201.41	4,921	1,957	201.93	5,299	4,614
201.42	4,928	2,006	201.94	5,306	4,667
201.43	4,936	2,055	201.95	5,314	4,720
201.44	4,943	2,104	201.96	5,321	4,773
201.45	4,950	2,154	201.97	5,328	4,826
201.46	4,957	2,203	201.98	5,335	4,880
201.47	4,965	2,253	201.99	5,343	4,933
201.48	4,972	2,303	202.00	5,350	4,987
201.49	4,979	2,353	202.01	5,358	5,040
201.50	4,987	2,402	202.02	5,365	5,094
201.51	4,994	2,452	202.03	5,373	5,147

Stage-Area-Storage for Pond B-12: Basin #12 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
202.04	5,380	5,201	202.56	5,773	8,101
202.05	5,388	5,255	202.57	5,780	8,159
202.06	5,395	5,309	202.58	5,788	8,216
202.07	5,403	5,363	202.59	5,795	8,274
202.08	5,410	5,417	202.60	5,803	8,332
202.09	5,418	5,471	202.61	5,811	8,390
202.10	5,425	5,525	202.62	5,818	8,449
202.11	5,433	5,580	202.63	5,826	8,507
202.12	5,441	5,634	202.64	5,833	8,565
202.13	5,448	5,688	202.65	5,841	8,623
202.14	5,456	5,743	202.66	5,848	8,682
202.15	5,463	5,797	202.67	5,856	8,740
202.16	5,471	5,852	202.68	5,863	8,799
202.17	5,478	5,907	202.69	5,871	8,858
202.18	5,486	5,962	202.70	5,878	8,916
202.19	5,493	6,017	202.71	5,886	8,975
202.20	5,501	6,072	202.72	5,894	9,034
202.21	5,509	6,127	202.73	5,901	9,093
202.22	5,516	6,182	202.74	5,909	9,152
202.23	5,524	6,237	202.75	5,916	9,211
202.24	5,531	6,292	202.76	5,924	9,271
202.25	5,539	6,348	202.77	5,931	9,330
202.26	5,546	6,403	202.78	5,939	9,389
202.27	5,554	6,459	202.79	5,946	9,449
202.28	5,561	6,514	202.80	5,954	9,508
202.29	5,569	6,570	202.81	5,962	9,568
202.30	5,577	6,625	202.82	5,969	9,627
202.31	5,584	6,681	202.83	5,977	9,687
202.32	5,592	6,737	202.84	5,984	9,747
202.33	5,599	6,793	202.85	5,992	9,807
202.34	5,607	6,849	202.86	5,999	9,867
202.35	5,614	6,905	202.87	6,007	9,927
202.36	5,622	6,961	202.88	6,014	9,987
202.37	5,629	7,018	202.89	6,022	10,047
202.38	5,637	7,074	202.90	6,030	10,107
202.39	5,644	7,130	202.91	6,037	10,168
202.40	5,652	7,187	202.92	6,045	10,228
202.41	5,660	7,243	202.93	6,052	10,288
202.42	5,667	7,300	202.94	6,060	10,349
202.43	5,675	7,357	202.95	6,067	10,410
202.44	5,682	7,414	202.96	6,075	10,470
202.45	5,690	7,470	202.97	6,082	10,531
202.46	5,697	7,527	202.98	6,090	10,592
202.47	5,705	7,584	202.99	6,097	10,653
202.48	5,712	7,641	203.00	6,105	10,714
202.49	5,720	7,699	203.01	6,113	10,775
202.50	5,728	7,756	203.02	6,121	10,836
202.51	5,735	7,813	203.03	6,128	10,898
202.52	5,743	7,871	203.04	6,136	10,959
202.53	5,750	7,928	203.05	6,144	11,020
202.54	5,758	7,986	203.06	6,152	11,082
202.55	5,765	8,043	203.07	6,159	11,143

Stage-Area-Storage for Pond B-12: Basin #12 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
203.08	6,167	11,205	203.60	6,572	14,517
203.09	6,175	11,267	203.61	6,580	14,583
203.10	6,183	11,328	203.62	6,587	14,649
203.11	6,191	11,390	203.63	6,595	14,715
203.12	6,198	11,452	203.64	6,603	14,781
203.13	6,206	11,514	203.65	6,611	14,847
203.14	6,214	11,576	203.66	6,618	14,913
203.15	6,222	11,639	203.67	6,626	14,979
203.16	6,229	11,701	203.68	6,634	15,045
203.17	6,237	11,763	203.69	6,642	15,112
203.18	6,245	11,826	203.70	6,650	15,178
203.19	6,253	11,888	203.71	6,657	15,245
203.20	6,261	11,951	203.72	6,665	15,311
203.21	6,268	12,013	203.73	6,673	15,378
203.22	6,276	12,076	203.74	6,681	15,445
203.23	6,284	12,139	203.75	6,689	15,512
203.24	6,292	12,202	203.76	6,696	15,578
203.25	6,300	12,265	203.77	6,704	15,645
203.26	6,307	12,328	203.78	6,712	15,713
203.27	6,315	12,391	203.79	6,720	15,780
203.28	6,323	12,454	203.80	6,727	15,847
203.29	6,331	12,517	203.81	6,735	15,914
203.30	6,338	12,581	203.82	6,743	15,982
203.31	6,346	12,644	203.83	6,751	16,049
203.32	6,354	12,707	203.84	6,759	16,117
203.33	6,362	12,771	203.85	6,766	16,184
203.34	6,370	12,835	203.86	6,774	16,252
203.35	6,377	12,898	203.87	6,782	16,320
203.36	6,385	12,962	203.88	6,790	16,388
203.37	6,393	13,026	203.89	6,797	16,456
203.38	6,401	13,090	203.90	6,805	16,524
203.39	6,408	13,154	203.91	6,813	16,592
203.40	6,416	13,218	203.92	6,821	16,660
203.41	6,424	13,282	203.93	6,829	16,728
203.42	6,432	13,347	203.94	6,836	16,796
203.43	6,440	13,411	203.95	6,844	16,865
203.44	6,447	13,476	203.96	6,852	16,933
203.45	6,455	13,540	203.97	6,860	17,002
203.46	6,463	13,605	203.98	6,867	17,070
203.47	6,471	13,669	203.99	6,875	17,139
203.48	6,478	13,734	204.00	6,883	17,208
203.49	6,486	13,799	204.01	6,891	17,277
203.50	6,494	13,864	204.02	6,899	17,346
203.51	6,502	13,929	204.03	6,907	17,415
203.52	6,510	13,994	204.04	6,915	17,484
203.53	6,517	14,059	204.05	6,923	17,553
203.54	6,525	14,124	204.06	6,930	17,622
203.55	6,533	14,189	204.07	6,938	17,692
203.56	6,541	14,255	204.08	6,946	17,761
203.57	6,548	14,320	204.09	6,954	17,831
203.58	6,556	14,386	204.10	6,962	17,900
203.59	6,564	14,451	204.11	6,970	17,970

Stage-Area-Storage for Pond B-12: Basin #12 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
204.12	6,978	18,040	204.64	7,389	21,775
204.13	6,986	18,109	204.65	7,397	21,849
204.14	6,994	18,179	204.66	7,405	21,923
204.15	7,002	18,249	204.67	7,413	21,997
204.16	7,010	18,319	204.68	7,421	22,071
204.17	7,017	18,390	204.69	7,429	22,146
204.18	7,025	18,460	204.70	7,437	22,220
204.19	7,033	18,530	204.71	7,445	22,294
204.20	7,041	18,600	204.72	7,453	22,369
204.21	7,049	18,671	204.73	7,460	22,443
204.22	7,057	18,741	204.74	7,468	22,518
204.23	7,065	18,812	204.75	7,476	22,593
204.24	7,073	18,883	204.76	7,484	22,668
204.25	7,081	18,953	204.77	7,492	22,742
204.26	7,089	19,024	204.78	7,500	22,817
204.27	7,097	19,095	204.79	7,508	22,892
204.28	7,104	19,166	204.80	7,516	22,968
204.29	7,112	19,237	204.81	7,524	23,043
204.30	7,120	19,308	204.82	7,532	23,118
204.31	7,128	19,380	204.83	7,540	23,193
204.32	7,136	19,451	204.84	7,547	23,269
204.33	7,144	19,522	204.85	7,555	23,344
204.34	7,152	19,594	204.86	7,563	23,420
204.35	7,160	19,665	204.87	7,571	23,496
204.36	7,168	19,737	204.88	7,579	23,571
204.37	7,176	19,809	204.89	7,587	23,647
204.38	7,184	19,881	204.90	7,595	23,723
204.39	7,191	19,953	204.91	7,603	23,799
204.40	7,199	20,024	204.92	7,611	23,875
204.41	7,207	20,097	204.93	7,619	23,951
204.42	7,215	20,169	204.94	7,627	24,027
204.43	7,223	20,241	204.95	7,634	24,104
204.44	7,231	20,313	204.96	7,642	24,180
204.45	7,239	20,385	204.97	7,650	24,257
204.46	7,247	20,458	204.98	7,658	24,333
204.47	7,255	20,530	204.99	7,666	24,410
204.48	7,263	20,603	205.00	7,674	24,487
204.49	7,271	20,676			
204.50	7,279	20,748			
204.51	7,286	20,821			
204.52	7,294	20,894			
204.53	7,302	20,967			
204.54	7,310	21,040			
204.55	7,318	21,113			
204.56	7,326	21,187			
204.57	7,334	21,260			
204.58	7,342	21,333			
204.59	7,350	21,407			
204.60	7,358	21,480			
204.61	7,366	21,554			
204.62	7,373	21,627			
204.63	7,381	21,701			

Summary for Pond B-13: Basin #13

Inflow Area = 2.350 ac, 62.43% Impervious, Inflow Depth = 4.65" for Future 10 yr event
 Inflow = 10.81 cfs @ 12.17 hrs, Volume= 0.911 af
 Outflow = 3.60 cfs @ 12.44 hrs, Volume= 0.697 af, Atten= 67%, Lag= 16.1 min
 Primary = 3.60 cfs @ 12.44 hrs, Volume= 0.697 af
 Routed to Link PDA-1 : Proposed Drainage Area #1

Routing by Stor-Ind method, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 Peak Elev= 194.36' @ 12.44 hrs Surf.Area= 9,969 sf Storage= 21,177 cf

Plug-Flow detention time= 465.5 min calculated for 0.697 af (76% of inflow)
 Center-of-Mass det. time= 376.7 min (1,148.1 - 771.5)

Volume	Invert	Avail.Storage	Storage Description
#1	192.00'	38,667 cf	Custom Stage Data (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
192.00	7,975	0	0
193.00	8,804	8,390	8,390
194.00	9,654	9,229	17,619
195.00	10,522	10,088	27,707
196.00	11,399	10,961	38,667

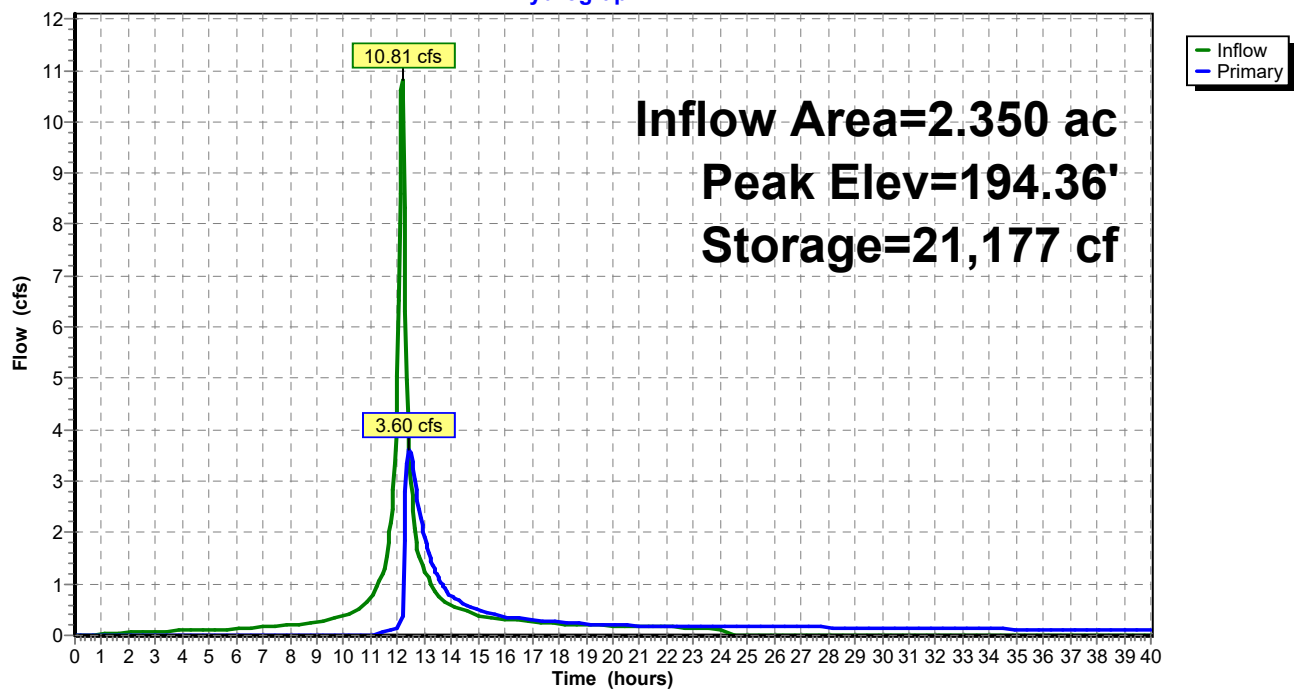
Device	Routing	Invert	Outlet Devices
#1	Primary	190.65'	18.0" Round Culvert L= 57.0' Ke= 0.500 Inlet / Outlet Invert= 190.65' / 188.00' S= 0.0465 '/' Cc= 0.900 n= 0.013, Flow Area= 1.77 sf
#2	Device 1	192.70'	2.5" Vert. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#3	Device 1	193.95'	4.0' long Sharp-Crested Rectangular Weir 2 End Contraction(s)
#4	Primary	194.96'	50.0' long + 3.0 '/' SideZ x 5.0' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 Coef. (English) 2.34 2.50 2.70 2.68 2.68 2.66 2.65 2.65 2.65 2.65 2.67 2.66 2.68 2.70 2.74 2.79 2.88

Primary OutFlow Max=3.59 cfs @ 12.44 hrs HW=194.36' (Free Discharge)

1=Culvert (Passes 3.59 cfs of 14.64 cfs potential flow)
 2=Orifice/Grate (Orifice Controls 0.20 cfs @ 6.01 fps)
 3=Sharp-Crested Rectangular Weir (Weir Controls 3.39 cfs @ 2.10 fps)
 4=Broad-Crested Rectangular Weir (Controls 0.00 cfs)

Pond B-13: Basin #13

Hydrograph



Stage-Discharge for Pond B-13: Basin #13

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
192.00	0.00	192.52	0.00	193.04	0.08	193.56	0.14
192.01	0.00	192.53	0.00	193.05	0.08	193.57	0.14
192.02	0.00	192.54	0.00	193.06	0.08	193.58	0.14
192.03	0.00	192.55	0.00	193.07	0.08	193.59	0.15
192.04	0.00	192.56	0.00	193.08	0.09	193.60	0.15
192.05	0.00	192.57	0.00	193.09	0.09	193.61	0.15
192.06	0.00	192.58	0.00	193.10	0.09	193.62	0.15
192.07	0.00	192.59	0.00	193.11	0.09	193.63	0.15
192.08	0.00	192.60	0.00	193.12	0.09	193.64	0.15
192.09	0.00	192.61	0.00	193.13	0.09	193.65	0.15
192.10	0.00	192.62	0.00	193.14	0.10	193.66	0.15
192.11	0.00	192.63	0.00	193.15	0.10	193.67	0.15
192.12	0.00	192.64	0.00	193.16	0.10	193.68	0.15
192.13	0.00	192.65	0.00	193.17	0.10	193.69	0.15
192.14	0.00	192.66	0.00	193.18	0.10	193.70	0.16
192.15	0.00	192.67	0.00	193.19	0.10	193.71	0.16
192.16	0.00	192.68	0.00	193.20	0.10	193.72	0.16
192.17	0.00	192.69	0.00	193.21	0.10	193.73	0.16
192.18	0.00	192.70	0.00	193.22	0.11	193.74	0.16
192.19	0.00	192.71	0.00	193.23	0.11	193.75	0.16
192.20	0.00	192.72	0.00	193.24	0.11	193.76	0.16
192.21	0.00	192.73	0.00	193.25	0.11	193.77	0.16
192.22	0.00	192.74	0.00	193.26	0.11	193.78	0.16
192.23	0.00	192.75	0.00	193.27	0.11	193.79	0.16
192.24	0.00	192.76	0.01	193.28	0.11	193.80	0.16
192.25	0.00	192.77	0.01	193.29	0.11	193.81	0.16
192.26	0.00	192.78	0.01	193.30	0.12	193.82	0.17
192.27	0.00	192.79	0.01	193.31	0.12	193.83	0.17
192.28	0.00	192.80	0.02	193.32	0.12	193.84	0.17
192.29	0.00	192.81	0.02	193.33	0.12	193.85	0.17
192.30	0.00	192.82	0.02	193.34	0.12	193.86	0.17
192.31	0.00	192.83	0.03	193.35	0.12	193.87	0.17
192.32	0.00	192.84	0.03	193.36	0.12	193.88	0.17
192.33	0.00	192.85	0.03	193.37	0.12	193.89	0.17
192.34	0.00	192.86	0.04	193.38	0.12	193.90	0.17
192.35	0.00	192.87	0.04	193.39	0.13	193.91	0.17
192.36	0.00	192.88	0.05	193.40	0.13	193.92	0.17
192.37	0.00	192.89	0.05	193.41	0.13	193.93	0.17
192.38	0.00	192.90	0.05	193.42	0.13	193.94	0.17
192.39	0.00	192.91	0.05	193.43	0.13	193.95	0.18
192.40	0.00	192.92	0.06	193.44	0.13	193.96	0.19
192.41	0.00	192.93	0.06	193.45	0.13	193.97	0.21
192.42	0.00	192.94	0.06	193.46	0.13	193.98	0.25
192.43	0.00	192.95	0.06	193.47	0.13	193.99	0.28
192.44	0.00	192.96	0.06	193.48	0.13	194.00	0.33
192.45	0.00	192.97	0.07	193.49	0.14	194.01	0.37
192.46	0.00	192.98	0.07	193.50	0.14	194.02	0.42
192.47	0.00	192.99	0.07	193.51	0.14	194.03	0.48
192.48	0.00	193.00	0.07	193.52	0.14	194.04	0.53
192.49	0.00	193.01	0.07	193.53	0.14	194.05	0.59
192.50	0.00	193.02	0.08	193.54	0.14	194.06	0.66
192.51	0.00	193.03	0.08	193.55	0.14	194.07	0.73

Stage-Discharge for Pond B-13: Basin #13 (continued)

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
194.08	0.79	194.60	6.85	195.12	23.38	195.64	95.46
194.09	0.87	194.61	7.00	195.13	24.29	195.65	97.21
194.10	0.94	194.62	7.15	195.14	25.23	195.66	98.98
194.11	1.02	194.63	7.31	195.15	26.19	195.67	100.76
194.12	1.10	194.64	7.46	195.16	27.06	195.68	102.55
194.13	1.18	194.65	7.62	195.17	27.93	195.69	104.36
194.14	1.26	194.66	7.77	195.18	28.83	195.70	106.17
194.15	1.35	194.67	7.93	195.19	29.75	195.71	108.00
194.16	1.44	194.68	8.09	195.20	30.69	195.72	109.84
194.17	1.53	194.69	8.24	195.21	31.66	195.73	111.70
194.18	1.62	194.70	8.40	195.22	32.66	195.74	113.56
194.19	1.71	194.71	8.56	195.23	33.68	195.75	115.44
194.20	1.81	194.72	8.72	195.24	34.72	195.76	117.33
194.21	1.91	194.73	8.89	195.25	35.79	195.77	119.27
194.22	2.01	194.74	9.05	195.26	36.89	195.78	121.22
194.23	2.11	194.75	9.21	195.27	38.00	195.79	123.19
194.24	2.21	194.76	9.38	195.28	39.15	195.80	125.17
194.25	2.31	194.77	9.54	195.29	40.31	195.81	127.16
194.26	2.42	194.78	9.71	195.30	41.51	195.82	129.17
194.27	2.53	194.79	9.88	195.31	42.72	195.83	131.19
194.28	2.64	194.80	10.05	195.32	43.96	195.84	133.22
194.29	2.75	194.81	10.22	195.33	45.23	195.85	135.27
194.30	2.86	194.82	10.39	195.34	46.51	195.86	137.32
194.31	2.98	194.83	10.56	195.35	47.83	195.87	139.39
194.32	3.09	194.84	10.73	195.36	49.16	195.88	141.48
194.33	3.21	194.85	10.90	195.37	50.55	195.89	143.57
194.34	3.33	194.86	11.07	195.38	51.96	195.90	145.68
194.35	3.45	194.87	11.25	195.39	53.40	195.91	147.80
194.36	3.57	194.88	11.42	195.40	54.87	195.92	149.94
194.37	3.69	194.89	11.60	195.41	56.36	195.93	152.09
194.38	3.81	194.90	11.77	195.42	57.88	195.94	154.25
194.39	3.94	194.91	11.95	195.43	59.42	195.95	156.42
194.40	4.07	194.92	12.13	195.44	60.99	195.96	158.60
194.41	4.19	194.93	12.31	195.45	62.59	195.97	160.75
194.42	4.32	194.94	12.49	195.46	64.21	195.98	162.90
194.43	4.45	194.95	12.67	195.47	65.86	195.99	165.07
194.44	4.59	194.96	12.85	195.48	67.53	196.00	167.24
194.45	4.72	194.97	13.15	195.49	69.24		
194.46	4.85	194.98	13.54	195.50	70.97		
194.47	4.99	194.99	14.00	195.51	72.72		
194.48	5.13	195.00	14.52	195.52	74.50		
194.49	5.26	195.01	15.07	195.53	76.31		
194.50	5.40	195.02	15.67	195.54	78.15		
194.51	5.54	195.03	16.31	195.55	80.01		
194.52	5.68	195.04	16.98	195.56	81.90		
194.53	5.83	195.05	17.68	195.57	83.55		
194.54	5.97	195.06	18.41	195.58	85.21		
194.55	6.11	195.07	19.17	195.59	86.89		
194.56	6.26	195.08	19.96	195.60	88.58		
194.57	6.41	195.09	20.78	195.61	90.28		
194.58	6.55	195.10	21.62	195.62	91.99		
194.59	6.70	195.11	22.49	195.63	93.72		

Stage-Area-Storage for Pond B-13: Basin #13

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
192.00	7,975	0	192.52	8,406	4,259
192.01	7,983	80	192.53	8,414	4,343
192.02	7,992	160	192.54	8,423	4,427
192.03	8,000	240	192.55	8,431	4,512
192.04	8,008	320	192.56	8,439	4,596
192.05	8,016	400	192.57	8,448	4,680
192.06	8,025	480	192.58	8,456	4,765
192.07	8,033	560	192.59	8,464	4,850
192.08	8,041	641	192.60	8,472	4,934
192.09	8,050	721	192.61	8,481	5,019
192.10	8,058	802	192.62	8,489	5,104
192.11	8,066	882	192.63	8,497	5,189
192.12	8,074	963	192.64	8,506	5,274
192.13	8,083	1,044	192.65	8,514	5,359
192.14	8,091	1,125	192.66	8,522	5,444
192.15	8,099	1,206	192.67	8,530	5,529
192.16	8,108	1,287	192.68	8,539	5,615
192.17	8,116	1,368	192.69	8,547	5,700
192.18	8,124	1,449	192.70	8,555	5,786
192.19	8,133	1,530	192.71	8,564	5,871
192.20	8,141	1,612	192.72	8,572	5,957
192.21	8,149	1,693	192.73	8,580	6,043
192.22	8,157	1,775	192.74	8,588	6,128
192.23	8,166	1,856	192.75	8,597	6,214
192.24	8,174	1,938	192.76	8,605	6,300
192.25	8,182	2,020	192.77	8,613	6,387
192.26	8,191	2,102	192.78	8,622	6,473
192.27	8,199	2,183	192.79	8,630	6,559
192.28	8,207	2,265	192.80	8,638	6,645
192.29	8,215	2,348	192.81	8,646	6,732
192.30	8,224	2,430	192.82	8,655	6,818
192.31	8,232	2,512	192.83	8,663	6,905
192.32	8,240	2,594	192.84	8,671	6,991
192.33	8,249	2,677	192.85	8,680	7,078
192.34	8,257	2,759	192.86	8,688	7,165
192.35	8,265	2,842	192.87	8,696	7,252
192.36	8,273	2,925	192.88	8,705	7,339
192.37	8,282	3,007	192.89	8,713	7,426
192.38	8,290	3,090	192.90	8,721	7,513
192.39	8,298	3,173	192.91	8,729	7,600
192.40	8,307	3,256	192.92	8,738	7,688
192.41	8,315	3,339	192.93	8,746	7,775
192.42	8,323	3,423	192.94	8,754	7,863
192.43	8,331	3,506	192.95	8,763	7,950
192.44	8,340	3,589	192.96	8,771	8,038
192.45	8,348	3,673	192.97	8,779	8,126
192.46	8,356	3,756	192.98	8,787	8,214
192.47	8,365	3,840	192.99	8,796	8,302
192.48	8,373	3,924	193.00	8,804	8,390
192.49	8,381	4,007	193.01	8,812	8,478
192.50	8,390	4,091	193.02	8,821	8,566
192.51	8,398	4,175	193.03	8,830	8,654

Stage-Area-Storage for Pond B-13: Basin #13 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
193.04	8,838	8,742	193.56	9,280	13,453
193.05	8,847	8,831	193.57	9,288	13,546
193.06	8,855	8,919	193.58	9,297	13,639
193.07	8,863	9,008	193.59	9,306	13,732
193.08	8,872	9,097	193.60	9,314	13,825
193.09	8,881	9,185	193.61	9,323	13,918
193.10	8,889	9,274	193.62	9,331	14,011
193.11	8,898	9,363	193.63	9,339	14,105
193.12	8,906	9,452	193.64	9,348	14,198
193.13	8,914	9,541	193.65	9,357	14,292
193.14	8,923	9,630	193.66	9,365	14,385
193.15	8,932	9,720	193.67	9,373	14,479
193.16	8,940	9,809	193.68	9,382	14,573
193.17	8,948	9,898	193.69	9,390	14,667
193.18	8,957	9,988	193.70	9,399	14,761
193.19	8,965	10,078	193.71	9,408	14,855
193.20	8,974	10,167	193.72	9,416	14,949
193.21	8,983	10,257	193.73	9,424	15,043
193.22	8,991	10,347	193.74	9,433	15,137
193.23	8,999	10,437	193.75	9,442	15,232
193.24	9,008	10,527	193.76	9,450	15,326
193.25	9,017	10,617	193.77	9,459	15,421
193.26	9,025	10,707	193.78	9,467	15,515
193.27	9,034	10,798	193.79	9,475	15,610
193.28	9,042	10,888	193.80	9,484	15,705
193.29	9,050	10,978	193.81	9,493	15,800
193.30	9,059	11,069	193.82	9,501	15,895
193.31	9,068	11,160	193.83	9,510	15,990
193.32	9,076	11,250	193.84	9,518	16,085
193.33	9,085	11,341	193.85	9,526	16,180
193.34	9,093	11,432	193.86	9,535	16,275
193.35	9,101	11,523	193.87	9,544	16,371
193.36	9,110	11,614	193.88	9,552	16,466
193.37	9,119	11,705	193.89	9,560	16,562
193.38	9,127	11,796	193.90	9,569	16,657
193.39	9,135	11,888	193.91	9,577	16,753
193.40	9,144	11,979	193.92	9,586	16,849
193.41	9,152	12,071	193.93	9,595	16,945
193.42	9,161	12,162	193.94	9,603	17,041
193.43	9,170	12,254	193.95	9,611	17,137
193.44	9,178	12,346	193.96	9,620	17,233
193.45	9,186	12,437	193.97	9,628	17,329
193.46	9,195	12,529	193.98	9,637	17,426
193.47	9,203	12,621	193.99	9,646	17,522
193.48	9,212	12,713	194.00	9,654	17,619
193.49	9,221	12,806	194.01	9,663	17,715
193.50	9,229	12,898	194.02	9,671	17,812
193.51	9,237	12,990	194.03	9,680	17,909
193.52	9,246	13,083	194.04	9,689	18,005
193.53	9,255	13,175	194.05	9,697	18,102
193.54	9,263	13,268	194.06	9,706	18,199
193.55	9,272	13,360	194.07	9,715	18,296

Stage-Area-Storage for Pond B-13: Basin #13 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
194.08	9,723	18,394	194.60	10,175	23,567
194.09	9,732	18,491	194.61	10,183	23,669
194.10	9,741	18,588	194.62	10,192	23,771
194.11	9,749	18,686	194.63	10,201	23,873
194.12	9,758	18,783	194.64	10,210	23,975
194.13	9,767	18,881	194.65	10,218	24,077
194.14	9,776	18,979	194.66	10,227	24,179
194.15	9,784	19,076	194.67	10,236	24,282
194.16	9,793	19,174	194.68	10,244	24,384
194.17	9,802	19,272	194.69	10,253	24,486
194.18	9,810	19,370	194.70	10,262	24,589
194.19	9,819	19,468	194.71	10,270	24,692
194.20	9,828	19,567	194.72	10,279	24,794
194.21	9,836	19,665	194.73	10,288	24,897
194.22	9,845	19,763	194.74	10,296	25,000
194.23	9,854	19,862	194.75	10,305	25,103
194.24	9,862	19,960	194.76	10,314	25,206
194.25	9,871	20,059	194.77	10,322	25,309
194.26	9,880	20,158	194.78	10,331	25,413
194.27	9,888	20,257	194.79	10,340	25,516
194.28	9,897	20,356	194.80	10,348	25,619
194.29	9,906	20,455	194.81	10,357	25,723
194.30	9,914	20,554	194.82	10,366	25,827
194.31	9,923	20,653	194.83	10,374	25,930
194.32	9,932	20,752	194.84	10,383	26,034
194.33	9,940	20,852	194.85	10,392	26,138
194.34	9,949	20,951	194.86	10,400	26,242
194.35	9,958	21,051	194.87	10,409	26,346
194.36	9,966	21,150	194.88	10,418	26,450
194.37	9,975	21,250	194.89	10,427	26,554
194.38	9,984	21,350	194.90	10,435	26,659
194.39	9,993	21,450	194.91	10,444	26,763
194.40	10,001	21,550	194.92	10,453	26,868
194.41	10,010	21,650	194.93	10,461	26,972
194.42	10,019	21,750	194.94	10,470	27,077
194.43	10,027	21,850	194.95	10,479	27,181
194.44	10,036	21,950	194.96	10,487	27,286
194.45	10,045	22,051	194.97	10,496	27,391
194.46	10,053	22,151	194.98	10,505	27,496
194.47	10,062	22,252	194.99	10,513	27,601
194.48	10,071	22,352	195.00	10,522	27,707
194.49	10,079	22,453	195.01	10,531	27,812
194.50	10,088	22,554	195.02	10,540	27,917
194.51	10,097	22,655	195.03	10,548	28,023
194.52	10,105	22,756	195.04	10,557	28,128
194.53	10,114	22,857	195.05	10,566	28,234
194.54	10,123	22,958	195.06	10,575	28,339
194.55	10,131	23,059	195.07	10,583	28,445
194.56	10,140	23,161	195.08	10,592	28,551
194.57	10,149	23,262	195.09	10,601	28,657
194.58	10,157	23,364	195.10	10,610	28,763
194.59	10,166	23,465	195.11	10,618	28,869

Stage-Area-Storage for Pond B-13: Basin #13 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
195.12	10,627	28,975	195.64	11,083	34,620
195.13	10,636	29,082	195.65	11,092	34,731
195.14	10,645	29,188	195.66	11,101	34,842
195.15	10,654	29,295	195.67	11,110	34,953
195.16	10,662	29,401	195.68	11,118	35,064
195.17	10,671	29,508	195.69	11,127	35,175
195.18	10,680	29,615	195.70	11,136	35,287
195.19	10,689	29,722	195.71	11,145	35,398
195.20	10,697	29,828	195.72	11,153	35,510
195.21	10,706	29,935	195.73	11,162	35,621
195.22	10,715	30,043	195.74	11,171	35,733
195.23	10,724	30,150	195.75	11,180	35,845
195.24	10,732	30,257	195.76	11,189	35,956
195.25	10,741	30,364	195.77	11,197	36,068
195.26	10,750	30,472	195.78	11,206	36,180
195.27	10,759	30,579	195.79	11,215	36,293
195.28	10,768	30,687	195.80	11,224	36,405
195.29	10,776	30,795	195.81	11,232	36,517
195.30	10,785	30,903	195.82	11,241	36,629
195.31	10,794	31,010	195.83	11,250	36,742
195.32	10,803	31,118	195.84	11,259	36,854
195.33	10,811	31,227	195.85	11,267	36,967
195.34	10,820	31,335	195.86	11,276	37,080
195.35	10,829	31,443	195.87	11,285	37,193
195.36	10,838	31,551	195.88	11,294	37,305
195.37	10,846	31,660	195.89	11,303	37,418
195.38	10,855	31,768	195.90	11,311	37,531
195.39	10,864	31,877	195.91	11,320	37,645
195.40	10,873	31,985	195.92	11,329	37,758
195.41	10,882	32,094	195.93	11,338	37,871
195.42	10,890	32,203	195.94	11,346	37,985
195.43	10,899	32,312	195.95	11,355	38,098
195.44	10,908	32,421	195.96	11,364	38,212
195.45	10,917	32,530	195.97	11,373	38,325
195.46	10,925	32,639	195.98	11,381	38,439
195.47	10,934	32,749	195.99	11,390	38,553
195.48	10,943	32,858	196.00	11,399	38,667
195.49	10,952	32,968			
195.50	10,961	33,077			
195.51	10,969	33,187			
195.52	10,978	33,297			
195.53	10,987	33,406			
195.54	10,996	33,516			
195.55	11,004	33,626			
195.56	11,013	33,736			
195.57	11,022	33,847			
195.58	11,031	33,957			
195.59	11,039	34,067			
195.60	11,048	34,178			
195.61	11,057	34,288			
195.62	11,066	34,399			
195.63	11,075	34,509			

Summary for Pond B-14: Basin #14

Inflow Area = 2.148 ac, 23.65% Impervious, Inflow Depth = 3.66" for Future 10 yr event
 Inflow = 8.26 cfs @ 12.17 hrs, Volume= 0.656 af
 Outflow = 2.60 cfs @ 12.47 hrs, Volume= 0.549 af, Atten= 68%, Lag= 17.9 min
 Primary = 2.60 cfs @ 12.47 hrs, Volume= 0.549 af
 Routed to Link PDA-1 : Proposed Drainage Area #1

Routing by Stor-Ind method, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 Peak Elev= 193.78' @ 12.47 hrs Surf.Area= 8,274 sf Storage= 13,785 cf

Plug-Flow detention time= 426.7 min calculated for 0.549 af (84% of inflow)
 Center-of-Mass det. time= 353.8 min (1,159.3 - 805.4)

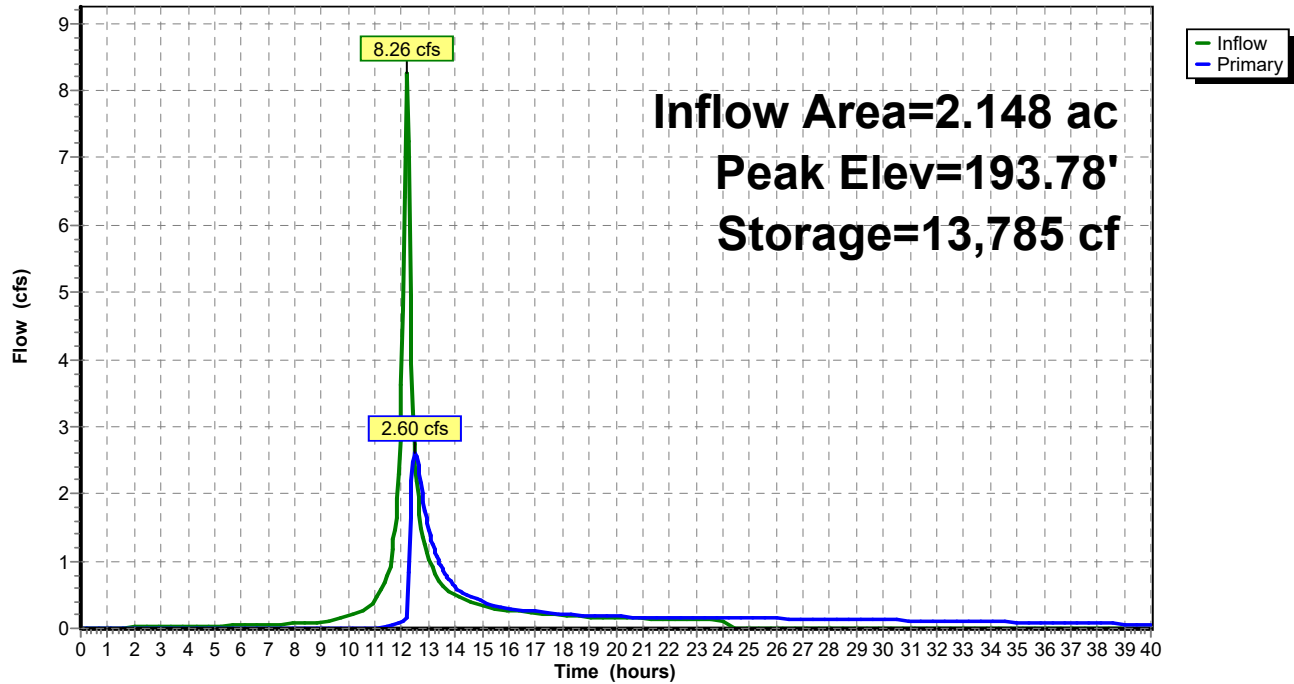
Volume	Invert	Avail.Storage	Storage Description
#1	192.00'	24,345 cf	Custom Stage Data (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
192.00	7,240	0	0
193.00	7,814	7,527	7,527
194.00	8,405	8,110	15,637
195.00	9,012	8,709	24,345

Device	Routing	Invert	Outlet Devices
#1	Primary	190.65'	18.0" Round Culvert L= 194.0' Ke= 0.500 Inlet / Outlet Invert= 190.65' / 188.00' S= 0.0137 ' / Cc= 0.900 n= 0.013, Flow Area= 1.77 sf
#2	Device 1	192.40'	2.5" Vert. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#3	Device 1	193.45'	4.0' long Sharp-Crested Rectangular Weir 2 End Contraction(s)
#4	Primary	194.44'	50.0' long + 3.0 ' / SideZ x 5.0' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 Coef. (English) 2.34 2.50 2.70 2.68 2.68 2.66 2.65 2.65 2.65 2.65 2.67 2.66 2.68 2.70 2.74 2.79 2.88

Primary OutFlow Max=2.59 cfs @ 12.47 hrs HW=193.78' (Free Discharge)

1=Culvert (Passes 2.59 cfs of 13.05 cfs potential flow)
 2=Orifice/Grate (Orifice Controls 0.19 cfs @ 5.43 fps)
 3=Sharp-Crested Rectangular Weir(Weir Controls 2.40 cfs @ 1.87 fps)
 4=Broad-Crested Rectangular Weir(Controls 0.00 cfs)

Pond B-14: Basin #14**Hydrograph**

Stage-Discharge for Pond B-14: Basin #14

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
192.00	0.00	192.52	0.02	193.04	0.12	193.56	0.64
192.01	0.00	192.53	0.03	193.05	0.12	193.57	0.71
192.02	0.00	192.54	0.03	193.06	0.12	193.58	0.78
192.03	0.00	192.55	0.03	193.07	0.12	193.59	0.85
192.04	0.00	192.56	0.04	193.08	0.12	193.60	0.93
192.05	0.00	192.57	0.04	193.09	0.13	193.61	1.00
192.06	0.00	192.58	0.05	193.10	0.13	193.62	1.08
192.07	0.00	192.59	0.05	193.11	0.13	193.63	1.16
192.08	0.00	192.60	0.05	193.12	0.13	193.64	1.25
192.09	0.00	192.61	0.05	193.13	0.13	193.65	1.33
192.10	0.00	192.62	0.06	193.14	0.13	193.66	1.42
192.11	0.00	192.63	0.06	193.15	0.13	193.67	1.51
192.12	0.00	192.64	0.06	193.16	0.13	193.68	1.60
192.13	0.00	192.65	0.06	193.17	0.13	193.69	1.70
192.14	0.00	192.66	0.06	193.18	0.13	193.70	1.79
192.15	0.00	192.67	0.07	193.19	0.14	193.71	1.89
192.16	0.00	192.68	0.07	193.20	0.14	193.72	1.99
192.17	0.00	192.69	0.07	193.21	0.14	193.73	2.09
192.18	0.00	192.70	0.07	193.22	0.14	193.74	2.20
192.19	0.00	192.71	0.07	193.23	0.14	193.75	2.30
192.20	0.00	192.72	0.08	193.24	0.14	193.76	2.41
192.21	0.00	192.73	0.08	193.25	0.14	193.77	2.51
192.22	0.00	192.74	0.08	193.26	0.14	193.78	2.62
192.23	0.00	192.75	0.08	193.27	0.14	193.79	2.74
192.24	0.00	192.76	0.08	193.28	0.14	193.80	2.85
192.25	0.00	192.77	0.08	193.29	0.15	193.81	2.96
192.26	0.00	192.78	0.09	193.30	0.15	193.82	3.08
192.27	0.00	192.79	0.09	193.31	0.15	193.83	3.19
192.28	0.00	192.80	0.09	193.32	0.15	193.84	3.31
192.29	0.00	192.81	0.09	193.33	0.15	193.85	3.43
192.30	0.00	192.82	0.09	193.34	0.15	193.86	3.55
192.31	0.00	192.83	0.09	193.35	0.15	193.87	3.68
192.32	0.00	192.84	0.10	193.36	0.15	193.88	3.80
192.33	0.00	192.85	0.10	193.37	0.15	193.89	3.93
192.34	0.00	192.86	0.10	193.38	0.15	193.90	4.05
192.35	0.00	192.87	0.10	193.39	0.15	193.91	4.18
192.36	0.00	192.88	0.10	193.40	0.16	193.92	4.31
192.37	0.00	192.89	0.10	193.41	0.16	193.93	4.44
192.38	0.00	192.90	0.10	193.42	0.16	193.94	4.57
192.39	0.00	192.91	0.10	193.43	0.16	193.95	4.71
192.40	0.00	192.92	0.11	193.44	0.16	193.96	4.84
192.41	0.00	192.93	0.11	193.45	0.16	193.97	4.98
192.42	0.00	192.94	0.11	193.46	0.17	193.98	5.11
192.43	0.00	192.95	0.11	193.47	0.20	193.99	5.25
192.44	0.00	192.96	0.11	193.48	0.23	194.00	5.39
192.45	0.00	192.97	0.11	193.49	0.27	194.01	5.53
192.46	0.01	192.98	0.11	193.50	0.31	194.02	5.67
192.47	0.01	192.99	0.11	193.51	0.36	194.03	5.81
192.48	0.01	193.00	0.12	193.52	0.41	194.04	5.96
192.49	0.01	193.01	0.12	193.53	0.46	194.05	6.10
192.50	0.02	193.02	0.12	193.54	0.52	194.06	6.25
192.51	0.02	193.03	0.12	193.55	0.58	194.07	6.39

Stage-Discharge for Pond B-14: Basin #14 (continued)

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
194.08	6.54	194.60	21.80
194.09	6.69	194.61	22.54
194.10	6.84	194.62	23.29
194.11	6.99	194.63	24.07
194.12	7.14	194.64	24.88
194.13	7.29	194.65	25.74
194.14	7.45	194.66	26.62
194.15	7.60	194.67	27.53
194.16	7.76	194.68	28.47
194.17	7.92	194.69	29.43
194.18	8.07	194.70	30.42
194.19	8.23	194.71	31.43
194.20	8.39	194.72	32.47
194.21	8.55	194.73	33.53
194.22	8.71	194.74	34.62
194.23	8.87	194.75	35.73
194.24	9.04	194.76	36.86
194.25	9.20	194.77	38.02
194.26	9.37	194.78	39.21
194.27	9.53	194.79	40.41
194.28	9.70	194.80	41.65
194.29	9.87	194.81	42.90
194.30	10.03	194.82	44.18
194.31	10.20	194.83	45.49
194.32	10.37	194.84	46.82
194.33	10.54	194.85	48.20
194.34	10.72	194.86	49.60
194.35	10.89	194.87	51.03
194.36	11.06	194.88	52.49
194.37	11.24	194.89	53.97
194.38	11.41	194.90	55.48
194.39	11.59	194.91	57.02
194.40	11.76	194.92	58.58
194.41	11.94	194.93	60.17
194.42	12.12	194.94	61.79
194.43	12.30	194.95	63.43
194.44	12.47	194.96	65.10
194.45	12.77	194.97	66.79
194.46	13.17	194.98	68.51
194.47	13.63	194.99	70.26
194.48	14.14	195.00	72.04
194.49	14.69		
194.50	15.29		
194.51	15.92		
194.52	16.59		
194.53	17.29		
194.54	17.89		
194.55	18.48		
194.56	19.09		
194.57	19.73		
194.58	20.40		
194.59	21.09		

Stage-Area-Storage for Pond B-14: Basin #14

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
192.00	7,240	0	192.52	7,538	3,842
192.01	7,246	72	192.53	7,544	3,918
192.02	7,251	145	192.54	7,550	3,993
192.03	7,257	217	192.55	7,556	4,069
192.04	7,263	290	192.56	7,561	4,144
192.05	7,269	363	192.57	7,567	4,220
192.06	7,274	435	192.58	7,573	4,296
192.07	7,280	508	192.59	7,579	4,372
192.08	7,286	581	192.60	7,584	4,447
192.09	7,292	654	192.61	7,590	4,523
192.10	7,297	727	192.62	7,596	4,599
192.11	7,303	800	192.63	7,602	4,675
192.12	7,309	873	192.64	7,607	4,751
192.13	7,315	946	192.65	7,613	4,827
192.14	7,320	1,019	192.66	7,619	4,903
192.15	7,326	1,092	192.67	7,625	4,980
192.16	7,332	1,166	192.68	7,630	5,056
192.17	7,338	1,239	192.69	7,636	5,132
192.18	7,343	1,312	192.70	7,642	5,209
192.19	7,349	1,386	192.71	7,648	5,285
192.20	7,355	1,459	192.72	7,653	5,362
192.21	7,361	1,533	192.73	7,659	5,438
192.22	7,366	1,607	192.74	7,665	5,515
192.23	7,372	1,680	192.75	7,671	5,591
192.24	7,378	1,754	192.76	7,676	5,668
192.25	7,384	1,828	192.77	7,682	5,745
192.26	7,389	1,902	192.78	7,688	5,822
192.27	7,395	1,976	192.79	7,693	5,899
192.28	7,401	2,050	192.80	7,699	5,976
192.29	7,406	2,124	192.81	7,705	6,053
192.30	7,412	2,198	192.82	7,711	6,130
192.31	7,418	2,272	192.83	7,716	6,207
192.32	7,424	2,346	192.84	7,722	6,284
192.33	7,429	2,420	192.85	7,728	6,361
192.34	7,435	2,495	192.86	7,734	6,439
192.35	7,441	2,569	192.87	7,739	6,516
192.36	7,447	2,644	192.88	7,745	6,593
192.37	7,452	2,718	192.89	7,751	6,671
192.38	7,458	2,793	192.90	7,757	6,748
192.39	7,464	2,867	192.91	7,762	6,826
192.40	7,470	2,942	192.92	7,768	6,904
192.41	7,475	3,017	192.93	7,774	6,981
192.42	7,481	3,091	192.94	7,780	7,059
192.43	7,487	3,166	192.95	7,785	7,137
192.44	7,493	3,241	192.96	7,791	7,215
192.45	7,498	3,316	192.97	7,797	7,293
192.46	7,504	3,391	192.98	7,803	7,371
192.47	7,510	3,466	192.99	7,808	7,449
192.48	7,516	3,541	193.00	7,814	7,527
192.49	7,521	3,617	193.01	7,820	7,605
192.50	7,527	3,692	193.02	7,826	7,683
192.51	7,533	3,767	193.03	7,832	7,762

Stage-Area-Storage for Pond B-14: Basin #14 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
193.04	7,838	7,840	193.56	8,145	11,996
193.05	7,844	7,918	193.57	8,151	12,077
193.06	7,849	7,997	193.58	8,157	12,159
193.07	7,855	8,075	193.59	8,163	12,240
193.08	7,861	8,154	193.60	8,169	12,322
193.09	7,867	8,233	193.61	8,175	12,403
193.10	7,873	8,311	193.62	8,180	12,485
193.11	7,879	8,390	193.63	8,186	12,567
193.12	7,885	8,469	193.64	8,192	12,649
193.13	7,891	8,548	193.65	8,198	12,731
193.14	7,897	8,627	193.66	8,204	12,813
193.15	7,903	8,706	193.67	8,210	12,895
193.16	7,909	8,785	193.68	8,216	12,977
193.17	7,914	8,864	193.69	8,222	13,059
193.18	7,920	8,943	193.70	8,228	13,142
193.19	7,926	9,022	193.71	8,234	13,224
193.20	7,932	9,102	193.72	8,240	13,306
193.21	7,938	9,181	193.73	8,245	13,389
193.22	7,944	9,260	193.74	8,251	13,471
193.23	7,950	9,340	193.75	8,257	13,554
193.24	7,956	9,419	193.76	8,263	13,636
193.25	7,962	9,499	193.77	8,269	13,719
193.26	7,968	9,579	193.78	8,275	13,802
193.27	7,974	9,658	193.79	8,281	13,884
193.28	7,979	9,738	193.80	8,287	13,967
193.29	7,985	9,818	193.81	8,293	14,050
193.30	7,991	9,898	193.82	8,299	14,133
193.31	7,997	9,978	193.83	8,305	14,216
193.32	8,003	10,058	193.84	8,310	14,299
193.33	8,009	10,138	193.85	8,316	14,382
193.34	8,015	10,218	193.86	8,322	14,466
193.35	8,021	10,298	193.87	8,328	14,549
193.36	8,027	10,378	193.88	8,334	14,632
193.37	8,033	10,459	193.89	8,340	14,716
193.38	8,039	10,539	193.90	8,346	14,799
193.39	8,044	10,619	193.91	8,352	14,882
193.40	8,050	10,700	193.92	8,358	14,966
193.41	8,056	10,780	193.93	8,364	15,050
193.42	8,062	10,861	193.94	8,370	15,133
193.43	8,068	10,942	193.95	8,375	15,217
193.44	8,074	11,022	193.96	8,381	15,301
193.45	8,080	11,103	193.97	8,387	15,385
193.46	8,086	11,184	193.98	8,393	15,469
193.47	8,092	11,265	193.99	8,399	15,552
193.48	8,098	11,346	194.00	8,405	15,637
193.49	8,104	11,427	194.01	8,411	15,721
193.50	8,110	11,508	194.02	8,417	15,805
193.51	8,115	11,589	194.03	8,423	15,889
193.52	8,121	11,670	194.04	8,429	15,973
193.53	8,127	11,751	194.05	8,435	16,058
193.54	8,133	11,833	194.06	8,441	16,142
193.55	8,139	11,914	194.07	8,447	16,226

Stage-Area-Storage for Pond B-14: Basin #14 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
194.08	8,454	16,311	194.60	8,769	20,789
194.09	8,460	16,395	194.61	8,775	20,876
194.10	8,466	16,480	194.62	8,781	20,964
194.11	8,472	16,565	194.63	8,787	21,052
194.12	8,478	16,649	194.64	8,793	21,140
194.13	8,484	16,734	194.65	8,800	21,228
194.14	8,490	16,819	194.66	8,806	21,316
194.15	8,496	16,904	194.67	8,812	21,404
194.16	8,502	16,989	194.68	8,818	21,492
194.17	8,508	17,074	194.69	8,824	21,580
194.18	8,514	17,159	194.70	8,830	21,669
194.19	8,520	17,244	194.71	8,836	21,757
194.20	8,526	17,330	194.72	8,842	21,845
194.21	8,532	17,415	194.73	8,848	21,934
194.22	8,539	17,500	194.74	8,854	22,022
194.23	8,545	17,586	194.75	8,860	22,111
194.24	8,551	17,671	194.76	8,866	22,200
194.25	8,557	17,757	194.77	8,872	22,288
194.26	8,563	17,842	194.78	8,878	22,377
194.27	8,569	17,928	194.79	8,885	22,466
194.28	8,575	18,014	194.80	8,891	22,555
194.29	8,581	18,099	194.81	8,897	22,644
194.30	8,587	18,185	194.82	8,903	22,733
194.31	8,593	18,271	194.83	8,909	22,822
194.32	8,599	18,357	194.84	8,915	22,911
194.33	8,605	18,443	194.85	8,921	23,000
194.34	8,611	18,529	194.86	8,927	23,089
194.35	8,617	18,615	194.87	8,933	23,179
194.36	8,624	18,702	194.88	8,939	23,268
194.37	8,630	18,788	194.89	8,945	23,357
194.38	8,636	18,874	194.90	8,951	23,447
194.39	8,642	18,961	194.91	8,957	23,536
194.40	8,648	19,047	194.92	8,963	23,626
194.41	8,654	19,134	194.93	8,970	23,716
194.42	8,660	19,220	194.94	8,976	23,805
194.43	8,666	19,307	194.95	8,982	23,895
194.44	8,672	19,393	194.96	8,988	23,985
194.45	8,678	19,480	194.97	8,994	24,075
194.46	8,684	19,567	194.98	9,000	24,165
194.47	8,690	19,654	194.99	9,006	24,255
194.48	8,696	19,741	195.00	9,012	24,345
194.49	8,702	19,828			
194.50	8,709	19,915			
194.51	8,715	20,002			
194.52	8,721	20,089			
194.53	8,727	20,176			
194.54	8,733	20,264			
194.55	8,739	20,351			
194.56	8,745	20,438			
194.57	8,751	20,526			
194.58	8,757	20,613			
194.59	8,763	20,701			

Summary for Pond B-15: Basin #15

Inflow Area = 2.365 ac, 58.73% Impervious, Inflow Depth = 4.56" for Future 10 yr event
 Inflow = 10.71 cfs @ 12.17 hrs, Volume= 0.898 af
 Outflow = 7.79 cfs @ 12.27 hrs, Volume= 0.771 af, Atten= 27%, Lag= 5.8 min
 Primary = 7.79 cfs @ 12.27 hrs, Volume= 0.771 af
 Routed to Link PDA-1 : Proposed Drainage Area #1

Routing by Stor-Ind method, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 Peak Elev= 199.21' @ 12.27 hrs Surf.Area= 5,516 sf Storage= 14,742 cf

Plug-Flow detention time= 180.0 min calculated for 0.770 af (86% of inflow)
 Center-of-Mass det. time= 114.6 min (888.7 - 774.1)

Volume	Invert	Avail.Storage	Storage Description
#1	196.00'	19,269 cf	Custom Stage Data (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
196.00	3,706	0	0
197.00	4,236	3,971	3,971
198.00	4,795	4,516	8,487
199.00	5,384	5,090	13,576
200.00	6,002	5,693	19,269

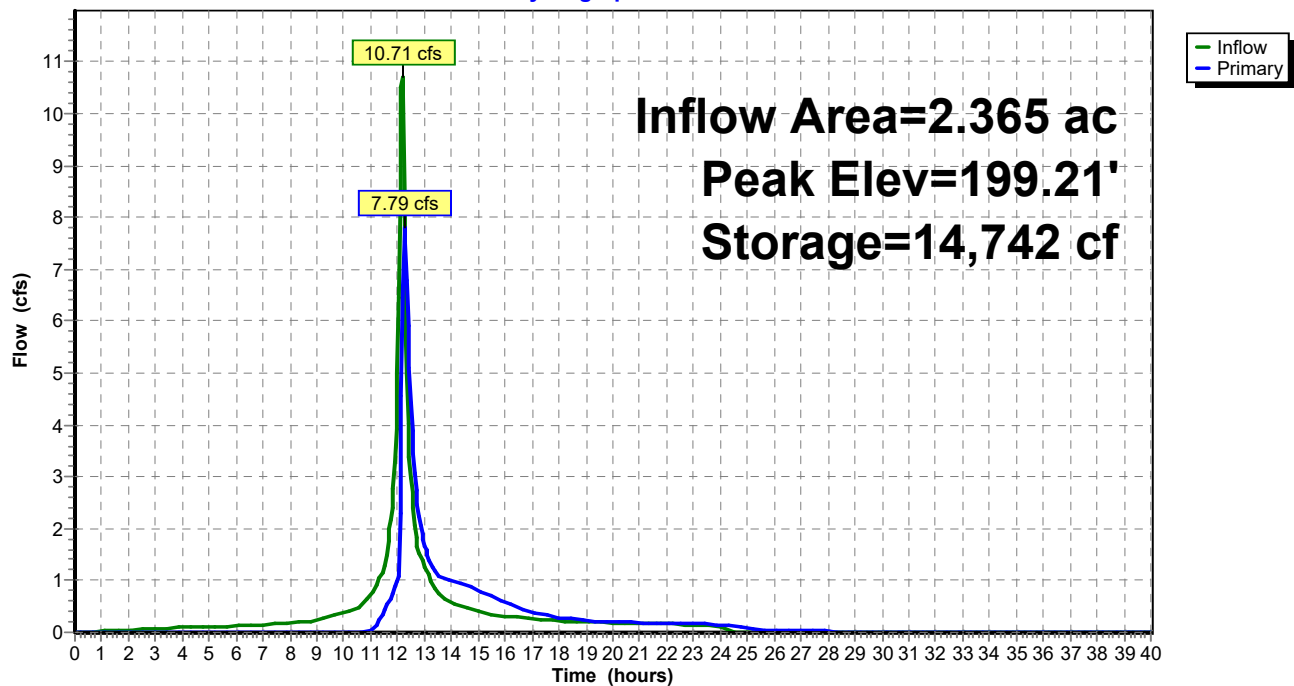
Device	Routing	Invert	Outlet Devices
#1	Primary	194.65'	18.0" Round Culvert L= 203.0' Ke= 0.500 Inlet / Outlet Invert= 194.65' / 192.00' S= 0.0131 '/' Cc= 0.900 n= 0.013, Flow Area= 1.77 sf
#2	Device 1	197.35'	6.5" Vert. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#3	Device 1	198.58'	4.0' long Sharp-Crested Rectangular Weir 2 End Contraction(s)
#4	Primary	199.99'	50.0' long + 3.0 '/' SideZ x 5.0' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 Coef. (English) 2.34 2.50 2.70 2.68 2.68 2.66 2.65 2.65 2.65 2.65 2.67 2.66 2.68 2.70 2.74 2.79 2.88

Primary OutFlow Max=7.65 cfs @ 12.27 hrs HW=199.20' (Free Discharge)

1=Culvert (Passes 7.65 cfs of 14.84 cfs potential flow)
 2=Orifice/Grate (Orifice Controls 1.40 cfs @ 6.06 fps)
 3=Sharp-Crested Rectangular Weir (Weir Controls 6.26 cfs @ 2.58 fps)
 4=Broad-Crested Rectangular Weir (Controls 0.00 cfs)

Pond B-15: Basin #15

Hydrograph



Stage-Discharge for Pond B-15: Basin #15

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
196.00	0.00	196.52	0.00	197.04	0.00	197.56	0.13
196.01	0.00	196.53	0.00	197.05	0.00	197.57	0.14
196.02	0.00	196.54	0.00	197.06	0.00	197.58	0.15
196.03	0.00	196.55	0.00	197.07	0.00	197.59	0.16
196.04	0.00	196.56	0.00	197.08	0.00	197.60	0.18
196.05	0.00	196.57	0.00	197.09	0.00	197.61	0.19
196.06	0.00	196.58	0.00	197.10	0.00	197.62	0.20
196.07	0.00	196.59	0.00	197.11	0.00	197.63	0.22
196.08	0.00	196.60	0.00	197.12	0.00	197.64	0.23
196.09	0.00	196.61	0.00	197.13	0.00	197.65	0.24
196.10	0.00	196.62	0.00	197.14	0.00	197.66	0.26
196.11	0.00	196.63	0.00	197.15	0.00	197.67	0.27
196.12	0.00	196.64	0.00	197.16	0.00	197.68	0.29
196.13	0.00	196.65	0.00	197.17	0.00	197.69	0.30
196.14	0.00	196.66	0.00	197.18	0.00	197.70	0.32
196.15	0.00	196.67	0.00	197.19	0.00	197.71	0.33
196.16	0.00	196.68	0.00	197.20	0.00	197.72	0.35
196.17	0.00	196.69	0.00	197.21	0.00	197.73	0.36
196.18	0.00	196.70	0.00	197.22	0.00	197.74	0.38
196.19	0.00	196.71	0.00	197.23	0.00	197.75	0.39
196.20	0.00	196.72	0.00	197.24	0.00	197.76	0.41
196.21	0.00	196.73	0.00	197.25	0.00	197.77	0.42
196.22	0.00	196.74	0.00	197.26	0.00	197.78	0.44
196.23	0.00	196.75	0.00	197.27	0.00	197.79	0.45
196.24	0.00	196.76	0.00	197.28	0.00	197.80	0.47
196.25	0.00	196.77	0.00	197.29	0.00	197.81	0.48
196.26	0.00	196.78	0.00	197.30	0.00	197.82	0.50
196.27	0.00	196.79	0.00	197.31	0.00	197.83	0.51
196.28	0.00	196.80	0.00	197.32	0.00	197.84	0.52
196.29	0.00	196.81	0.00	197.33	0.00	197.85	0.54
196.30	0.00	196.82	0.00	197.34	0.00	197.86	0.55
196.31	0.00	196.83	0.00	197.35	0.00	197.87	0.56
196.32	0.00	196.84	0.00	197.36	0.00	197.88	0.57
196.33	0.00	196.85	0.00	197.37	0.00	197.89	0.58
196.34	0.00	196.86	0.00	197.38	0.00	197.90	0.59
196.35	0.00	196.87	0.00	197.39	0.01	197.91	0.60
196.36	0.00	196.88	0.00	197.40	0.01	197.92	0.61
196.37	0.00	196.89	0.00	197.41	0.01	197.93	0.62
196.38	0.00	196.90	0.00	197.42	0.02	197.94	0.63
196.39	0.00	196.91	0.00	197.43	0.02	197.95	0.64
196.40	0.00	196.92	0.00	197.44	0.03	197.96	0.65
196.41	0.00	196.93	0.00	197.45	0.03	197.97	0.66
196.42	0.00	196.94	0.00	197.46	0.04	197.98	0.66
196.43	0.00	196.95	0.00	197.47	0.04	197.99	0.67
196.44	0.00	196.96	0.00	197.48	0.05	198.00	0.68
196.45	0.00	196.97	0.00	197.49	0.06	198.01	0.69
196.46	0.00	196.98	0.00	197.50	0.07	198.02	0.70
196.47	0.00	196.99	0.00	197.51	0.08	198.03	0.71
196.48	0.00	197.00	0.00	197.52	0.09	198.04	0.72
196.49	0.00	197.01	0.00	197.53	0.10	198.05	0.73
196.50	0.00	197.02	0.00	197.54	0.11	198.06	0.74
196.51	0.00	197.03	0.00	197.55	0.12	198.07	0.74

Stage-Discharge for Pond B-15: Basin #15 (continued)

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
198.08	0.75	198.60	1.13	199.12	6.41	199.64	15.09
198.09	0.76	198.61	1.17	199.13	6.55	199.65	15.28
198.10	0.77	198.62	1.21	199.14	6.70	199.66	15.42
198.11	0.78	198.63	1.26	199.15	6.84	199.67	15.43
198.12	0.78	198.64	1.31	199.16	6.99	199.68	15.44
198.13	0.79	198.65	1.37	199.17	7.13	199.69	15.45
198.14	0.80	198.66	1.43	199.18	7.28	199.70	15.47
198.15	0.81	198.67	1.49	199.19	7.43	199.71	15.48
198.16	0.81	198.68	1.55	199.20	7.58	199.72	15.49
198.17	0.82	198.69	1.62	199.21	7.73	199.73	15.50
198.18	0.83	198.70	1.69	199.22	7.89	199.74	15.52
198.19	0.84	198.71	1.77	199.23	8.04	199.75	15.53
198.20	0.84	198.72	1.84	199.24	8.19	199.76	15.54
198.21	0.85	198.73	1.92	199.25	8.35	199.77	15.55
198.22	0.86	198.74	2.00	199.26	8.51	199.78	15.57
198.23	0.87	198.75	2.09	199.27	8.66	199.79	15.58
198.24	0.87	198.76	2.17	199.28	8.82	199.80	15.59
198.25	0.88	198.77	2.26	199.29	8.98	199.81	15.60
198.26	0.89	198.78	2.35	199.30	9.14	199.82	15.62
198.27	0.89	198.79	2.45	199.31	9.30	199.83	15.63
198.28	0.90	198.80	2.54	199.32	9.46	199.84	15.64
198.29	0.91	198.81	2.64	199.33	9.63	199.85	15.65
198.30	0.91	198.82	2.73	199.34	9.79	199.86	15.66
198.31	0.92	198.83	2.83	199.35	9.96	199.87	15.68
198.32	0.93	198.84	2.94	199.36	10.12	199.88	15.69
198.33	0.93	198.85	3.04	199.37	10.29	199.89	15.70
198.34	0.94	198.86	3.15	199.38	10.46	199.90	15.71
198.35	0.95	198.87	3.25	199.39	10.62	199.91	15.73
198.36	0.95	198.88	3.36	199.40	10.79	199.92	15.74
198.37	0.96	198.89	3.47	199.41	10.96	199.93	15.75
198.38	0.97	198.90	3.58	199.42	11.14	199.94	15.76
198.39	0.97	198.91	3.70	199.43	11.31	199.95	15.78
198.40	0.98	198.92	3.81	199.44	11.48	199.96	15.79
198.41	0.99	198.93	3.93	199.45	11.65	199.97	15.80
198.42	0.99	198.94	4.05	199.46	11.83	199.98	15.81
198.43	1.00	198.95	4.17	199.47	12.00	199.99	15.82
198.44	1.00	198.96	4.29	199.48	12.18	200.00	15.95
198.45	1.01	198.97	4.41	199.49	12.35		
198.46	1.02	198.98	4.54	199.50	12.53		
198.47	1.02	198.99	4.66	199.51	12.71		
198.48	1.03	199.00	4.79	199.52	12.89		
198.49	1.03	199.01	4.92	199.53	13.07		
198.50	1.04	199.02	5.05	199.54	13.25		
198.51	1.05	199.03	5.18	199.55	13.43		
198.52	1.05	199.04	5.31	199.56	13.61		
198.53	1.06	199.05	5.44	199.57	13.80		
198.54	1.06	199.06	5.58	199.58	13.98		
198.55	1.07	199.07	5.71	199.59	14.16		
198.56	1.08	199.08	5.85	199.60	14.35		
198.57	1.08	199.09	5.99	199.61	14.53		
198.58	1.09	199.10	6.13	199.62	14.72		
198.59	1.11	199.11	6.27	199.63	14.91		

Stage-Area-Storage for Pond B-15: Basin #15

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
196.00	3,706	0	196.52	3,982	1,999
196.01	3,711	37	196.53	3,987	2,039
196.02	3,717	74	196.54	3,992	2,079
196.03	3,722	111	196.55	3,998	2,118
196.04	3,727	149	196.56	4,003	2,158
196.05	3,733	186	196.57	4,008	2,199
196.06	3,738	223	196.58	4,013	2,239
196.07	3,743	261	196.59	4,019	2,279
196.08	3,748	298	196.60	4,024	2,319
196.09	3,754	336	196.61	4,029	2,359
196.10	3,759	373	196.62	4,035	2,400
196.11	3,764	411	196.63	4,040	2,440
196.12	3,770	449	196.64	4,045	2,480
196.13	3,775	486	196.65	4,051	2,521
196.14	3,780	524	196.66	4,056	2,561
196.15	3,786	562	196.67	4,061	2,602
196.16	3,791	600	196.68	4,066	2,643
196.17	3,796	638	196.69	4,072	2,683
196.18	3,801	676	196.70	4,077	2,724
196.19	3,807	714	196.71	4,082	2,765
196.20	3,812	752	196.72	4,088	2,806
196.21	3,817	790	196.73	4,093	2,847
196.22	3,823	828	196.74	4,098	2,888
196.23	3,828	866	196.75	4,104	2,929
196.24	3,833	905	196.76	4,109	2,970
196.25	3,839	943	196.77	4,114	3,011
196.26	3,844	981	196.78	4,119	3,052
196.27	3,849	1,020	196.79	4,125	3,093
196.28	3,854	1,058	196.80	4,130	3,134
196.29	3,860	1,097	196.81	4,135	3,176
196.30	3,865	1,136	196.82	4,141	3,217
196.31	3,870	1,174	196.83	4,146	3,259
196.32	3,876	1,213	196.84	4,151	3,300
196.33	3,881	1,252	196.85	4,156	3,342
196.34	3,886	1,291	196.86	4,162	3,383
196.35	3,891	1,330	196.87	4,167	3,425
196.36	3,897	1,369	196.88	4,172	3,466
196.37	3,902	1,407	196.89	4,178	3,508
196.38	3,907	1,447	196.90	4,183	3,550
196.39	3,913	1,486	196.91	4,188	3,592
196.40	3,918	1,525	196.92	4,194	3,634
196.41	3,923	1,564	196.93	4,199	3,676
196.42	3,929	1,603	196.94	4,204	3,718
196.43	3,934	1,643	196.95	4,209	3,760
196.44	3,939	1,682	196.96	4,215	3,802
196.45	3,944	1,721	196.97	4,220	3,844
196.46	3,950	1,761	196.98	4,225	3,886
196.47	3,955	1,800	196.99	4,231	3,929
196.48	3,960	1,840	197.00	4,236	3,971
196.49	3,966	1,880	197.01	4,242	4,013
196.50	3,971	1,919	197.02	4,247	4,056
196.51	3,976	1,959	197.03	4,253	4,098

Stage-Area-Storage for Pond B-15: Basin #15 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
197.04	4,258	4,141	197.56	4,549	6,431
197.05	4,264	4,183	197.57	4,555	6,476
197.06	4,270	4,226	197.58	4,560	6,522
197.07	4,275	4,269	197.59	4,566	6,568
197.08	4,281	4,312	197.60	4,571	6,613
197.09	4,286	4,355	197.61	4,577	6,659
197.10	4,292	4,397	197.62	4,583	6,705
197.11	4,297	4,440	197.63	4,588	6,751
197.12	4,303	4,483	197.64	4,594	6,797
197.13	4,309	4,526	197.65	4,599	6,842
197.14	4,314	4,570	197.66	4,605	6,889
197.15	4,320	4,613	197.67	4,611	6,935
197.16	4,325	4,656	197.68	4,616	6,981
197.17	4,331	4,699	197.69	4,622	7,027
197.18	4,337	4,743	197.70	4,627	7,073
197.19	4,342	4,786	197.71	4,633	7,119
197.20	4,348	4,829	197.72	4,638	7,166
197.21	4,353	4,873	197.73	4,644	7,212
197.22	4,359	4,916	197.74	4,650	7,259
197.23	4,365	4,960	197.75	4,655	7,305
197.24	4,370	5,004	197.76	4,661	7,352
197.25	4,376	5,047	197.77	4,666	7,398
197.26	4,381	5,091	197.78	4,672	7,445
197.27	4,387	5,135	197.79	4,678	7,492
197.28	4,393	5,179	197.80	4,683	7,539
197.29	4,398	5,223	197.81	4,689	7,586
197.30	4,404	5,267	197.82	4,694	7,632
197.31	4,409	5,311	197.83	4,700	7,679
197.32	4,415	5,355	197.84	4,706	7,726
197.33	4,420	5,399	197.85	4,711	7,774
197.34	4,426	5,444	197.86	4,717	7,821
197.35	4,432	5,488	197.87	4,722	7,868
197.36	4,437	5,532	197.88	4,728	7,915
197.37	4,443	5,577	197.89	4,734	7,962
197.38	4,448	5,621	197.90	4,739	8,010
197.39	4,454	5,666	197.91	4,745	8,057
197.40	4,460	5,710	197.92	4,750	8,105
197.41	4,465	5,755	197.93	4,756	8,152
197.42	4,471	5,799	197.94	4,761	8,200
197.43	4,476	5,844	197.95	4,767	8,247
197.44	4,482	5,889	197.96	4,773	8,295
197.45	4,488	5,934	197.97	4,778	8,343
197.46	4,493	5,979	197.98	4,784	8,391
197.47	4,499	6,024	197.99	4,789	8,439
197.48	4,504	6,069	198.00	4,795	8,487
197.49	4,510	6,114	198.01	4,801	8,534
197.50	4,516	6,159	198.02	4,807	8,583
197.51	4,521	6,204	198.03	4,813	8,631
197.52	4,527	6,249	198.04	4,819	8,679
197.53	4,532	6,295	198.05	4,824	8,727
197.54	4,538	6,340	198.06	4,830	8,775
197.55	4,543	6,385	198.07	4,836	8,824

Stage-Area-Storage for Pond B-15: Basin #15 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
198.08	4,842	8,872	198.60	5,148	11,470
198.09	4,848	8,920	198.61	5,154	11,521
198.10	4,854	8,969	198.62	5,160	11,573
198.11	4,860	9,018	198.63	5,166	11,624
198.12	4,866	9,066	198.64	5,172	11,676
198.13	4,872	9,115	198.65	5,178	11,728
198.14	4,877	9,164	198.66	5,184	11,779
198.15	4,883	9,212	198.67	5,190	11,831
198.16	4,889	9,261	198.68	5,196	11,883
198.17	4,895	9,310	198.69	5,201	11,935
198.18	4,901	9,359	198.70	5,207	11,987
198.19	4,907	9,408	198.71	5,213	12,039
198.20	4,913	9,457	198.72	5,219	12,092
198.21	4,919	9,506	198.73	5,225	12,144
198.22	4,925	9,556	198.74	5,231	12,196
198.23	4,930	9,605	198.75	5,237	12,248
198.24	4,936	9,654	198.76	5,243	12,301
198.25	4,942	9,704	198.77	5,249	12,353
198.26	4,948	9,753	198.78	5,254	12,406
198.27	4,954	9,803	198.79	5,260	12,458
198.28	4,960	9,852	198.80	5,266	12,511
198.29	4,966	9,902	198.81	5,272	12,564
198.30	4,972	9,952	198.82	5,278	12,616
198.31	4,978	10,001	198.83	5,284	12,669
198.32	4,983	10,051	198.84	5,290	12,722
198.33	4,989	10,101	198.85	5,296	12,775
198.34	4,995	10,151	198.86	5,302	12,828
198.35	5,001	10,201	198.87	5,307	12,881
198.36	5,007	10,251	198.88	5,313	12,934
198.37	5,013	10,301	198.89	5,319	12,987
198.38	5,019	10,351	198.90	5,325	13,041
198.39	5,025	10,401	198.91	5,331	13,094
198.40	5,031	10,452	198.92	5,337	13,147
198.41	5,036	10,502	198.93	5,343	13,201
198.42	5,042	10,552	198.94	5,349	13,254
198.43	5,048	10,603	198.95	5,355	13,308
198.44	5,054	10,653	198.96	5,360	13,361
198.45	5,060	10,704	198.97	5,366	13,415
198.46	5,066	10,755	198.98	5,372	13,468
198.47	5,072	10,805	198.99	5,378	13,522
198.48	5,078	10,856	199.00	5,384	13,576
198.49	5,084	10,907	199.01	5,390	13,630
198.50	5,090	10,958	199.02	5,396	13,684
198.51	5,095	11,009	199.03	5,403	13,738
198.52	5,101	11,060	199.04	5,409	13,792
198.53	5,107	11,111	199.05	5,415	13,846
198.54	5,113	11,162	199.06	5,421	13,900
198.55	5,119	11,213	199.07	5,427	13,954
198.56	5,125	11,264	199.08	5,433	14,009
198.57	5,131	11,315	199.09	5,440	14,063
198.58	5,137	11,367	199.10	5,446	14,117
198.59	5,143	11,418	199.11	5,452	14,172

Stage-Area-Storage for Pond B-15: Basin #15 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
199.12	5,458	14,227	199.64	5,780	17,148
199.13	5,464	14,281	199.65	5,786	17,206
199.14	5,471	14,336	199.66	5,792	17,264
199.15	5,477	14,391	199.67	5,798	17,322
199.16	5,483	14,445	199.68	5,804	17,380
199.17	5,489	14,500	199.69	5,810	17,438
199.18	5,495	14,555	199.70	5,817	17,496
199.19	5,501	14,610	199.71	5,823	17,554
199.20	5,508	14,665	199.72	5,829	17,613
199.21	5,514	14,720	199.73	5,835	17,671
199.22	5,520	14,775	199.74	5,841	17,729
199.23	5,526	14,831	199.75	5,848	17,788
199.24	5,532	14,886	199.76	5,854	17,846
199.25	5,539	14,941	199.77	5,860	17,905
199.26	5,545	14,997	199.78	5,866	17,964
199.27	5,551	15,052	199.79	5,872	18,022
199.28	5,557	15,108	199.80	5,878	18,081
199.29	5,563	15,163	199.81	5,885	18,140
199.30	5,569	15,219	199.82	5,891	18,199
199.31	5,576	15,275	199.83	5,897	18,258
199.32	5,582	15,331	199.84	5,903	18,317
199.33	5,588	15,386	199.85	5,909	18,376
199.34	5,594	15,442	199.86	5,915	18,435
199.35	5,600	15,498	199.87	5,922	18,494
199.36	5,606	15,554	199.88	5,928	18,553
199.37	5,613	15,610	199.89	5,934	18,613
199.38	5,619	15,667	199.90	5,940	18,672
199.39	5,625	15,723	199.91	5,946	18,731
199.40	5,631	15,779	199.92	5,953	18,791
199.41	5,637	15,835	199.93	5,959	18,850
199.42	5,644	15,892	199.94	5,965	18,910
199.43	5,650	15,948	199.95	5,971	18,970
199.44	5,656	16,005	199.96	5,977	19,029
199.45	5,662	16,061	199.97	5,983	19,089
199.46	5,668	16,118	199.98	5,990	19,149
199.47	5,674	16,175	199.99	5,996	19,209
199.48	5,681	16,232	200.00	6,002	19,269
199.49	5,687	16,288			
199.50	5,693	16,345			
199.51	5,699	16,402			
199.52	5,705	16,459			
199.53	5,712	16,516			
199.54	5,718	16,573			
199.55	5,724	16,631			
199.56	5,730	16,688			
199.57	5,736	16,745			
199.58	5,742	16,803			
199.59	5,749	16,860			
199.60	5,755	16,918			
199.61	5,761	16,975			
199.62	5,767	17,033			
199.63	5,773	17,091			

Summary for Pond B-16A: Basin #16A

Inflow Area = 1.876 ac, 45.47% Impervious, Inflow Depth = 4.22" for Future 10 yr event
 Inflow = 8.01 cfs @ 12.17 hrs, Volume= 0.660 af
 Outflow = 6.11 cfs @ 12.26 hrs, Volume= 0.580 af, Atten= 24%, Lag= 5.3 min
 Primary = 6.11 cfs @ 12.26 hrs, Volume= 0.580 af
 Routed to Link PDA-1 : Proposed Drainage Area #1

Routing by Stor-Ind method, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 Peak Elev= 180.29' @ 12.26 hrs Surf.Area= 4,288 sf Storage= 7,785 cf

Plug-Flow detention time= 121.9 min calculated for 0.580 af (88% of inflow)
 Center-of-Mass det. time= 63.0 min (847.3 - 784.4)

Volume	Invert	Avail.Storage	Storage Description
#1	178.00'	16,318 cf	Custom Stage Data (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
178.00	2,543	0	0
179.00	3,287	2,915	2,915
180.00	4,059	3,673	6,588
181.00	4,858	4,459	11,047
182.00	5,685	5,272	16,318

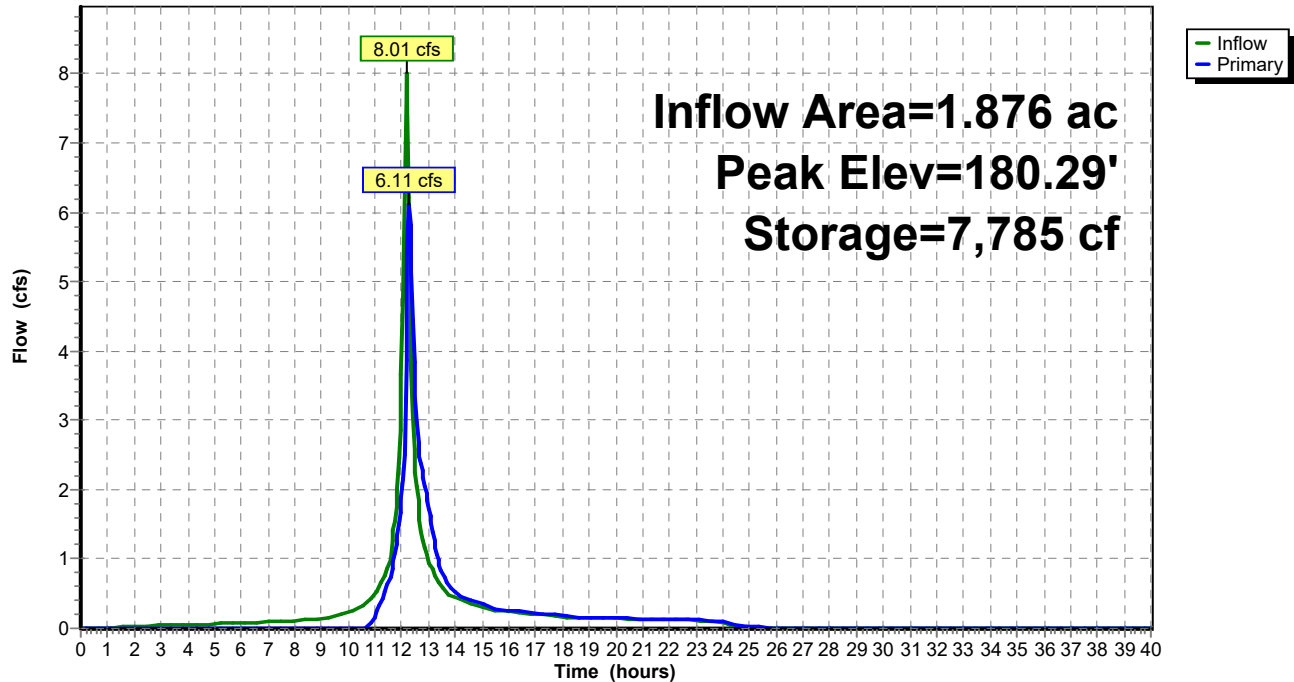
Device	Routing	Invert	Outlet Devices
#1	Primary	176.65'	18.0" Round Culvert L= 53.0' Ke= 0.500 Inlet / Outlet Invert= 176.65' / 172.00' S= 0.0877 ' S= 0.0877 ' Cc= 0.900 n= 0.013, Flow Area= 1.77 sf
#2	Device 1	179.16'	24.0" W x 4.0" H Vert. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#3	Device 1	179.91'	4.0' long Sharp-Crested Rectangular Weir 2 End Contraction(s)
#4	Primary	181.95'	50.0' long + 3.0 ' SideZ x 5.0' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 Coef. (English) 2.34 2.50 2.70 2.68 2.68 2.66 2.65 2.65 2.65 2.65 2.67 2.66 2.68 2.70 2.74 2.79 2.88

Primary OutFlow Max=6.03 cfs @ 12.26 hrs HW=180.28' (Free Discharge)

1=Culvert (Passes 6.03 cfs of 14.44 cfs potential flow)
 2=Orifice/Grate (Orifice Controls 3.13 cfs @ 4.70 fps)
 3=Sharp-Crested Rectangular Weir (Weir Controls 2.90 cfs @ 1.99 fps)
 4=Broad-Crested Rectangular Weir (Controls 0.00 cfs)

Pond B-16A: Basin #16A

Hydrograph



Stage-Discharge for Pond B-16A: Basin #16A

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
178.00	0.00	178.52	0.00	179.04	0.00	179.56	1.51
178.01	0.00	178.53	0.00	179.05	0.00	179.57	1.55
178.02	0.00	178.54	0.00	179.06	0.00	179.58	1.58
178.03	0.00	178.55	0.00	179.07	0.00	179.59	1.62
178.04	0.00	178.56	0.00	179.08	0.00	179.60	1.65
178.05	0.00	178.57	0.00	179.09	0.00	179.61	1.68
178.06	0.00	178.58	0.00	179.10	0.00	179.62	1.71
178.07	0.00	178.59	0.00	179.11	0.00	179.63	1.74
178.08	0.00	178.60	0.00	179.12	0.00	179.64	1.77
178.09	0.00	178.61	0.00	179.13	0.00	179.65	1.80
178.10	0.00	178.62	0.00	179.14	0.00	179.66	1.83
178.11	0.00	178.63	0.00	179.15	0.00	179.67	1.86
178.12	0.00	178.64	0.00	179.16	0.00	179.68	1.89
178.13	0.00	178.65	0.00	179.17	0.01	179.69	1.92
178.14	0.00	178.66	0.00	179.18	0.02	179.70	1.94
178.15	0.00	178.67	0.00	179.19	0.03	179.71	1.97
178.16	0.00	178.68	0.00	179.20	0.05	179.72	2.00
178.17	0.00	178.69	0.00	179.21	0.07	179.73	2.02
178.18	0.00	178.70	0.00	179.22	0.09	179.74	2.05
178.19	0.00	178.71	0.00	179.23	0.12	179.75	2.07
178.20	0.00	178.72	0.00	179.24	0.15	179.76	2.10
178.21	0.00	178.73	0.00	179.25	0.17	179.77	2.12
178.22	0.00	178.74	0.00	179.26	0.20	179.78	2.15
178.23	0.00	178.75	0.00	179.27	0.23	179.79	2.17
178.24	0.00	178.76	0.00	179.28	0.27	179.80	2.20
178.25	0.00	178.77	0.00	179.29	0.30	179.81	2.22
178.26	0.00	178.78	0.00	179.30	0.34	179.82	2.24
178.27	0.00	178.79	0.00	179.31	0.37	179.83	2.27
178.28	0.00	178.80	0.00	179.32	0.41	179.84	2.29
178.29	0.00	178.81	0.00	179.33	0.45	179.85	2.31
178.30	0.00	178.82	0.00	179.34	0.49	179.86	2.33
178.31	0.00	178.83	0.00	179.35	0.53	179.87	2.36
178.32	0.00	178.84	0.00	179.36	0.57	179.88	2.38
178.33	0.00	178.85	0.00	179.37	0.62	179.89	2.40
178.34	0.00	178.86	0.00	179.38	0.66	179.90	2.42
178.35	0.00	178.87	0.00	179.39	0.71	179.91	2.44
178.36	0.00	178.88	0.00	179.40	0.75	179.92	2.48
178.37	0.00	178.89	0.00	179.41	0.80	179.93	2.52
178.38	0.00	178.90	0.00	179.42	0.85	179.94	2.57
178.39	0.00	178.91	0.00	179.43	0.90	179.95	2.63
178.40	0.00	178.92	0.00	179.44	0.95	179.96	2.69
178.41	0.00	178.93	0.00	179.45	1.00	179.97	2.76
178.42	0.00	178.94	0.00	179.46	1.05	179.98	2.83
178.43	0.00	178.95	0.00	179.47	1.11	179.99	2.90
178.44	0.00	178.96	0.00	179.48	1.16	180.00	2.98
178.45	0.00	178.97	0.00	179.49	1.22	180.01	3.06
178.46	0.00	178.98	0.00	179.50	1.27	180.02	3.14
178.47	0.00	178.99	0.00	179.51	1.32	180.03	3.23
178.48	0.00	179.00	0.00	179.52	1.36	180.04	3.31
178.49	0.00	179.01	0.00	179.53	1.40	180.05	3.40
178.50	0.00	179.02	0.00	179.54	1.44	180.06	3.50
178.51	0.00	179.03	0.00	179.55	1.48	180.07	3.59

Stage-Discharge for Pond B-16A: Basin #16A (continued)

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
180.08	3.69	180.60	10.86	181.12	16.41	181.64	17.52
180.09	3.79	180.61	11.03	181.13	16.43	181.65	17.54
180.10	3.89	180.62	11.20	181.14	16.46	181.66	17.56
180.11	3.99	180.63	11.37	181.15	16.48	181.67	17.58
180.12	4.10	180.64	11.54	181.16	16.50	181.68	17.60
180.13	4.21	180.65	11.71	181.17	16.52	181.69	17.62
180.14	4.32	180.66	11.88	181.18	16.54	181.70	17.64
180.15	4.43	180.67	12.05	181.19	16.56	181.71	17.66
180.16	4.54	180.68	12.23	181.20	16.59	181.72	17.69
180.17	4.65	180.69	12.40	181.21	16.61	181.73	17.71
180.18	4.77	180.70	12.58	181.22	16.63	181.74	17.73
180.19	4.89	180.71	12.76	181.23	16.65	181.75	17.75
180.20	5.01	180.72	12.94	181.24	16.67	181.76	17.77
180.21	5.13	180.73	13.11	181.25	16.70	181.77	17.79
180.22	5.25	180.74	13.29	181.26	16.72	181.78	17.81
180.23	5.38	180.75	13.47	181.27	16.74	181.79	17.83
180.24	5.50	180.76	13.66	181.28	16.76	181.80	17.85
180.25	5.63	180.77	13.84	181.29	16.78	181.81	17.87
180.26	5.76	180.78	14.02	181.30	16.80	181.82	17.89
180.27	5.89	180.79	14.20	181.31	16.82	181.83	17.91
180.28	6.02	180.80	14.39	181.32	16.85	181.84	17.93
180.29	6.15	180.81	14.57	181.33	16.87	181.85	17.95
180.30	6.29	180.82	14.76	181.34	16.89	181.86	17.97
180.31	6.42	180.83	14.95	181.35	16.91	181.87	17.99
180.32	6.56	180.84	15.13	181.36	16.93	181.88	18.01
180.33	6.70	180.85	15.32	181.37	16.95	181.89	18.03
180.34	6.84	180.86	15.51	181.38	16.97	181.90	18.05
180.35	6.98	180.87	15.70	181.39	17.00	181.91	18.07
180.36	7.12	180.88	15.87	181.40	17.02	181.92	18.09
180.37	7.26	180.89	15.90	181.41	17.04	181.93	18.11
180.38	7.41	180.90	15.92	181.42	17.06	181.94	18.13
180.39	7.55	180.91	15.94	181.43	17.08	181.95	18.15
180.40	7.70	180.92	15.96	181.44	17.10	181.96	18.29
180.41	7.85	180.93	15.99	181.45	17.12	181.97	18.52
180.42	8.00	180.94	16.01	181.46	17.14	181.98	18.82
180.43	8.15	180.95	16.03	181.47	17.17	181.99	19.17
180.44	8.30	180.96	16.05	181.48	17.19	182.00	19.56
180.45	8.45	180.97	16.08	181.49	17.21		
180.46	8.60	180.98	16.10	181.50	17.23		
180.47	8.76	180.99	16.12	181.51	17.25		
180.48	8.91	181.00	16.14	181.52	17.27		
180.49	9.07	181.01	16.17	181.53	17.29		
180.50	9.23	181.02	16.19	181.54	17.31		
180.51	9.39	181.03	16.21	181.55	17.33		
180.52	9.55	181.04	16.23	181.56	17.35		
180.53	9.71	181.05	16.26	181.57	17.38		
180.54	9.87	181.06	16.28	181.58	17.40		
180.55	10.03	181.07	16.30	181.59	17.42		
180.56	10.19	181.08	16.32	181.60	17.44		
180.57	10.36	181.09	16.34	181.61	17.46		
180.58	10.52	181.10	16.37	181.62	17.48		
180.59	10.69	181.11	16.39	181.63	17.50		

Stage-Area-Storage for Pond B-16A: Basin #16A

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
178.00	2,543	0	178.52	2,930	1,423
178.01	2,550	25	178.53	2,937	1,452
178.02	2,558	51	178.54	2,945	1,482
178.03	2,565	77	178.55	2,952	1,511
178.04	2,573	102	178.56	2,960	1,541
178.05	2,580	128	178.57	2,967	1,570
178.06	2,588	154	178.58	2,975	1,600
178.07	2,595	180	178.59	2,982	1,630
178.08	2,603	206	178.60	2,989	1,660
178.09	2,610	232	178.61	2,997	1,690
178.10	2,617	258	178.62	3,004	1,720
178.11	2,625	284	178.63	3,012	1,750
178.12	2,632	311	178.64	3,019	1,780
178.13	2,640	337	178.65	3,027	1,810
178.14	2,647	363	178.66	3,034	1,840
178.15	2,655	390	178.67	3,041	1,871
178.16	2,662	416	178.68	3,049	1,901
178.17	2,669	443	178.69	3,056	1,932
178.18	2,677	470	178.70	3,064	1,962
178.19	2,684	497	178.71	3,071	1,993
178.20	2,692	523	178.72	3,079	2,024
178.21	2,699	550	178.73	3,086	2,055
178.22	2,707	577	178.74	3,094	2,086
178.23	2,714	605	178.75	3,101	2,117
178.24	2,722	632	178.76	3,108	2,148
178.25	2,729	659	178.77	3,116	2,179
178.26	2,736	686	178.78	3,123	2,210
178.27	2,744	714	178.79	3,131	2,241
178.28	2,751	741	178.80	3,138	2,272
178.29	2,759	769	178.81	3,146	2,304
178.30	2,766	796	178.82	3,153	2,335
178.31	2,774	824	178.83	3,161	2,367
178.32	2,781	852	178.84	3,168	2,399
178.33	2,789	880	178.85	3,175	2,430
178.34	2,796	908	178.86	3,183	2,462
178.35	2,803	936	178.87	3,190	2,494
178.36	2,811	964	178.88	3,198	2,526
178.37	2,818	992	178.89	3,205	2,558
178.38	2,826	1,020	178.90	3,213	2,590
178.39	2,833	1,048	178.91	3,220	2,622
178.40	2,841	1,077	178.92	3,227	2,654
178.41	2,848	1,105	178.93	3,235	2,687
178.42	2,855	1,134	178.94	3,242	2,719
178.43	2,863	1,162	178.95	3,250	2,752
178.44	2,870	1,191	178.96	3,257	2,784
178.45	2,878	1,220	178.97	3,265	2,817
178.46	2,885	1,248	178.98	3,272	2,849
178.47	2,893	1,277	178.99	3,280	2,882
178.48	2,900	1,306	179.00	3,287	2,915
178.49	2,908	1,335	179.01	3,295	2,948
178.50	2,915	1,365	179.02	3,302	2,981
178.51	2,922	1,394	179.03	3,310	3,014

Stage-Area-Storage for Pond B-16A: Basin #16A (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
179.04	3,318	3,047	179.56	3,719	4,877
179.05	3,326	3,080	179.57	3,727	4,914
179.06	3,333	3,114	179.58	3,735	4,951
179.07	3,341	3,147	179.59	3,742	4,989
179.08	3,349	3,180	179.60	3,750	5,026
179.09	3,356	3,214	179.61	3,758	5,064
179.10	3,364	3,248	179.62	3,766	5,101
179.11	3,372	3,281	179.63	3,773	5,139
179.12	3,380	3,315	179.64	3,781	5,177
179.13	3,387	3,349	179.65	3,789	5,215
179.14	3,395	3,383	179.66	3,797	5,253
179.15	3,403	3,417	179.67	3,804	5,291
179.16	3,411	3,451	179.68	3,812	5,329
179.17	3,418	3,485	179.69	3,820	5,367
179.18	3,426	3,519	179.70	3,827	5,405
179.19	3,434	3,553	179.71	3,835	5,443
179.20	3,441	3,588	179.72	3,843	5,482
179.21	3,449	3,622	179.73	3,851	5,520
179.22	3,457	3,657	179.74	3,858	5,559
179.23	3,465	3,691	179.75	3,866	5,597
179.24	3,472	3,726	179.76	3,874	5,636
179.25	3,480	3,761	179.77	3,881	5,675
179.26	3,488	3,796	179.78	3,889	5,714
179.27	3,495	3,831	179.79	3,897	5,753
179.28	3,503	3,866	179.80	3,905	5,792
179.29	3,511	3,901	179.81	3,912	5,831
179.30	3,519	3,936	179.82	3,920	5,870
179.31	3,526	3,971	179.83	3,928	5,909
179.32	3,534	4,006	179.84	3,935	5,948
179.33	3,542	4,042	179.85	3,943	5,988
179.34	3,549	4,077	179.86	3,951	6,027
179.35	3,557	4,113	179.87	3,959	6,067
179.36	3,565	4,148	179.88	3,966	6,106
179.37	3,573	4,184	179.89	3,974	6,146
179.38	3,580	4,220	179.90	3,982	6,186
179.39	3,588	4,256	179.91	3,990	6,226
179.40	3,596	4,292	179.92	3,997	6,266
179.41	3,604	4,328	179.93	4,005	6,306
179.42	3,611	4,364	179.94	4,013	6,346
179.43	3,619	4,400	179.95	4,020	6,386
179.44	3,627	4,436	179.96	4,028	6,426
179.45	3,634	4,472	179.97	4,036	6,467
179.46	3,642	4,509	179.98	4,044	6,507
179.47	3,650	4,545	179.99	4,051	6,547
179.48	3,658	4,582	180.00	4,059	6,588
179.49	3,665	4,618	180.01	4,067	6,629
179.50	3,673	4,655	180.02	4,075	6,669
179.51	3,681	4,692	180.03	4,083	6,710
179.52	3,688	4,729	180.04	4,091	6,751
179.53	3,696	4,766	180.05	4,099	6,792
179.54	3,704	4,803	180.06	4,107	6,833
179.55	3,712	4,840	180.07	4,115	6,874

Stage-Area-Storage for Pond B-16A: Basin #16A (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
180.08	4,123	6,915	180.60	4,538	9,167
180.09	4,131	6,957	180.61	4,546	9,213
180.10	4,139	6,998	180.62	4,554	9,258
180.11	4,147	7,039	180.63	4,562	9,304
180.12	4,155	7,081	180.64	4,570	9,349
180.13	4,163	7,122	180.65	4,578	9,395
180.14	4,171	7,164	180.66	4,586	9,441
180.15	4,179	7,206	180.67	4,594	9,487
180.16	4,187	7,248	180.68	4,602	9,533
180.17	4,195	7,290	180.69	4,610	9,579
180.18	4,203	7,332	180.70	4,618	9,625
180.19	4,211	7,374	180.71	4,626	9,671
180.20	4,219	7,416	180.72	4,634	9,718
180.21	4,227	7,458	180.73	4,642	9,764
180.22	4,235	7,500	180.74	4,650	9,810
180.23	4,243	7,543	180.75	4,658	9,857
180.24	4,251	7,585	180.76	4,666	9,904
180.25	4,259	7,628	180.77	4,674	9,950
180.26	4,267	7,670	180.78	4,682	9,997
180.27	4,275	7,713	180.79	4,690	10,044
180.28	4,283	7,756	180.80	4,698	10,091
180.29	4,291	7,799	180.81	4,706	10,138
180.30	4,299	7,842	180.82	4,714	10,185
180.31	4,307	7,885	180.83	4,722	10,232
180.32	4,315	7,928	180.84	4,730	10,279
180.33	4,323	7,971	180.85	4,738	10,327
180.34	4,331	8,014	180.86	4,746	10,374
180.35	4,339	8,058	180.87	4,754	10,422
180.36	4,347	8,101	180.88	4,762	10,469
180.37	4,355	8,145	180.89	4,770	10,517
180.38	4,363	8,188	180.90	4,778	10,565
180.39	4,371	8,232	180.91	4,786	10,613
180.40	4,379	8,276	180.92	4,794	10,660
180.41	4,387	8,319	180.93	4,802	10,708
180.42	4,395	8,363	180.94	4,810	10,756
180.43	4,403	8,407	180.95	4,818	10,805
180.44	4,411	8,451	180.96	4,826	10,853
180.45	4,419	8,495	180.97	4,834	10,901
180.46	4,427	8,540	180.98	4,842	10,949
180.47	4,435	8,584	180.99	4,850	10,998
180.48	4,443	8,628	181.00	4,858	11,047
180.49	4,451	8,673	181.01	4,866	11,095
180.50	4,459	8,717	181.02	4,875	11,144
180.51	4,466	8,762	181.03	4,883	11,193
180.52	4,474	8,807	181.04	4,891	11,241
180.53	4,482	8,851	181.05	4,899	11,290
180.54	4,490	8,896	181.06	4,908	11,339
180.55	4,498	8,941	181.07	4,916	11,389
180.56	4,506	8,986	181.08	4,924	11,438
180.57	4,514	9,031	181.09	4,932	11,487
180.58	4,522	9,077	181.10	4,941	11,536
180.59	4,530	9,122	181.11	4,949	11,586

Stage-Area-Storage for Pond B-16A: Basin #16A (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
181.12	4,957	11,635	181.64	5,387	14,325
181.13	4,966	11,685	181.65	5,396	14,379
181.14	4,974	11,735	181.66	5,404	14,433
181.15	4,982	11,785	181.67	5,412	14,487
181.16	4,990	11,834	181.68	5,420	14,541
181.17	4,999	11,884	181.69	5,429	14,595
181.18	5,007	11,934	181.70	5,437	14,650
181.19	5,015	11,984	181.71	5,445	14,704
181.20	5,023	12,035	181.72	5,453	14,759
181.21	5,032	12,085	181.73	5,462	14,813
181.22	5,040	12,135	181.74	5,470	14,868
181.23	5,048	12,186	181.75	5,478	14,923
181.24	5,056	12,236	181.76	5,487	14,977
181.25	5,065	12,287	181.77	5,495	15,032
181.26	5,073	12,338	181.78	5,503	15,087
181.27	5,081	12,388	181.79	5,511	15,142
181.28	5,090	12,439	181.80	5,520	15,198
181.29	5,098	12,490	181.81	5,528	15,253
181.30	5,106	12,541	181.82	5,536	15,308
181.31	5,114	12,592	181.83	5,544	15,364
181.32	5,123	12,643	181.84	5,553	15,419
181.33	5,131	12,695	181.85	5,561	15,475
181.34	5,139	12,746	181.86	5,569	15,530
181.35	5,147	12,797	181.87	5,577	15,586
181.36	5,156	12,849	181.88	5,586	15,642
181.37	5,164	12,901	181.89	5,594	15,698
181.38	5,172	12,952	181.90	5,602	15,754
181.39	5,181	13,004	181.91	5,611	15,810
181.40	5,189	13,056	181.92	5,619	15,866
181.41	5,197	13,108	181.93	5,627	15,922
181.42	5,205	13,160	181.94	5,635	15,978
181.43	5,214	13,212	181.95	5,644	16,035
181.44	5,222	13,264	181.96	5,652	16,091
181.45	5,230	13,316	181.97	5,660	16,148
181.46	5,238	13,369	181.98	5,668	16,204
181.47	5,247	13,421	181.99	5,677	16,261
181.48	5,255	13,474	182.00	5,685	16,318
181.49	5,263	13,526			
181.50	5,272	13,579			
181.51	5,280	13,632			
181.52	5,288	13,684			
181.53	5,296	13,737			
181.54	5,305	13,790			
181.55	5,313	13,843			
181.56	5,321	13,897			
181.57	5,329	13,950			
181.58	5,338	14,003			
181.59	5,346	14,057			
181.60	5,354	14,110			
181.61	5,362	14,164			
181.62	5,371	14,217			
181.63	5,379	14,271			

Summary for Pond B-16B: Basin #16B

Inflow Area = 1.877 ac, 43.74% Impervious, Inflow Depth = 4.18" for Future 10 yr event
 Inflow = 7.95 cfs @ 12.17 hrs, Volume= 0.653 af
 Outflow = 5.22 cfs @ 12.29 hrs, Volume= 0.574 af, Atten= 34%, Lag= 7.0 min
 Primary = 5.22 cfs @ 12.29 hrs, Volume= 0.574 af
 Routed to Link PDA-1 : Proposed Drainage Area #1

Routing by Stor-Ind method, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 Peak Elev= 180.41' @ 12.29 hrs Surf.Area= 4,737 sf Storage= 9,464 cf

Plug-Flow detention time= 133.6 min calculated for 0.573 af (88% of inflow)
 Center-of-Mass det. time= 74.1 min (860.0 - 785.8)

Volume	Invert	Avail.Storage	Storage Description
#1	178.00'	17,892 cf	Custom Stage Data (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
178.00	3,145	0	0
179.00	3,781	3,463	3,463
180.00	4,451	4,116	7,579
181.00	5,149	4,800	12,379
182.00	5,877	5,513	17,892

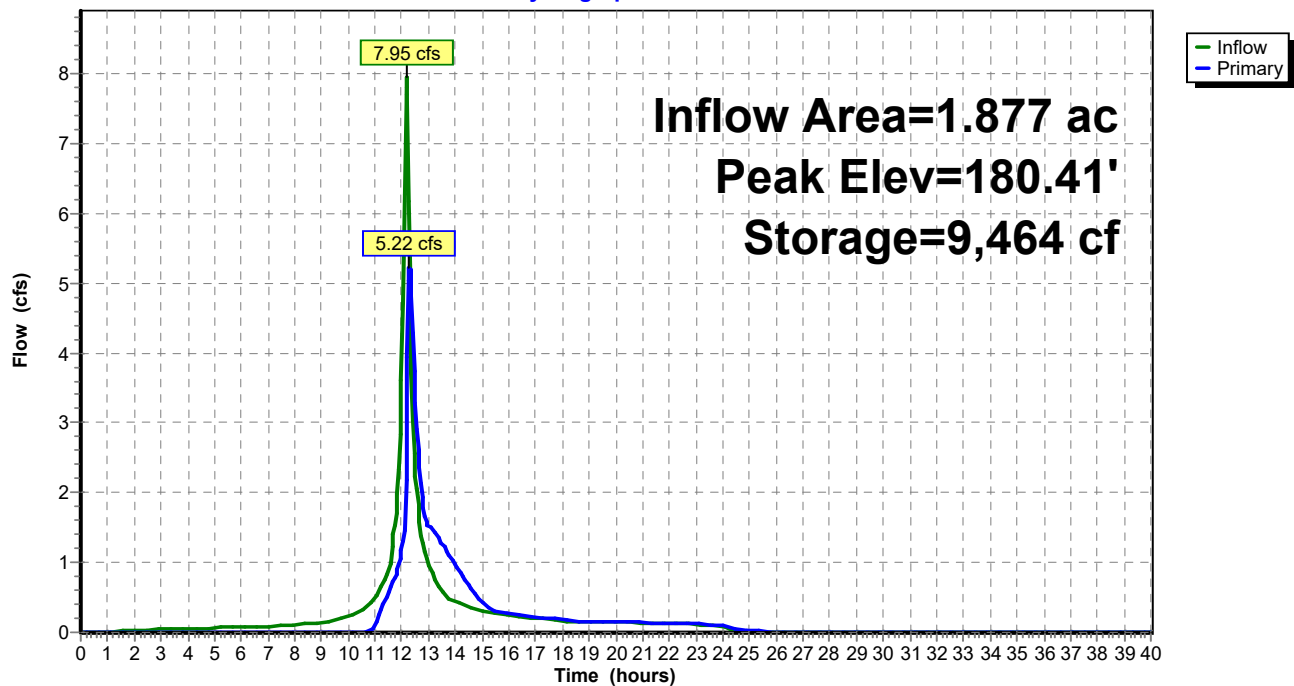
Device	Routing	Invert	Outlet Devices
#1	Primary	176.65'	18.0" Round Culvert L= 53.0' Ke= 0.500 Inlet / Outlet Invert= 176.65' / 172.00' S= 0.0877 ' S= 0.0877 ' Cc= 0.900 n= 0.013, Flow Area= 1.77 sf
#2	Device 1	179.00'	24.0" W x 2.0" H Vert. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#3	Device 1	180.00'	4.0' long Sharp-Crested Rectangular Weir 2 End Contraction(s)
#4	Primary	180.67'	50.0' long + 3.0 ' SideZ x 5.0' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 Coef. (English) 2.34 2.50 2.70 2.68 2.68 2.66 2.65 2.65 2.65 2.65 2.67 2.66 2.68 2.70 2.74 2.79 2.88

Primary OutFlow Max=5.17 cfs @ 12.29 hrs HW=180.41' (Free Discharge)

1=Culvert (Passes 5.17 cfs of 14.75 cfs potential flow)
 2=Orifice/Grate (Orifice Controls 1.85 cfs @ 5.54 fps)
 3=Sharp-Crested Rectangular Weir (Weir Controls 3.32 cfs @ 2.09 fps)
 4=Broad-Crested Rectangular Weir (Controls 0.00 cfs)

Pond B-16B: Basin #16B

Hydrograph



Stage-Discharge for Pond B-16B: Basin #16B

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
178.00	0.00	178.52	0.00	179.04	0.05	179.56	1.11
178.01	0.00	178.53	0.00	179.05	0.07	179.57	1.12
178.02	0.00	178.54	0.00	179.06	0.09	179.58	1.13
178.03	0.00	178.55	0.00	179.07	0.12	179.59	1.14
178.04	0.00	178.56	0.00	179.08	0.15	179.60	1.15
178.05	0.00	178.57	0.00	179.09	0.17	179.61	1.16
178.06	0.00	178.58	0.00	179.10	0.20	179.62	1.17
178.07	0.00	178.59	0.00	179.11	0.23	179.63	1.19
178.08	0.00	178.60	0.00	179.12	0.27	179.64	1.20
178.09	0.00	178.61	0.00	179.13	0.30	179.65	1.21
178.10	0.00	178.62	0.00	179.14	0.34	179.66	1.22
178.11	0.00	178.63	0.00	179.15	0.37	179.67	1.23
178.12	0.00	178.64	0.00	179.16	0.41	179.68	1.24
178.13	0.00	178.65	0.00	179.17	0.45	179.69	1.25
178.14	0.00	178.66	0.00	179.18	0.48	179.70	1.26
178.15	0.00	178.67	0.00	179.19	0.51	179.71	1.27
178.16	0.00	178.68	0.00	179.20	0.54	179.72	1.28
178.17	0.00	178.69	0.00	179.21	0.56	179.73	1.29
178.18	0.00	178.70	0.00	179.22	0.58	179.74	1.30
178.19	0.00	178.71	0.00	179.23	0.61	179.75	1.31
178.20	0.00	178.72	0.00	179.24	0.63	179.76	1.32
178.21	0.00	178.73	0.00	179.25	0.65	179.77	1.33
178.22	0.00	178.74	0.00	179.26	0.67	179.78	1.34
178.23	0.00	178.75	0.00	179.27	0.69	179.79	1.35
178.24	0.00	178.76	0.00	179.28	0.71	179.80	1.36
178.25	0.00	178.77	0.00	179.29	0.72	179.81	1.37
178.26	0.00	178.78	0.00	179.30	0.74	179.82	1.38
178.27	0.00	178.79	0.00	179.31	0.76	179.83	1.39
178.28	0.00	178.80	0.00	179.32	0.78	179.84	1.40
178.29	0.00	178.81	0.00	179.33	0.79	179.85	1.40
178.30	0.00	178.82	0.00	179.34	0.81	179.86	1.41
178.31	0.00	178.83	0.00	179.35	0.83	179.87	1.42
178.32	0.00	178.84	0.00	179.36	0.84	179.88	1.43
178.33	0.00	178.85	0.00	179.37	0.86	179.89	1.44
178.34	0.00	178.86	0.00	179.38	0.87	179.90	1.45
178.35	0.00	178.87	0.00	179.39	0.89	179.91	1.46
178.36	0.00	178.88	0.00	179.40	0.90	179.92	1.47
178.37	0.00	178.89	0.00	179.41	0.91	179.93	1.48
178.38	0.00	178.90	0.00	179.42	0.93	179.94	1.48
178.39	0.00	178.91	0.00	179.43	0.94	179.95	1.49
178.40	0.00	178.92	0.00	179.44	0.96	179.96	1.50
178.41	0.00	178.93	0.00	179.45	0.97	179.97	1.51
178.42	0.00	178.94	0.00	179.46	0.98	179.98	1.52
178.43	0.00	178.95	0.00	179.47	1.00	179.99	1.53
178.44	0.00	178.96	0.00	179.48	1.01	180.00	1.54
178.45	0.00	178.97	0.00	179.49	1.02	180.01	1.56
178.46	0.00	178.98	0.00	179.50	1.03	180.02	1.59
178.47	0.00	178.99	0.00	179.51	1.05	180.03	1.63
178.48	0.00	179.00	0.00	179.52	1.06	180.04	1.67
178.49	0.00	179.01	0.01	179.53	1.07	180.05	1.72
178.50	0.00	179.02	0.02	179.54	1.08	180.06	1.78
178.51	0.00	179.03	0.03	179.55	1.09	180.07	1.84

Stage-Discharge for Pond B-16B: Basin #16B (continued)

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
180.08	1.90	180.60	7.87	181.12	55.73	181.64	151.50
180.09	1.96	180.61	8.02	181.13	57.25	181.65	153.66
180.10	2.03	180.62	8.18	181.14	58.79	181.66	155.83
180.11	2.10	180.63	8.33	181.15	60.36	181.67	158.01
180.12	2.17	180.64	8.48	181.16	61.96	181.68	160.16
180.13	2.25	180.65	8.64	181.17	63.59	181.69	162.31
180.14	2.33	180.66	8.80	181.18	65.24	181.70	164.48
180.15	2.41	180.67	8.95	181.19	66.91	181.71	166.66
180.16	2.50	180.68	9.23	181.20	68.62	181.72	168.84
180.17	2.58	180.69	9.60	181.21	70.35	181.73	171.04
180.18	2.67	180.70	10.04	181.22	72.10	181.74	173.25
180.19	2.76	180.71	10.53	181.23	73.89	181.75	175.47
180.20	2.85	180.72	11.07	181.24	75.70	181.76	177.70
180.21	2.95	180.73	11.64	181.25	77.53	181.77	179.94
180.22	3.05	180.74	12.26	181.26	79.40	181.78	182.19
180.23	3.14	180.75	12.91	181.27	81.29	181.79	184.45
180.24	3.25	180.76	13.59	181.28	82.94	181.80	186.72
180.25	3.35	180.77	14.30	181.29	84.60	181.81	189.00
180.26	3.45	180.78	15.04	181.30	86.27	181.82	191.29
180.27	3.56	180.79	15.81	181.31	87.96	181.83	193.59
180.28	3.67	180.80	16.61	181.32	89.66	181.84	195.90
180.29	3.78	180.81	17.43	181.33	91.38	181.85	198.22
180.30	3.89	180.82	18.28	181.34	93.11	181.86	200.55
180.31	4.00	180.83	19.15	181.35	94.85	181.87	202.89
180.32	4.11	180.84	20.04	181.36	96.60	181.88	205.28
180.33	4.23	180.85	20.96	181.37	98.37	181.89	207.68
180.34	4.35	180.86	21.90	181.38	100.15	181.90	210.08
180.35	4.47	180.87	22.86	181.39	101.94	181.91	212.50
180.36	4.59	180.88	23.89	181.40	103.75	181.92	214.93
180.37	4.71	180.89	24.93	181.41	105.57	181.93	217.37
180.38	4.83	180.90	26.01	181.42	107.40	181.94	219.82
180.39	4.96	180.91	27.11	181.43	109.24	181.95	222.28
180.40	5.08	180.92	28.24	181.44	111.09	181.96	224.75
180.41	5.21	180.93	29.39	181.45	112.96	181.97	227.23
180.42	5.34	180.94	30.57	181.46	114.84	181.98	229.73
180.43	5.47	180.95	31.78	181.47	116.73	181.99	232.23
180.44	5.60	180.96	33.01	181.48	118.67	182.00	234.74
180.45	5.74	180.97	34.26	181.49	120.62		
180.46	5.87	180.98	35.54	181.50	122.59		
180.47	6.01	180.99	36.85	181.51	124.57		
180.48	6.14	181.00	38.18	181.52	126.57		
180.49	6.28	181.01	39.54	181.53	128.57		
180.50	6.42	181.02	40.92	181.54	130.59		
180.51	6.56	181.03	42.32	181.55	132.62		
180.52	6.70	181.04	43.75	181.56	134.67		
180.53	6.84	181.05	45.21	181.57	136.73		
180.54	6.99	181.06	46.69	181.58	138.80		
180.55	7.13	181.07	48.19	181.59	140.88		
180.56	7.28	181.08	49.75	181.60	142.98		
180.57	7.43	181.09	51.33	181.61	145.09		
180.58	7.57	181.10	52.77	181.62	147.21		
180.59	7.72	181.11	54.24	181.63	149.35		

Stage-Area-Storage for Pond B-16B: Basin #16B

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
178.00	3,145	0	178.52	3,476	1,721
178.01	3,151	31	178.53	3,482	1,756
178.02	3,158	63	178.54	3,488	1,791
178.03	3,164	95	178.55	3,495	1,826
178.04	3,170	126	178.56	3,501	1,861
178.05	3,177	158	178.57	3,508	1,896
178.06	3,183	190	178.58	3,514	1,931
178.07	3,190	222	178.59	3,520	1,966
178.08	3,196	254	178.60	3,527	2,001
178.09	3,202	286	178.61	3,533	2,037
178.10	3,209	318	178.62	3,539	2,072
178.11	3,215	350	178.63	3,546	2,108
178.12	3,221	382	178.64	3,552	2,143
178.13	3,228	414	178.65	3,558	2,179
178.14	3,234	447	178.66	3,565	2,214
178.15	3,240	479	178.67	3,571	2,250
178.16	3,247	511	178.68	3,577	2,286
178.17	3,253	544	178.69	3,584	2,321
178.18	3,259	576	178.70	3,590	2,357
178.19	3,266	609	178.71	3,597	2,393
178.20	3,272	642	178.72	3,603	2,429
178.21	3,279	674	178.73	3,609	2,465
178.22	3,285	707	178.74	3,616	2,501
178.23	3,291	740	178.75	3,622	2,538
178.24	3,298	773	178.76	3,628	2,574
178.25	3,304	806	178.77	3,635	2,610
178.26	3,310	839	178.78	3,641	2,647
178.27	3,317	872	178.79	3,647	2,683
178.28	3,323	906	178.80	3,654	2,720
178.29	3,329	939	178.81	3,660	2,756
178.30	3,336	972	178.82	3,667	2,793
178.31	3,342	1,006	178.83	3,673	2,829
178.32	3,349	1,039	178.84	3,679	2,866
178.33	3,355	1,072	178.85	3,686	2,903
178.34	3,361	1,106	178.86	3,692	2,940
178.35	3,368	1,140	178.87	3,698	2,977
178.36	3,374	1,173	178.88	3,705	3,014
178.37	3,380	1,207	178.89	3,711	3,051
178.38	3,387	1,241	178.90	3,717	3,088
178.39	3,393	1,275	178.91	3,724	3,125
178.40	3,399	1,309	178.92	3,730	3,163
178.41	3,406	1,343	178.93	3,736	3,200
178.42	3,412	1,377	178.94	3,743	3,237
178.43	3,418	1,411	178.95	3,749	3,275
178.44	3,425	1,445	178.96	3,756	3,312
178.45	3,431	1,480	178.97	3,762	3,350
178.46	3,438	1,514	178.98	3,768	3,388
178.47	3,444	1,548	178.99	3,775	3,425
178.48	3,450	1,583	179.00	3,781	3,463
178.49	3,457	1,617	179.01	3,788	3,501
178.50	3,463	1,652	179.02	3,794	3,539
178.51	3,469	1,687	179.03	3,801	3,577

Stage-Area-Storage for Pond B-16B: Basin #16B (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
179.04	3,808	3,615	179.56	4,156	5,685
179.05	3,815	3,653	179.57	4,163	5,727
179.06	3,821	3,691	179.58	4,170	5,769
179.07	3,828	3,729	179.59	4,176	5,810
179.08	3,835	3,768	179.60	4,183	5,852
179.09	3,841	3,806	179.61	4,190	5,894
179.10	3,848	3,844	179.62	4,196	5,936
179.11	3,855	3,883	179.63	4,203	5,978
179.12	3,861	3,922	179.64	4,210	6,020
179.13	3,868	3,960	179.65	4,217	6,062
179.14	3,875	3,999	179.66	4,223	6,104
179.15	3,882	4,038	179.67	4,230	6,147
179.16	3,888	4,077	179.68	4,237	6,189
179.17	3,895	4,115	179.69	4,243	6,231
179.18	3,902	4,154	179.70	4,250	6,274
179.19	3,908	4,193	179.71	4,257	6,316
179.20	3,915	4,233	179.72	4,263	6,359
179.21	3,922	4,272	179.73	4,270	6,402
179.22	3,928	4,311	179.74	4,277	6,444
179.23	3,935	4,350	179.75	4,284	6,487
179.24	3,942	4,390	179.76	4,290	6,530
179.25	3,949	4,429	179.77	4,297	6,573
179.26	3,955	4,469	179.78	4,304	6,616
179.27	3,962	4,508	179.79	4,310	6,659
179.28	3,969	4,548	179.80	4,317	6,702
179.29	3,975	4,588	179.81	4,324	6,745
179.30	3,982	4,627	179.82	4,330	6,789
179.31	3,989	4,667	179.83	4,337	6,832
179.32	3,995	4,707	179.84	4,344	6,875
179.33	4,002	4,747	179.85	4,350	6,919
179.34	4,009	4,787	179.86	4,357	6,962
179.35	4,015	4,827	179.87	4,364	7,006
179.36	4,022	4,868	179.88	4,371	7,050
179.37	4,029	4,908	179.89	4,377	7,093
179.38	4,036	4,948	179.90	4,384	7,137
179.39	4,042	4,989	179.91	4,391	7,181
179.40	4,049	5,029	179.92	4,397	7,225
179.41	4,056	5,070	179.93	4,404	7,269
179.42	4,062	5,110	179.94	4,411	7,313
179.43	4,069	5,151	179.95	4,417	7,357
179.44	4,076	5,191	179.96	4,424	7,401
179.45	4,082	5,232	179.97	4,431	7,446
179.46	4,089	5,273	179.98	4,438	7,490
179.47	4,096	5,314	179.99	4,444	7,535
179.48	4,103	5,355	180.00	4,451	7,579
179.49	4,109	5,396	180.01	4,458	7,624
179.50	4,116	5,437	180.02	4,465	7,668
179.51	4,123	5,478	180.03	4,472	7,713
179.52	4,129	5,520	180.04	4,479	7,758
179.53	4,136	5,561	180.05	4,486	7,802
179.54	4,143	5,602	180.06	4,493	7,847
179.55	4,150	5,644	180.07	4,500	7,892

Stage-Area-Storage for Pond B-16B: Basin #16B (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
180.08	4,507	7,937	180.60	4,870	10,375
180.09	4,514	7,982	180.61	4,877	10,424
180.10	4,521	8,028	180.62	4,884	10,473
180.11	4,528	8,073	180.63	4,891	10,522
180.12	4,535	8,118	180.64	4,898	10,571
180.13	4,542	8,164	180.65	4,905	10,620
180.14	4,549	8,209	180.66	4,912	10,669
180.15	4,556	8,255	180.67	4,919	10,718
180.16	4,563	8,300	180.68	4,926	10,767
180.17	4,570	8,346	180.69	4,933	10,816
180.18	4,577	8,391	180.70	4,940	10,866
180.19	4,584	8,437	180.71	4,947	10,915
180.20	4,591	8,483	180.72	4,954	10,965
180.21	4,598	8,529	180.73	4,961	11,014
180.22	4,605	8,575	180.74	4,968	11,064
180.23	4,612	8,621	180.75	4,975	11,114
180.24	4,619	8,667	180.76	4,981	11,163
180.25	4,626	8,714	180.77	4,988	11,213
180.26	4,632	8,760	180.78	4,995	11,263
180.27	4,639	8,806	180.79	5,002	11,313
180.28	4,646	8,853	180.80	5,009	11,363
180.29	4,653	8,899	180.81	5,016	11,413
180.30	4,660	8,946	180.82	5,023	11,463
180.31	4,667	8,992	180.83	5,030	11,514
180.32	4,674	9,039	180.84	5,037	11,564
180.33	4,681	9,086	180.85	5,044	11,615
180.34	4,688	9,133	180.86	5,051	11,665
180.35	4,695	9,180	180.87	5,058	11,716
180.36	4,702	9,227	180.88	5,065	11,766
180.37	4,709	9,274	180.89	5,072	11,817
180.38	4,716	9,321	180.90	5,079	11,868
180.39	4,723	9,368	180.91	5,086	11,918
180.40	4,730	9,415	180.92	5,093	11,969
180.41	4,737	9,463	180.93	5,100	12,020
180.42	4,744	9,510	180.94	5,107	12,071
180.43	4,751	9,557	180.95	5,114	12,122
180.44	4,758	9,605	180.96	5,121	12,174
180.45	4,765	9,653	180.97	5,128	12,225
180.46	4,772	9,700	180.98	5,135	12,276
180.47	4,779	9,748	180.99	5,142	12,328
180.48	4,786	9,796	181.00	5,149	12,379
180.49	4,793	9,844	181.01	5,156	12,431
180.50	4,800	9,892	181.02	5,164	12,482
180.51	4,807	9,940	181.03	5,171	12,534
180.52	4,814	9,988	181.04	5,178	12,586
180.53	4,821	10,036	181.05	5,185	12,637
180.54	4,828	10,084	181.06	5,193	12,689
180.55	4,835	10,133	181.07	5,200	12,741
180.56	4,842	10,181	181.08	5,207	12,793
180.57	4,849	10,229	181.09	5,215	12,845
180.58	4,856	10,278	181.10	5,222	12,898
180.59	4,863	10,327	181.11	5,229	12,950

Stage-Area-Storage for Pond B-16B: Basin #16B (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
181.12	5,236	13,002	181.64	5,615	15,823
181.13	5,244	13,055	181.65	5,622	15,880
181.14	5,251	13,107	181.66	5,629	15,936
181.15	5,258	13,160	181.67	5,637	15,992
181.16	5,265	13,212	181.68	5,644	16,049
181.17	5,273	13,265	181.69	5,651	16,105
181.18	5,280	13,318	181.70	5,659	16,162
181.19	5,287	13,370	181.71	5,666	16,218
181.20	5,295	13,423	181.72	5,673	16,275
181.21	5,302	13,476	181.73	5,680	16,332
181.22	5,309	13,529	181.74	5,688	16,389
181.23	5,316	13,583	181.75	5,695	16,446
181.24	5,324	13,636	181.76	5,702	16,502
181.25	5,331	13,689	181.77	5,710	16,560
181.26	5,338	13,742	181.78	5,717	16,617
181.27	5,346	13,796	181.79	5,724	16,674
181.28	5,353	13,849	181.80	5,731	16,731
181.29	5,360	13,903	181.81	5,739	16,789
181.30	5,367	13,956	181.82	5,746	16,846
181.31	5,375	14,010	181.83	5,753	16,903
181.32	5,382	14,064	181.84	5,761	16,961
181.33	5,389	14,118	181.85	5,768	17,019
181.34	5,397	14,172	181.86	5,775	17,076
181.35	5,404	14,226	181.87	5,782	17,134
181.36	5,411	14,280	181.88	5,790	17,192
181.37	5,418	14,334	181.89	5,797	17,250
181.38	5,426	14,388	181.90	5,804	17,308
181.39	5,433	14,442	181.91	5,811	17,366
181.40	5,440	14,497	181.92	5,819	17,424
181.41	5,447	14,551	181.93	5,826	17,482
181.42	5,455	14,606	181.94	5,833	17,541
181.43	5,462	14,660	181.95	5,841	17,599
181.44	5,469	14,715	181.96	5,848	17,658
181.45	5,477	14,770	181.97	5,855	17,716
181.46	5,484	14,825	181.98	5,862	17,775
181.47	5,491	14,879	181.99	5,870	17,833
181.48	5,498	14,934	182.00	5,877	17,892
181.49	5,506	14,989			
181.50	5,513	15,045			
181.51	5,520	15,100			
181.52	5,528	15,155			
181.53	5,535	15,210			
181.54	5,542	15,266			
181.55	5,549	15,321			
181.56	5,557	15,377			
181.57	5,564	15,432			
181.58	5,571	15,488			
181.59	5,579	15,544			
181.60	5,586	15,599			
181.61	5,593	15,655			
181.62	5,600	15,711			
181.63	5,608	15,767			

Summary for Pond B-17A: Basin #17A

Inflow Area = 1.324 ac, 14.58% Impervious, Inflow Depth = 3.43" for Future 10 yr event
 Inflow = 4.86 cfs @ 12.17 hrs, Volume= 0.379 af
 Outflow = 0.20 cfs @ 15.05 hrs, Volume= 0.331 af, Atten= 96%, Lag= 172.6 min
 Primary = 0.20 cfs @ 15.05 hrs, Volume= 0.331 af
 Routed to Link PDA-1 : Proposed Drainage Area #1

Routing by Stor-Ind method, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 Peak Elev= 180.70' @ 15.05 hrs Surf.Area= 7,240 sf Storage= 10,835 cf

Plug-Flow detention time= 648.8 min calculated for 0.331 af (87% of inflow)
 Center-of-Mass det. time= 588.9 min (1,405.1 - 816.2)

Volume	Invert	Avail.Storage	Storage Description
#1	179.00'	30,377 cf	Custom Stage Data (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
179.00	5,508	0	0
180.00	6,502	6,005	6,005
181.00	7,552	7,027	13,032
182.00	8,658	8,105	21,137
183.00	9,821	9,240	30,377

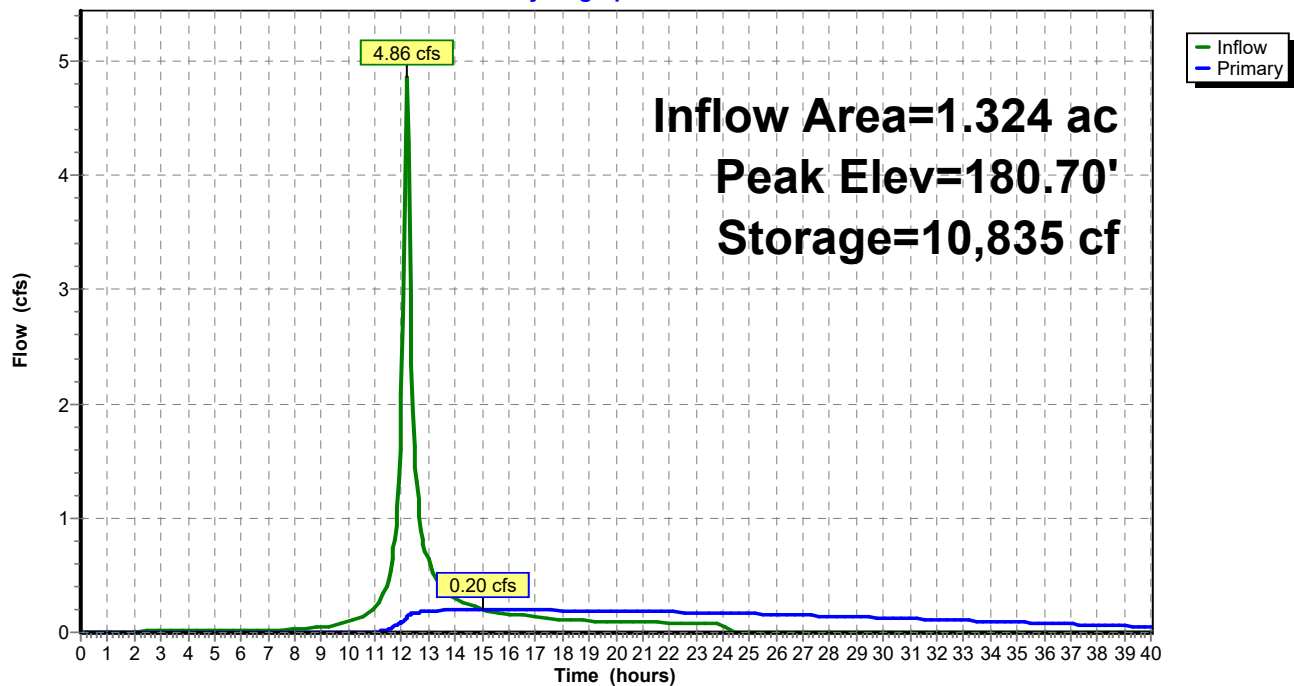
Device	Routing	Invert	Outlet Devices
#1	Primary	177.65'	18.0" Round Culvert L= 40.0' Ke= 0.500 Inlet / Outlet Invert= 177.65' / 177.00' S= 0.0163 '/' Cc= 0.900 n= 0.013, Flow Area= 1.77 sf
#2	Device 1	179.18'	2.5" Vert. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#3	Device 1	182.00'	4.0' long Sharp-Crested Rectangular Weir 2 End Contraction(s)
#4	Primary	181.95'	50.0' long + 3.0 '/' SideZ x 5.0' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 Coef. (English) 2.34 2.50 2.70 2.68 2.68 2.66 2.65 2.65 2.65 2.65 2.67 2.66 2.68 2.70 2.74 2.79 2.88

Primary OutFlow Max=0.20 cfs @ 15.05 hrs HW=180.70' (Free Discharge)

1=Culvert (Passes 0.20 cfs of 12.91 cfs potential flow)
 2=Orifice/Grate (Orifice Controls 0.20 cfs @ 5.74 fps)
 3=Sharp-Crested Rectangular Weir(Controls 0.00 cfs)
 4=Broad-Crested Rectangular Weir(Controls 0.00 cfs)

Pond B-17A: Basin #17A

Hydrograph



Stage-Discharge for Pond B-17A: Basin #17A

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
179.00	0.00	179.52	0.08	180.04	0.14	180.56	0.19
179.01	0.00	179.53	0.08	180.05	0.14	180.57	0.19
179.02	0.00	179.54	0.08	180.06	0.14	180.58	0.19
179.03	0.00	179.55	0.08	180.07	0.15	180.59	0.19
179.04	0.00	179.56	0.09	180.08	0.15	180.60	0.19
179.05	0.00	179.57	0.09	180.09	0.15	180.61	0.19
179.06	0.00	179.58	0.09	180.10	0.15	180.62	0.19
179.07	0.00	179.59	0.09	180.11	0.15	180.63	0.19
179.08	0.00	179.60	0.09	180.12	0.15	180.64	0.19
179.09	0.00	179.61	0.09	180.13	0.15	180.65	0.19
179.10	0.00	179.62	0.10	180.14	0.15	180.66	0.19
179.11	0.00	179.63	0.10	180.15	0.15	180.67	0.19
179.12	0.00	179.64	0.10	180.16	0.15	180.68	0.19
179.13	0.00	179.65	0.10	180.17	0.15	180.69	0.19
179.14	0.00	179.66	0.10	180.18	0.16	180.70	0.20
179.15	0.00	179.67	0.10	180.19	0.16	180.71	0.20
179.16	0.00	179.68	0.10	180.20	0.16	180.72	0.20
179.17	0.00	179.69	0.10	180.21	0.16	180.73	0.20
179.18	0.00	179.70	0.11	180.22	0.16	180.74	0.20
179.19	0.00	179.71	0.11	180.23	0.16	180.75	0.20
179.20	0.00	179.72	0.11	180.24	0.16	180.76	0.20
179.21	0.00	179.73	0.11	180.25	0.16	180.77	0.20
179.22	0.00	179.74	0.11	180.26	0.16	180.78	0.20
179.23	0.00	179.75	0.11	180.27	0.16	180.79	0.20
179.24	0.01	179.76	0.11	180.28	0.16	180.80	0.20
179.25	0.01	179.77	0.11	180.29	0.16	180.81	0.20
179.26	0.01	179.78	0.12	180.30	0.17	180.82	0.20
179.27	0.01	179.79	0.12	180.31	0.17	180.83	0.20
179.28	0.02	179.80	0.12	180.32	0.17	180.84	0.20
179.29	0.02	179.81	0.12	180.33	0.17	180.85	0.21
179.30	0.02	179.82	0.12	180.34	0.17	180.86	0.21
179.31	0.03	179.83	0.12	180.35	0.17	180.87	0.21
179.32	0.03	179.84	0.12	180.36	0.17	180.88	0.21
179.33	0.03	179.85	0.12	180.37	0.17	180.89	0.21
179.34	0.04	179.86	0.12	180.38	0.17	180.90	0.21
179.35	0.04	179.87	0.13	180.39	0.17	180.91	0.21
179.36	0.05	179.88	0.13	180.40	0.17	180.92	0.21
179.37	0.05	179.89	0.13	180.41	0.17	180.93	0.21
179.38	0.05	179.90	0.13	180.42	0.17	180.94	0.21
179.39	0.05	179.91	0.13	180.43	0.18	180.95	0.21
179.40	0.06	179.92	0.13	180.44	0.18	180.96	0.21
179.41	0.06	179.93	0.13	180.45	0.18	180.97	0.21
179.42	0.06	179.94	0.13	180.46	0.18	180.98	0.21
179.43	0.06	179.95	0.13	180.47	0.18	180.99	0.21
179.44	0.06	179.96	0.13	180.48	0.18	181.00	0.22
179.45	0.07	179.97	0.14	180.49	0.18	181.01	0.22
179.46	0.07	179.98	0.14	180.50	0.18	181.02	0.22
179.47	0.07	179.99	0.14	180.51	0.18	181.03	0.22
179.48	0.07	180.00	0.14	180.52	0.18	181.04	0.22
179.49	0.07	180.01	0.14	180.53	0.18	181.05	0.22
179.50	0.08	180.02	0.14	180.54	0.18	181.06	0.22
179.51	0.08	180.03	0.14	180.55	0.18	181.07	0.22

Stage-Discharge for Pond B-17A: Basin #17A (continued)

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
181.08	0.22	181.60	0.25	182.12	9.08	182.64	86.46
181.09	0.22	181.61	0.25	182.13	9.90	182.65	88.35
181.10	0.22	181.62	0.25	182.14	10.74	182.66	90.26
181.11	0.22	181.63	0.25	182.15	11.60	182.67	92.18
181.12	0.22	181.64	0.25	182.16	12.52	182.68	94.12
181.13	0.22	181.65	0.25	182.17	13.47	182.69	96.07
181.14	0.22	181.66	0.25	182.18	14.45	182.70	98.03
181.15	0.22	181.67	0.25	182.19	15.46	182.71	100.01
181.16	0.22	181.68	0.25	182.20	16.49	182.72	102.00
181.17	0.23	181.69	0.25	182.21	17.55	182.73	104.00
181.18	0.23	181.70	0.26	182.22	18.64	182.74	106.02
181.19	0.23	181.71	0.26	182.23	19.76	182.75	108.05
181.20	0.23	181.72	0.26	182.24	20.90	182.76	110.13
181.21	0.23	181.73	0.26	182.25	22.07	182.77	112.22
181.22	0.23	181.74	0.26	182.26	23.26	182.78	114.33
181.23	0.23	181.75	0.26	182.27	24.48	182.79	116.45
181.24	0.23	181.76	0.26	182.28	25.73	182.80	118.59
181.25	0.23	181.77	0.26	182.29	27.00	182.81	120.74
181.26	0.23	181.78	0.26	182.30	28.30	182.82	122.90
181.27	0.23	181.79	0.26	182.31	29.62	182.83	125.08
181.28	0.23	181.80	0.26	182.32	30.97	182.84	127.27
181.29	0.23	181.81	0.26	182.33	32.35	182.85	129.48
181.30	0.23	181.82	0.26	182.34	33.75	182.86	131.70
181.31	0.23	181.83	0.26	182.35	35.18	182.87	133.93
181.32	0.23	181.84	0.26	182.36	36.66	182.88	136.18
181.33	0.23	181.85	0.26	182.37	38.17	182.89	138.44
181.34	0.24	181.86	0.26	182.38	39.70	182.90	140.71
181.35	0.24	181.87	0.26	182.39	41.26	182.91	143.00
181.36	0.24	181.88	0.26	182.40	42.85	182.92	145.30
181.37	0.24	181.89	0.26	182.41	44.47	182.93	147.61
181.38	0.24	181.90	0.27	182.42	46.11	182.94	149.94
181.39	0.24	181.91	0.27	182.43	47.79	182.95	152.28
181.40	0.24	181.92	0.27	182.44	49.49	182.96	154.58
181.41	0.24	181.93	0.27	182.45	51.22	182.97	156.90
181.42	0.24	181.94	0.27	182.46	52.97	182.98	159.22
181.43	0.24	181.95	0.27	182.47	54.76	182.99	161.55
181.44	0.24	181.96	0.39	182.48	56.57	183.00	163.90
181.45	0.24	181.97	0.60	182.49	58.41		
181.46	0.24	181.98	0.88	182.50	60.28		
181.47	0.24	181.99	1.21	182.51	62.17		
181.48	0.24	182.00	1.58	182.52	64.09		
181.49	0.24	182.01	2.01	182.53	66.05		
181.50	0.24	182.02	2.48	182.54	68.03		
181.51	0.24	182.03	3.00	182.55	70.03		
181.52	0.25	182.04	3.55	182.56	71.80		
181.53	0.25	182.05	4.14	182.57	73.58		
181.54	0.25	182.06	4.76	182.58	75.38		
181.55	0.25	182.07	5.41	182.59	77.19		
181.56	0.25	182.08	6.09	182.60	79.01		
181.57	0.25	182.09	6.80	182.61	80.85		
181.58	0.25	182.10	7.53	182.62	82.71		
181.59	0.25	182.11	8.30	182.63	84.57		

Stage-Area-Storage for Pond B-17A: Basin #17A

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
179.00	5,508	0	179.52	6,025	2,999
179.01	5,518	55	179.53	6,035	3,059
179.02	5,528	110	179.54	6,045	3,119
179.03	5,538	166	179.55	6,055	3,180
179.04	5,548	221	179.56	6,065	3,240
179.05	5,558	277	179.57	6,075	3,301
179.06	5,568	332	179.58	6,085	3,362
179.07	5,578	388	179.59	6,094	3,423
179.08	5,588	444	179.60	6,104	3,484
179.09	5,597	500	179.61	6,114	3,545
179.10	5,607	556	179.62	6,124	3,606
179.11	5,617	612	179.63	6,134	3,667
179.12	5,627	668	179.64	6,144	3,729
179.13	5,637	724	179.65	6,154	3,790
179.14	5,647	781	179.66	6,164	3,852
179.15	5,657	837	179.67	6,174	3,913
179.16	5,667	894	179.68	6,184	3,975
179.17	5,677	951	179.69	6,194	4,037
179.18	5,687	1,008	179.70	6,204	4,099
179.19	5,697	1,064	179.71	6,214	4,161
179.20	5,707	1,121	179.72	6,224	4,223
179.21	5,717	1,179	179.73	6,234	4,286
179.22	5,727	1,236	179.74	6,244	4,348
179.23	5,737	1,293	179.75	6,254	4,411
179.24	5,747	1,351	179.76	6,263	4,473
179.25	5,757	1,408	179.77	6,273	4,536
179.26	5,766	1,466	179.78	6,283	4,599
179.27	5,776	1,523	179.79	6,293	4,661
179.28	5,786	1,581	179.80	6,303	4,724
179.29	5,796	1,639	179.81	6,313	4,788
179.30	5,806	1,697	179.82	6,323	4,851
179.31	5,816	1,755	179.83	6,333	4,914
179.32	5,826	1,813	179.84	6,343	4,977
179.33	5,836	1,872	179.85	6,353	5,041
179.34	5,846	1,930	179.86	6,363	5,104
179.35	5,856	1,989	179.87	6,373	5,168
179.36	5,866	2,047	179.88	6,383	5,232
179.37	5,876	2,106	179.89	6,393	5,296
179.38	5,886	2,165	179.90	6,403	5,360
179.39	5,896	2,224	179.91	6,413	5,424
179.40	5,906	2,283	179.92	6,422	5,488
179.41	5,916	2,342	179.93	6,432	5,552
179.42	5,925	2,401	179.94	6,442	5,617
179.43	5,935	2,460	179.95	6,452	5,681
179.44	5,945	2,520	179.96	6,462	5,746
179.45	5,955	2,579	179.97	6,472	5,810
179.46	5,965	2,639	179.98	6,482	5,875
179.47	5,975	2,699	179.99	6,492	5,940
179.48	5,985	2,758	180.00	6,502	6,005
179.49	5,995	2,818	180.01	6,512	6,070
179.50	6,005	2,878	180.02	6,523	6,135
179.51	6,015	2,938	180.03	6,534	6,201

Stage-Area-Storage for Pond B-17A: Basin #17A (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
180.04	6,544	6,266	180.56	7,090	9,811
180.05	6,555	6,331	180.57	7,100	9,882
180.06	6,565	6,397	180.58	7,111	9,953
180.07	6,575	6,463	180.59	7,122	10,024
180.08	6,586	6,529	180.60	7,132	10,095
180.09	6,597	6,594	180.61	7,143	10,167
180.10	6,607	6,660	180.62	7,153	10,238
180.11	6,618	6,727	180.63	7,163	10,310
180.12	6,628	6,793	180.64	7,174	10,381
180.13	6,638	6,859	180.65	7,185	10,453
180.14	6,649	6,926	180.66	7,195	10,525
180.15	6,660	6,992	180.67	7,205	10,597
180.16	6,670	7,059	180.68	7,216	10,669
180.17	6,680	7,126	180.69	7,226	10,741
180.18	6,691	7,192	180.70	7,237	10,814
180.19	6,701	7,259	180.71	7,248	10,886
180.20	6,712	7,326	180.72	7,258	10,959
180.21	6,723	7,394	180.73	7,268	11,031
180.22	6,733	7,461	180.74	7,279	11,104
180.23	6,743	7,528	180.75	7,290	11,177
180.24	6,754	7,596	180.76	7,300	11,250
180.25	6,765	7,663	180.77	7,311	11,323
180.26	6,775	7,731	180.78	7,321	11,396
180.27	6,786	7,799	180.79	7,331	11,469
180.28	6,796	7,867	180.80	7,342	11,543
180.29	6,806	7,935	180.81	7,353	11,616
180.30	6,817	8,003	180.82	7,363	11,690
180.31	6,828	8,071	180.83	7,374	11,763
180.32	6,838	8,139	180.84	7,384	11,837
180.33	6,849	8,208	180.85	7,394	11,911
180.34	6,859	8,276	180.86	7,405	11,985
180.35	6,869	8,345	180.87	7,416	12,059
180.36	6,880	8,414	180.88	7,426	12,133
180.37	6,891	8,483	180.89	7,436	12,208
180.38	6,901	8,552	180.90	7,447	12,282
180.39	6,911	8,621	180.91	7,457	12,357
180.40	6,922	8,690	180.92	7,468	12,431
180.41	6,932	8,759	180.93	7,479	12,506
180.42	6,943	8,828	180.94	7,489	12,581
180.43	6,954	8,898	180.95	7,499	12,656
180.44	6,964	8,968	180.96	7,510	12,731
180.45	6,974	9,037	180.97	7,520	12,806
180.46	6,985	9,107	180.98	7,531	12,881
180.47	6,995	9,177	180.99	7,542	12,957
180.48	7,006	9,247	181.00	7,552	13,032
180.49	7,017	9,317	181.01	7,563	13,108
180.50	7,027	9,387	181.02	7,574	13,183
180.51	7,037	9,458	181.03	7,585	13,259
180.52	7,048	9,528	181.04	7,596	13,335
180.53	7,059	9,599	181.05	7,607	13,411
180.54	7,069	9,669	181.06	7,618	13,487
180.55	7,080	9,740	181.07	7,629	13,563

Stage-Area-Storage for Pond B-17A: Basin #17A (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
181.08	7,640	13,640	181.60	8,216	17,762
181.09	7,652	13,716	181.61	8,227	17,844
181.10	7,663	13,793	181.62	8,238	17,927
181.11	7,674	13,869	181.63	8,249	18,009
181.12	7,685	13,946	181.64	8,260	18,092
181.13	7,696	14,023	181.65	8,271	18,174
181.14	7,707	14,100	181.66	8,282	18,257
181.15	7,718	14,177	181.67	8,293	18,340
181.16	7,729	14,254	181.68	8,304	18,423
181.17	7,740	14,332	181.69	8,315	18,506
181.18	7,751	14,409	181.70	8,326	18,589
181.19	7,762	14,487	181.71	8,337	18,673
181.20	7,773	14,565	181.72	8,348	18,756
181.21	7,784	14,642	181.73	8,359	18,840
181.22	7,795	14,720	181.74	8,370	18,923
181.23	7,806	14,798	181.75	8,382	19,007
181.24	7,817	14,876	181.76	8,393	19,091
181.25	7,829	14,955	181.77	8,404	19,175
181.26	7,840	15,033	181.78	8,415	19,259
181.27	7,851	15,111	181.79	8,426	19,343
181.28	7,862	15,190	181.80	8,437	19,428
181.29	7,873	15,269	181.81	8,448	19,512
181.30	7,884	15,347	181.82	8,459	19,596
181.31	7,895	15,426	181.83	8,470	19,681
181.32	7,906	15,505	181.84	8,481	19,766
181.33	7,917	15,584	181.85	8,492	19,851
181.34	7,928	15,664	181.86	8,503	19,936
181.35	7,939	15,743	181.87	8,514	20,021
181.36	7,950	15,822	181.88	8,525	20,106
181.37	7,961	15,902	181.89	8,536	20,191
181.38	7,972	15,982	181.90	8,547	20,277
181.39	7,983	16,061	181.91	8,558	20,362
181.40	7,994	16,141	181.92	8,570	20,448
181.41	8,005	16,221	181.93	8,581	20,534
181.42	8,017	16,301	181.94	8,592	20,620
181.43	8,028	16,382	181.95	8,603	20,705
181.44	8,039	16,462	181.96	8,614	20,792
181.45	8,050	16,542	181.97	8,625	20,878
181.46	8,061	16,623	181.98	8,636	20,964
181.47	8,072	16,704	181.99	8,647	21,050
181.48	8,083	16,784	182.00	8,658	21,137
181.49	8,094	16,865	182.01	8,670	21,224
181.50	8,105	16,946	182.02	8,681	21,310
181.51	8,116	17,027	182.03	8,693	21,397
181.52	8,127	17,109	182.04	8,705	21,484
181.53	8,138	17,190	182.05	8,716	21,571
181.54	8,149	17,271	182.06	8,728	21,659
181.55	8,160	17,353	182.07	8,739	21,746
181.56	8,171	17,435	182.08	8,751	21,833
181.57	8,182	17,516	182.09	8,763	21,921
181.58	8,193	17,598	182.10	8,774	22,009
181.59	8,205	17,680	182.11	8,786	22,096

Stage-Area-Storage for Pond B-17A: Basin #17A (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
182.12	8,798	22,184	182.64	9,402	26,916
182.13	8,809	22,272	182.65	9,414	27,010
182.14	8,821	22,361	182.66	9,426	27,105
182.15	8,832	22,449	182.67	9,437	27,199
182.16	8,844	22,537	182.68	9,449	27,293
182.17	8,856	22,626	182.69	9,460	27,388
182.18	8,867	22,714	182.70	9,472	27,483
182.19	8,879	22,803	182.71	9,484	27,577
182.20	8,891	22,892	182.72	9,495	27,672
182.21	8,902	22,981	182.73	9,507	27,767
182.22	8,914	23,070	182.74	9,519	27,862
182.23	8,925	23,159	182.75	9,530	27,958
182.24	8,937	23,248	182.76	9,542	28,053
182.25	8,949	23,338	182.77	9,554	28,148
182.26	8,960	23,427	182.78	9,565	28,244
182.27	8,972	23,517	182.79	9,577	28,340
182.28	8,984	23,607	182.80	9,588	28,436
182.29	8,995	23,697	182.81	9,600	28,532
182.30	9,007	23,787	182.82	9,612	28,628
182.31	9,019	23,877	182.83	9,623	28,724
182.32	9,030	23,967	182.84	9,635	28,820
182.33	9,042	24,057	182.85	9,647	28,916
182.34	9,053	24,148	182.86	9,658	29,013
182.35	9,065	24,239	182.87	9,670	29,110
182.36	9,077	24,329	182.88	9,681	29,206
182.37	9,088	24,420	182.89	9,693	29,303
182.38	9,100	24,511	182.90	9,705	29,400
182.39	9,112	24,602	182.91	9,716	29,497
182.40	9,123	24,693	182.92	9,728	29,595
182.41	9,135	24,785	182.93	9,740	29,692
182.42	9,146	24,876	182.94	9,751	29,789
182.43	9,158	24,967	182.95	9,763	29,887
182.44	9,170	25,059	182.96	9,774	29,985
182.45	9,181	25,151	182.97	9,786	30,082
182.46	9,193	25,243	182.98	9,798	30,180
182.47	9,205	25,335	182.99	9,809	30,278
182.48	9,216	25,427	183.00	9,821	30,377
182.49	9,228	25,519			
182.50	9,240	25,611			
182.51	9,251	25,704			
182.52	9,263	25,796			
182.53	9,274	25,889			
182.54	9,286	25,982			
182.55	9,298	26,075			
182.56	9,309	26,168			
182.57	9,321	26,261			
182.58	9,333	26,354			
182.59	9,344	26,448			
182.60	9,356	26,541			
182.61	9,367	26,635			
182.62	9,379	26,728			
182.63	9,391	26,822			

Summary for Pond B-17B: Basin #17B

Inflow Area = 1.385 ac, 37.11% Impervious, Inflow Depth = 4.01" for Future 10 yr event
 Inflow = 5.69 cfs @ 12.17 hrs, Volume= 0.462 af
 Outflow = 2.63 cfs @ 12.36 hrs, Volume= 0.391 af, Atten= 54%, Lag= 11.3 min
 Primary = 2.63 cfs @ 12.36 hrs, Volume= 0.391 af
 Routed to Link PDA-1 : Proposed Drainage Area #1

Routing by Stor-Ind method, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 Peak Elev= 180.19' @ 12.36 hrs Surf.Area= 8,274 sf Storage= 9,032 cf

Plug-Flow detention time= 328.9 min calculated for 0.390 af (84% of inflow)
 Center-of-Mass det. time= 259.5 min (1,051.2 - 791.7)

Volume	Invert	Avail.Storage	Storage Description
#1	179.00'	37,242 cf	Custom Stage Data (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
179.00	6,855	0	0
180.00	8,033	7,444	7,444
181.00	9,268	8,651	16,095
182.00	10,560	9,914	26,009
183.00	11,907	11,234	37,242

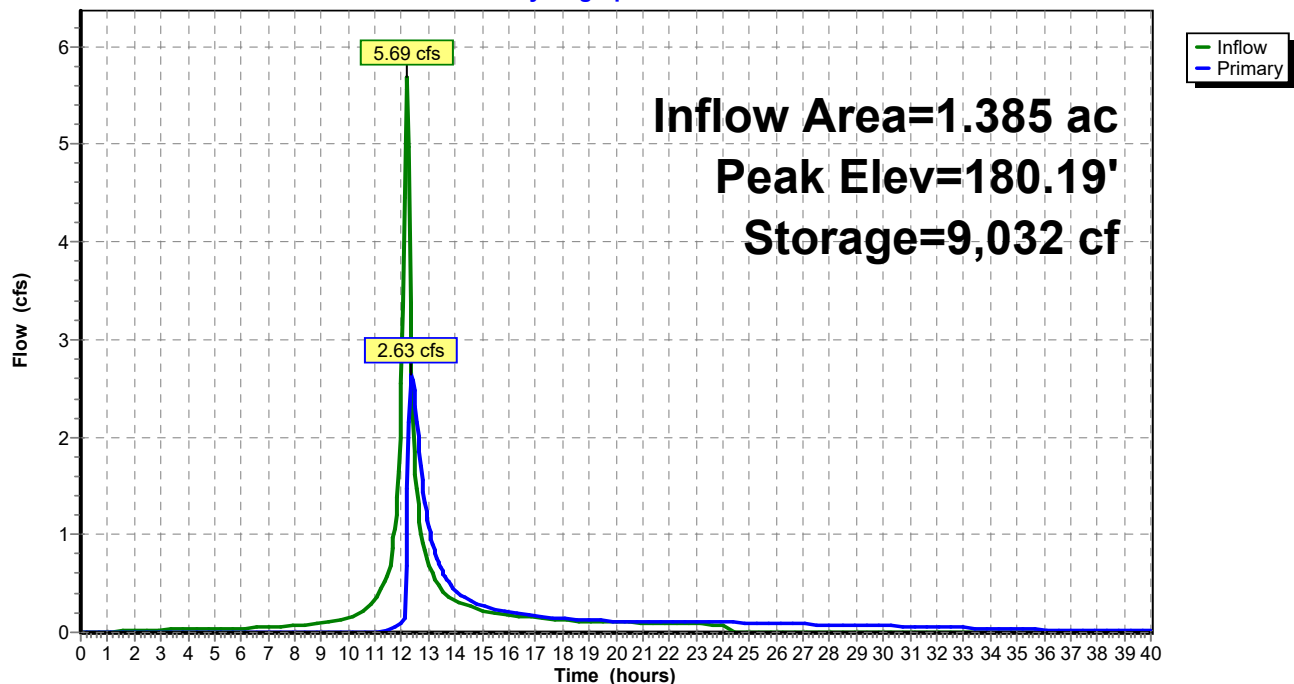
Device	Routing	Invert	Outlet Devices
#1	Primary	177.65'	18.0" Round Culvert L= 40.0' Ke= 0.500 Inlet / Outlet Invert= 177.65' / 177.00' S= 0.0163 '/' Cc= 0.900 n= 0.013, Flow Area= 1.77 sf
#2	Device 1	179.35'	2.5" Vert. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#3	Device 1	179.86'	4.0' long Sharp-Crested Rectangular Weir 2 End Contraction(s)
#4	Primary	181.95'	50.0' long + 3.0 '/' SideZ x 5.0' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 Coef. (English) 2.34 2.50 2.70 2.68 2.68 2.66 2.65 2.65 2.65 2.65 2.67 2.66 2.68 2.70 2.74 2.79 2.88

Primary OutFlow Max=2.62 cfs @ 12.36 hrs HW=180.19' (Free Discharge)

1=Culvert (Passes 2.62 cfs of 11.40 cfs potential flow)
 2=Orifice/Grate (Orifice Controls 0.14 cfs @ 4.14 fps)
 3=Sharp-Crested Rectangular Weir (Weir Controls 2.48 cfs @ 1.89 fps)
 4=Broad-Crested Rectangular Weir (Controls 0.00 cfs)

Pond B-17B: Basin #17B

Hydrograph



Stage-Discharge for Pond B-17B: Basin #17B

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
179.00	0.00	179.52	0.04	180.04	1.12	180.56	7.56
179.01	0.00	179.53	0.05	180.05	1.20	180.57	7.72
179.02	0.00	179.54	0.05	180.06	1.29	180.58	7.88
179.03	0.00	179.55	0.05	180.07	1.37	180.59	8.04
179.04	0.00	179.56	0.05	180.08	1.46	180.60	8.19
179.05	0.00	179.57	0.06	180.09	1.56	180.61	8.35
179.06	0.00	179.58	0.06	180.10	1.65	180.62	8.51
179.07	0.00	179.59	0.06	180.11	1.75	180.63	8.68
179.08	0.00	179.60	0.06	180.12	1.85	180.64	8.84
179.09	0.00	179.61	0.06	180.13	1.95	180.65	9.00
179.10	0.00	179.62	0.07	180.14	2.05	180.66	9.17
179.11	0.00	179.63	0.07	180.15	2.15	180.67	9.33
179.12	0.00	179.64	0.07	180.16	2.25	180.68	9.50
179.13	0.00	179.65	0.07	180.17	2.36	180.69	9.66
179.14	0.00	179.66	0.07	180.18	2.47	180.70	9.83
179.15	0.00	179.67	0.08	180.19	2.58	180.71	10.00
179.16	0.00	179.68	0.08	180.20	2.69	180.72	10.17
179.17	0.00	179.69	0.08	180.21	2.80	180.73	10.34
179.18	0.00	179.70	0.08	180.22	2.92	180.74	10.51
179.19	0.00	179.71	0.08	180.23	3.03	180.75	10.68
179.20	0.00	179.72	0.08	180.24	3.15	180.76	10.85
179.21	0.00	179.73	0.09	180.25	3.27	180.77	11.03
179.22	0.00	179.74	0.09	180.26	3.39	180.78	11.20
179.23	0.00	179.75	0.09	180.27	3.51	180.79	11.38
179.24	0.00	179.76	0.09	180.28	3.63	180.80	11.55
179.25	0.00	179.77	0.09	180.29	3.76	180.81	11.73
179.26	0.00	179.78	0.09	180.30	3.88	180.82	11.90
179.27	0.00	179.79	0.10	180.31	4.01	180.83	12.08
179.28	0.00	179.80	0.10	180.32	4.14	180.84	12.26
179.29	0.00	179.81	0.10	180.33	4.27	180.85	12.44
179.30	0.00	179.82	0.10	180.34	4.40	180.86	12.62
179.31	0.00	179.83	0.10	180.35	4.53	180.87	12.80
179.32	0.00	179.84	0.10	180.36	4.67	180.88	12.98
179.33	0.00	179.85	0.10	180.37	4.80	180.89	13.17
179.34	0.00	179.86	0.10	180.38	4.94	180.90	13.35
179.35	0.00	179.87	0.12	180.39	5.07	180.91	13.48
179.36	0.00	179.88	0.14	180.40	5.21	180.92	13.51
179.37	0.00	179.89	0.18	180.41	5.35	180.93	13.53
179.38	0.00	179.90	0.21	180.42	5.49	180.94	13.56
179.39	0.00	179.91	0.26	180.43	5.63	180.95	13.59
179.40	0.00	179.92	0.30	180.44	5.77	180.96	13.61
179.41	0.01	179.93	0.35	180.45	5.92	180.97	13.64
179.42	0.01	179.94	0.41	180.46	6.06	180.98	13.67
179.43	0.01	179.95	0.47	180.47	6.21	180.99	13.69
179.44	0.01	179.96	0.53	180.48	6.35	181.00	13.72
179.45	0.02	179.97	0.59	180.49	6.50	181.01	13.75
179.46	0.02	179.98	0.66	180.50	6.65	181.02	13.77
179.47	0.02	179.99	0.73	180.51	6.80	181.03	13.80
179.48	0.03	180.00	0.80	180.52	6.95	181.04	13.83
179.49	0.03	180.01	0.88	180.53	7.10	181.05	13.85
179.50	0.03	180.02	0.95	180.54	7.26	181.06	13.88
179.51	0.04	180.03	1.03	180.55	7.41	181.07	13.90

Stage-Discharge for Pond B-17B: Basin #17B (continued)

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
181.08	13.93	181.60	15.22	182.12	24.68	182.64	97.19
181.09	13.96	181.61	15.24	182.13	25.45	182.65	98.96
181.10	13.98	181.62	15.27	182.14	26.23	182.66	100.74
181.11	14.01	181.63	15.29	182.15	27.04	182.67	102.53
181.12	14.03	181.64	15.32	182.16	27.91	182.68	104.34
181.13	14.06	181.65	15.34	182.17	28.81	182.69	106.15
181.14	14.08	181.66	15.36	182.18	29.72	182.70	107.98
181.15	14.11	181.67	15.39	182.19	30.67	182.71	109.82
181.16	14.14	181.68	15.41	182.20	31.64	182.72	111.68
181.17	14.16	181.69	15.43	182.21	32.64	182.73	113.54
181.18	14.19	181.70	15.46	182.22	33.66	182.74	115.42
181.19	14.21	181.71	15.48	182.23	34.70	182.75	117.31
181.20	14.24	181.72	15.50	182.24	35.77	182.76	119.25
181.21	14.26	181.73	15.53	182.25	36.86	182.77	121.20
181.22	14.29	181.74	15.55	182.26	37.98	182.78	123.17
181.23	14.31	181.75	15.57	182.27	39.13	182.79	125.15
181.24	14.34	181.76	15.60	182.28	40.29	182.80	127.14
181.25	14.36	181.77	15.62	182.29	41.48	182.81	129.15
181.26	14.39	181.78	15.64	182.30	42.70	182.82	131.17
181.27	14.41	181.79	15.67	182.31	43.94	182.83	133.20
181.28	14.44	181.80	15.69	182.32	45.20	182.84	135.25
181.29	14.46	181.81	15.71	182.33	46.49	182.85	137.30
181.30	14.49	181.82	15.74	182.34	47.80	182.86	139.37
181.31	14.51	181.83	15.76	182.35	49.14	182.87	141.46
181.32	14.54	181.84	15.78	182.36	50.53	182.88	143.55
181.33	14.56	181.85	15.80	182.37	51.94	182.89	145.66
181.34	14.59	181.86	15.83	182.38	53.38	182.90	147.78
181.35	14.61	181.87	15.85	182.39	54.85	182.91	149.92
181.36	14.64	181.88	15.87	182.40	56.34	182.92	152.07
181.37	14.66	181.89	15.90	182.41	57.85	182.93	154.23
181.38	14.69	181.90	15.92	182.42	59.40	182.94	156.40
181.39	14.71	181.91	15.94	182.43	60.97	182.95	158.58
181.40	14.74	181.92	15.96	182.44	62.57	182.96	160.73
181.41	14.76	181.93	15.99	182.45	64.19	182.97	162.88
181.42	14.79	181.94	16.01	182.46	65.84	182.98	165.05
181.43	14.81	181.95	16.03	182.47	67.51	182.99	167.22
181.44	14.84	181.96	16.17	182.48	69.22	183.00	169.41
181.45	14.86	181.97	16.41	182.49	70.95		
181.46	14.88	181.98	16.71	182.50	72.70		
181.47	14.91	181.99	17.06	182.51	74.48		
181.48	14.93	182.00	17.46	182.52	76.29		
181.49	14.96	182.01	17.89	182.53	78.13		
181.50	14.98	182.02	18.36	182.54	79.99		
181.51	15.01	182.03	18.87	182.55	81.88		
181.52	15.03	182.04	19.41	182.56	83.53		
181.53	15.05	182.05	19.97	182.57	85.19		
181.54	15.08	182.06	20.57	182.58	86.87		
181.55	15.10	182.07	21.19	182.59	88.55		
181.56	15.13	182.08	21.84	182.60	90.26		
181.57	15.15	182.09	22.51	182.61	91.97		
181.58	15.17	182.10	23.21	182.62	93.70		
181.59	15.20	182.11	23.93	182.63	95.44		

Stage-Area-Storage for Pond B-17B: Basin #17B

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
179.00	6,855	0	179.52	7,468	3,724
179.01	6,867	69	179.53	7,479	3,799
179.02	6,879	137	179.54	7,491	3,873
179.03	6,890	206	179.55	7,503	3,948
179.04	6,902	275	179.56	7,515	4,024
179.05	6,914	344	179.57	7,526	4,099
179.06	6,926	413	179.58	7,538	4,174
179.07	6,937	483	179.59	7,550	4,249
179.08	6,949	552	179.60	7,562	4,325
179.09	6,961	622	179.61	7,574	4,401
179.10	6,973	691	179.62	7,585	4,477
179.11	6,985	761	179.63	7,597	4,552
179.12	6,996	831	179.64	7,609	4,628
179.13	7,008	901	179.65	7,621	4,705
179.14	7,020	971	179.66	7,632	4,781
179.15	7,032	1,042	179.67	7,644	4,857
179.16	7,043	1,112	179.68	7,656	4,934
179.17	7,055	1,182	179.69	7,668	5,010
179.18	7,067	1,253	179.70	7,680	5,087
179.19	7,079	1,324	179.71	7,691	5,164
179.20	7,091	1,395	179.72	7,703	5,241
179.21	7,102	1,466	179.73	7,715	5,318
179.22	7,114	1,537	179.74	7,727	5,395
179.23	7,126	1,608	179.75	7,739	5,473
179.24	7,138	1,679	179.76	7,750	5,550
179.25	7,150	1,751	179.77	7,762	5,628
179.26	7,161	1,822	179.78	7,774	5,705
179.27	7,173	1,894	179.79	7,786	5,783
179.28	7,185	1,966	179.80	7,797	5,861
179.29	7,197	2,037	179.81	7,809	5,939
179.30	7,208	2,110	179.82	7,821	6,017
179.31	7,220	2,182	179.83	7,833	6,095
179.32	7,232	2,254	179.84	7,845	6,174
179.33	7,244	2,326	179.85	7,856	6,252
179.34	7,256	2,399	179.86	7,868	6,331
179.35	7,267	2,471	179.87	7,880	6,410
179.36	7,279	2,544	179.88	7,892	6,489
179.37	7,291	2,617	179.89	7,903	6,567
179.38	7,303	2,690	179.90	7,915	6,647
179.39	7,314	2,763	179.91	7,927	6,726
179.40	7,326	2,836	179.92	7,939	6,805
179.41	7,338	2,910	179.93	7,951	6,885
179.42	7,350	2,983	179.94	7,962	6,964
179.43	7,362	3,057	179.95	7,974	7,044
179.44	7,373	3,130	179.96	7,986	7,124
179.45	7,385	3,204	179.97	7,998	7,204
179.46	7,397	3,278	179.98	8,009	7,284
179.47	7,409	3,352	179.99	8,021	7,364
179.48	7,420	3,426	180.00	8,033	7,444
179.49	7,432	3,500	180.01	8,045	7,524
179.50	7,444	3,575	180.02	8,058	7,605
179.51	7,456	3,649	180.03	8,070	7,686

Stage-Area-Storage for Pond B-17B: Basin #17B (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
180.04	8,082	7,766	180.56	8,725	12,136
180.05	8,095	7,847	180.57	8,737	12,223
180.06	8,107	7,928	180.58	8,749	12,311
180.07	8,119	8,009	180.59	8,762	12,398
180.08	8,132	8,091	180.60	8,774	12,486
180.09	8,144	8,172	180.61	8,786	12,574
180.10	8,156	8,253	180.62	8,799	12,662
180.11	8,169	8,335	180.63	8,811	12,750
180.12	8,181	8,417	180.64	8,823	12,838
180.13	8,194	8,499	180.65	8,836	12,926
180.14	8,206	8,581	180.66	8,848	13,015
180.15	8,218	8,663	180.67	8,860	13,103
180.16	8,231	8,745	180.68	8,873	13,192
180.17	8,243	8,827	180.69	8,885	13,281
180.18	8,255	8,910	180.70	8,897	13,370
180.19	8,268	8,993	180.71	8,910	13,459
180.20	8,280	9,075	180.72	8,922	13,548
180.21	8,292	9,158	180.73	8,935	13,637
180.22	8,305	9,241	180.74	8,947	13,727
180.23	8,317	9,324	180.75	8,959	13,816
180.24	8,329	9,407	180.76	8,972	13,906
180.25	8,342	9,491	180.77	8,984	13,996
180.26	8,354	9,574	180.78	8,996	14,085
180.27	8,366	9,658	180.79	9,009	14,175
180.28	8,379	9,742	180.80	9,021	14,266
180.29	8,391	9,826	180.81	9,033	14,356
180.30	8,404	9,909	180.82	9,046	14,446
180.31	8,416	9,994	180.83	9,058	14,537
180.32	8,428	10,078	180.84	9,070	14,627
180.33	8,441	10,162	180.85	9,083	14,718
180.34	8,453	10,247	180.86	9,095	14,809
180.35	8,465	10,331	180.87	9,107	14,900
180.36	8,478	10,416	180.88	9,120	14,991
180.37	8,490	10,501	180.89	9,132	15,082
180.38	8,502	10,586	180.90	9,145	15,174
180.39	8,515	10,671	180.91	9,157	15,265
180.40	8,527	10,756	180.92	9,169	15,357
180.41	8,539	10,841	180.93	9,182	15,449
180.42	8,552	10,927	180.94	9,194	15,541
180.43	8,564	11,012	180.95	9,206	15,633
180.44	8,576	11,098	180.96	9,219	15,725
180.45	8,589	11,184	180.97	9,231	15,817
180.46	8,601	11,270	180.98	9,243	15,909
180.47	8,613	11,356	180.99	9,256	16,002
180.48	8,626	11,442	181.00	9,268	16,095
180.49	8,638	11,528	181.01	9,281	16,187
180.50	8,651	11,615	181.02	9,294	16,280
180.51	8,663	11,701	181.03	9,307	16,373
180.52	8,675	11,788	181.04	9,320	16,466
180.53	8,688	11,875	181.05	9,333	16,560
180.54	8,700	11,962	181.06	9,346	16,653
180.55	8,712	12,049	181.07	9,358	16,746

Stage-Area-Storage for Pond B-17B: Basin #17B (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
181.08	9,371	16,840	181.60	10,043	21,888
181.09	9,384	16,934	181.61	10,056	21,988
181.10	9,397	17,028	181.62	10,069	22,089
181.11	9,410	17,122	181.63	10,082	22,190
181.12	9,423	17,216	181.64	10,095	22,291
181.13	9,436	17,310	181.65	10,108	22,392
181.14	9,449	17,405	181.66	10,121	22,493
181.15	9,462	17,499	181.67	10,134	22,594
181.16	9,475	17,594	181.68	10,147	22,695
181.17	9,488	17,689	181.69	10,159	22,797
181.18	9,501	17,784	181.70	10,172	22,899
181.19	9,513	17,879	181.71	10,185	23,000
181.20	9,526	17,974	181.72	10,198	23,102
181.21	9,539	18,069	181.73	10,211	23,204
181.22	9,552	18,165	181.74	10,224	23,307
181.23	9,565	18,260	181.75	10,237	23,409
181.24	9,578	18,356	181.76	10,250	23,511
181.25	9,591	18,452	181.77	10,263	23,614
181.26	9,604	18,548	181.78	10,276	23,717
181.27	9,617	18,644	181.79	10,289	23,819
181.28	9,630	18,740	181.80	10,302	23,922
181.29	9,643	18,837	181.81	10,315	24,025
181.30	9,656	18,933	181.82	10,327	24,129
181.31	9,669	19,030	181.83	10,340	24,232
181.32	9,681	19,126	181.84	10,353	24,335
181.33	9,694	19,223	181.85	10,366	24,439
181.34	9,707	19,320	181.86	10,379	24,543
181.35	9,720	19,417	181.87	10,392	24,647
181.36	9,733	19,515	181.88	10,405	24,751
181.37	9,746	19,612	181.89	10,418	24,855
181.38	9,759	19,710	181.90	10,431	24,959
181.39	9,772	19,807	181.91	10,444	25,063
181.40	9,785	19,905	181.92	10,457	25,168
181.41	9,798	20,003	181.93	10,470	25,272
181.42	9,811	20,101	181.94	10,482	25,377
181.43	9,824	20,199	181.95	10,495	25,482
181.44	9,836	20,297	181.96	10,508	25,587
181.45	9,849	20,396	181.97	10,521	25,692
181.46	9,862	20,494	181.98	10,534	25,798
181.47	9,875	20,593	181.99	10,547	25,903
181.48	9,888	20,692	182.00	10,560	26,009
181.49	9,901	20,791	182.01	10,573	26,114
181.50	9,914	20,890	182.02	10,587	26,220
181.51	9,927	20,989	182.03	10,600	26,326
181.52	9,940	21,089	182.04	10,614	26,432
181.53	9,953	21,188	182.05	10,627	26,538
181.54	9,966	21,288	182.06	10,641	26,645
181.55	9,979	21,387	182.07	10,654	26,751
181.56	9,992	21,487	182.08	10,668	26,858
181.57	10,004	21,587	182.09	10,681	26,964
181.58	10,017	21,687	182.10	10,695	27,071
181.59	10,030	21,787	182.11	10,708	27,178

Stage-Area-Storage for Pond B-17B: Basin #17B (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
182.12	10,722	27,285	182.64	11,422	33,043
182.13	10,735	27,393	182.65	11,436	33,157
182.14	10,749	27,500	182.66	11,449	33,271
182.15	10,762	27,608	182.67	11,462	33,386
182.16	10,776	27,715	182.68	11,476	33,501
182.17	10,789	27,823	182.69	11,489	33,616
182.18	10,802	27,931	182.70	11,503	33,731
182.19	10,816	28,039	182.71	11,516	33,846
182.20	10,829	28,147	182.72	11,530	33,961
182.21	10,843	28,256	182.73	11,543	34,076
182.22	10,856	28,364	182.74	11,557	34,192
182.23	10,870	28,473	182.75	11,570	34,307
182.24	10,883	28,582	182.76	11,584	34,423
182.25	10,897	28,691	182.77	11,597	34,539
182.26	10,910	28,800	182.78	11,611	34,655
182.27	10,924	28,909	182.79	11,624	34,771
182.28	10,937	29,018	182.80	11,638	34,888
182.29	10,951	29,128	182.81	11,651	35,004
182.30	10,964	29,237	182.82	11,665	35,121
182.31	10,978	29,347	182.83	11,678	35,237
182.32	10,991	29,457	182.84	11,691	35,354
182.33	11,005	29,567	182.85	11,705	35,471
182.34	11,018	29,677	182.86	11,718	35,588
182.35	11,031	29,787	182.87	11,732	35,705
182.36	11,045	29,897	182.88	11,745	35,823
182.37	11,058	30,008	182.89	11,759	35,940
182.38	11,072	30,119	182.90	11,772	36,058
182.39	11,085	30,229	182.91	11,786	36,176
182.40	11,099	30,340	182.92	11,799	36,294
182.41	11,112	30,451	182.93	11,813	36,412
182.42	11,126	30,563	182.94	11,826	36,530
182.43	11,139	30,674	182.95	11,840	36,648
182.44	11,153	30,785	182.96	11,853	36,767
182.45	11,166	30,897	182.97	11,867	36,885
182.46	11,180	31,009	182.98	11,880	37,004
182.47	11,193	31,120	182.99	11,894	37,123
182.48	11,207	31,232	183.00	11,907	37,242
182.49	11,220	31,345			
182.50	11,234	31,457			
182.51	11,247	31,569			
182.52	11,260	31,682			
182.53	11,274	31,794			
182.54	11,287	31,907			
182.55	11,301	32,020			
182.56	11,314	32,133			
182.57	11,328	32,247			
182.58	11,341	32,360			
182.59	11,355	32,473			
182.60	11,368	32,587			
182.61	11,382	32,701			
182.62	11,395	32,815			
182.63	11,409	32,929			

Summary for Pond B-2: Basin #2

Inflow Area = 1.894 ac, 38.23% Impervious, Inflow Depth = 4.04" for Future 10 yr event
 Inflow = 7.82 cfs @ 12.17 hrs, Volume= 0.637 af
 Outflow = 0.17 cfs @ 17.84 hrs, Volume= 0.079 af, Atten= 98%, Lag= 340.1 min
 Primary = 0.17 cfs @ 17.84 hrs, Volume= 0.079 af
 Routed to Pond B-1 : Basin #1

Routing by Stor-Ind method, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 Peak Elev= 211.51' @ 17.84 hrs Surf.Area= 9,894 sf Storage= 24,427 cf

Plug-Flow detention time= 740.4 min calculated for 0.079 af (12% of inflow)
 Center-of-Mass det. time= 443.3 min (1,234.0 - 790.7)

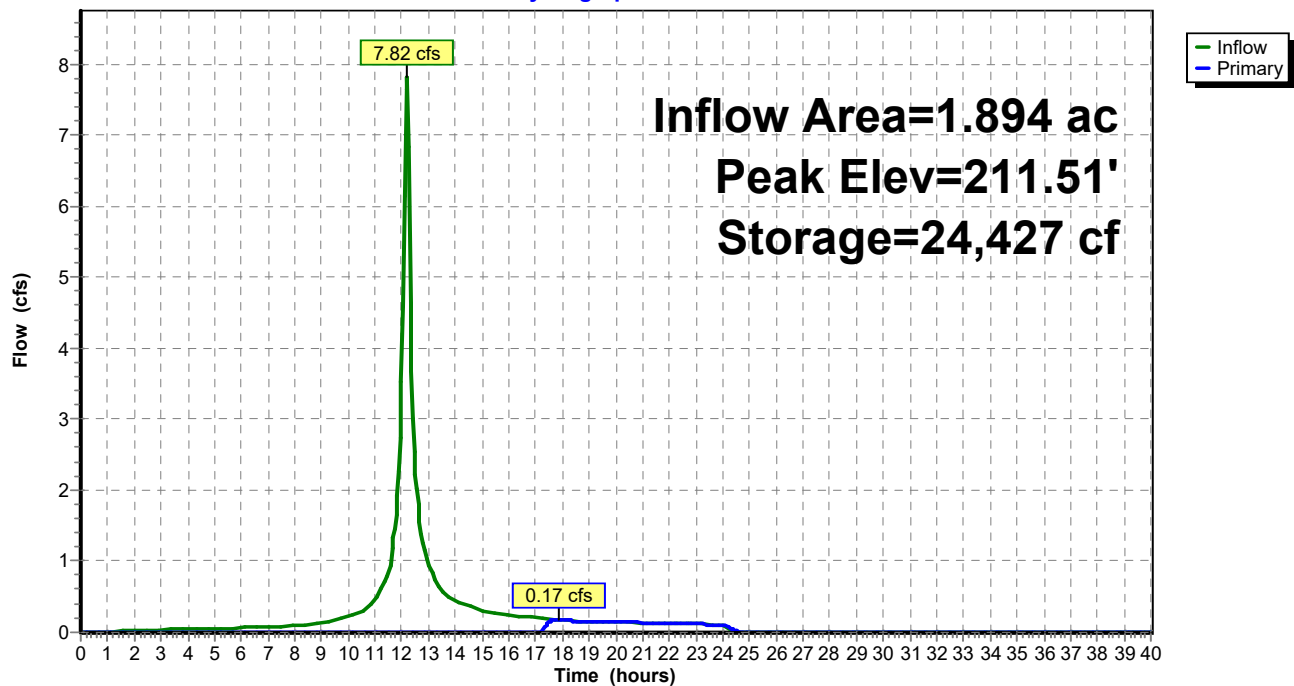
Volume	Invert	Avail.Storage	Storage Description
#1	208.30'	29,385 cf	Custom Stage Data (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
208.30	0	0	0
209.00	7,501	2,625	2,625
210.00	8,431	7,966	10,591
211.00	9,390	8,911	19,502
212.00	10,376	9,883	29,385

Device	Routing	Invert	Outlet Devices
#1	Primary	211.50'	50.0' long + 3.0 ' SideZ x 5.0' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 Coef. (English) 2.34 2.50 2.70 2.68 2.68 2.66 2.65 2.65 2.65 2.65 2.67 2.66 2.68 2.70 2.74 2.79 2.88

Primary OutFlow Max=0.13 cfs @ 17.84 hrs HW=211.51' (Free Discharge)

↑ **1=Broad-Crested Rectangular Weir** (Weir Controls 0.13 cfs @ 0.24 fps)

Pond B-2: Basin #2**Hydrograph**

Stage-Discharge for Pond B-2: Basin #2

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
208.30	0.00	208.82	0.00	209.34	0.00	209.86	0.00
208.31	0.00	208.83	0.00	209.35	0.00	209.87	0.00
208.32	0.00	208.84	0.00	209.36	0.00	209.88	0.00
208.33	0.00	208.85	0.00	209.37	0.00	209.89	0.00
208.34	0.00	208.86	0.00	209.38	0.00	209.90	0.00
208.35	0.00	208.87	0.00	209.39	0.00	209.91	0.00
208.36	0.00	208.88	0.00	209.40	0.00	209.92	0.00
208.37	0.00	208.89	0.00	209.41	0.00	209.93	0.00
208.38	0.00	208.90	0.00	209.42	0.00	209.94	0.00
208.39	0.00	208.91	0.00	209.43	0.00	209.95	0.00
208.40	0.00	208.92	0.00	209.44	0.00	209.96	0.00
208.41	0.00	208.93	0.00	209.45	0.00	209.97	0.00
208.42	0.00	208.94	0.00	209.46	0.00	209.98	0.00
208.43	0.00	208.95	0.00	209.47	0.00	209.99	0.00
208.44	0.00	208.96	0.00	209.48	0.00	210.00	0.00
208.45	0.00	208.97	0.00	209.49	0.00	210.01	0.00
208.46	0.00	208.98	0.00	209.50	0.00	210.02	0.00
208.47	0.00	208.99	0.00	209.51	0.00	210.03	0.00
208.48	0.00	209.00	0.00	209.52	0.00	210.04	0.00
208.49	0.00	209.01	0.00	209.53	0.00	210.05	0.00
208.50	0.00	209.02	0.00	209.54	0.00	210.06	0.00
208.51	0.00	209.03	0.00	209.55	0.00	210.07	0.00
208.52	0.00	209.04	0.00	209.56	0.00	210.08	0.00
208.53	0.00	209.05	0.00	209.57	0.00	210.09	0.00
208.54	0.00	209.06	0.00	209.58	0.00	210.10	0.00
208.55	0.00	209.07	0.00	209.59	0.00	210.11	0.00
208.56	0.00	209.08	0.00	209.60	0.00	210.12	0.00
208.57	0.00	209.09	0.00	209.61	0.00	210.13	0.00
208.58	0.00	209.10	0.00	209.62	0.00	210.14	0.00
208.59	0.00	209.11	0.00	209.63	0.00	210.15	0.00
208.60	0.00	209.12	0.00	209.64	0.00	210.16	0.00
208.61	0.00	209.13	0.00	209.65	0.00	210.17	0.00
208.62	0.00	209.14	0.00	209.66	0.00	210.18	0.00
208.63	0.00	209.15	0.00	209.67	0.00	210.19	0.00
208.64	0.00	209.16	0.00	209.68	0.00	210.20	0.00
208.65	0.00	209.17	0.00	209.69	0.00	210.21	0.00
208.66	0.00	209.18	0.00	209.70	0.00	210.22	0.00
208.67	0.00	209.19	0.00	209.71	0.00	210.23	0.00
208.68	0.00	209.20	0.00	209.72	0.00	210.24	0.00
208.69	0.00	209.21	0.00	209.73	0.00	210.25	0.00
208.70	0.00	209.22	0.00	209.74	0.00	210.26	0.00
208.71	0.00	209.23	0.00	209.75	0.00	210.27	0.00
208.72	0.00	209.24	0.00	209.76	0.00	210.28	0.00
208.73	0.00	209.25	0.00	209.77	0.00	210.29	0.00
208.74	0.00	209.26	0.00	209.78	0.00	210.30	0.00
208.75	0.00	209.27	0.00	209.79	0.00	210.31	0.00
208.76	0.00	209.28	0.00	209.80	0.00	210.32	0.00
208.77	0.00	209.29	0.00	209.81	0.00	210.33	0.00
208.78	0.00	209.30	0.00	209.82	0.00	210.34	0.00
208.79	0.00	209.31	0.00	209.83	0.00	210.35	0.00
208.80	0.00	209.32	0.00	209.84	0.00	210.36	0.00
208.81	0.00	209.33	0.00	209.85	0.00	210.37	0.00

Stage-Discharge for Pond B-2: Basin #2 (continued)

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
210.38	0.00	210.90	0.00	211.42	0.00	211.94	37.85
210.39	0.00	210.91	0.00	211.43	0.00	211.95	39.32
210.40	0.00	210.92	0.00	211.44	0.00	211.96	40.82
210.41	0.00	210.93	0.00	211.45	0.00	211.97	42.34
210.42	0.00	210.94	0.00	211.46	0.00	211.98	43.89
210.43	0.00	210.95	0.00	211.47	0.00	211.99	45.46
210.44	0.00	210.96	0.00	211.48	0.00	212.00	47.07
210.45	0.00	210.97	0.00	211.49	0.00		
210.46	0.00	210.98	0.00	211.50	0.00		
210.47	0.00	210.99	0.00	211.51	0.12		
210.48	0.00	211.00	0.00	211.52	0.33		
210.49	0.00	211.01	0.00	211.53	0.61		
210.50	0.00	211.02	0.00	211.54	0.94		
210.51	0.00	211.03	0.00	211.55	1.31		
210.52	0.00	211.04	0.00	211.56	1.72		
210.53	0.00	211.05	0.00	211.57	2.17		
210.54	0.00	211.06	0.00	211.58	2.66		
210.55	0.00	211.07	0.00	211.59	3.17		
210.56	0.00	211.08	0.00	211.60	3.72		
210.57	0.00	211.09	0.00	211.61	4.29		
210.58	0.00	211.10	0.00	211.62	4.89		
210.59	0.00	211.11	0.00	211.63	5.52		
210.60	0.00	211.12	0.00	211.64	6.17		
210.61	0.00	211.13	0.00	211.65	6.85		
210.62	0.00	211.14	0.00	211.66	7.55		
210.63	0.00	211.15	0.00	211.67	8.27		
210.64	0.00	211.16	0.00	211.68	9.01		
210.65	0.00	211.17	0.00	211.69	9.78		
210.66	0.00	211.18	0.00	211.70	10.57		
210.67	0.00	211.19	0.00	211.71	11.41		
210.68	0.00	211.20	0.00	211.72	12.28		
210.69	0.00	211.21	0.00	211.73	13.18		
210.70	0.00	211.22	0.00	211.74	14.11		
210.71	0.00	211.23	0.00	211.75	15.05		
210.72	0.00	211.24	0.00	211.76	16.03		
210.73	0.00	211.25	0.00	211.77	17.03		
210.74	0.00	211.26	0.00	211.78	18.05		
210.75	0.00	211.27	0.00	211.79	19.10		
210.76	0.00	211.28	0.00	211.80	20.17		
210.77	0.00	211.29	0.00	211.81	21.27		
210.78	0.00	211.30	0.00	211.82	22.39		
210.79	0.00	211.31	0.00	211.83	23.53		
210.80	0.00	211.32	0.00	211.84	24.70		
210.81	0.00	211.33	0.00	211.85	25.90		
210.82	0.00	211.34	0.00	211.86	27.11		
210.83	0.00	211.35	0.00	211.87	28.36		
210.84	0.00	211.36	0.00	211.88	29.62		
210.85	0.00	211.37	0.00	211.89	30.92		
210.86	0.00	211.38	0.00	211.90	32.23		
210.87	0.00	211.39	0.00	211.91	33.60		
210.88	0.00	211.40	0.00	211.92	34.99		
210.89	0.00	211.41	0.00	211.93	36.41		

Stage-Area-Storage for Pond B-2: Basin #2

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
208.30	0	0	208.82	5,572	1,449
208.31	107	1	208.83	5,679	1,505
208.32	214	2	208.84	5,786	1,562
208.33	321	5	208.85	5,894	1,621
208.34	429	9	208.86	6,001	1,680
208.35	536	13	208.87	6,108	1,741
208.36	643	19	208.88	6,215	1,802
208.37	750	26	208.89	6,322	1,865
208.38	857	34	208.90	6,429	1,929
208.39	964	43	208.91	6,537	1,994
208.40	1,072	54	208.92	6,644	2,060
208.41	1,179	65	208.93	6,751	2,127
208.42	1,286	77	208.94	6,858	2,195
208.43	1,393	91	208.95	6,965	2,264
208.44	1,500	105	208.96	7,072	2,334
208.45	1,607	121	208.97	7,180	2,405
208.46	1,715	137	208.98	7,287	2,477
208.47	1,822	155	208.99	7,394	2,551
208.48	1,929	174	209.00	7,501	2,625
208.49	2,036	193	209.01	7,510	2,700
208.50	2,143	214	209.02	7,520	2,776
208.51	2,250	236	209.03	7,529	2,851
208.52	2,357	259	209.04	7,538	2,926
208.53	2,465	283	209.05	7,548	3,002
208.54	2,572	309	209.06	7,557	3,077
208.55	2,679	335	209.07	7,566	3,153
208.56	2,786	362	209.08	7,575	3,228
208.57	2,893	391	209.09	7,585	3,304
208.58	3,000	420	209.10	7,594	3,380
208.59	3,108	451	209.11	7,603	3,456
208.60	3,215	482	209.12	7,613	3,532
208.61	3,322	515	209.13	7,622	3,608
208.62	3,429	549	209.14	7,631	3,685
208.63	3,536	583	209.15	7,641	3,761
208.64	3,643	619	209.16	7,650	3,837
208.65	3,751	656	209.17	7,659	3,914
208.66	3,858	694	209.18	7,668	3,991
208.67	3,965	733	209.19	7,678	4,067
208.68	4,072	774	209.20	7,687	4,144
208.69	4,179	815	209.21	7,696	4,221
208.70	4,286	857	209.22	7,706	4,298
208.71	4,393	901	209.23	7,715	4,375
208.72	4,501	945	209.24	7,724	4,452
208.73	4,608	991	209.25	7,734	4,530
208.74	4,715	1,037	209.26	7,743	4,607
208.75	4,822	1,085	209.27	7,752	4,685
208.76	4,929	1,134	209.28	7,761	4,762
208.77	5,036	1,184	209.29	7,771	4,840
208.78	5,144	1,234	209.30	7,780	4,918
208.79	5,251	1,286	209.31	7,789	4,995
208.80	5,358	1,339	209.32	7,799	5,073
208.81	5,465	1,394	209.33	7,808	5,151

Stage-Area-Storage for Pond B-2: Basin #2 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
209.34	7,817	5,229	209.86	8,301	9,420
209.35	7,827	5,308	209.87	8,310	9,503
209.36	7,836	5,386	209.88	8,319	9,586
209.37	7,845	5,464	209.89	8,329	9,670
209.38	7,854	5,543	209.90	8,338	9,753
209.39	7,864	5,621	209.91	8,347	9,836
209.40	7,873	5,700	209.92	8,357	9,920
209.41	7,882	5,779	209.93	8,366	10,003
209.42	7,892	5,858	209.94	8,375	10,087
209.43	7,901	5,937	209.95	8,385	10,171
209.44	7,910	6,016	209.96	8,394	10,255
209.45	7,920	6,095	209.97	8,403	10,339
209.46	7,929	6,174	209.98	8,412	10,423
209.47	7,938	6,254	209.99	8,422	10,507
209.48	7,947	6,333	210.00	8,431	10,591
209.49	7,957	6,412	210.01	8,441	10,676
209.50	7,966	6,492	210.02	8,450	10,760
209.51	7,975	6,572	210.03	8,460	10,845
209.52	7,985	6,652	210.04	8,469	10,929
209.53	7,994	6,731	210.05	8,479	11,014
209.54	8,003	6,811	210.06	8,489	11,099
209.55	8,013	6,892	210.07	8,498	11,184
209.56	8,022	6,972	210.08	8,508	11,269
209.57	8,031	7,052	210.09	8,517	11,354
209.58	8,040	7,132	210.10	8,527	11,439
209.59	8,050	7,213	210.11	8,536	11,525
209.60	8,059	7,293	210.12	8,546	11,610
209.61	8,068	7,374	210.13	8,556	11,695
209.62	8,078	7,455	210.14	8,565	11,781
209.63	8,087	7,536	210.15	8,575	11,867
209.64	8,096	7,616	210.16	8,584	11,953
209.65	8,106	7,697	210.17	8,594	12,038
209.66	8,115	7,779	210.18	8,604	12,124
209.67	8,124	7,860	210.19	8,613	12,211
209.68	8,133	7,941	210.20	8,623	12,297
209.69	8,143	8,022	210.21	8,632	12,383
209.70	8,152	8,104	210.22	8,642	12,469
209.71	8,161	8,185	210.23	8,652	12,556
209.72	8,171	8,267	210.24	8,661	12,642
209.73	8,180	8,349	210.25	8,671	12,729
209.74	8,189	8,431	210.26	8,680	12,816
209.75	8,199	8,513	210.27	8,690	12,903
209.76	8,208	8,595	210.28	8,700	12,990
209.77	8,217	8,677	210.29	8,709	13,077
209.78	8,226	8,759	210.30	8,719	13,164
209.79	8,236	8,841	210.31	8,728	13,251
209.80	8,245	8,924	210.32	8,738	13,338
209.81	8,254	9,006	210.33	8,747	13,426
209.82	8,264	9,089	210.34	8,757	13,513
209.83	8,273	9,172	210.35	8,767	13,601
209.84	8,282	9,254	210.36	8,776	13,689
209.85	8,292	9,337	210.37	8,786	13,776

Stage-Area-Storage for Pond B-2: Basin #2 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
210.38	8,795	13,864	210.90	9,294	18,568
210.39	8,805	13,952	210.91	9,304	18,661
210.40	8,815	14,040	210.92	9,313	18,754
210.41	8,824	14,129	210.93	9,323	18,847
210.42	8,834	14,217	210.94	9,332	18,940
210.43	8,843	14,305	210.95	9,342	19,034
210.44	8,853	14,394	210.96	9,352	19,127
210.45	8,863	14,482	210.97	9,361	19,221
210.46	8,872	14,571	210.98	9,371	19,314
210.47	8,882	14,660	210.99	9,380	19,408
210.48	8,891	14,749	211.00	9,390	19,502
210.49	8,901	14,838	211.01	9,400	19,596
210.50	8,911	14,927	211.02	9,410	19,690
210.51	8,920	15,016	211.03	9,420	19,784
210.52	8,930	15,105	211.04	9,429	19,878
210.53	8,939	15,194	211.05	9,439	19,973
210.54	8,949	15,284	211.06	9,449	20,067
210.55	8,958	15,373	211.07	9,459	20,162
210.56	8,968	15,463	211.08	9,469	20,256
210.57	8,978	15,553	211.09	9,479	20,351
210.58	8,987	15,643	211.10	9,489	20,446
210.59	8,997	15,733	211.11	9,498	20,541
210.60	9,006	15,823	211.12	9,508	20,636
210.61	9,016	15,913	211.13	9,518	20,731
210.62	9,026	16,003	211.14	9,528	20,826
210.63	9,035	16,093	211.15	9,538	20,921
210.64	9,045	16,184	211.16	9,548	21,017
210.65	9,054	16,274	211.17	9,558	21,112
210.66	9,064	16,365	211.18	9,567	21,208
210.67	9,074	16,455	211.19	9,577	21,304
210.68	9,083	16,546	211.20	9,587	21,400
210.69	9,093	16,637	211.21	9,597	21,495
210.70	9,102	16,728	211.22	9,607	21,592
210.71	9,112	16,819	211.23	9,617	21,688
210.72	9,121	16,910	211.24	9,627	21,784
210.73	9,131	17,002	211.25	9,637	21,880
210.74	9,141	17,093	211.26	9,646	21,977
210.75	9,150	17,184	211.27	9,656	22,073
210.76	9,160	17,276	211.28	9,666	22,170
210.77	9,169	17,368	211.29	9,676	22,266
210.78	9,179	17,459	211.30	9,686	22,363
210.79	9,189	17,551	211.31	9,696	22,460
210.80	9,198	17,643	211.32	9,706	22,557
210.81	9,208	17,735	211.33	9,715	22,654
210.82	9,217	17,827	211.34	9,725	22,751
210.83	9,227	17,919	211.35	9,735	22,849
210.84	9,237	18,012	211.36	9,745	22,946
210.85	9,246	18,104	211.37	9,755	23,044
210.86	9,256	18,197	211.38	9,765	23,141
210.87	9,265	18,289	211.39	9,775	23,239
210.88	9,275	18,382	211.40	9,784	23,337
210.89	9,285	18,475	211.41	9,794	23,435

Stage-Area-Storage for Pond B-2: Basin #2 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
211.42	9,804	23,533	211.94	10,317	28,764
211.43	9,814	23,631	211.95	10,327	28,867
211.44	9,824	23,729	211.96	10,337	28,971
211.45	9,834	23,827	211.97	10,346	29,074
211.46	9,844	23,926	211.98	10,356	29,178
211.47	9,853	24,024	211.99	10,366	29,281
211.48	9,863	24,123	212.00	10,376	29,385
211.49	9,873	24,221			
211.50	9,883	24,320			
211.51	9,893	24,419			
211.52	9,903	24,518			
211.53	9,913	24,617			
211.54	9,922	24,716			
211.55	9,932	24,815			
211.56	9,942	24,915			
211.57	9,952	25,014			
211.58	9,962	25,114			
211.59	9,972	25,214			
211.60	9,982	25,313			
211.61	9,991	25,413			
211.62	10,001	25,513			
211.63	10,011	25,613			
211.64	10,021	25,713			
211.65	10,031	25,814			
211.66	10,041	25,914			
211.67	10,051	26,014			
211.68	10,060	26,115			
211.69	10,070	26,216			
211.70	10,080	26,316			
211.71	10,090	26,417			
211.72	10,100	26,518			
211.73	10,110	26,619			
211.74	10,120	26,720			
211.75	10,130	26,822			
211.76	10,139	26,923			
211.77	10,149	27,024			
211.78	10,159	27,126			
211.79	10,169	27,228			
211.80	10,179	27,329			
211.81	10,189	27,431			
211.82	10,199	27,533			
211.83	10,208	27,635			
211.84	10,218	27,737			
211.85	10,228	27,840			
211.86	10,238	27,942			
211.87	10,248	28,044			
211.88	10,258	28,147			
211.89	10,268	28,249			
211.90	10,277	28,352			
211.91	10,287	28,455			
211.92	10,297	28,558			
211.93	10,307	28,661			

Summary for Pond B-3: Basin #3

Inflow Area = 1.554 ac, 38.35% Impervious, Inflow Depth = 4.04" for Future 10 yr event
 Inflow = 6.42 cfs @ 12.17 hrs, Volume= 0.523 af
 Outflow = 0.19 cfs @ 16.42 hrs, Volume= 0.404 af, Atten= 97%, Lag= 255.1 min
 Primary = 0.19 cfs @ 16.42 hrs, Volume= 0.404 af
 Routed to Link PDA-1 : Proposed Drainage Area #1

Routing by Stor-Ind method, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 Peak Elev= 214.30' @ 16.42 hrs Surf.Area= 13,517 sf Storage= 15,304 cf

Plug-Flow detention time= 724.1 min calculated for 0.404 af (77% of inflow)
 Center-of-Mass det. time= 636.6 min (1,427.2 - 790.6)

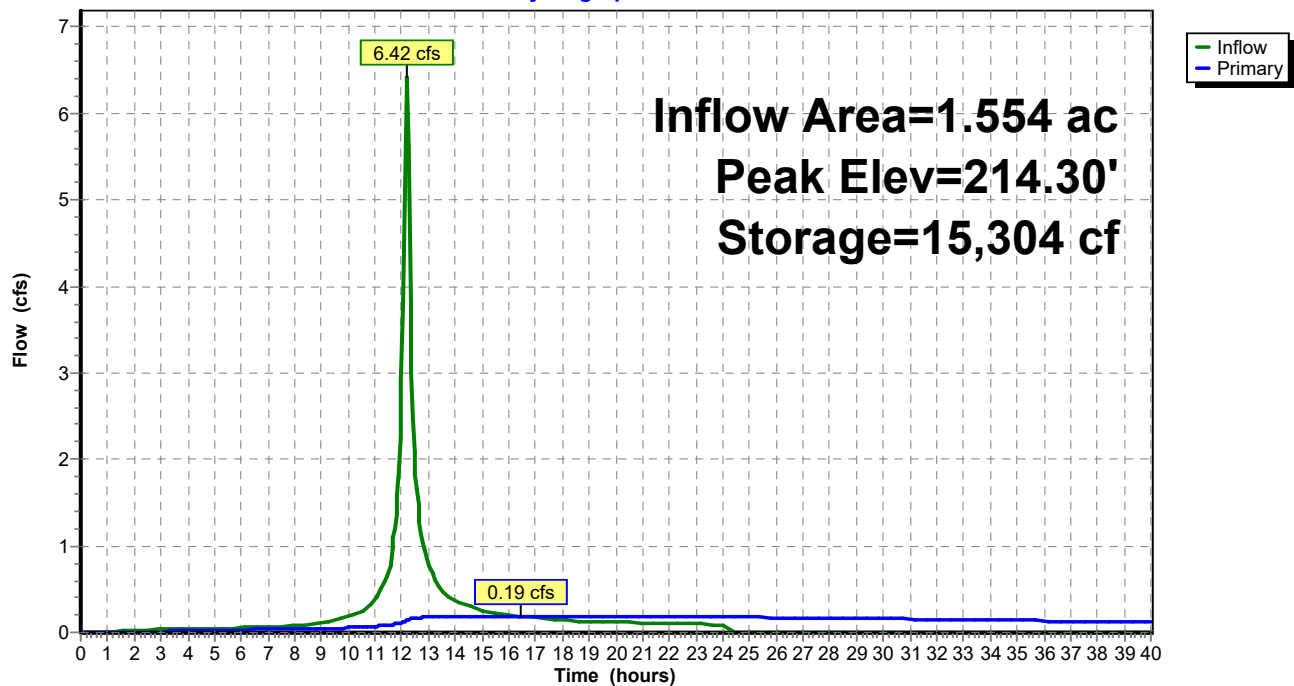
Volume	Invert	Avail.Storage	Storage Description
#1	213.00'	56,991 cf	Custom Stage Data (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
213.00	9,992	0	0
214.00	12,685	11,339	11,339
215.00	15,435	14,060	25,399
216.00	18,241	16,838	42,237
216.75	21,104	14,754	56,991

Device	Routing	Invert	Outlet Devices
#1	Primary	212.30'	18.0" Round Culvert L= 151.0' Ke= 0.500 Inlet / Outlet Invert= 212.30' / 202.00' S= 0.0682 ' S= 0.0682 ' Cc= 0.900 n= 0.013 Concrete pipe, straight & clean, Flow Area= 1.77 sf
#2	Device 1	212.90'	2.5" Vert. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#3	Device 1	215.50'	4.0' long Sharp-Crested Rectangular Weir 2 End Contraction(s)
#4	Primary	216.70'	50.0' long + 3.0 ' SideZ x 5.0' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 Coef. (English) 2.34 2.50 2.70 2.68 2.68 2.66 2.65 2.65 2.65 2.65 2.67 2.66 2.68 2.70 2.74 2.79 2.88

Primary OutFlow Max=0.19 cfs @ 16.42 hrs HW=214.30' (Free Discharge)

1=Culvert (Passes 0.19 cfs of 9.52 cfs potential flow)
 2=Orifice/Grate (Orifice Controls 0.19 cfs @ 5.49 fps)
 3=Sharp-Crested Rectangular Weir (Controls 0.00 cfs)
 4=Broad-Crested Rectangular Weir (Controls 0.00 cfs)

Pond B-3: Basin #3**Hydrograph**

Stage-Discharge for Pond B-3: Basin #3

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
213.00	0.00	213.52	0.12	214.04	0.17	214.56	0.20
213.01	0.02	213.53	0.12	214.05	0.17	214.57	0.21
213.02	0.02	213.54	0.12	214.06	0.17	214.58	0.21
213.03	0.03	213.55	0.12	214.07	0.17	214.59	0.21
213.04	0.03	213.56	0.12	214.08	0.17	214.60	0.21
213.05	0.03	213.57	0.12	214.09	0.17	214.61	0.21
213.06	0.04	213.58	0.12	214.10	0.17	214.62	0.21
213.07	0.04	213.59	0.13	214.11	0.17	214.63	0.21
213.08	0.05	213.60	0.13	214.12	0.17	214.64	0.21
213.09	0.05	213.61	0.13	214.13	0.17	214.65	0.21
213.10	0.05	213.62	0.13	214.14	0.17	214.66	0.21
213.11	0.05	213.63	0.13	214.15	0.18	214.67	0.21
213.12	0.06	213.64	0.13	214.16	0.18	214.68	0.21
213.13	0.06	213.65	0.13	214.17	0.18	214.69	0.21
213.14	0.06	213.66	0.13	214.18	0.18	214.70	0.21
213.15	0.06	213.67	0.13	214.19	0.18	214.71	0.21
213.16	0.06	213.68	0.13	214.20	0.18	214.72	0.22
213.17	0.07	213.69	0.14	214.21	0.18	214.73	0.22
213.18	0.07	213.70	0.14	214.22	0.18	214.74	0.22
213.19	0.07	213.71	0.14	214.23	0.18	214.75	0.22
213.20	0.07	213.72	0.14	214.24	0.18	214.76	0.22
213.21	0.07	213.73	0.14	214.25	0.18	214.77	0.22
213.22	0.08	213.74	0.14	214.26	0.18	214.78	0.22
213.23	0.08	213.75	0.14	214.27	0.18	214.79	0.22
213.24	0.08	213.76	0.14	214.28	0.19	214.80	0.22
213.25	0.08	213.77	0.14	214.29	0.19	214.81	0.22
213.26	0.08	213.78	0.14	214.30	0.19	214.82	0.22
213.27	0.08	213.79	0.15	214.31	0.19	214.83	0.22
213.28	0.09	213.80	0.15	214.32	0.19	214.84	0.22
213.29	0.09	213.81	0.15	214.33	0.19	214.85	0.22
213.30	0.09	213.82	0.15	214.34	0.19	214.86	0.22
213.31	0.09	213.83	0.15	214.35	0.19	214.87	0.22
213.32	0.09	213.84	0.15	214.36	0.19	214.88	0.22
213.33	0.09	213.85	0.15	214.37	0.19	214.89	0.23
213.34	0.10	213.86	0.15	214.38	0.19	214.90	0.23
213.35	0.10	213.87	0.15	214.39	0.19	214.91	0.23
213.36	0.10	213.88	0.15	214.40	0.19	214.92	0.23
213.37	0.10	213.89	0.15	214.41	0.19	214.93	0.23
213.38	0.10	213.90	0.16	214.42	0.20	214.94	0.23
213.39	0.10	213.91	0.16	214.43	0.20	214.95	0.23
213.40	0.10	213.92	0.16	214.44	0.20	214.96	0.23
213.41	0.10	213.93	0.16	214.45	0.20	214.97	0.23
213.42	0.11	213.94	0.16	214.46	0.20	214.98	0.23
213.43	0.11	213.95	0.16	214.47	0.20	214.99	0.23
213.44	0.11	213.96	0.16	214.48	0.20	215.00	0.23
213.45	0.11	213.97	0.16	214.49	0.20	215.01	0.23
213.46	0.11	213.98	0.16	214.50	0.20	215.02	0.23
213.47	0.11	213.99	0.16	214.51	0.20	215.03	0.23
213.48	0.11	214.00	0.16	214.52	0.20	215.04	0.23
213.49	0.11	214.01	0.16	214.53	0.20	215.05	0.23
213.50	0.12	214.02	0.17	214.54	0.20	215.06	0.24
213.51	0.12	214.03	0.17	214.55	0.20	215.07	0.24

Stage-Discharge for Pond B-3: Basin #3 (continued)

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
215.08	0.24	215.60	0.68	216.12	6.48	216.64	15.33
215.09	0.24	215.61	0.74	216.13	6.62	216.65	15.52
215.10	0.24	215.62	0.81	216.14	6.77	216.66	15.71
215.11	0.24	215.63	0.88	216.15	6.92	216.67	15.90
215.12	0.24	215.64	0.95	216.16	7.07	216.68	16.09
215.13	0.24	215.65	1.02	216.17	7.23	216.69	16.23
215.14	0.24	215.66	1.10	216.18	7.38	216.70	16.26
215.15	0.24	215.67	1.18	216.19	7.53	216.71	16.40
215.16	0.24	215.68	1.26	216.20	7.69	216.72	16.63
215.17	0.24	215.69	1.34	216.21	7.84	216.73	16.93
215.18	0.24	215.70	1.43	216.22	8.00	216.74	17.28
215.19	0.24	215.71	1.52	216.23	8.16	216.75	17.68
215.20	0.24	215.72	1.61	216.24	8.31		
215.21	0.24	215.73	1.70	216.25	8.47		
215.22	0.24	215.74	1.79	216.26	8.63		
215.23	0.24	215.75	1.89	216.27	8.79		
215.24	0.25	215.76	1.98	216.28	8.96		
215.25	0.25	215.77	2.08	216.29	9.12		
215.26	0.25	215.78	2.18	216.30	9.28		
215.27	0.25	215.79	2.29	216.31	9.45		
215.28	0.25	215.80	2.39	216.32	9.61		
215.29	0.25	215.81	2.50	216.33	9.78		
215.30	0.25	215.82	2.61	216.34	9.95		
215.31	0.25	215.83	2.71	216.35	10.11		
215.32	0.25	215.84	2.83	216.36	10.28		
215.33	0.25	215.85	2.94	216.37	10.45		
215.34	0.25	215.86	3.05	216.38	10.62		
215.35	0.25	215.87	3.17	216.39	10.80		
215.36	0.25	215.88	3.28	216.40	10.97		
215.37	0.25	215.89	3.40	216.41	11.14		
215.38	0.25	215.90	3.52	216.42	11.31		
215.39	0.25	215.91	3.64	216.43	11.49		
215.40	0.25	215.92	3.77	216.44	11.66		
215.41	0.25	215.93	3.89	216.45	11.84		
215.42	0.26	215.94	4.01	216.46	12.02		
215.43	0.26	215.95	4.14	216.47	12.20		
215.44	0.26	215.96	4.27	216.48	12.37		
215.45	0.26	215.97	4.40	216.49	12.55		
215.46	0.26	215.98	4.53	216.50	12.73		
215.47	0.26	215.99	4.66	216.51	12.91		
215.48	0.26	216.00	4.79	216.52	13.09		
215.49	0.26	216.01	4.93	216.53	13.28		
215.50	0.26	216.02	5.06	216.54	13.46		
215.51	0.27	216.03	5.20	216.55	13.64		
215.52	0.30	216.04	5.34	216.56	13.83		
215.53	0.33	216.05	5.47	216.57	14.01		
215.54	0.37	216.06	5.61	216.58	14.20		
215.55	0.41	216.07	5.76	216.59	14.38		
215.56	0.45	216.08	5.90	216.60	14.57		
215.57	0.50	216.09	6.04	216.61	14.76		
215.58	0.56	216.10	6.19	216.62	14.95		
215.59	0.62	216.11	6.33	216.63	15.14		

Stage-Area-Storage for Pond B-3: Basin #3

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
213.00	9,992	0	213.52	11,392	5,560
213.01	10,019	100	213.53	11,419	5,674
213.02	10,046	200	213.54	11,446	5,788
213.03	10,073	301	213.55	11,473	5,903
213.04	10,100	402	213.56	11,500	6,018
213.05	10,127	503	213.57	11,527	6,133
213.06	10,154	604	213.58	11,554	6,248
213.07	10,181	706	213.59	11,581	6,364
213.08	10,207	808	213.60	11,608	6,480
213.09	10,234	910	213.61	11,635	6,596
213.10	10,261	1,013	213.62	11,662	6,713
213.11	10,288	1,115	213.63	11,689	6,829
213.12	10,315	1,218	213.64	11,716	6,946
213.13	10,342	1,322	213.65	11,742	7,064
213.14	10,369	1,425	213.66	11,769	7,181
213.15	10,396	1,529	213.67	11,796	7,299
213.16	10,423	1,633	213.68	11,823	7,417
213.17	10,450	1,738	213.69	11,850	7,536
213.18	10,477	1,842	213.70	11,877	7,654
213.19	10,504	1,947	213.71	11,904	7,773
213.20	10,531	2,052	213.72	11,931	7,892
213.21	10,558	2,158	213.73	11,958	8,012
213.22	10,584	2,263	213.74	11,985	8,131
213.23	10,611	2,369	213.75	12,012	8,251
213.24	10,638	2,476	213.76	12,039	8,372
213.25	10,665	2,582	213.77	12,066	8,492
213.26	10,692	2,689	213.78	12,093	8,613
213.27	10,719	2,796	213.79	12,119	8,734
213.28	10,746	2,903	213.80	12,146	8,855
213.29	10,773	3,011	213.81	12,173	8,977
213.30	10,800	3,119	213.82	12,200	9,099
213.31	10,827	3,227	213.83	12,227	9,221
213.32	10,854	3,335	213.84	12,254	9,343
213.33	10,881	3,444	213.85	12,281	9,466
213.34	10,908	3,553	213.86	12,308	9,589
213.35	10,935	3,662	213.87	12,335	9,712
213.36	10,961	3,772	213.88	12,362	9,836
213.37	10,988	3,881	213.89	12,389	9,959
213.38	11,015	3,991	213.90	12,416	10,083
213.39	11,042	4,102	213.91	12,443	10,208
213.40	11,069	4,212	213.92	12,470	10,332
213.41	11,096	4,323	213.93	12,496	10,457
213.42	11,123	4,434	213.94	12,523	10,582
213.43	11,150	4,546	213.95	12,550	10,708
213.44	11,177	4,657	213.96	12,577	10,833
213.45	11,204	4,769	213.97	12,604	10,959
213.46	11,231	4,881	213.98	12,631	11,085
213.47	11,258	4,994	213.99	12,658	11,212
213.48	11,285	5,106	214.00	12,685	11,339
213.49	11,312	5,219	214.01	12,712	11,465
213.50	11,339	5,333	214.02	12,740	11,593
213.51	11,365	5,446	214.03	12,768	11,720

Stage-Area-Storage for Pond B-3: Basin #3 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
214.04	12,795	11,848	214.56	14,225	18,873
214.05	12,823	11,976	214.57	14,252	19,016
214.06	12,850	12,105	214.58	14,280	19,158
214.07	12,877	12,233	214.59	14,308	19,301
214.08	12,905	12,362	214.60	14,335	19,444
214.09	12,933	12,491	214.61	14,363	19,588
214.10	12,960	12,621	214.62	14,390	19,732
214.11	12,988	12,750	214.63	14,417	19,876
214.12	13,015	12,881	214.64	14,445	20,020
214.13	13,042	13,011	214.65	14,473	20,165
214.14	13,070	13,141	214.66	14,500	20,310
214.15	13,098	13,272	214.67	14,527	20,455
214.16	13,125	13,403	214.68	14,555	20,600
214.17	13,152	13,535	214.69	14,582	20,746
214.18	13,180	13,666	214.70	14,610	20,892
214.19	13,207	13,798	214.71	14,638	21,038
214.20	13,235	13,930	214.72	14,665	21,184
214.21	13,263	14,063	214.73	14,692	21,331
214.22	13,290	14,196	214.74	14,720	21,478
214.23	13,317	14,329	214.75	14,748	21,626
214.24	13,345	14,462	214.76	14,775	21,773
214.25	13,373	14,596	214.77	14,803	21,921
214.26	13,400	14,730	214.78	14,830	22,069
214.27	13,428	14,864	214.79	14,857	22,218
214.28	13,455	14,998	214.80	14,885	22,367
214.29	13,482	15,133	214.81	14,913	22,515
214.30	13,510	15,268	214.82	14,940	22,665
214.31	13,538	15,403	214.83	14,968	22,814
214.32	13,565	15,538	214.84	14,995	22,964
214.33	13,593	15,674	214.85	15,022	23,114
214.34	13,620	15,810	214.86	15,050	23,265
214.35	13,647	15,947	214.87	15,078	23,415
214.36	13,675	16,083	214.88	15,105	23,566
214.37	13,703	16,220	214.89	15,132	23,717
214.38	13,730	16,357	214.90	15,160	23,869
214.39	13,757	16,495	214.91	15,187	24,020
214.40	13,785	16,633	214.92	15,215	24,172
214.41	13,812	16,770	214.93	15,243	24,325
214.42	13,840	16,909	214.94	15,270	24,477
214.43	13,868	17,047	214.95	15,297	24,630
214.44	13,895	17,186	214.96	15,325	24,783
214.45	13,922	17,325	214.97	15,352	24,937
214.46	13,950	17,465	214.98	15,380	25,090
214.47	13,977	17,604	214.99	15,408	25,244
214.48	14,005	17,744	215.00	15,435	25,399
214.49	14,033	17,884	215.01	15,463	25,553
214.50	14,060	18,025	215.02	15,491	25,708
214.51	14,087	18,165	215.03	15,519	25,863
214.52	14,115	18,307	215.04	15,547	26,018
214.53	14,143	18,448	215.05	15,575	26,174
214.54	14,170	18,589	215.06	15,603	26,330
214.55	14,198	18,731	215.07	15,631	26,486

Stage-Area-Storage for Pond B-3: Basin #3 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
215.08	15,659	26,642	215.60	17,119	35,165
215.09	15,688	26,799	215.61	17,147	35,336
215.10	15,716	26,956	215.62	17,175	35,508
215.11	15,744	27,113	215.63	17,203	35,679
215.12	15,772	27,271	215.64	17,231	35,852
215.13	15,800	27,429	215.65	17,259	36,024
215.14	15,828	27,587	215.66	17,287	36,197
215.15	15,856	27,745	215.67	17,315	36,370
215.16	15,884	27,904	215.68	17,343	36,543
215.17	15,912	28,063	215.69	17,371	36,717
215.18	15,940	28,222	215.70	17,399	36,890
215.19	15,968	28,382	215.71	17,427	37,065
215.20	15,996	28,542	215.72	17,455	37,239
215.21	16,024	28,702	215.73	17,483	37,414
215.22	16,052	28,862	215.74	17,511	37,589
215.23	16,080	29,023	215.75	17,540	37,764
215.24	16,108	29,184	215.76	17,568	37,939
215.25	16,137	29,345	215.77	17,596	38,115
215.26	16,165	29,506	215.78	17,624	38,291
215.27	16,193	29,668	215.79	17,652	38,468
215.28	16,221	29,830	215.80	17,680	38,644
215.29	16,249	29,993	215.81	17,708	38,821
215.30	16,277	30,155	215.82	17,736	38,999
215.31	16,305	30,318	215.83	17,764	39,176
215.32	16,333	30,481	215.84	17,792	39,354
215.33	16,361	30,645	215.85	17,820	39,532
215.34	16,389	30,809	215.86	17,848	39,710
215.35	16,417	30,973	215.87	17,876	39,889
215.36	16,445	31,137	215.88	17,904	40,068
215.37	16,473	31,302	215.89	17,932	40,247
215.38	16,501	31,466	215.90	17,960	40,426
215.39	16,529	31,632	215.91	17,988	40,606
215.40	16,557	31,797	215.92	18,017	40,786
215.41	16,585	31,963	215.93	18,045	40,967
215.42	16,614	32,129	215.94	18,073	41,147
215.43	16,642	32,295	215.95	18,101	41,328
215.44	16,670	32,462	215.96	18,129	41,509
215.45	16,698	32,628	215.97	18,157	41,691
215.46	16,726	32,795	215.98	18,185	41,872
215.47	16,754	32,963	215.99	18,213	42,054
215.48	16,782	33,131	216.00	18,241	42,237
215.49	16,810	33,299	216.01	18,279	42,419
215.50	16,838	33,467	216.02	18,317	42,602
215.51	16,866	33,635	216.03	18,356	42,785
215.52	16,894	33,804	216.04	18,394	42,969
215.53	16,922	33,973	216.05	18,432	43,153
215.54	16,950	34,143	216.06	18,470	43,338
215.55	16,978	34,312	216.07	18,508	43,523
215.56	17,006	34,482	216.08	18,546	43,708
215.57	17,034	34,652	216.09	18,585	43,894
215.58	17,062	34,823	216.10	18,623	44,080
215.59	17,091	34,994	216.11	18,661	44,266

Stage-Area-Storage for Pond B-3: Basin #3 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
216.12	18,699	44,453	216.64	20,684	54,693
216.13	18,737	44,640	216.65	20,722	54,900
216.14	18,775	44,828	216.66	20,760	55,107
216.15	18,814	45,016	216.67	20,799	55,315
216.16	18,852	45,204	216.68	20,837	55,523
216.17	18,890	45,393	216.69	20,875	55,732
216.18	18,928	45,582	216.70	20,913	55,940
216.19	18,966	45,771	216.71	20,951	56,150
216.20	19,004	45,961	216.72	20,989	56,359
216.21	19,043	46,151	216.73	21,028	56,570
216.22	19,081	46,342	216.74	21,066	56,780
216.23	19,119	46,533	216.75	21,104	56,991
216.24	19,157	46,724			
216.25	19,195	46,916			
216.26	19,234	47,108			
216.27	19,272	47,301			
216.28	19,310	47,494			
216.29	19,348	47,687			
216.30	19,386	47,881			
216.31	19,424	48,075			
216.32	19,463	48,269			
216.33	19,501	48,464			
216.34	19,539	48,659			
216.35	19,577	48,855			
216.36	19,615	49,051			
216.37	19,653	49,247			
216.38	19,692	49,444			
216.39	19,730	49,641			
216.40	19,768	49,838			
216.41	19,806	50,036			
216.42	19,844	50,234			
216.43	19,882	50,433			
216.44	19,921	50,632			
216.45	19,959	50,831			
216.46	19,997	51,031			
216.47	20,035	51,231			
216.48	20,073	51,432			
216.49	20,111	51,633			
216.50	20,150	51,834			
216.51	20,188	52,036			
216.52	20,226	52,238			
216.53	20,264	52,440			
216.54	20,302	52,643			
216.55	20,341	52,846			
216.56	20,379	53,050			
216.57	20,417	53,254			
216.58	20,455	53,458			
216.59	20,493	53,663			
216.60	20,531	53,868			
216.61	20,570	54,074			
216.62	20,608	54,280			
216.63	20,646	54,486			

Summary for Pond B-4A: Basin #4A

Inflow Area = 2.331 ac, 36.89% Impervious, Inflow Depth = 4.00" for Future 10 yr event
 Inflow = 9.56 cfs @ 12.17 hrs, Volume= 0.777 af
 Outflow = 1.92 cfs @ 12.70 hrs, Volume= 0.303 af, Atten= 80%, Lag= 31.9 min
 Primary = 1.92 cfs @ 12.70 hrs, Volume= 0.303 af
 Routed to Pond B-5 : Basin #5

Routing by Stor-Ind method, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 Peak Elev= 205.51' @ 12.71 hrs Surf.Area= 6,057 sf Storage= 20,963 cf

Plug-Flow detention time= 327.2 min calculated for 0.303 af (39% of inflow)
 Center-of-Mass det. time= 180.8 min (972.7 - 792.0)

Volume	Invert	Avail.Storage	Storage Description
#1	200.00'	20,963 cf	Custom Stage Data (Prismatic) Listed below (Recalc)
Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
200.00	1,891	0	0
201.00	2,495	2,193	2,193
202.00	3,169	2,832	5,025
203.00	3,912	3,541	8,566
204.00	4,724	4,318	12,884
205.00	5,604	5,164	18,048
205.50	6,057	2,915	20,963

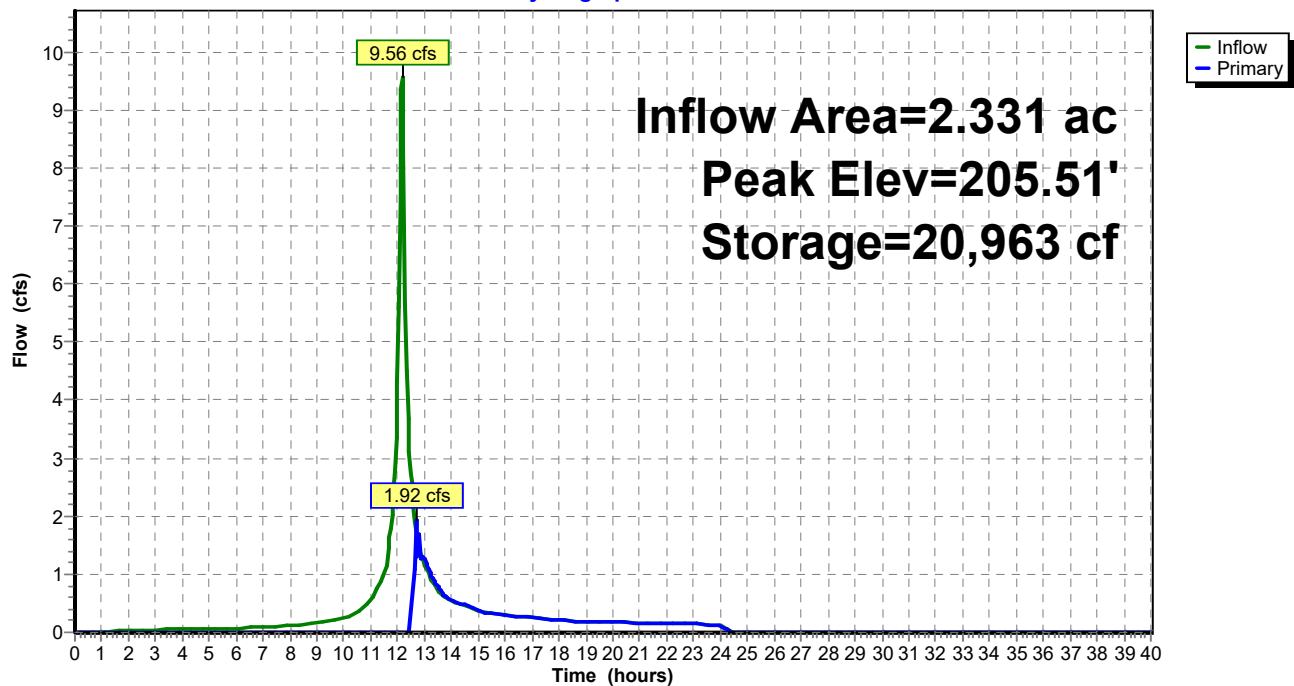
Device	Routing	Invert	Outlet Devices
#1	Primary	205.45'	50.0' long + 3.0 ' SideZ x 5.0' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 Coef. (English) 2.34 2.50 2.70 2.68 2.68 2.66 2.65 2.65 2.65 2.65 2.67 2.66 2.68 2.70 2.74 2.79 2.88

Primary OutFlow Max=1.79 cfs @ 12.70 hrs HW=205.51' (Free Discharge)

↑1=**Broad-Crested Rectangular Weir**(Weir Controls 1.79 cfs @ 0.58 fps)

Pond B-4A: Basin #4A

Hydrograph



Stage-Discharge for Pond B-4A: Basin #4A

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
200.00	0.00	200.52	0.00	201.04	0.00	201.56	0.00
200.01	0.00	200.53	0.00	201.05	0.00	201.57	0.00
200.02	0.00	200.54	0.00	201.06	0.00	201.58	0.00
200.03	0.00	200.55	0.00	201.07	0.00	201.59	0.00
200.04	0.00	200.56	0.00	201.08	0.00	201.60	0.00
200.05	0.00	200.57	0.00	201.09	0.00	201.61	0.00
200.06	0.00	200.58	0.00	201.10	0.00	201.62	0.00
200.07	0.00	200.59	0.00	201.11	0.00	201.63	0.00
200.08	0.00	200.60	0.00	201.12	0.00	201.64	0.00
200.09	0.00	200.61	0.00	201.13	0.00	201.65	0.00
200.10	0.00	200.62	0.00	201.14	0.00	201.66	0.00
200.11	0.00	200.63	0.00	201.15	0.00	201.67	0.00
200.12	0.00	200.64	0.00	201.16	0.00	201.68	0.00
200.13	0.00	200.65	0.00	201.17	0.00	201.69	0.00
200.14	0.00	200.66	0.00	201.18	0.00	201.70	0.00
200.15	0.00	200.67	0.00	201.19	0.00	201.71	0.00
200.16	0.00	200.68	0.00	201.20	0.00	201.72	0.00
200.17	0.00	200.69	0.00	201.21	0.00	201.73	0.00
200.18	0.00	200.70	0.00	201.22	0.00	201.74	0.00
200.19	0.00	200.71	0.00	201.23	0.00	201.75	0.00
200.20	0.00	200.72	0.00	201.24	0.00	201.76	0.00
200.21	0.00	200.73	0.00	201.25	0.00	201.77	0.00
200.22	0.00	200.74	0.00	201.26	0.00	201.78	0.00
200.23	0.00	200.75	0.00	201.27	0.00	201.79	0.00
200.24	0.00	200.76	0.00	201.28	0.00	201.80	0.00
200.25	0.00	200.77	0.00	201.29	0.00	201.81	0.00
200.26	0.00	200.78	0.00	201.30	0.00	201.82	0.00
200.27	0.00	200.79	0.00	201.31	0.00	201.83	0.00
200.28	0.00	200.80	0.00	201.32	0.00	201.84	0.00
200.29	0.00	200.81	0.00	201.33	0.00	201.85	0.00
200.30	0.00	200.82	0.00	201.34	0.00	201.86	0.00
200.31	0.00	200.83	0.00	201.35	0.00	201.87	0.00
200.32	0.00	200.84	0.00	201.36	0.00	201.88	0.00
200.33	0.00	200.85	0.00	201.37	0.00	201.89	0.00
200.34	0.00	200.86	0.00	201.38	0.00	201.90	0.00
200.35	0.00	200.87	0.00	201.39	0.00	201.91	0.00
200.36	0.00	200.88	0.00	201.40	0.00	201.92	0.00
200.37	0.00	200.89	0.00	201.41	0.00	201.93	0.00
200.38	0.00	200.90	0.00	201.42	0.00	201.94	0.00
200.39	0.00	200.91	0.00	201.43	0.00	201.95	0.00
200.40	0.00	200.92	0.00	201.44	0.00	201.96	0.00
200.41	0.00	200.93	0.00	201.45	0.00	201.97	0.00
200.42	0.00	200.94	0.00	201.46	0.00	201.98	0.00
200.43	0.00	200.95	0.00	201.47	0.00	201.99	0.00
200.44	0.00	200.96	0.00	201.48	0.00	202.00	0.00
200.45	0.00	200.97	0.00	201.49	0.00	202.01	0.00
200.46	0.00	200.98	0.00	201.50	0.00	202.02	0.00
200.47	0.00	200.99	0.00	201.51	0.00	202.03	0.00
200.48	0.00	201.00	0.00	201.52	0.00	202.04	0.00
200.49	0.00	201.01	0.00	201.53	0.00	202.05	0.00
200.50	0.00	201.02	0.00	201.54	0.00	202.06	0.00
200.51	0.00	201.03	0.00	201.55	0.00	202.07	0.00

Stage-Discharge for Pond B-4A: Basin #4A (continued)

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
202.08	0.00	202.60	0.00	203.12	0.00	203.64	0.00
202.09	0.00	202.61	0.00	203.13	0.00	203.65	0.00
202.10	0.00	202.62	0.00	203.14	0.00	203.66	0.00
202.11	0.00	202.63	0.00	203.15	0.00	203.67	0.00
202.12	0.00	202.64	0.00	203.16	0.00	203.68	0.00
202.13	0.00	202.65	0.00	203.17	0.00	203.69	0.00
202.14	0.00	202.66	0.00	203.18	0.00	203.70	0.00
202.15	0.00	202.67	0.00	203.19	0.00	203.71	0.00
202.16	0.00	202.68	0.00	203.20	0.00	203.72	0.00
202.17	0.00	202.69	0.00	203.21	0.00	203.73	0.00
202.18	0.00	202.70	0.00	203.22	0.00	203.74	0.00
202.19	0.00	202.71	0.00	203.23	0.00	203.75	0.00
202.20	0.00	202.72	0.00	203.24	0.00	203.76	0.00
202.21	0.00	202.73	0.00	203.25	0.00	203.77	0.00
202.22	0.00	202.74	0.00	203.26	0.00	203.78	0.00
202.23	0.00	202.75	0.00	203.27	0.00	203.79	0.00
202.24	0.00	202.76	0.00	203.28	0.00	203.80	0.00
202.25	0.00	202.77	0.00	203.29	0.00	203.81	0.00
202.26	0.00	202.78	0.00	203.30	0.00	203.82	0.00
202.27	0.00	202.79	0.00	203.31	0.00	203.83	0.00
202.28	0.00	202.80	0.00	203.32	0.00	203.84	0.00
202.29	0.00	202.81	0.00	203.33	0.00	203.85	0.00
202.30	0.00	202.82	0.00	203.34	0.00	203.86	0.00
202.31	0.00	202.83	0.00	203.35	0.00	203.87	0.00
202.32	0.00	202.84	0.00	203.36	0.00	203.88	0.00
202.33	0.00	202.85	0.00	203.37	0.00	203.89	0.00
202.34	0.00	202.86	0.00	203.38	0.00	203.90	0.00
202.35	0.00	202.87	0.00	203.39	0.00	203.91	0.00
202.36	0.00	202.88	0.00	203.40	0.00	203.92	0.00
202.37	0.00	202.89	0.00	203.41	0.00	203.93	0.00
202.38	0.00	202.90	0.00	203.42	0.00	203.94	0.00
202.39	0.00	202.91	0.00	203.43	0.00	203.95	0.00
202.40	0.00	202.92	0.00	203.44	0.00	203.96	0.00
202.41	0.00	202.93	0.00	203.45	0.00	203.97	0.00
202.42	0.00	202.94	0.00	203.46	0.00	203.98	0.00
202.43	0.00	202.95	0.00	203.47	0.00	203.99	0.00
202.44	0.00	202.96	0.00	203.48	0.00	204.00	0.00
202.45	0.00	202.97	0.00	203.49	0.00	204.01	0.00
202.46	0.00	202.98	0.00	203.50	0.00	204.02	0.00
202.47	0.00	202.99	0.00	203.51	0.00	204.03	0.00
202.48	0.00	203.00	0.00	203.52	0.00	204.04	0.00
202.49	0.00	203.01	0.00	203.53	0.00	204.05	0.00
202.50	0.00	203.02	0.00	203.54	0.00	204.06	0.00
202.51	0.00	203.03	0.00	203.55	0.00	204.07	0.00
202.52	0.00	203.04	0.00	203.56	0.00	204.08	0.00
202.53	0.00	203.05	0.00	203.57	0.00	204.09	0.00
202.54	0.00	203.06	0.00	203.58	0.00	204.10	0.00
202.55	0.00	203.07	0.00	203.59	0.00	204.11	0.00
202.56	0.00	203.08	0.00	203.60	0.00	204.12	0.00
202.57	0.00	203.09	0.00	203.61	0.00	204.13	0.00
202.58	0.00	203.10	0.00	203.62	0.00	204.14	0.00
202.59	0.00	203.11	0.00	203.63	0.00	204.15	0.00

Stage-Discharge for Pond B-4A: Basin #4A (continued)

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
204.16	0.00	204.68	0.00	205.20	0.00
204.17	0.00	204.69	0.00	205.21	0.00
204.18	0.00	204.70	0.00	205.22	0.00
204.19	0.00	204.71	0.00	205.23	0.00
204.20	0.00	204.72	0.00	205.24	0.00
204.21	0.00	204.73	0.00	205.25	0.00
204.22	0.00	204.74	0.00	205.26	0.00
204.23	0.00	204.75	0.00	205.27	0.00
204.24	0.00	204.76	0.00	205.28	0.00
204.25	0.00	204.77	0.00	205.29	0.00
204.26	0.00	204.78	0.00	205.30	0.00
204.27	0.00	204.79	0.00	205.31	0.00
204.28	0.00	204.80	0.00	205.32	0.00
204.29	0.00	204.81	0.00	205.33	0.00
204.30	0.00	204.82	0.00	205.34	0.00
204.31	0.00	204.83	0.00	205.35	0.00
204.32	0.00	204.84	0.00	205.36	0.00
204.33	0.00	204.85	0.00	205.37	0.00
204.34	0.00	204.86	0.00	205.38	0.00
204.35	0.00	204.87	0.00	205.39	0.00
204.36	0.00	204.88	0.00	205.40	0.00
204.37	0.00	204.89	0.00	205.41	0.00
204.38	0.00	204.90	0.00	205.42	0.00
204.39	0.00	204.91	0.00	205.43	0.00
204.40	0.00	204.92	0.00	205.44	0.00
204.41	0.00	204.93	0.00	205.45	0.00
204.42	0.00	204.94	0.00	205.46	0.12
204.43	0.00	204.95	0.00	205.47	0.33
204.44	0.00	204.96	0.00	205.48	0.61
204.45	0.00	204.97	0.00	205.49	0.94
204.46	0.00	204.98	0.00	205.50	1.31
204.47	0.00	204.99	0.00	205.51	1.72
204.48	0.00	205.00	0.00	205.52	2.17
204.49	0.00	205.01	0.00	205.53	2.66
204.50	0.00	205.02	0.00	205.54	3.17
204.51	0.00	205.03	0.00	205.55	3.72
204.52	0.00	205.04	0.00	205.56	4.29
204.53	0.00	205.05	0.00		
204.54	0.00	205.06	0.00		
204.55	0.00	205.07	0.00		
204.56	0.00	205.08	0.00		
204.57	0.00	205.09	0.00		
204.58	0.00	205.10	0.00		
204.59	0.00	205.11	0.00		
204.60	0.00	205.12	0.00		
204.61	0.00	205.13	0.00		
204.62	0.00	205.14	0.00		
204.63	0.00	205.15	0.00		
204.64	0.00	205.16	0.00		
204.65	0.00	205.17	0.00		
204.66	0.00	205.18	0.00		
204.67	0.00	205.19	0.00		

Stage-Area-Storage for Pond B-4A: Basin #4A

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
200.00	1,891	0	200.52	2,205	1,065
200.01	1,897	19	200.53	2,211	1,087
200.02	1,903	38	200.54	2,217	1,109
200.03	1,909	57	200.55	2,223	1,131
200.04	1,915	76	200.56	2,229	1,154
200.05	1,921	95	200.57	2,235	1,176
200.06	1,927	115	200.58	2,241	1,198
200.07	1,933	134	200.59	2,247	1,221
200.08	1,939	153	200.60	2,253	1,243
200.09	1,945	173	200.61	2,259	1,266
200.10	1,951	192	200.62	2,265	1,289
200.11	1,957	212	200.63	2,272	1,311
200.12	1,963	231	200.64	2,278	1,334
200.13	1,970	251	200.65	2,284	1,357
200.14	1,976	271	200.66	2,290	1,380
200.15	1,982	290	200.67	2,296	1,403
200.16	1,988	310	200.68	2,302	1,426
200.17	1,994	330	200.69	2,308	1,449
200.18	2,000	350	200.70	2,314	1,472
200.19	2,006	370	200.71	2,320	1,495
200.20	2,012	390	200.72	2,326	1,518
200.21	2,018	410	200.73	2,332	1,541
200.22	2,024	431	200.74	2,338	1,565
200.23	2,030	451	200.75	2,344	1,588
200.24	2,036	471	200.76	2,350	1,612
200.25	2,042	492	200.77	2,356	1,635
200.26	2,048	512	200.78	2,362	1,659
200.27	2,054	533	200.79	2,368	1,682
200.28	2,060	553	200.80	2,374	1,706
200.29	2,066	574	200.81	2,380	1,730
200.30	2,072	594	200.82	2,386	1,754
200.31	2,078	615	200.83	2,392	1,778
200.32	2,084	636	200.84	2,398	1,802
200.33	2,090	657	200.85	2,404	1,826
200.34	2,096	678	200.86	2,410	1,850
200.35	2,102	699	200.87	2,416	1,874
200.36	2,108	720	200.88	2,423	1,898
200.37	2,114	741	200.89	2,429	1,922
200.38	2,121	762	200.90	2,435	1,947
200.39	2,127	783	200.91	2,441	1,971
200.40	2,133	805	200.92	2,447	1,995
200.41	2,139	826	200.93	2,453	2,020
200.42	2,145	847	200.94	2,459	2,044
200.43	2,151	869	200.95	2,465	2,069
200.44	2,157	891	200.96	2,471	2,094
200.45	2,163	912	200.97	2,477	2,118
200.46	2,169	934	200.98	2,483	2,143
200.47	2,175	955	200.99	2,489	2,168
200.48	2,181	977	201.00	2,495	2,193
200.49	2,187	999	201.01	2,502	2,218
200.50	2,193	1,021	201.02	2,508	2,243
200.51	2,199	1,043	201.03	2,515	2,268

Stage-Area-Storage for Pond B-4A: Basin #4A (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
201.04	2,522	2,293	201.56	2,872	3,696
201.05	2,529	2,319	201.57	2,879	3,725
201.06	2,535	2,344	201.58	2,886	3,753
201.07	2,542	2,369	201.59	2,893	3,782
201.08	2,549	2,395	201.60	2,899	3,811
201.09	2,556	2,420	201.61	2,906	3,840
201.10	2,562	2,446	201.62	2,913	3,869
201.11	2,569	2,472	201.63	2,920	3,899
201.12	2,576	2,497	201.64	2,926	3,928
201.13	2,583	2,523	201.65	2,933	3,957
201.14	2,589	2,549	201.66	2,940	3,986
201.15	2,596	2,575	201.67	2,947	4,016
201.16	2,603	2,601	201.68	2,953	4,045
201.17	2,610	2,627	201.69	2,960	4,075
201.18	2,616	2,653	201.70	2,967	4,105
201.19	2,623	2,679	201.71	2,974	4,134
201.20	2,630	2,705	201.72	2,980	4,164
201.21	2,637	2,732	201.73	2,987	4,194
201.22	2,643	2,758	201.74	2,994	4,224
201.23	2,650	2,785	201.75	3,001	4,254
201.24	2,657	2,811	201.76	3,007	4,284
201.25	2,664	2,838	201.77	3,014	4,314
201.26	2,670	2,864	201.78	3,021	4,344
201.27	2,677	2,891	201.79	3,027	4,374
201.28	2,684	2,918	201.80	3,034	4,405
201.29	2,690	2,945	201.81	3,041	4,435
201.30	2,697	2,972	201.82	3,048	4,465
201.31	2,704	2,999	201.83	3,054	4,496
201.32	2,711	3,026	201.84	3,061	4,527
201.33	2,717	3,053	201.85	3,068	4,557
201.34	2,724	3,080	201.86	3,075	4,588
201.35	2,731	3,108	201.87	3,081	4,619
201.36	2,738	3,135	201.88	3,088	4,650
201.37	2,744	3,162	201.89	3,095	4,680
201.38	2,751	3,190	201.90	3,102	4,711
201.39	2,758	3,217	201.91	3,108	4,743
201.40	2,765	3,245	201.92	3,115	4,774
201.41	2,771	3,273	201.93	3,122	4,805
201.42	2,778	3,300	201.94	3,129	4,836
201.43	2,785	3,328	201.95	3,135	4,867
201.44	2,792	3,356	201.96	3,142	4,899
201.45	2,798	3,384	201.97	3,149	4,930
201.46	2,805	3,412	201.98	3,156	4,962
201.47	2,812	3,440	201.99	3,162	4,993
201.48	2,819	3,468	202.00	3,169	5,025
201.49	2,825	3,496	202.01	3,176	5,057
201.50	2,832	3,525	202.02	3,184	5,089
201.51	2,839	3,553	202.03	3,191	5,120
201.52	2,845	3,582	202.04	3,199	5,152
201.53	2,852	3,610	202.05	3,206	5,184
201.54	2,859	3,639	202.06	3,214	5,216
201.55	2,866	3,667	202.07	3,221	5,249

Stage-Area-Storage for Pond B-4A: Basin #4A (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
202.08	3,228	5,281	202.60	3,615	7,060
202.09	3,236	5,313	202.61	3,622	7,096
202.10	3,243	5,346	202.62	3,630	7,133
202.11	3,251	5,378	202.63	3,637	7,169
202.12	3,258	5,411	202.64	3,645	7,205
202.13	3,266	5,443	202.65	3,652	7,242
202.14	3,273	5,476	202.66	3,659	7,278
202.15	3,280	5,509	202.67	3,667	7,315
202.16	3,288	5,542	202.68	3,674	7,352
202.17	3,295	5,574	202.69	3,682	7,388
202.18	3,303	5,607	202.70	3,689	7,425
202.19	3,310	5,641	202.71	3,697	7,462
202.20	3,318	5,674	202.72	3,704	7,499
202.21	3,325	5,707	202.73	3,711	7,536
202.22	3,332	5,740	202.74	3,719	7,573
202.23	3,340	5,774	202.75	3,726	7,611
202.24	3,347	5,807	202.76	3,734	7,648
202.25	3,355	5,840	202.77	3,741	7,685
202.26	3,362	5,874	202.78	3,749	7,723
202.27	3,370	5,908	202.79	3,756	7,760
202.28	3,377	5,941	202.80	3,763	7,798
202.29	3,384	5,975	202.81	3,771	7,836
202.30	3,392	6,009	202.82	3,778	7,873
202.31	3,399	6,043	202.83	3,786	7,911
202.32	3,407	6,077	202.84	3,793	7,949
202.33	3,414	6,111	202.85	3,801	7,987
202.34	3,422	6,145	202.86	3,808	8,025
202.35	3,429	6,180	202.87	3,815	8,063
202.36	3,436	6,214	202.88	3,823	8,101
202.37	3,444	6,248	202.89	3,830	8,140
202.38	3,451	6,283	202.90	3,838	8,178
202.39	3,459	6,317	202.91	3,845	8,216
202.40	3,466	6,352	202.92	3,853	8,255
202.41	3,474	6,387	202.93	3,860	8,293
202.42	3,481	6,422	202.94	3,867	8,332
202.43	3,488	6,456	202.95	3,875	8,371
202.44	3,496	6,491	202.96	3,882	8,410
202.45	3,503	6,526	202.97	3,890	8,448
202.46	3,511	6,561	202.98	3,897	8,487
202.47	3,518	6,596	202.99	3,905	8,526
202.48	3,526	6,632	203.00	3,912	8,566
202.49	3,533	6,667	203.01	3,920	8,605
202.50	3,541	6,702	203.02	3,928	8,644
202.51	3,548	6,738	203.03	3,936	8,683
202.52	3,555	6,773	203.04	3,944	8,723
202.53	3,563	6,809	203.05	3,953	8,762
202.54	3,570	6,845	203.06	3,961	8,802
202.55	3,578	6,880	203.07	3,969	8,841
202.56	3,585	6,916	203.08	3,977	8,881
202.57	3,593	6,952	203.09	3,985	8,921
202.58	3,600	6,988	203.10	3,993	8,961
202.59	3,607	7,024	203.11	4,001	9,001

Stage-Area-Storage for Pond B-4A: Basin #4A (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
203.12	4,009	9,041	203.64	4,432	11,235
203.13	4,018	9,081	203.65	4,440	11,280
203.14	4,026	9,121	203.66	4,448	11,324
203.15	4,034	9,161	203.67	4,456	11,369
203.16	4,042	9,202	203.68	4,464	11,413
203.17	4,050	9,242	203.69	4,472	11,458
203.18	4,058	9,283	203.70	4,480	11,503
203.19	4,066	9,323	203.71	4,489	11,548
203.20	4,074	9,364	203.72	4,497	11,593
203.21	4,083	9,405	203.73	4,505	11,638
203.22	4,091	9,446	203.74	4,513	11,683
203.23	4,099	9,487	203.75	4,521	11,728
203.24	4,107	9,528	203.76	4,529	11,773
203.25	4,115	9,569	203.77	4,537	11,818
203.26	4,123	9,610	203.78	4,545	11,864
203.27	4,131	9,651	203.79	4,553	11,909
203.28	4,139	9,693	203.80	4,562	11,955
203.29	4,147	9,734	203.81	4,570	12,001
203.30	4,156	9,776	203.82	4,578	12,046
203.31	4,164	9,817	203.83	4,586	12,092
203.32	4,172	9,859	203.84	4,594	12,138
203.33	4,180	9,901	203.85	4,602	12,184
203.34	4,188	9,943	203.86	4,610	12,230
203.35	4,196	9,984	203.87	4,618	12,276
203.36	4,204	10,026	203.88	4,627	12,322
203.37	4,212	10,069	203.89	4,635	12,369
203.38	4,221	10,111	203.90	4,643	12,415
203.39	4,229	10,153	203.91	4,651	12,462
203.40	4,237	10,195	203.92	4,659	12,508
203.41	4,245	10,238	203.93	4,667	12,555
203.42	4,253	10,280	203.94	4,675	12,602
203.43	4,261	10,323	203.95	4,683	12,648
203.44	4,269	10,365	203.96	4,692	12,695
203.45	4,277	10,408	203.97	4,700	12,742
203.46	4,286	10,451	203.98	4,708	12,789
203.47	4,294	10,494	203.99	4,716	12,836
203.48	4,302	10,537	204.00	4,724	12,884
203.49	4,310	10,580	204.01	4,733	12,931
203.50	4,318	10,623	204.02	4,742	12,978
203.51	4,326	10,666	204.03	4,750	13,026
203.52	4,334	10,710	204.04	4,759	13,073
203.53	4,342	10,753	204.05	4,768	13,121
203.54	4,350	10,796	204.06	4,777	13,169
203.55	4,359	10,840	204.07	4,786	13,216
203.56	4,367	10,884	204.08	4,794	13,264
203.57	4,375	10,927	204.09	4,803	13,312
203.58	4,383	10,971	204.10	4,812	13,360
203.59	4,391	11,015	204.11	4,821	13,408
203.60	4,399	11,059	204.12	4,830	13,457
203.61	4,407	11,103	204.13	4,838	13,505
203.62	4,415	11,147	204.14	4,847	13,553
203.63	4,424	11,191	204.15	4,856	13,602

Stage-Area-Storage for Pond B-4A: Basin #4A (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
204.16	4,865	13,651	204.68	5,322	16,299
204.17	4,874	13,699	204.69	5,331	16,353
204.18	4,882	13,748	204.70	5,340	16,406
204.19	4,891	13,797	204.71	5,349	16,459
204.20	4,900	13,846	204.72	5,358	16,513
204.21	4,909	13,895	204.73	5,366	16,566
204.22	4,918	13,944	204.74	5,375	16,620
204.23	4,926	13,993	204.75	5,384	16,674
204.24	4,935	14,043	204.76	5,393	16,728
204.25	4,944	14,092	204.77	5,402	16,782
204.26	4,953	14,141	204.78	5,410	16,836
204.27	4,962	14,191	204.79	5,419	16,890
204.28	4,970	14,241	204.80	5,428	16,944
204.29	4,979	14,290	204.81	5,437	16,999
204.30	4,988	14,340	204.82	5,446	17,053
204.31	4,997	14,390	204.83	5,454	17,108
204.32	5,006	14,440	204.84	5,463	17,162
204.33	5,014	14,490	204.85	5,472	17,217
204.34	5,023	14,541	204.86	5,481	17,272
204.35	5,032	14,591	204.87	5,490	17,326
204.36	5,041	14,641	204.88	5,498	17,381
204.37	5,050	14,692	204.89	5,507	17,436
204.38	5,058	14,742	204.90	5,516	17,492
204.39	5,067	14,793	204.91	5,525	17,547
204.40	5,076	14,844	204.92	5,534	17,602
204.41	5,085	14,894	204.93	5,542	17,657
204.42	5,094	14,945	204.94	5,551	17,713
204.43	5,102	14,996	204.95	5,560	17,768
204.44	5,111	15,047	204.96	5,569	17,824
204.45	5,120	15,098	204.97	5,578	17,880
204.46	5,129	15,150	204.98	5,586	17,936
204.47	5,138	15,201	204.99	5,595	17,992
204.48	5,146	15,252	205.00	5,604	18,048
204.49	5,155	15,304	205.01	5,613	18,104
204.50	5,164	15,356	205.02	5,622	18,160
204.51	5,173	15,407	205.03	5,631	18,216
204.52	5,182	15,459	205.04	5,640	18,272
204.53	5,190	15,511	205.05	5,649	18,329
204.54	5,199	15,563	205.06	5,658	18,385
204.55	5,208	15,615	205.07	5,667	18,442
204.56	5,217	15,667	205.08	5,676	18,499
204.57	5,226	15,719	205.09	5,686	18,556
204.58	5,234	15,771	205.10	5,695	18,612
204.59	5,243	15,824	205.11	5,704	18,669
204.60	5,252	15,876	205.12	5,713	18,727
204.61	5,261	15,929	205.13	5,722	18,784
204.62	5,270	15,982	205.14	5,731	18,841
204.63	5,278	16,034	205.15	5,740	18,898
204.64	5,287	16,087	205.16	5,749	18,956
204.65	5,296	16,140	205.17	5,758	19,013
204.66	5,305	16,193	205.18	5,767	19,071
204.67	5,314	16,246	205.19	5,776	19,129

Stage-Area-Storage for Pond B-4A: Basin #4A (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
205.20	5,785	19,186
205.21	5,794	19,244
205.22	5,803	19,302
205.23	5,812	19,360
205.24	5,821	19,419
205.25	5,831	19,477
205.26	5,840	19,535
205.27	5,849	19,594
205.28	5,858	19,652
205.29	5,867	19,711
205.30	5,876	19,769
205.31	5,885	19,828
205.32	5,894	19,887
205.33	5,903	19,946
205.34	5,912	20,005
205.35	5,921	20,064
205.36	5,930	20,124
205.37	5,939	20,183
205.38	5,948	20,242
205.39	5,957	20,302
205.40	5,966	20,362
205.41	5,975	20,421
205.42	5,985	20,481
205.43	5,994	20,541
205.44	6,003	20,601
205.45	6,012	20,661
205.46	6,021	20,721
205.47	6,030	20,781
205.48	6,039	20,842
205.49	6,048	20,902
205.50	6,057	20,963
205.51	6,057	20,963
205.52	6,057	20,963
205.53	6,057	20,963
205.54	6,057	20,963
205.55	6,057	20,963
205.56	6,057	20,963

Summary for Pond B-4B: Basin #4B

Inflow Area = 2.331 ac, 36.89% Impervious, Inflow Depth = 4.00" for Future 10 yr event
 Inflow = 9.56 cfs @ 12.17 hrs, Volume= 0.777 af
 Outflow = 1.00 cfs @ 13.16 hrs, Volume= 0.257 af, Atten= 90%, Lag= 59.3 min
 Primary = 1.00 cfs @ 13.16 hrs, Volume= 0.257 af
 Routed to Pond B-5 : Basin #5

Routing by Stor-Ind method, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 Peak Elev= 205.49' @ 13.16 hrs Surf.Area= 6,921 sf Storage= 22,913 cf

Plug-Flow detention time= 379.6 min calculated for 0.257 af (33% of inflow)
 Center-of-Mass det. time= 217.4 min (1,009.4 - 792.0)

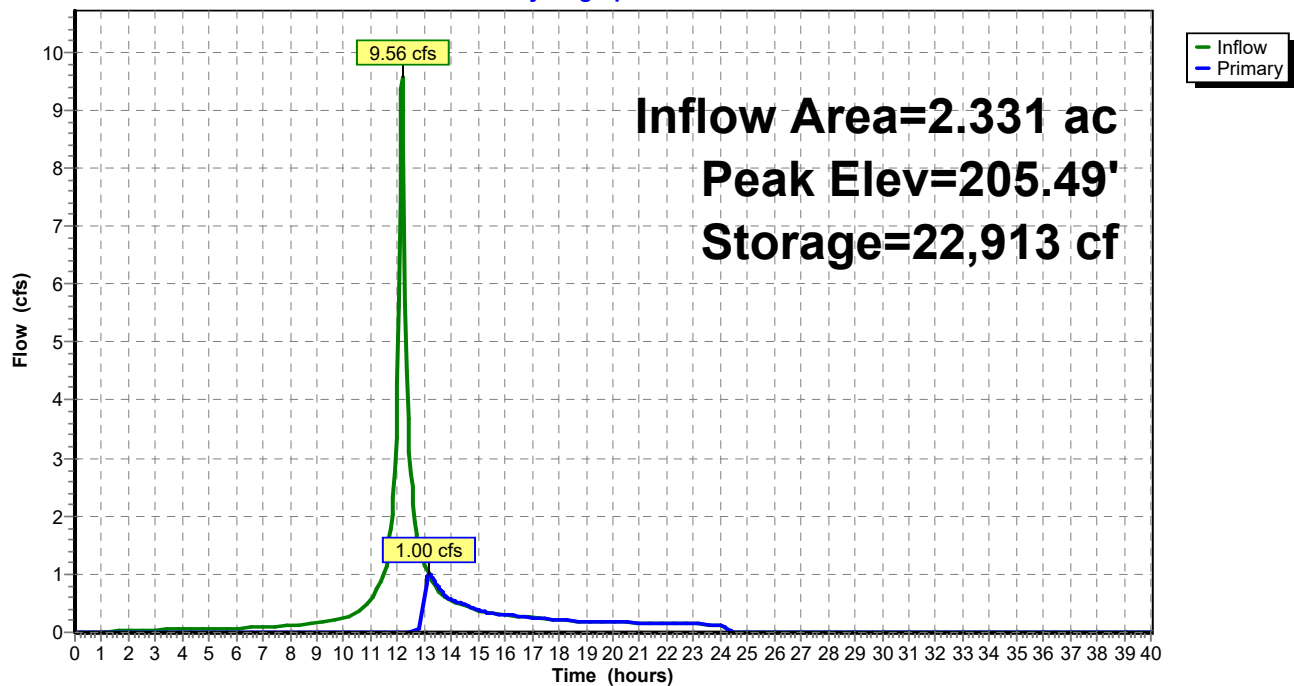
Volume	Invert	Avail.Storage	Storage Description
#1	200.00'	22,995 cf	Custom Stage Data (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
200.00	1,852	0	0
201.00	2,571	2,212	2,212
202.00	3,384	2,978	5,189
203.00	4,292	3,838	9,027
204.00	5,294	4,793	13,820
205.00	6,393	5,844	19,664
205.50	6,934	3,332	22,995

Device	Routing	Invert	Outlet Devices
#1	Primary	205.45'	50.0' long + 3.0 ' SideZ x 5.0' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 Coef. (English) 2.34 2.50 2.70 2.68 2.68 2.66 2.65 2.65 2.65 2.65 2.67 2.66 2.68 2.70 2.74 2.79 2.88

Primary OutFlow Max=0.87 cfs @ 13.16 hrs HW=205.49' (Free Discharge)

↑1=**Broad-Crested Rectangular Weir**(Weir Controls 0.87 cfs @ 0.46 fps)

Pond B-4B: Basin #4B**Hydrograph**

Stage-Discharge for Pond B-4B: Basin #4B

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
200.00	0.00	200.52	0.00	201.04	0.00	201.56	0.00
200.01	0.00	200.53	0.00	201.05	0.00	201.57	0.00
200.02	0.00	200.54	0.00	201.06	0.00	201.58	0.00
200.03	0.00	200.55	0.00	201.07	0.00	201.59	0.00
200.04	0.00	200.56	0.00	201.08	0.00	201.60	0.00
200.05	0.00	200.57	0.00	201.09	0.00	201.61	0.00
200.06	0.00	200.58	0.00	201.10	0.00	201.62	0.00
200.07	0.00	200.59	0.00	201.11	0.00	201.63	0.00
200.08	0.00	200.60	0.00	201.12	0.00	201.64	0.00
200.09	0.00	200.61	0.00	201.13	0.00	201.65	0.00
200.10	0.00	200.62	0.00	201.14	0.00	201.66	0.00
200.11	0.00	200.63	0.00	201.15	0.00	201.67	0.00
200.12	0.00	200.64	0.00	201.16	0.00	201.68	0.00
200.13	0.00	200.65	0.00	201.17	0.00	201.69	0.00
200.14	0.00	200.66	0.00	201.18	0.00	201.70	0.00
200.15	0.00	200.67	0.00	201.19	0.00	201.71	0.00
200.16	0.00	200.68	0.00	201.20	0.00	201.72	0.00
200.17	0.00	200.69	0.00	201.21	0.00	201.73	0.00
200.18	0.00	200.70	0.00	201.22	0.00	201.74	0.00
200.19	0.00	200.71	0.00	201.23	0.00	201.75	0.00
200.20	0.00	200.72	0.00	201.24	0.00	201.76	0.00
200.21	0.00	200.73	0.00	201.25	0.00	201.77	0.00
200.22	0.00	200.74	0.00	201.26	0.00	201.78	0.00
200.23	0.00	200.75	0.00	201.27	0.00	201.79	0.00
200.24	0.00	200.76	0.00	201.28	0.00	201.80	0.00
200.25	0.00	200.77	0.00	201.29	0.00	201.81	0.00
200.26	0.00	200.78	0.00	201.30	0.00	201.82	0.00
200.27	0.00	200.79	0.00	201.31	0.00	201.83	0.00
200.28	0.00	200.80	0.00	201.32	0.00	201.84	0.00
200.29	0.00	200.81	0.00	201.33	0.00	201.85	0.00
200.30	0.00	200.82	0.00	201.34	0.00	201.86	0.00
200.31	0.00	200.83	0.00	201.35	0.00	201.87	0.00
200.32	0.00	200.84	0.00	201.36	0.00	201.88	0.00
200.33	0.00	200.85	0.00	201.37	0.00	201.89	0.00
200.34	0.00	200.86	0.00	201.38	0.00	201.90	0.00
200.35	0.00	200.87	0.00	201.39	0.00	201.91	0.00
200.36	0.00	200.88	0.00	201.40	0.00	201.92	0.00
200.37	0.00	200.89	0.00	201.41	0.00	201.93	0.00
200.38	0.00	200.90	0.00	201.42	0.00	201.94	0.00
200.39	0.00	200.91	0.00	201.43	0.00	201.95	0.00
200.40	0.00	200.92	0.00	201.44	0.00	201.96	0.00
200.41	0.00	200.93	0.00	201.45	0.00	201.97	0.00
200.42	0.00	200.94	0.00	201.46	0.00	201.98	0.00
200.43	0.00	200.95	0.00	201.47	0.00	201.99	0.00
200.44	0.00	200.96	0.00	201.48	0.00	202.00	0.00
200.45	0.00	200.97	0.00	201.49	0.00	202.01	0.00
200.46	0.00	200.98	0.00	201.50	0.00	202.02	0.00
200.47	0.00	200.99	0.00	201.51	0.00	202.03	0.00
200.48	0.00	201.00	0.00	201.52	0.00	202.04	0.00
200.49	0.00	201.01	0.00	201.53	0.00	202.05	0.00
200.50	0.00	201.02	0.00	201.54	0.00	202.06	0.00
200.51	0.00	201.03	0.00	201.55	0.00	202.07	0.00

Stage-Discharge for Pond B-4B: Basin #4B (continued)

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
202.08	0.00	202.60	0.00	203.12	0.00	203.64	0.00
202.09	0.00	202.61	0.00	203.13	0.00	203.65	0.00
202.10	0.00	202.62	0.00	203.14	0.00	203.66	0.00
202.11	0.00	202.63	0.00	203.15	0.00	203.67	0.00
202.12	0.00	202.64	0.00	203.16	0.00	203.68	0.00
202.13	0.00	202.65	0.00	203.17	0.00	203.69	0.00
202.14	0.00	202.66	0.00	203.18	0.00	203.70	0.00
202.15	0.00	202.67	0.00	203.19	0.00	203.71	0.00
202.16	0.00	202.68	0.00	203.20	0.00	203.72	0.00
202.17	0.00	202.69	0.00	203.21	0.00	203.73	0.00
202.18	0.00	202.70	0.00	203.22	0.00	203.74	0.00
202.19	0.00	202.71	0.00	203.23	0.00	203.75	0.00
202.20	0.00	202.72	0.00	203.24	0.00	203.76	0.00
202.21	0.00	202.73	0.00	203.25	0.00	203.77	0.00
202.22	0.00	202.74	0.00	203.26	0.00	203.78	0.00
202.23	0.00	202.75	0.00	203.27	0.00	203.79	0.00
202.24	0.00	202.76	0.00	203.28	0.00	203.80	0.00
202.25	0.00	202.77	0.00	203.29	0.00	203.81	0.00
202.26	0.00	202.78	0.00	203.30	0.00	203.82	0.00
202.27	0.00	202.79	0.00	203.31	0.00	203.83	0.00
202.28	0.00	202.80	0.00	203.32	0.00	203.84	0.00
202.29	0.00	202.81	0.00	203.33	0.00	203.85	0.00
202.30	0.00	202.82	0.00	203.34	0.00	203.86	0.00
202.31	0.00	202.83	0.00	203.35	0.00	203.87	0.00
202.32	0.00	202.84	0.00	203.36	0.00	203.88	0.00
202.33	0.00	202.85	0.00	203.37	0.00	203.89	0.00
202.34	0.00	202.86	0.00	203.38	0.00	203.90	0.00
202.35	0.00	202.87	0.00	203.39	0.00	203.91	0.00
202.36	0.00	202.88	0.00	203.40	0.00	203.92	0.00
202.37	0.00	202.89	0.00	203.41	0.00	203.93	0.00
202.38	0.00	202.90	0.00	203.42	0.00	203.94	0.00
202.39	0.00	202.91	0.00	203.43	0.00	203.95	0.00
202.40	0.00	202.92	0.00	203.44	0.00	203.96	0.00
202.41	0.00	202.93	0.00	203.45	0.00	203.97	0.00
202.42	0.00	202.94	0.00	203.46	0.00	203.98	0.00
202.43	0.00	202.95	0.00	203.47	0.00	203.99	0.00
202.44	0.00	202.96	0.00	203.48	0.00	204.00	0.00
202.45	0.00	202.97	0.00	203.49	0.00	204.01	0.00
202.46	0.00	202.98	0.00	203.50	0.00	204.02	0.00
202.47	0.00	202.99	0.00	203.51	0.00	204.03	0.00
202.48	0.00	203.00	0.00	203.52	0.00	204.04	0.00
202.49	0.00	203.01	0.00	203.53	0.00	204.05	0.00
202.50	0.00	203.02	0.00	203.54	0.00	204.06	0.00
202.51	0.00	203.03	0.00	203.55	0.00	204.07	0.00
202.52	0.00	203.04	0.00	203.56	0.00	204.08	0.00
202.53	0.00	203.05	0.00	203.57	0.00	204.09	0.00
202.54	0.00	203.06	0.00	203.58	0.00	204.10	0.00
202.55	0.00	203.07	0.00	203.59	0.00	204.11	0.00
202.56	0.00	203.08	0.00	203.60	0.00	204.12	0.00
202.57	0.00	203.09	0.00	203.61	0.00	204.13	0.00
202.58	0.00	203.10	0.00	203.62	0.00	204.14	0.00
202.59	0.00	203.11	0.00	203.63	0.00	204.15	0.00

Stage-Discharge for Pond B-4B: Basin #4B (continued)

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
204.16	0.00	204.68	0.00	205.20	0.00
204.17	0.00	204.69	0.00	205.21	0.00
204.18	0.00	204.70	0.00	205.22	0.00
204.19	0.00	204.71	0.00	205.23	0.00
204.20	0.00	204.72	0.00	205.24	0.00
204.21	0.00	204.73	0.00	205.25	0.00
204.22	0.00	204.74	0.00	205.26	0.00
204.23	0.00	204.75	0.00	205.27	0.00
204.24	0.00	204.76	0.00	205.28	0.00
204.25	0.00	204.77	0.00	205.29	0.00
204.26	0.00	204.78	0.00	205.30	0.00
204.27	0.00	204.79	0.00	205.31	0.00
204.28	0.00	204.80	0.00	205.32	0.00
204.29	0.00	204.81	0.00	205.33	0.00
204.30	0.00	204.82	0.00	205.34	0.00
204.31	0.00	204.83	0.00	205.35	0.00
204.32	0.00	204.84	0.00	205.36	0.00
204.33	0.00	204.85	0.00	205.37	0.00
204.34	0.00	204.86	0.00	205.38	0.00
204.35	0.00	204.87	0.00	205.39	0.00
204.36	0.00	204.88	0.00	205.40	0.00
204.37	0.00	204.89	0.00	205.41	0.00
204.38	0.00	204.90	0.00	205.42	0.00
204.39	0.00	204.91	0.00	205.43	0.00
204.40	0.00	204.92	0.00	205.44	0.00
204.41	0.00	204.93	0.00	205.45	0.00
204.42	0.00	204.94	0.00	205.46	0.12
204.43	0.00	204.95	0.00	205.47	0.33
204.44	0.00	204.96	0.00	205.48	0.61
204.45	0.00	204.97	0.00	205.49	0.94
204.46	0.00	204.98	0.00	205.50	1.31
204.47	0.00	204.99	0.00		
204.48	0.00	205.00	0.00		
204.49	0.00	205.01	0.00		
204.50	0.00	205.02	0.00		
204.51	0.00	205.03	0.00		
204.52	0.00	205.04	0.00		
204.53	0.00	205.05	0.00		
204.54	0.00	205.06	0.00		
204.55	0.00	205.07	0.00		
204.56	0.00	205.08	0.00		
204.57	0.00	205.09	0.00		
204.58	0.00	205.10	0.00		
204.59	0.00	205.11	0.00		
204.60	0.00	205.12	0.00		
204.61	0.00	205.13	0.00		
204.62	0.00	205.14	0.00		
204.63	0.00	205.15	0.00		
204.64	0.00	205.16	0.00		
204.65	0.00	205.17	0.00		
204.66	0.00	205.18	0.00		
204.67	0.00	205.19	0.00		

Stage-Area-Storage for Pond B-4B: Basin #4B

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
200.00	1,852	0	200.52	2,226	1,060
200.01	1,859	19	200.53	2,233	1,083
200.02	1,866	37	200.54	2,240	1,105
200.03	1,874	56	200.55	2,247	1,127
200.04	1,881	75	200.56	2,255	1,150
200.05	1,888	93	200.57	2,262	1,172
200.06	1,895	112	200.58	2,269	1,195
200.07	1,902	131	200.59	2,276	1,218
200.08	1,910	150	200.60	2,283	1,241
200.09	1,917	170	200.61	2,291	1,263
200.10	1,924	189	200.62	2,298	1,286
200.11	1,931	208	200.63	2,305	1,309
200.12	1,938	227	200.64	2,312	1,333
200.13	1,945	247	200.65	2,319	1,356
200.14	1,953	266	200.66	2,327	1,379
200.15	1,960	286	200.67	2,334	1,402
200.16	1,967	306	200.68	2,341	1,426
200.17	1,974	325	200.69	2,348	1,449
200.18	1,981	345	200.70	2,355	1,473
200.19	1,989	365	200.71	2,362	1,496
200.20	1,996	385	200.72	2,370	1,520
200.21	2,003	405	200.73	2,377	1,544
200.22	2,010	425	200.74	2,384	1,567
200.23	2,017	445	200.75	2,391	1,591
200.24	2,025	465	200.76	2,398	1,615
200.25	2,032	485	200.77	2,406	1,639
200.26	2,039	506	200.78	2,413	1,663
200.27	2,046	526	200.79	2,420	1,687
200.28	2,053	547	200.80	2,427	1,712
200.29	2,061	567	200.81	2,434	1,736
200.30	2,068	588	200.82	2,442	1,760
200.31	2,075	609	200.83	2,449	1,785
200.32	2,082	629	200.84	2,456	1,809
200.33	2,089	650	200.85	2,463	1,834
200.34	2,096	671	200.86	2,470	1,859
200.35	2,104	692	200.87	2,478	1,883
200.36	2,111	713	200.88	2,485	1,908
200.37	2,118	734	200.89	2,492	1,933
200.38	2,125	756	200.90	2,499	1,958
200.39	2,132	777	200.91	2,506	1,983
200.40	2,140	798	200.92	2,513	2,008
200.41	2,147	820	200.93	2,521	2,033
200.42	2,154	841	200.94	2,528	2,059
200.43	2,161	863	200.95	2,535	2,084
200.44	2,168	884	200.96	2,542	2,109
200.45	2,176	906	200.97	2,549	2,135
200.46	2,183	928	200.98	2,557	2,160
200.47	2,190	950	200.99	2,564	2,186
200.48	2,197	972	201.00	2,571	2,212
200.49	2,204	994	201.01	2,579	2,237
200.50	2,212	1,016	201.02	2,587	2,263
200.51	2,219	1,038	201.03	2,595	2,289

Stage-Area-Storage for Pond B-4B: Basin #4B (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
201.04	2,604	2,315	201.56	3,026	3,779
201.05	2,612	2,341	201.57	3,034	3,809
201.06	2,620	2,367	201.58	3,043	3,839
201.07	2,628	2,393	201.59	3,051	3,870
201.08	2,636	2,420	201.60	3,059	3,900
201.09	2,644	2,446	201.61	3,067	3,931
201.10	2,652	2,473	201.62	3,075	3,962
201.11	2,660	2,499	201.63	3,083	3,993
201.12	2,669	2,526	201.64	3,091	4,023
201.13	2,677	2,553	201.65	3,099	4,054
201.14	2,685	2,579	201.66	3,108	4,085
201.15	2,693	2,606	201.67	3,116	4,117
201.16	2,701	2,633	201.68	3,124	4,148
201.17	2,709	2,660	201.69	3,132	4,179
201.18	2,717	2,687	201.70	3,140	4,210
201.19	2,725	2,715	201.71	3,148	4,242
201.20	2,734	2,742	201.72	3,156	4,273
201.21	2,742	2,769	201.73	3,164	4,305
201.22	2,750	2,797	201.74	3,173	4,337
201.23	2,758	2,824	201.75	3,181	4,368
201.24	2,766	2,852	201.76	3,189	4,400
201.25	2,774	2,880	201.77	3,197	4,432
201.26	2,782	2,907	201.78	3,205	4,464
201.27	2,791	2,935	201.79	3,213	4,496
201.28	2,799	2,963	201.80	3,221	4,528
201.29	2,807	2,991	201.81	3,230	4,561
201.30	2,815	3,019	201.82	3,238	4,593
201.31	2,823	3,048	201.83	3,246	4,625
201.32	2,831	3,076	201.84	3,254	4,658
201.33	2,839	3,104	201.85	3,262	4,691
201.34	2,847	3,133	201.86	3,270	4,723
201.35	2,856	3,161	201.87	3,278	4,756
201.36	2,864	3,190	201.88	3,286	4,789
201.37	2,872	3,218	201.89	3,295	4,822
201.38	2,880	3,247	201.90	3,303	4,855
201.39	2,888	3,276	201.91	3,311	4,888
201.40	2,896	3,305	201.92	3,319	4,921
201.41	2,904	3,334	201.93	3,327	4,954
201.42	2,912	3,363	201.94	3,335	4,987
201.43	2,921	3,392	201.95	3,343	5,021
201.44	2,929	3,421	201.96	3,351	5,054
201.45	2,937	3,451	201.97	3,360	5,088
201.46	2,945	3,480	201.98	3,368	5,121
201.47	2,953	3,510	201.99	3,376	5,155
201.48	2,961	3,539	202.00	3,384	5,189
201.49	2,969	3,569	202.01	3,393	5,223
201.50	2,978	3,599	202.02	3,402	5,257
201.51	2,986	3,628	202.03	3,411	5,291
201.52	2,994	3,658	202.04	3,420	5,325
201.53	3,002	3,688	202.05	3,429	5,359
201.54	3,010	3,718	202.06	3,438	5,394
201.55	3,018	3,749	202.07	3,448	5,428

Stage-Area-Storage for Pond B-4B: Basin #4B (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
202.08	3,457	5,463	202.60	3,929	7,383
202.09	3,466	5,497	202.61	3,938	7,422
202.10	3,475	5,532	202.62	3,947	7,462
202.11	3,484	5,567	202.63	3,956	7,501
202.12	3,493	5,602	202.64	3,965	7,541
202.13	3,502	5,637	202.65	3,974	7,580
202.14	3,511	5,672	202.66	3,983	7,620
202.15	3,520	5,707	202.67	3,992	7,660
202.16	3,529	5,742	202.68	4,001	7,700
202.17	3,538	5,777	202.69	4,011	7,740
202.18	3,547	5,813	202.70	4,020	7,780
202.19	3,557	5,848	202.71	4,029	7,821
202.20	3,566	5,884	202.72	4,038	7,861
202.21	3,575	5,920	202.73	4,047	7,901
202.22	3,584	5,955	202.74	4,056	7,942
202.23	3,593	5,991	202.75	4,065	7,982
202.24	3,602	6,027	202.76	4,074	8,023
202.25	3,611	6,063	202.77	4,083	8,064
202.26	3,620	6,100	202.78	4,092	8,105
202.27	3,629	6,136	202.79	4,101	8,146
202.28	3,638	6,172	202.80	4,110	8,187
202.29	3,647	6,209	202.81	4,119	8,228
202.30	3,656	6,245	202.82	4,129	8,269
202.31	3,665	6,282	202.83	4,138	8,310
202.32	3,675	6,318	202.84	4,147	8,352
202.33	3,684	6,355	202.85	4,156	8,393
202.34	3,693	6,392	202.86	4,165	8,435
202.35	3,702	6,429	202.87	4,174	8,477
202.36	3,711	6,466	202.88	4,183	8,518
202.37	3,720	6,503	202.89	4,192	8,560
202.38	3,729	6,540	202.90	4,201	8,602
202.39	3,738	6,578	202.91	4,210	8,644
202.40	3,747	6,615	202.92	4,219	8,687
202.41	3,756	6,653	202.93	4,228	8,729
202.42	3,765	6,690	202.94	4,238	8,771
202.43	3,774	6,728	202.95	4,247	8,814
202.44	3,784	6,766	202.96	4,256	8,856
202.45	3,793	6,804	202.97	4,265	8,899
202.46	3,802	6,842	202.98	4,274	8,941
202.47	3,811	6,880	202.99	4,283	8,984
202.48	3,820	6,918	203.00	4,292	9,027
202.49	3,829	6,956	203.01	4,302	9,070
202.50	3,838	6,995	203.02	4,312	9,113
202.51	3,847	7,033	203.03	4,322	9,156
202.52	3,856	7,071	203.04	4,332	9,199
202.53	3,865	7,110	203.05	4,342	9,243
202.54	3,874	7,149	203.06	4,352	9,286
202.55	3,883	7,188	203.07	4,362	9,330
202.56	3,892	7,226	203.08	4,372	9,374
202.57	3,902	7,265	203.09	4,382	9,417
202.58	3,911	7,304	203.10	4,392	9,461
202.59	3,920	7,344	203.11	4,402	9,505

Stage-Area-Storage for Pond B-4B: Basin #4B (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
203.12	4,412	9,549	203.64	4,933	11,979
203.13	4,422	9,593	203.65	4,943	12,028
203.14	4,432	9,638	203.66	4,953	12,078
203.15	4,442	9,682	203.67	4,963	12,128
203.16	4,452	9,727	203.68	4,973	12,177
203.17	4,462	9,771	203.69	4,983	12,227
203.18	4,472	9,816	203.70	4,993	12,277
203.19	4,482	9,861	203.71	5,003	12,327
203.20	4,492	9,905	203.72	5,013	12,377
203.21	4,502	9,950	203.73	5,023	12,427
203.22	4,512	9,995	203.74	5,033	12,477
203.23	4,522	10,041	203.75	5,044	12,528
203.24	4,532	10,086	203.76	5,054	12,578
203.25	4,543	10,131	203.77	5,064	12,629
203.26	4,553	10,177	203.78	5,074	12,680
203.27	4,563	10,222	203.79	5,084	12,730
203.28	4,573	10,268	203.80	5,094	12,781
203.29	4,583	10,314	203.81	5,104	12,832
203.30	4,593	10,360	203.82	5,114	12,883
203.31	4,603	10,406	203.83	5,124	12,934
203.32	4,613	10,452	203.84	5,134	12,986
203.33	4,623	10,498	203.85	5,144	13,037
203.34	4,633	10,544	203.86	5,154	13,089
203.35	4,643	10,591	203.87	5,164	13,140
203.36	4,653	10,637	203.88	5,174	13,192
203.37	4,663	10,684	203.89	5,184	13,244
203.38	4,673	10,730	203.90	5,194	13,296
203.39	4,683	10,777	203.91	5,204	13,348
203.40	4,693	10,824	203.92	5,214	13,400
203.41	4,703	10,871	203.93	5,224	13,452
203.42	4,713	10,918	203.94	5,234	13,504
203.43	4,723	10,965	203.95	5,244	13,557
203.44	4,733	11,012	203.96	5,254	13,609
203.45	4,743	11,060	203.97	5,264	13,662
203.46	4,753	11,107	203.98	5,274	13,714
203.47	4,763	11,155	203.99	5,284	13,767
203.48	4,773	11,203	204.00	5,294	13,820
203.49	4,783	11,250	204.01	5,305	13,873
203.50	4,793	11,298	204.02	5,316	13,926
203.51	4,803	11,346	204.03	5,327	13,979
203.52	4,813	11,394	204.04	5,338	14,033
203.53	4,823	11,442	204.05	5,349	14,086
203.54	4,833	11,491	204.06	5,360	14,140
203.55	4,843	11,539	204.07	5,371	14,193
203.56	4,853	11,588	204.08	5,382	14,247
203.57	4,863	11,636	204.09	5,393	14,301
203.58	4,873	11,685	204.10	5,404	14,355
203.59	4,883	11,734	204.11	5,415	14,409
203.60	4,893	11,783	204.12	5,426	14,463
203.61	4,903	11,832	204.13	5,437	14,518
203.62	4,913	11,881	204.14	5,448	14,572
203.63	4,923	11,930	204.15	5,459	14,626

Stage-Area-Storage for Pond B-4B: Basin #4B (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
204.16	5,470	14,681	204.68	6,041	17,674
204.17	5,481	14,736	204.69	6,052	17,734
204.18	5,492	14,791	204.70	6,063	17,795
204.19	5,503	14,846	204.71	6,074	17,856
204.20	5,514	14,901	204.72	6,085	17,917
204.21	5,525	14,956	204.73	6,096	17,977
204.22	5,536	15,011	204.74	6,107	18,038
204.23	5,547	15,067	204.75	6,118	18,100
204.24	5,558	15,122	204.76	6,129	18,161
204.25	5,569	15,178	204.77	6,140	18,222
204.26	5,580	15,234	204.78	6,151	18,284
204.27	5,591	15,289	204.79	6,162	18,345
204.28	5,602	15,345	204.80	6,173	18,407
204.29	5,613	15,401	204.81	6,184	18,469
204.30	5,624	15,458	204.82	6,195	18,531
204.31	5,635	15,514	204.83	6,206	18,593
204.32	5,646	15,570	204.84	6,217	18,655
204.33	5,657	15,627	204.85	6,228	18,717
204.34	5,668	15,683	204.86	6,239	18,779
204.35	5,679	15,740	204.87	6,250	18,842
204.36	5,690	15,797	204.88	6,261	18,904
204.37	5,701	15,854	204.89	6,272	18,967
204.38	5,712	15,911	204.90	6,283	19,030
204.39	5,723	15,968	204.91	6,294	19,093
204.40	5,734	16,026	204.92	6,305	19,156
204.41	5,745	16,083	204.93	6,316	19,219
204.42	5,756	16,140	204.94	6,327	19,282
204.43	5,767	16,198	204.95	6,338	19,345
204.44	5,778	16,256	204.96	6,349	19,409
204.45	5,789	16,314	204.97	6,360	19,472
204.46	5,800	16,372	204.98	6,371	19,536
204.47	5,811	16,430	204.99	6,382	19,600
204.48	5,822	16,488	205.00	6,393	19,664
204.49	5,833	16,546	205.01	6,404	19,727
204.50	5,844	16,604	205.02	6,415	19,792
204.51	5,854	16,663	205.03	6,425	19,856
204.52	5,865	16,721	205.04	6,436	19,920
204.53	5,876	16,780	205.05	6,447	19,985
204.54	5,887	16,839	205.06	6,458	20,049
204.55	5,898	16,898	205.07	6,469	20,114
204.56	5,909	16,957	205.08	6,480	20,178
204.57	5,920	17,016	205.09	6,490	20,243
204.58	5,931	17,075	205.10	6,501	20,308
204.59	5,942	17,135	205.11	6,512	20,373
204.60	5,953	17,194	205.12	6,523	20,438
204.61	5,964	17,254	205.13	6,534	20,504
204.62	5,975	17,314	205.14	6,544	20,569
204.63	5,986	17,373	205.15	6,555	20,635
204.64	5,997	17,433	205.16	6,566	20,700
204.65	6,008	17,493	205.17	6,577	20,766
204.66	6,019	17,553	205.18	6,588	20,832
204.67	6,030	17,614	205.19	6,599	20,898

Stage-Area-Storage for Pond B-4B: Basin #4B (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
205.20	6,609	20,964
205.21	6,620	21,030
205.22	6,631	21,096
205.23	6,642	21,163
205.24	6,653	21,229
205.25	6,664	21,296
205.26	6,674	21,362
205.27	6,685	21,429
205.28	6,696	21,496
205.29	6,707	21,563
205.30	6,718	21,630
205.31	6,728	21,697
205.32	6,739	21,765
205.33	6,750	21,832
205.34	6,761	21,900
205.35	6,772	21,967
205.36	6,783	22,035
205.37	6,793	22,103
205.38	6,804	22,171
205.39	6,815	22,239
205.40	6,826	22,307
205.41	6,837	22,376
205.42	6,847	22,444
205.43	6,858	22,513
205.44	6,869	22,581
205.45	6,880	22,650
205.46	6,891	22,719
205.47	6,902	22,788
205.48	6,912	22,857
205.49	6,923	22,926
205.50	6,934	22,995

Summary for Pond B-5: Basin #5

Inflow Area = 5.341 ac, 32.20% Impervious, Inflow Depth = 1.65" for Future 10 yr event
 Inflow = 2.38 cfs @ 13.10 hrs, Volume= 0.733 af
 Outflow = 0.62 cfs @ 16.59 hrs, Volume= 0.560 af, Atten= 74%, Lag= 209.4 min
 Primary = 0.62 cfs @ 16.59 hrs, Volume= 0.560 af
 Routed to Link PDA-1 : Proposed Drainage Area #1

Routing by Stor-Ind method, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 Peak Elev= 201.35' @ 16.59 hrs Surf.Area= 13,225 sf Storage= 16,802 cf

Plug-Flow detention time= 533.3 min calculated for 0.560 af (76% of inflow)
 Center-of-Mass det. time= 437.1 min (1,390.6 - 953.5)

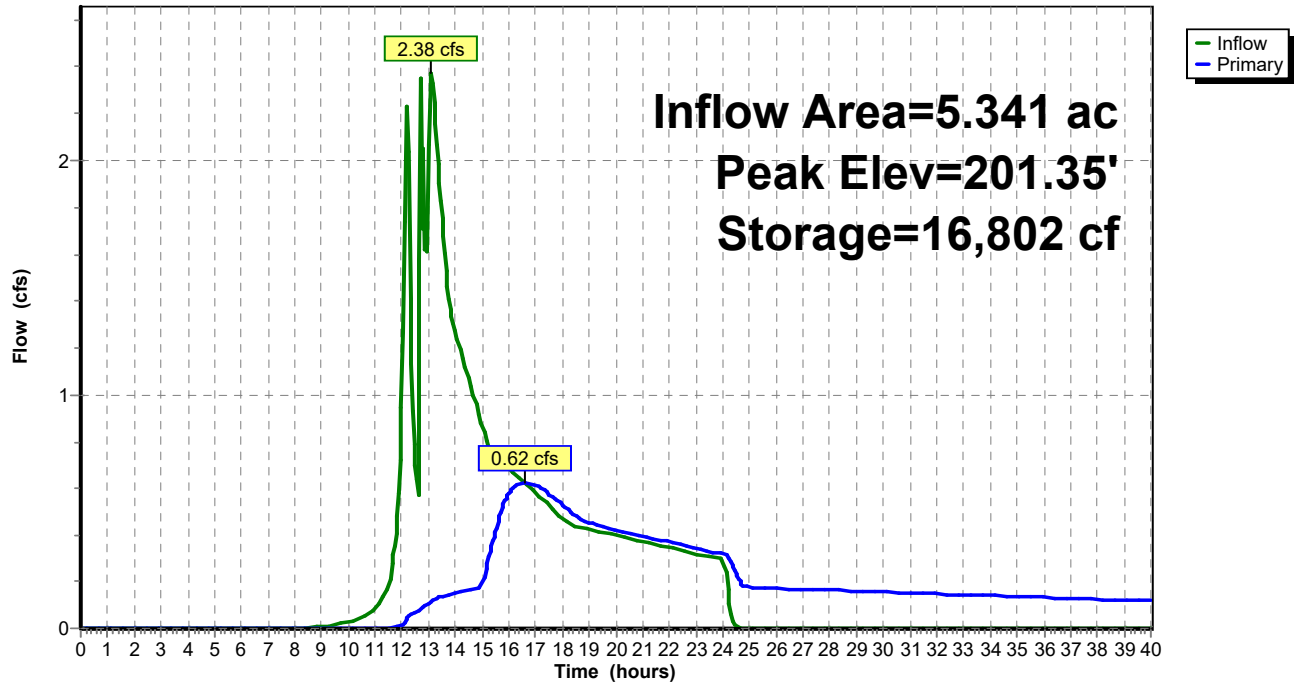
Volume	Invert	Avail.Storage	Storage Description
#1	200.00'	91,976 cf	Custom Stage Data (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
200.00	11,631	0	0
201.00	12,798	12,215	12,215
202.00	14,009	13,404	25,618
203.00	15,262	14,636	40,254
204.00	16,558	15,910	56,164
205.00	17,896	17,227	73,391
206.00	19,275	18,586	91,976

Device	Routing	Invert	Outlet Devices
#1	Primary	198.65'	18.0" Round Culvert L= 70.0' Ke= 0.500 Inlet / Outlet Invert= 198.65' / 196.00' S= 0.0379 '/' Cc= 0.900 n= 0.013, Flow Area= 1.77 sf
#2	Device 1	200.02'	2.5" Vert. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#3	Device 1	201.25'	4.0' long Sharp-Crested Rectangular Weir 2 End Contraction(s)
#4	Primary	205.00'	50.0' long + 3.0 '/' SideZ x 5.0' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 Coef. (English) 2.34 2.50 2.70 2.68 2.68 2.66 2.65 2.65 2.65 2.65 2.67 2.66 2.68 2.70 2.74 2.79 2.88

Primary OutFlow Max=0.61 cfs @ 16.59 hrs HW=201.35' (Free Discharge)

1=Culvert (Passes 0.61 cfs of 11.89 cfs potential flow)
 2=Orifice/Grate (Orifice Controls 0.18 cfs @ 5.34 fps)
 3=Sharp-Crested Rectangular Weir (Weir Controls 0.43 cfs @ 1.05 fps)
 4=Broad-Crested Rectangular Weir (Controls 0.00 cfs)

Pond B-5: Basin #5**Hydrograph**

Stage-Discharge for Pond B-5: Basin #5

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
200.00	0.00	200.52	0.10	201.04	0.16	201.56	2.42
200.01	0.00	200.53	0.10	201.05	0.16	201.57	2.53
200.02	0.00	200.54	0.11	201.06	0.16	201.58	2.64
200.03	0.00	200.55	0.11	201.07	0.16	201.59	2.75
200.04	0.00	200.56	0.11	201.08	0.16	201.60	2.86
200.05	0.00	200.57	0.11	201.09	0.16	201.61	2.97
200.06	0.00	200.58	0.11	201.10	0.16	201.62	3.09
200.07	0.00	200.59	0.11	201.11	0.16	201.63	3.21
200.08	0.01	200.60	0.11	201.12	0.16	201.64	3.33
200.09	0.01	200.61	0.11	201.13	0.16	201.65	3.45
200.10	0.01	200.62	0.12	201.14	0.17	201.66	3.57
200.11	0.01	200.63	0.12	201.15	0.17	201.67	3.69
200.12	0.02	200.64	0.12	201.16	0.17	201.68	3.81
200.13	0.02	200.65	0.12	201.17	0.17	201.69	3.94
200.14	0.02	200.66	0.12	201.18	0.17	201.70	4.07
200.15	0.03	200.67	0.12	201.19	0.17	201.71	4.19
200.16	0.03	200.68	0.12	201.20	0.17	201.72	4.32
200.17	0.03	200.69	0.12	201.21	0.17	201.73	4.45
200.18	0.04	200.70	0.12	201.22	0.17	201.74	4.59
200.19	0.04	200.71	0.13	201.23	0.17	201.75	4.72
200.20	0.05	200.72	0.13	201.24	0.17	201.76	4.85
200.21	0.05	200.73	0.13	201.25	0.17	201.77	4.99
200.22	0.05	200.74	0.13	201.26	0.19	201.78	5.12
200.23	0.05	200.75	0.13	201.27	0.21	201.79	5.26
200.24	0.06	200.76	0.13	201.28	0.24	201.80	5.40
200.25	0.06	200.77	0.13	201.29	0.28	201.81	5.54
200.26	0.06	200.78	0.13	201.30	0.32	201.82	5.68
200.27	0.06	200.79	0.13	201.31	0.37	201.83	5.82
200.28	0.06	200.80	0.13	201.32	0.42	201.84	5.97
200.29	0.07	200.81	0.14	201.33	0.48	201.85	6.11
200.30	0.07	200.82	0.14	201.34	0.53	201.86	6.26
200.31	0.07	200.83	0.14	201.35	0.59	201.87	6.40
200.32	0.07	200.84	0.14	201.36	0.66	201.88	6.55
200.33	0.07	200.85	0.14	201.37	0.72	201.89	6.70
200.34	0.08	200.86	0.14	201.38	0.79	201.90	6.85
200.35	0.08	200.87	0.14	201.39	0.87	201.91	7.00
200.36	0.08	200.88	0.14	201.40	0.94	201.92	7.15
200.37	0.08	200.89	0.14	201.41	1.02	201.93	7.31
200.38	0.08	200.90	0.14	201.42	1.10	201.94	7.46
200.39	0.08	200.91	0.15	201.43	1.18	201.95	7.61
200.40	0.09	200.92	0.15	201.44	1.26	201.96	7.77
200.41	0.09	200.93	0.15	201.45	1.35	201.97	7.93
200.42	0.09	200.94	0.15	201.46	1.44	201.98	8.08
200.43	0.09	200.95	0.15	201.47	1.53	201.99	8.24
200.44	0.09	200.96	0.15	201.48	1.62	202.00	8.40
200.45	0.09	200.97	0.15	201.49	1.71	202.01	8.56
200.46	0.10	200.98	0.15	201.50	1.81	202.02	8.72
200.47	0.10	200.99	0.15	201.51	1.90	202.03	8.89
200.48	0.10	201.00	0.15	201.52	2.00	202.04	9.05
200.49	0.10	201.01	0.15	201.53	2.11	202.05	9.21
200.50	0.10	201.02	0.16	201.54	2.21	202.06	9.38
200.51	0.10	201.03	0.16	201.55	2.31	202.07	9.54

Stage-Discharge for Pond B-5: Basin #5 (continued)

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
202.08	9.71	202.60	15.22	203.12	16.41	203.64	17.52
202.09	9.88	202.61	15.24	203.13	16.43	203.65	17.54
202.10	10.05	202.62	15.27	203.14	16.46	203.66	17.56
202.11	10.21	202.63	15.29	203.15	16.48	203.67	17.58
202.12	10.38	202.64	15.32	203.16	16.50	203.68	17.60
202.13	10.56	202.65	15.34	203.17	16.52	203.69	17.62
202.14	10.73	202.66	15.36	203.18	16.54	203.70	17.64
202.15	10.90	202.67	15.39	203.19	16.56	203.71	17.66
202.16	11.07	202.68	15.41	203.20	16.59	203.72	17.69
202.17	11.25	202.69	15.43	203.21	16.61	203.73	17.71
202.18	11.42	202.70	15.46	203.22	16.63	203.74	17.73
202.19	11.60	202.71	15.48	203.23	16.65	203.75	17.75
202.20	11.77	202.72	15.50	203.24	16.67	203.76	17.77
202.21	11.95	202.73	15.53	203.25	16.70	203.77	17.79
202.22	12.13	202.74	15.55	203.26	16.72	203.78	17.81
202.23	12.31	202.75	15.57	203.27	16.74	203.79	17.83
202.24	12.49	202.76	15.60	203.28	16.76	203.80	17.85
202.25	12.67	202.77	15.62	203.29	16.78	203.81	17.87
202.26	12.85	202.78	15.64	203.30	16.80	203.82	17.89
202.27	13.03	202.79	15.67	203.31	16.82	203.83	17.91
202.28	13.21	202.80	15.69	203.32	16.85	203.84	17.93
202.29	13.39	202.81	15.71	203.33	16.87	203.85	17.95
202.30	13.58	202.82	15.74	203.34	16.89	203.86	17.97
202.31	13.76	202.83	15.76	203.35	16.91	203.87	17.99
202.32	13.95	202.84	15.78	203.36	16.93	203.88	18.01
202.33	14.13	202.85	15.80	203.37	16.95	203.89	18.03
202.34	14.32	202.86	15.83	203.38	16.97	203.90	18.05
202.35	14.51	202.87	15.85	203.39	17.00	203.91	18.07
202.36	14.64	202.88	15.87	203.40	17.02	203.92	18.09
202.37	14.66	202.89	15.90	203.41	17.04	203.93	18.11
202.38	14.69	202.90	15.92	203.42	17.06	203.94	18.13
202.39	14.71	202.91	15.94	203.43	17.08	203.95	18.15
202.40	14.74	202.92	15.96	203.44	17.10	203.96	18.17
202.41	14.76	202.93	15.99	203.45	17.12	203.97	18.19
202.42	14.79	202.94	16.01	203.46	17.14	203.98	18.21
202.43	14.81	202.95	16.03	203.47	17.17	203.99	18.23
202.44	14.84	202.96	16.05	203.48	17.19	204.00	18.25
202.45	14.86	202.97	16.08	203.49	17.21	204.01	18.27
202.46	14.88	202.98	16.10	203.50	17.23	204.02	18.29
202.47	14.91	202.99	16.12	203.51	17.25	204.03	18.31
202.48	14.93	203.00	16.14	203.52	17.27	204.04	18.33
202.49	14.96	203.01	16.17	203.53	17.29	204.05	18.35
202.50	14.98	203.02	16.19	203.54	17.31	204.06	18.37
202.51	15.01	203.03	16.21	203.55	17.33	204.07	18.39
202.52	15.03	203.04	16.23	203.56	17.35	204.08	18.41
202.53	15.05	203.05	16.26	203.57	17.38	204.09	18.43
202.54	15.08	203.06	16.28	203.58	17.40	204.10	18.45
202.55	15.10	203.07	16.30	203.59	17.42	204.11	18.47
202.56	15.13	203.08	16.32	203.60	17.44	204.12	18.49
202.57	15.15	203.09	16.34	203.61	17.46	204.13	18.51
202.58	15.17	203.10	16.37	203.62	17.48	204.14	18.52
202.59	15.20	203.11	16.39	203.63	17.50	204.15	18.54

Stage-Discharge for Pond B-5: Basin #5 (continued)

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
204.16	18.56	204.68	19.55	205.20	31.06	205.72	106.34
204.17	18.58	204.69	19.57	205.21	31.92	205.73	108.14
204.18	18.60	204.70	19.59	205.22	32.81	205.74	109.95
204.19	18.62	204.71	19.61	205.23	33.73	205.75	111.78
204.20	18.64	204.72	19.63	205.24	34.67	205.76	113.62
204.21	18.66	204.73	19.64	205.25	35.63	205.77	115.47
204.22	18.68	204.74	19.66	205.26	36.62	205.78	117.33
204.23	18.70	204.75	19.68	205.27	37.64	205.79	119.20
204.24	18.72	204.76	19.70	205.28	38.68	205.80	121.09
204.25	18.74	204.77	19.72	205.29	39.75	205.81	123.03
204.26	18.76	204.78	19.74	205.30	40.84	205.82	124.98
204.27	18.78	204.79	19.75	205.31	41.95	205.83	126.94
204.28	18.80	204.80	19.77	205.32	43.09	205.84	128.92
204.29	18.82	204.81	19.79	205.33	44.25	205.85	130.90
204.30	18.83	204.82	19.81	205.34	45.44	205.86	132.91
204.31	18.85	204.83	19.83	205.35	46.65	205.87	134.92
204.32	18.87	204.84	19.85	205.36	47.89	205.88	136.95
204.33	18.89	204.85	19.86	205.37	49.15	205.89	138.99
204.34	18.91	204.86	19.88	205.38	50.43	205.90	141.05
204.35	18.93	204.87	19.90	205.39	51.74	205.91	143.11
204.36	18.95	204.88	19.92	205.40	53.07	205.92	145.19
204.37	18.97	204.89	19.94	205.41	54.46	205.93	147.29
204.38	18.99	204.90	19.95	205.42	55.86	205.94	149.39
204.39	19.01	204.91	19.97	205.43	57.30	205.95	151.51
204.40	19.03	204.92	19.99	205.44	58.76	205.96	153.64
204.41	19.05	204.93	20.01	205.45	60.25	205.97	155.79
204.42	19.06	204.94	20.03	205.46	61.76	205.98	157.94
204.43	19.08	204.95	20.05	205.47	63.30	205.99	160.11
204.44	19.10	204.96	20.06	205.48	64.87	206.00	162.29
204.45	19.12	204.97	20.08	205.49	66.46		
204.46	19.14	204.98	20.10	205.50	68.08		
204.47	19.16	204.99	20.12	205.51	69.73		
204.48	19.18	205.00	20.14	205.52	71.40		
204.49	19.20	205.01	20.27	205.53	73.10		
204.50	19.22	205.02	20.50	205.54	74.82		
204.51	19.23	205.03	20.80	205.55	76.57		
204.52	19.25	205.04	21.14	205.56	78.35		
204.53	19.27	205.05	21.54	205.57	80.16		
204.54	19.29	205.06	21.97	205.58	81.99		
204.55	19.31	205.07	22.44	205.59	83.85		
204.56	19.33	205.08	22.94	205.60	85.74		
204.57	19.35	205.09	23.47	205.61	87.38		
204.58	19.37	205.10	24.03	205.62	89.04		
204.59	19.38	205.11	24.62	205.63	90.71		
204.60	19.40	205.12	25.24	205.64	92.39		
204.61	19.42	205.13	25.89	205.65	94.09		
204.62	19.44	205.14	26.56	205.66	95.80		
204.63	19.46	205.15	27.25	205.67	97.53		
204.64	19.48	205.16	27.97	205.68	99.26		
204.65	19.50	205.17	28.71	205.69	101.01		
204.66	19.51	205.18	29.47	205.70	102.78		
204.67	19.53	205.19	30.25	205.71	104.55		

Stage-Area-Storage for Pond B-5: Basin #5

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
200.00	11,631	0	200.52	12,238	6,206
200.01	11,643	116	200.53	12,250	6,328
200.02	11,654	233	200.54	12,261	6,451
200.03	11,666	349	200.55	12,273	6,574
200.04	11,678	466	200.56	12,285	6,696
200.05	11,689	583	200.57	12,296	6,819
200.06	11,701	700	200.58	12,308	6,942
200.07	11,713	817	200.59	12,320	7,065
200.08	11,724	934	200.60	12,331	7,189
200.09	11,736	1,052	200.61	12,343	7,312
200.10	11,748	1,169	200.62	12,355	7,436
200.11	11,759	1,286	200.63	12,366	7,559
200.12	11,771	1,404	200.64	12,378	7,683
200.13	11,783	1,522	200.65	12,390	7,807
200.14	11,794	1,640	200.66	12,401	7,931
200.15	11,806	1,758	200.67	12,413	8,055
200.16	11,818	1,876	200.68	12,425	8,179
200.17	11,829	1,994	200.69	12,436	8,303
200.18	11,841	2,112	200.70	12,448	8,428
200.19	11,853	2,231	200.71	12,460	8,552
200.20	11,864	2,350	200.72	12,471	8,677
200.21	11,876	2,468	200.73	12,483	8,802
200.22	11,888	2,587	200.74	12,495	8,926
200.23	11,899	2,706	200.75	12,506	9,051
200.24	11,911	2,825	200.76	12,518	9,177
200.25	11,923	2,944	200.77	12,530	9,302
200.26	11,934	3,064	200.78	12,541	9,427
200.27	11,946	3,183	200.79	12,553	9,553
200.28	11,958	3,302	200.80	12,565	9,678
200.29	11,969	3,422	200.81	12,576	9,804
200.30	11,981	3,542	200.82	12,588	9,930
200.31	11,993	3,662	200.83	12,600	10,056
200.32	12,004	3,782	200.84	12,611	10,182
200.33	12,016	3,902	200.85	12,623	10,308
200.34	12,028	4,022	200.86	12,635	10,434
200.35	12,039	4,142	200.87	12,646	10,561
200.36	12,051	4,263	200.88	12,658	10,687
200.37	12,063	4,383	200.89	12,670	10,814
200.38	12,074	4,504	200.90	12,681	10,941
200.39	12,086	4,625	200.91	12,693	11,067
200.40	12,098	4,746	200.92	12,705	11,194
200.41	12,109	4,867	200.93	12,716	11,321
200.42	12,121	4,988	200.94	12,728	11,449
200.43	12,133	5,109	200.95	12,740	11,576
200.44	12,144	5,231	200.96	12,751	11,704
200.45	12,156	5,352	200.97	12,763	11,831
200.46	12,168	5,474	200.98	12,775	11,959
200.47	12,179	5,595	200.99	12,786	12,087
200.48	12,191	5,717	201.00	12,798	12,215
200.49	12,203	5,839	201.01	12,810	12,343
200.50	12,215	5,961	201.02	12,822	12,471
200.51	12,226	6,084	201.03	12,834	12,599

Stage-Area-Storage for Pond B-5: Basin #5 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
201.04	12,846	12,727	201.56	13,476	19,571
201.05	12,859	12,856	201.57	13,488	19,706
201.06	12,871	12,985	201.58	13,500	19,841
201.07	12,883	13,113	201.59	13,512	19,976
201.08	12,895	13,242	201.60	13,525	20,111
201.09	12,907	13,371	201.61	13,537	20,247
201.10	12,919	13,500	201.62	13,549	20,382
201.11	12,931	13,630	201.63	13,561	20,518
201.12	12,943	13,759	201.64	13,573	20,653
201.13	12,955	13,888	201.65	13,585	20,789
201.14	12,968	14,018	201.66	13,597	20,925
201.15	12,980	14,148	201.67	13,609	21,061
201.16	12,992	14,278	201.68	13,621	21,197
201.17	13,004	14,408	201.69	13,634	21,333
201.18	13,016	14,538	201.70	13,646	21,470
201.19	13,028	14,668	201.71	13,658	21,606
201.20	13,040	14,798	201.72	13,670	21,743
201.21	13,052	14,929	201.73	13,682	21,880
201.22	13,064	15,059	201.74	13,694	22,017
201.23	13,077	15,190	201.75	13,706	22,154
201.24	13,089	15,321	201.76	13,718	22,291
201.25	13,101	15,452	201.77	13,730	22,428
201.26	13,113	15,583	201.78	13,743	22,565
201.27	13,125	15,714	201.79	13,755	22,703
201.28	13,137	15,845	201.80	13,767	22,840
201.29	13,149	15,977	201.81	13,779	22,978
201.30	13,161	16,108	201.82	13,791	23,116
201.31	13,173	16,240	201.83	13,803	23,254
201.32	13,186	16,372	201.84	13,815	23,392
201.33	13,198	16,504	201.85	13,827	23,530
201.34	13,210	16,636	201.86	13,839	23,669
201.35	13,222	16,768	201.87	13,852	23,807
201.36	13,234	16,900	201.88	13,864	23,946
201.37	13,246	17,033	201.89	13,876	24,084
201.38	13,258	17,165	201.90	13,888	24,223
201.39	13,270	17,298	201.91	13,900	24,362
201.40	13,282	17,431	201.92	13,912	24,501
201.41	13,295	17,563	201.93	13,924	24,640
201.42	13,307	17,696	201.94	13,936	24,780
201.43	13,319	17,830	201.95	13,948	24,919
201.44	13,331	17,963	201.96	13,961	25,059
201.45	13,343	18,096	201.97	13,973	25,198
201.46	13,355	18,230	201.98	13,985	25,338
201.47	13,367	18,363	201.99	13,997	25,478
201.48	13,379	18,497	202.00	14,009	25,618
201.49	13,391	18,631	202.01	14,022	25,758
201.50	13,404	18,765	202.02	14,034	25,898
201.51	13,416	18,899	202.03	14,047	26,039
201.52	13,428	19,033	202.04	14,059	26,179
201.53	13,440	19,168	202.05	14,072	26,320
201.54	13,452	19,302	202.06	14,084	26,461
201.55	13,464	19,437	202.07	14,097	26,602

Stage-Area-Storage for Pond B-5: Basin #5 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
202.08	14,109	26,743	202.60	14,761	34,249
202.09	14,122	26,884	202.61	14,773	34,397
202.10	14,134	27,025	202.62	14,786	34,544
202.11	14,147	27,167	202.63	14,798	34,692
202.12	14,159	27,308	202.64	14,811	34,840
202.13	14,172	27,450	202.65	14,823	34,989
202.14	14,184	27,592	202.66	14,836	35,137
202.15	14,197	27,733	202.67	14,849	35,285
202.16	14,209	27,875	202.68	14,861	35,434
202.17	14,222	28,018	202.69	14,874	35,582
202.18	14,235	28,160	202.70	14,886	35,731
202.19	14,247	28,302	202.71	14,899	35,880
202.20	14,260	28,445	202.72	14,911	36,029
202.21	14,272	28,588	202.73	14,924	36,178
202.22	14,285	28,730	202.74	14,936	36,328
202.23	14,297	28,873	202.75	14,949	36,477
202.24	14,310	29,016	202.76	14,961	36,627
202.25	14,322	29,159	202.77	14,974	36,776
202.26	14,335	29,303	202.78	14,986	36,926
202.27	14,347	29,446	202.79	14,999	37,076
202.28	14,360	29,590	202.80	15,011	37,226
202.29	14,372	29,733	202.81	15,024	37,376
202.30	14,385	29,877	202.82	15,036	37,527
202.31	14,397	30,021	202.83	15,049	37,677
202.32	14,410	30,165	202.84	15,062	37,828
202.33	14,422	30,309	202.85	15,074	37,978
202.34	14,435	30,453	202.86	15,087	38,129
202.35	14,448	30,598	202.87	15,099	38,280
202.36	14,460	30,742	202.88	15,112	38,431
202.37	14,473	30,887	202.89	15,124	38,582
202.38	14,485	31,032	202.90	15,137	38,734
202.39	14,498	31,177	202.91	15,149	38,885
202.40	14,510	31,322	202.92	15,162	39,037
202.41	14,523	31,467	202.93	15,174	39,188
202.42	14,535	31,612	202.94	15,187	39,340
202.43	14,548	31,758	202.95	15,199	39,492
202.44	14,560	31,903	202.96	15,212	39,644
202.45	14,573	32,049	202.97	15,224	39,796
202.46	14,585	32,195	202.98	15,237	39,949
202.47	14,598	32,341	202.99	15,249	40,101
202.48	14,610	32,487	203.00	15,262	40,254
202.49	14,623	32,633	203.01	15,275	40,406
202.50	14,636	32,779	203.02	15,288	40,559
202.51	14,648	32,926	203.03	15,301	40,712
202.52	14,661	33,072	203.04	15,314	40,865
202.53	14,673	33,219	203.05	15,327	41,018
202.54	14,686	33,366	203.06	15,340	41,172
202.55	14,698	33,512	203.07	15,353	41,325
202.56	14,711	33,660	203.08	15,366	41,479
202.57	14,723	33,807	203.09	15,379	41,632
202.58	14,736	33,954	203.10	15,392	41,786
202.59	14,748	34,101	203.11	15,405	41,940

Stage-Area-Storage for Pond B-5: Basin #5 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
203.12	15,418	42,094	203.64	16,091	50,287
203.13	15,430	42,249	203.65	16,104	50,448
203.14	15,443	42,403	203.66	16,117	50,609
203.15	15,456	42,557	203.67	16,130	50,770
203.16	15,469	42,712	203.68	16,143	50,931
203.17	15,482	42,867	203.69	16,156	51,093
203.18	15,495	43,022	203.70	16,169	51,254
203.19	15,508	43,177	203.71	16,182	51,416
203.20	15,521	43,332	203.72	16,195	51,578
203.21	15,534	43,487	203.73	16,208	51,740
203.22	15,547	43,643	203.74	16,221	51,902
203.23	15,560	43,798	203.75	16,234	52,065
203.24	15,573	43,954	203.76	16,247	52,227
203.25	15,586	44,110	203.77	16,260	52,389
203.26	15,599	44,265	203.78	16,273	52,552
203.27	15,612	44,421	203.79	16,286	52,715
203.28	15,625	44,578	203.80	16,299	52,878
203.29	15,638	44,734	203.81	16,312	53,041
203.30	15,651	44,890	203.82	16,325	53,204
203.31	15,664	45,047	203.83	16,338	53,367
203.32	15,677	45,204	203.84	16,351	53,531
203.33	15,690	45,361	203.85	16,364	53,694
203.34	15,703	45,517	203.86	16,377	53,858
203.35	15,716	45,675	203.87	16,390	54,022
203.36	15,729	45,832	203.88	16,402	54,186
203.37	15,742	45,989	203.89	16,415	54,350
203.38	15,754	46,147	203.90	16,428	54,514
203.39	15,767	46,304	203.91	16,441	54,679
203.40	15,780	46,462	203.92	16,454	54,843
203.41	15,793	46,620	203.93	16,467	55,008
203.42	15,806	46,778	203.94	16,480	55,172
203.43	15,819	46,936	203.95	16,493	55,337
203.44	15,832	47,094	203.96	16,506	55,502
203.45	15,845	47,253	203.97	16,519	55,667
203.46	15,858	47,411	203.98	16,532	55,833
203.47	15,871	47,570	203.99	16,545	55,998
203.48	15,884	47,729	204.00	16,558	56,164
203.49	15,897	47,887	204.01	16,571	56,329
203.50	15,910	48,047	204.02	16,585	56,495
203.51	15,923	48,206	204.03	16,598	56,661
203.52	15,936	48,365	204.04	16,612	56,827
203.53	15,949	48,524	204.05	16,625	56,993
203.54	15,962	48,684	204.06	16,638	57,159
203.55	15,975	48,844	204.07	16,652	57,326
203.56	15,988	49,003	204.08	16,665	57,492
203.57	16,001	49,163	204.09	16,678	57,659
203.58	16,014	49,323	204.10	16,692	57,826
203.59	16,027	49,484	204.11	16,705	57,993
203.60	16,040	49,644	204.12	16,719	58,160
203.61	16,053	49,804	204.13	16,732	58,327
203.62	16,066	49,965	204.14	16,745	58,495
203.63	16,078	50,126	204.15	16,759	58,662

Stage-Area-Storage for Pond B-5: Basin #5 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
204.16	16,772	58,830	204.68	17,468	67,732
204.17	16,785	58,998	204.69	17,481	67,907
204.18	16,799	59,166	204.70	17,495	68,082
204.19	16,812	59,334	204.71	17,508	68,257
204.20	16,826	59,502	204.72	17,521	68,432
204.21	16,839	59,670	204.73	17,535	68,607
204.22	16,852	59,839	204.74	17,548	68,783
204.23	16,866	60,007	204.75	17,562	68,958
204.24	16,879	60,176	204.76	17,575	69,134
204.25	16,893	60,345	204.77	17,588	69,310
204.26	16,906	60,514	204.78	17,602	69,486
204.27	16,919	60,683	204.79	17,615	69,662
204.28	16,933	60,852	204.80	17,628	69,838
204.29	16,946	61,022	204.81	17,642	70,014
204.30	16,959	61,191	204.82	17,655	70,191
204.31	16,973	61,361	204.83	17,669	70,368
204.32	16,986	61,531	204.84	17,682	70,544
204.33	17,000	61,700	204.85	17,695	70,721
204.34	17,013	61,871	204.86	17,709	70,898
204.35	17,026	62,041	204.87	17,722	71,075
204.36	17,040	62,211	204.88	17,735	71,253
204.37	17,053	62,382	204.89	17,749	71,430
204.38	17,066	62,552	204.90	17,762	71,608
204.39	17,080	62,723	204.91	17,776	71,785
204.40	17,093	62,894	204.92	17,789	71,963
204.41	17,107	63,065	204.93	17,802	72,141
204.42	17,120	63,236	204.94	17,816	72,319
204.43	17,133	63,407	204.95	17,829	72,497
204.44	17,147	63,579	204.96	17,842	72,676
204.45	17,160	63,750	204.97	17,856	72,854
204.46	17,173	63,922	204.98	17,869	73,033
204.47	17,187	64,094	204.99	17,883	73,212
204.48	17,200	64,265	205.00	17,896	73,391
204.49	17,214	64,438	205.01	17,910	73,570
204.50	17,227	64,610	205.02	17,924	73,749
204.51	17,240	64,782	205.03	17,937	73,928
204.52	17,254	64,955	205.04	17,951	74,107
204.53	17,267	65,127	205.05	17,965	74,287
204.54	17,281	65,300	205.06	17,979	74,467
204.55	17,294	65,473	205.07	17,993	74,647
204.56	17,307	65,646	205.08	18,006	74,827
204.57	17,321	65,819	205.09	18,020	75,007
204.58	17,334	65,992	205.10	18,034	75,187
204.59	17,347	66,166	205.11	18,048	75,367
204.60	17,361	66,339	205.12	18,061	75,548
204.61	17,374	66,513	205.13	18,075	75,729
204.62	17,388	66,687	205.14	18,089	75,909
204.63	17,401	66,861	205.15	18,103	76,090
204.64	17,414	67,035	205.16	18,117	76,272
204.65	17,428	67,209	205.17	18,130	76,453
204.66	17,441	67,383	205.18	18,144	76,634
204.67	17,454	67,558	205.19	18,158	76,816

Stage-Area-Storage for Pond B-5: Basin #5 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
205.20	18,172	76,997	205.72	18,889	86,633
205.21	18,186	77,179	205.73	18,903	86,822
205.22	18,199	77,361	205.74	18,916	87,011
205.23	18,213	77,543	205.75	18,930	87,200
205.24	18,227	77,725	205.76	18,944	87,390
205.25	18,241	77,908	205.77	18,958	87,579
205.26	18,255	78,090	205.78	18,972	87,769
205.27	18,268	78,273	205.79	18,985	87,959
205.28	18,282	78,455	205.80	18,999	88,149
205.29	18,296	78,638	205.81	19,013	88,339
205.30	18,310	78,821	205.82	19,027	88,529
205.31	18,323	79,005	205.83	19,041	88,719
205.32	18,337	79,188	205.84	19,054	88,910
205.33	18,351	79,371	205.85	19,068	89,100
205.34	18,365	79,555	205.86	19,082	89,291
205.35	18,379	79,739	205.87	19,096	89,482
205.36	18,392	79,922	205.88	19,110	89,673
205.37	18,406	80,106	205.89	19,123	89,864
205.38	18,420	80,291	205.90	19,137	90,055
205.39	18,434	80,475	205.91	19,151	90,247
205.40	18,448	80,659	205.92	19,165	90,438
205.41	18,461	80,844	205.93	19,178	90,630
205.42	18,475	81,028	205.94	19,192	90,822
205.43	18,489	81,213	205.95	19,206	91,014
205.44	18,503	81,398	205.96	19,220	91,206
205.45	18,517	81,583	205.97	19,234	91,398
205.46	18,530	81,769	205.98	19,247	91,591
205.47	18,544	81,954	205.99	19,261	91,783
205.48	18,558	82,139	206.00	19,275	91,976
205.49	18,572	82,325			
205.50	18,586	82,511			
205.51	18,599	82,697			
205.52	18,613	82,883			
205.53	18,627	83,069			
205.54	18,641	83,255			
205.55	18,654	83,442			
205.56	18,668	83,628			
205.57	18,682	83,815			
205.58	18,696	84,002			
205.59	18,710	84,189			
205.60	18,723	84,376			
205.61	18,737	84,564			
205.62	18,751	84,751			
205.63	18,765	84,939			
205.64	18,779	85,126			
205.65	18,792	85,314			
205.66	18,806	85,502			
205.67	18,820	85,690			
205.68	18,834	85,879			
205.69	18,848	86,067			
205.70	18,861	86,256			
205.71	18,875	86,444			

Summary for Pond B-6: Basin #6

Inflow Area = 1.191 ac, 58.27% Impervious, Inflow Depth = 4.55" for Future 10 yr event
 Inflow = 5.38 cfs @ 12.17 hrs, Volume= 0.451 af
 Outflow = 3.18 cfs @ 12.31 hrs, Volume= 0.379 af, Atten= 41%, Lag= 8.2 min
 Primary = 3.18 cfs @ 12.31 hrs, Volume= 0.379 af
 Routed to Link PDA-1 : Proposed Drainage Area #1

Routing by Stor-Ind method, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 Peak Elev= 200.48' @ 12.31 hrs Surf.Area= 6,398 sf Storage= 8,725 cf

Plug-Flow detention time= 321.4 min calculated for 0.378 af (84% of inflow)
 Center-of-Mass det. time= 250.7 min (1,025.1 - 774.4)

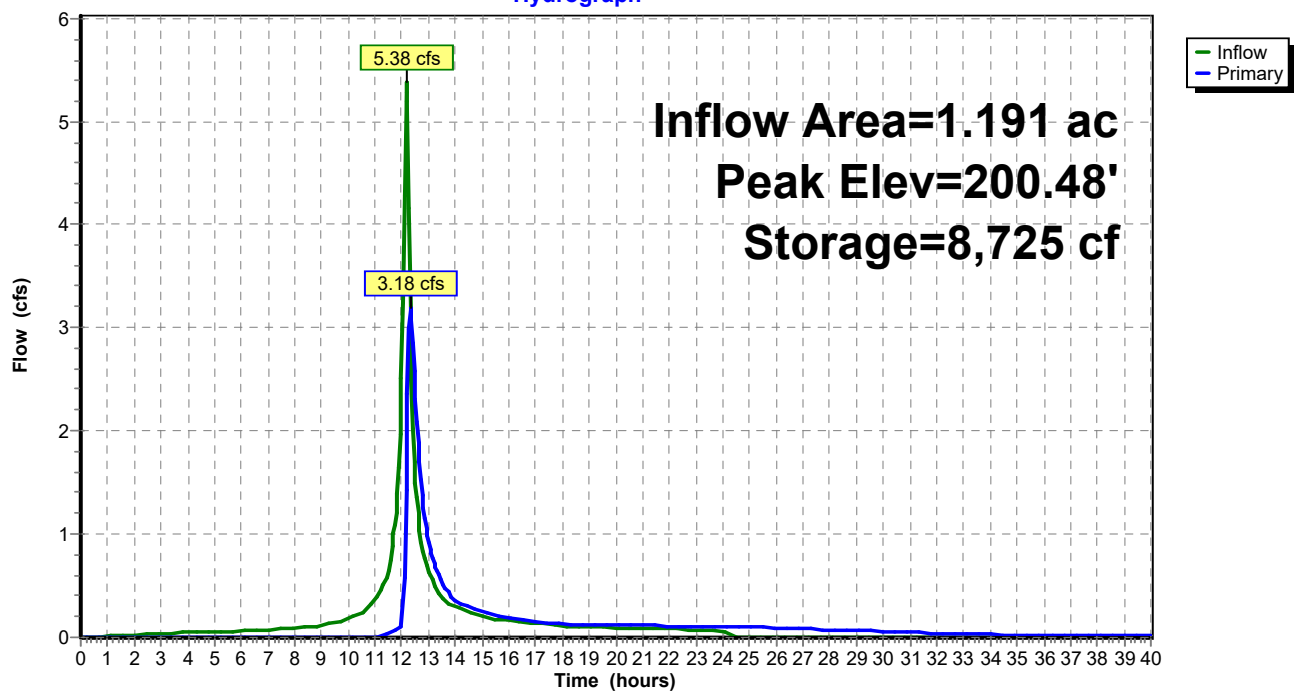
Volume	Invert	Avail.Storage	Storage Description
#1	199.00'	35,769 cf	Custom Stage Data (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
199.00	5,389	0	0
200.00	6,060	5,725	5,725
201.00	6,761	6,411	12,135
202.00	7,490	7,126	19,261
203.00	8,247	7,869	27,129
204.00	9,032	8,640	35,769

Device	Routing	Invert	Outlet Devices
#1	Primary	197.65'	18.0" Round Culvert L= 627.0' Ke= 0.500 Inlet / Outlet Invert= 197.65' / 194.00' S= 0.0058 '/' Cc= 0.900 n= 0.013, Flow Area= 1.77 sf
#2	Device 1	199.50'	2.5" Vert. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#3	Device 1	200.10'	4.0' long Sharp-Crested Rectangular Weir 2 End Contraction(s)
#4	Primary	200.89'	50.0' long + 3.0 '/' SideZ x 5.0' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 Coef. (English) 2.34 2.50 2.70 2.68 2.68 2.66 2.65 2.65 2.65 2.65 2.67 2.66 2.68 2.70 2.74 2.79 2.88

Primary OutFlow Max=3.16 cfs @ 12.31 hrs HW=200.48' (Free Discharge)

1=Culvert (Passes 3.16 cfs of 8.79 cfs potential flow)
 2=Orifice/Grate (Orifice Controls 0.15 cfs @ 4.51 fps)
 3=Sharp-Crested Rectangular Weir (Weir Controls 3.01 cfs @ 2.02 fps)
 4=Broad-Crested Rectangular Weir (Controls 0.00 cfs)

Pond B-6: Basin #6**Hydrograph**

Stage-Discharge for Pond B-6: Basin #6

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
199.00	0.00	199.52	0.00	200.04	0.11	200.56	4.15
199.01	0.00	199.53	0.00	200.05	0.11	200.57	4.28
199.02	0.00	199.54	0.00	200.06	0.11	200.58	4.41
199.03	0.00	199.55	0.00	200.07	0.11	200.59	4.54
199.04	0.00	199.56	0.01	200.08	0.11	200.60	4.67
199.05	0.00	199.57	0.01	200.09	0.11	200.61	4.81
199.06	0.00	199.58	0.01	200.10	0.12	200.62	4.94
199.07	0.00	199.59	0.01	200.11	0.13	200.63	5.08
199.08	0.00	199.60	0.02	200.12	0.15	200.64	5.22
199.09	0.00	199.61	0.02	200.13	0.19	200.65	5.36
199.10	0.00	199.62	0.02	200.14	0.22	200.66	5.50
199.11	0.00	199.63	0.03	200.15	0.27	200.67	5.64
199.12	0.00	199.64	0.03	200.16	0.31	200.68	5.78
199.13	0.00	199.65	0.03	200.17	0.36	200.69	5.92
199.14	0.00	199.66	0.04	200.18	0.42	200.70	6.07
199.15	0.00	199.67	0.04	200.19	0.48	200.71	6.21
199.16	0.00	199.68	0.05	200.20	0.54	200.72	6.36
199.17	0.00	199.69	0.05	200.21	0.60	200.73	6.51
199.18	0.00	199.70	0.05	200.22	0.67	200.74	6.66
199.19	0.00	199.71	0.05	200.23	0.74	200.75	6.81
199.20	0.00	199.72	0.06	200.24	0.81	200.76	6.96
199.21	0.00	199.73	0.06	200.25	0.89	200.77	7.11
199.22	0.00	199.74	0.06	200.26	0.96	200.78	7.26
199.23	0.00	199.75	0.06	200.27	1.04	200.79	7.42
199.24	0.00	199.76	0.06	200.28	1.12	200.80	7.57
199.25	0.00	199.77	0.07	200.29	1.21	200.81	7.73
199.26	0.00	199.78	0.07	200.30	1.30	200.82	7.88
199.27	0.00	199.79	0.07	200.31	1.38	200.83	8.04
199.28	0.00	199.80	0.07	200.32	1.47	200.84	8.20
199.29	0.00	199.81	0.07	200.33	1.57	200.85	8.36
199.30	0.00	199.82	0.08	200.34	1.66	200.86	8.52
199.31	0.00	199.83	0.08	200.35	1.76	200.87	8.68
199.32	0.00	199.84	0.08	200.36	1.85	200.88	8.84
199.33	0.00	199.85	0.08	200.37	1.95	200.89	9.01
199.34	0.00	199.86	0.08	200.38	2.06	200.90	9.27
199.35	0.00	199.87	0.08	200.39	2.16	200.91	9.49
199.36	0.00	199.88	0.09	200.40	2.26	200.92	9.78
199.37	0.00	199.89	0.09	200.41	2.37	200.93	10.11
199.38	0.00	199.90	0.09	200.42	2.48	200.94	10.50
199.39	0.00	199.91	0.09	200.43	2.59	200.95	10.92
199.40	0.00	199.92	0.09	200.44	2.70	200.96	11.38
199.41	0.00	199.93	0.09	200.45	2.81	200.97	11.87
199.42	0.00	199.94	0.10	200.46	2.93	200.98	12.39
199.43	0.00	199.95	0.10	200.47	3.04	200.99	12.95
199.44	0.00	199.96	0.10	200.48	3.16	201.00	13.53
199.45	0.00	199.97	0.10	200.49	3.28	201.01	14.14
199.46	0.00	199.98	0.10	200.50	3.40	201.02	14.77
199.47	0.00	199.99	0.10	200.51	3.52	201.03	15.43
199.48	0.00	200.00	0.10	200.52	3.64	201.04	16.12
199.49	0.00	200.01	0.10	200.53	3.77	201.05	16.82
199.50	0.00	200.02	0.11	200.54	3.89	201.06	17.55
199.51	0.00	200.03	0.11	200.55	4.02	201.07	18.31

Stage-Discharge for Pond B-6: Basin #6 (continued)

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
201.08	19.08	201.60	92.90	202.12	202.17	202.64	343.03
201.09	19.88	201.61	94.68	202.13	204.57	202.65	346.04
201.10	20.73	201.62	96.47	202.14	206.99	202.66	349.06
201.11	21.61	201.63	98.28	202.15	209.42	202.67	352.09
201.12	22.52	201.64	100.10	202.16	211.85	202.68	355.14
201.13	23.45	201.65	101.92	202.17	214.30	202.69	358.19
201.14	24.41	201.66	103.77	202.18	216.76	202.70	361.25
201.15	25.39	201.67	105.62	202.19	219.23	202.71	364.32
201.16	26.39	201.68	107.49	202.20	221.71	202.72	367.41
201.17	27.43	201.69	109.36	202.21	224.20	202.73	370.50
201.18	28.48	201.70	111.29	202.22	226.70	202.74	373.61
201.19	29.56	201.71	113.23	202.23	229.21	202.75	376.73
201.20	30.67	201.72	115.19	202.24	231.73	202.76	379.85
201.21	31.80	201.73	117.15	202.25	234.27	202.77	382.99
201.22	32.95	201.74	119.13	202.26	236.81	202.78	386.14
201.23	34.13	201.75	121.13	202.27	239.36	202.79	389.29
201.24	35.33	201.76	123.13	202.28	241.92	202.80	392.46
201.25	36.56	201.77	125.15	202.29	244.50	202.81	395.64
201.26	37.81	201.78	127.19	202.30	247.13	202.82	398.83
201.27	39.08	201.79	129.23	202.31	249.77	202.83	402.03
201.28	40.38	201.80	131.29	202.32	252.42	202.84	405.24
201.29	41.71	201.81	133.36	202.33	255.08	202.85	408.46
201.30	43.08	201.82	135.44	202.34	257.75	202.86	411.69
201.31	44.48	201.83	137.54	202.35	260.43	202.87	414.94
201.32	45.91	201.84	139.65	202.36	263.13	202.88	418.19
201.33	47.36	201.85	141.77	202.37	265.84	202.89	421.45
201.34	48.84	201.86	143.91	202.38	268.55	202.90	424.79
201.35	50.34	201.87	146.06	202.39	271.28	202.91	428.13
201.36	51.87	201.88	148.21	202.40	274.02	202.92	431.49
201.37	53.43	201.89	150.39	202.41	276.77	202.93	434.86
201.38	55.01	201.90	152.52	202.42	279.53	202.94	438.24
201.39	56.62	201.91	154.66	202.43	282.30	202.95	441.63
201.40	58.26	201.92	156.81	202.44	285.09	202.96	445.04
201.41	59.92	201.93	158.98	202.45	287.88	202.97	448.45
201.42	61.61	201.94	161.15	202.46	290.69	202.98	451.88
201.43	63.33	201.95	163.34	202.47	293.50	202.99	455.32
201.44	65.07	201.96	165.53	202.48	296.33	203.00	458.76
201.45	66.84	201.97	167.74	202.49	299.17	203.01	462.22
201.46	68.64	201.98	169.96	202.50	302.02	203.02	465.70
201.47	70.46	201.99	172.18	202.51	304.88	203.03	469.18
201.48	72.31	202.00	174.42	202.52	307.75	203.04	472.67
201.49	74.19	202.01	176.67	202.53	310.63	203.05	476.18
201.50	75.82	202.02	178.93	202.54	313.52	203.06	479.70
201.51	77.47	202.03	181.19	202.55	316.42	203.07	483.22
201.52	79.13	202.04	183.47	202.56	319.34	203.08	486.76
201.53	80.81	202.05	185.76	202.57	322.26	203.09	490.31
201.54	82.50	202.06	188.06	202.58	325.20	203.10	493.88
201.55	84.20	202.07	190.37	202.59	328.14	203.11	497.45
201.56	85.91	202.08	192.68	202.60	331.10	203.12	501.04
201.57	87.64	202.09	195.01	202.61	334.07	203.13	504.63
201.58	89.38	202.10	197.39	202.62	337.04	203.14	508.24
201.59	91.14	202.11	199.77	202.63	340.03	203.15	511.86

Stage-Discharge for Pond B-6: Basin #6 (continued)

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
203.16	515.49	203.68	715.19
203.17	519.13	203.69	719.23
203.18	522.78	203.70	723.28
203.19	526.45	203.71	727.34
203.20	530.12	203.72	731.41
203.21	533.81	203.73	735.49
203.22	537.50	203.74	739.58
203.23	541.21	203.75	743.67
203.24	544.93	203.76	747.78
203.25	548.67	203.77	751.90
203.26	552.41	203.78	756.02
203.27	556.16	203.79	760.15
203.28	559.93	203.80	764.30
203.29	563.70	203.81	768.45
203.30	567.49	203.82	772.61
203.31	571.29	203.83	776.79
203.32	575.10	203.84	780.97
203.33	578.92	203.85	785.16
203.34	582.76	203.86	789.36
203.35	586.60	203.87	793.57
203.36	590.46	203.88	797.78
203.37	594.32	203.89	802.01
203.38	598.20	203.90	806.43
203.39	602.09	203.91	810.86
203.40	605.86	203.92	815.29
203.41	609.64	203.93	819.74
203.42	613.42	203.94	824.20
203.43	617.22	203.95	828.68
203.44	621.02	203.96	833.16
203.45	624.84	203.97	837.65
203.46	628.66	203.98	842.16
203.47	632.49	203.99	846.68
203.48	636.34	204.00	851.20
203.49	640.19		
203.50	644.05		
203.51	647.92		
203.52	651.81		
203.53	655.70		
203.54	659.60		
203.55	663.51		
203.56	667.42		
203.57	671.35		
203.58	675.29		
203.59	679.24		
203.60	683.20		
203.61	687.16		
203.62	691.14		
203.63	695.12		
203.64	699.12		
203.65	703.12		
203.66	707.13		
203.67	711.16		

Stage-Area-Storage for Pond B-6: Basin #6

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
199.00	5,389	0	199.52	5,738	2,893
199.01	5,396	54	199.53	5,745	2,950
199.02	5,402	108	199.54	5,751	3,008
199.03	5,409	162	199.55	5,758	3,065
199.04	5,416	216	199.56	5,765	3,123
199.05	5,423	270	199.57	5,771	3,181
199.06	5,429	325	199.58	5,778	3,238
199.07	5,436	379	199.59	5,785	3,296
199.08	5,443	433	199.60	5,792	3,354
199.09	5,449	488	199.61	5,798	3,412
199.10	5,456	542	199.62	5,805	3,470
199.11	5,463	597	199.63	5,812	3,528
199.12	5,470	652	199.64	5,818	3,586
199.13	5,476	706	199.65	5,825	3,645
199.14	5,483	761	199.66	5,832	3,703
199.15	5,490	816	199.67	5,839	3,761
199.16	5,496	871	199.68	5,845	3,820
199.17	5,503	926	199.69	5,852	3,878
199.18	5,510	981	199.70	5,859	3,937
199.19	5,516	1,036	199.71	5,865	3,995
199.20	5,523	1,091	199.72	5,872	4,054
199.21	5,530	1,146	199.73	5,879	4,113
199.22	5,537	1,202	199.74	5,886	4,172
199.23	5,543	1,257	199.75	5,892	4,230
199.24	5,550	1,313	199.76	5,899	4,289
199.25	5,557	1,368	199.77	5,906	4,348
199.26	5,563	1,424	199.78	5,912	4,408
199.27	5,570	1,479	199.79	5,919	4,467
199.28	5,577	1,535	199.80	5,926	4,526
199.29	5,584	1,591	199.81	5,933	4,585
199.30	5,590	1,647	199.82	5,939	4,645
199.31	5,597	1,703	199.83	5,946	4,704
199.32	5,604	1,759	199.84	5,953	4,763
199.33	5,610	1,815	199.85	5,959	4,823
199.34	5,617	1,871	199.86	5,966	4,883
199.35	5,624	1,927	199.87	5,973	4,942
199.36	5,631	1,984	199.88	5,979	5,002
199.37	5,637	2,040	199.89	5,986	5,062
199.38	5,644	2,096	199.90	5,993	5,122
199.39	5,651	2,153	199.91	6,000	5,182
199.40	5,657	2,209	199.92	6,006	5,242
199.41	5,664	2,266	199.93	6,013	5,302
199.42	5,671	2,323	199.94	6,020	5,362
199.43	5,678	2,379	199.95	6,026	5,422
199.44	5,684	2,436	199.96	6,033	5,483
199.45	5,691	2,493	199.97	6,040	5,543
199.46	5,698	2,550	199.98	6,047	5,603
199.47	5,704	2,607	199.99	6,053	5,664
199.48	5,711	2,664	200.00	6,060	5,725
199.49	5,718	2,721	200.01	6,067	5,785
199.50	5,725	2,778	200.02	6,074	5,846
199.51	5,731	2,836	200.03	6,081	5,907

Stage-Area-Storage for Pond B-6: Basin #6 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
200.04	6,088	5,967	200.56	6,453	9,228
200.05	6,095	6,028	200.57	6,460	9,293
200.06	6,102	6,089	200.58	6,467	9,357
200.07	6,109	6,150	200.59	6,474	9,422
200.08	6,116	6,212	200.60	6,481	9,487
200.09	6,123	6,273	200.61	6,488	9,552
200.10	6,130	6,334	200.62	6,495	9,616
200.11	6,137	6,395	200.63	6,502	9,681
200.12	6,144	6,457	200.64	6,509	9,746
200.13	6,151	6,518	200.65	6,516	9,812
200.14	6,158	6,580	200.66	6,523	9,877
200.15	6,165	6,641	200.67	6,530	9,942
200.16	6,172	6,703	200.68	6,537	10,007
200.17	6,179	6,765	200.69	6,544	10,073
200.18	6,186	6,827	200.70	6,551	10,138
200.19	6,193	6,889	200.71	6,558	10,204
200.20	6,200	6,951	200.72	6,565	10,269
200.21	6,207	7,013	200.73	6,572	10,335
200.22	6,214	7,075	200.74	6,579	10,401
200.23	6,221	7,137	200.75	6,586	10,467
200.24	6,228	7,199	200.76	6,593	10,533
200.25	6,235	7,261	200.77	6,600	10,599
200.26	6,242	7,324	200.78	6,607	10,665
200.27	6,249	7,386	200.79	6,614	10,731
200.28	6,256	7,449	200.80	6,621	10,797
200.29	6,263	7,511	200.81	6,628	10,863
200.30	6,270	7,574	200.82	6,635	10,929
200.31	6,277	7,637	200.83	6,642	10,996
200.32	6,284	7,700	200.84	6,649	11,062
200.33	6,291	7,762	200.85	6,656	11,129
200.34	6,298	7,825	200.86	6,663	11,195
200.35	6,305	7,888	200.87	6,670	11,262
200.36	6,312	7,952	200.88	6,677	11,329
200.37	6,319	8,015	200.89	6,684	11,396
200.38	6,326	8,078	200.90	6,691	11,462
200.39	6,333	8,141	200.91	6,698	11,529
200.40	6,340	8,205	200.92	6,705	11,596
200.41	6,347	8,268	200.93	6,712	11,663
200.42	6,354	8,332	200.94	6,719	11,731
200.43	6,361	8,395	200.95	6,726	11,798
200.44	6,368	8,459	200.96	6,733	11,865
200.45	6,375	8,522	200.97	6,740	11,932
200.46	6,382	8,586	200.98	6,747	12,000
200.47	6,389	8,650	200.99	6,754	12,067
200.48	6,396	8,714	201.00	6,761	12,135
200.49	6,403	8,778	201.01	6,768	12,203
200.50	6,411	8,842	201.02	6,776	12,270
200.51	6,418	8,906	201.03	6,783	12,338
200.52	6,425	8,970	201.04	6,790	12,406
200.53	6,432	9,035	201.05	6,797	12,474
200.54	6,439	9,099	201.06	6,805	12,542
200.55	6,446	9,164	201.07	6,812	12,610

Stage-Area-Storage for Pond B-6: Basin #6 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
201.08	6,819	12,678	201.60	7,198	16,323
201.09	6,827	12,746	201.61	7,206	16,395
201.10	6,834	12,815	201.62	7,213	16,467
201.11	6,841	12,883	201.63	7,220	16,539
201.12	6,848	12,952	201.64	7,228	16,611
201.13	6,856	13,020	201.65	7,235	16,684
201.14	6,863	13,089	201.66	7,242	16,756
201.15	6,870	13,157	201.67	7,249	16,828
201.16	6,878	13,226	201.68	7,257	16,901
201.17	6,885	13,295	201.69	7,264	16,974
201.18	6,892	13,364	201.70	7,271	17,046
201.19	6,900	13,433	201.71	7,279	17,119
201.20	6,907	13,502	201.72	7,286	17,192
201.21	6,914	13,571	201.73	7,293	17,265
201.22	6,921	13,640	201.74	7,300	17,338
201.23	6,929	13,709	201.75	7,308	17,411
201.24	6,936	13,779	201.76	7,315	17,484
201.25	6,943	13,848	201.77	7,322	17,557
201.26	6,951	13,918	201.78	7,330	17,630
201.27	6,958	13,987	201.79	7,337	17,704
201.28	6,965	14,057	201.80	7,344	17,777
201.29	6,972	14,126	201.81	7,351	17,851
201.30	6,980	14,196	201.82	7,359	17,924
201.31	6,987	14,266	201.83	7,366	17,998
201.32	6,994	14,336	201.84	7,373	18,071
201.33	7,002	14,406	201.85	7,381	18,145
201.34	7,009	14,476	201.86	7,388	18,219
201.35	7,016	14,546	201.87	7,395	18,293
201.36	7,023	14,616	201.88	7,403	18,367
201.37	7,031	14,686	201.89	7,410	18,441
201.38	7,038	14,757	201.90	7,417	18,515
201.39	7,045	14,827	201.91	7,424	18,589
201.40	7,053	14,898	201.92	7,432	18,664
201.41	7,060	14,968	201.93	7,439	18,738
201.42	7,067	15,039	201.94	7,446	18,812
201.43	7,074	15,110	201.95	7,454	18,887
201.44	7,082	15,180	201.96	7,461	18,961
201.45	7,089	15,251	201.97	7,468	19,036
201.46	7,096	15,322	201.98	7,475	19,111
201.47	7,104	15,393	201.99	7,483	19,186
201.48	7,111	15,464	202.00	7,490	19,261
201.49	7,118	15,535	202.01	7,498	19,335
201.50	7,126	15,607	202.02	7,505	19,410
201.51	7,133	15,678	202.03	7,513	19,486
201.52	7,140	15,749	202.04	7,520	19,561
201.53	7,147	15,821	202.05	7,528	19,636
201.54	7,155	15,892	202.06	7,535	19,711
201.55	7,162	15,964	202.07	7,543	19,787
201.56	7,169	16,035	202.08	7,551	19,862
201.57	7,177	16,107	202.09	7,558	19,938
201.58	7,184	16,179	202.10	7,566	20,013
201.59	7,191	16,251	202.11	7,573	20,089

Stage-Area-Storage for Pond B-6: Basin #6 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
202.12	7,581	20,165	202.64	7,974	24,209
202.13	7,588	20,241	202.65	7,982	24,289
202.14	7,596	20,317	202.66	7,990	24,369
202.15	7,604	20,393	202.67	7,997	24,449
202.16	7,611	20,469	202.68	8,005	24,529
202.17	7,619	20,545	202.69	8,012	24,609
202.18	7,626	20,621	202.70	8,020	24,689
202.19	7,634	20,697	202.71	8,027	24,769
202.20	7,641	20,774	202.72	8,035	24,850
202.21	7,649	20,850	202.73	8,043	24,930
202.22	7,657	20,927	202.74	8,050	25,010
202.23	7,664	21,003	202.75	8,058	25,091
202.24	7,672	21,080	202.76	8,065	25,172
202.25	7,679	21,157	202.77	8,073	25,252
202.26	7,687	21,233	202.78	8,080	25,333
202.27	7,694	21,310	202.79	8,088	25,414
202.28	7,702	21,387	202.80	8,096	25,495
202.29	7,710	21,464	202.81	8,103	25,576
202.30	7,717	21,542	202.82	8,111	25,657
202.31	7,725	21,619	202.83	8,118	25,738
202.32	7,732	21,696	202.84	8,126	25,819
202.33	7,740	21,773	202.85	8,133	25,900
202.34	7,747	21,851	202.86	8,141	25,982
202.35	7,755	21,928	202.87	8,149	26,063
202.36	7,763	22,006	202.88	8,156	26,145
202.37	7,770	22,084	202.89	8,164	26,226
202.38	7,778	22,161	202.90	8,171	26,308
202.39	7,785	22,239	202.91	8,179	26,390
202.40	7,793	22,317	202.92	8,186	26,472
202.41	7,800	22,395	202.93	8,194	26,554
202.42	7,808	22,473	202.94	8,202	26,636
202.43	7,816	22,551	202.95	8,209	26,718
202.44	7,823	22,629	202.96	8,217	26,800
202.45	7,831	22,708	202.97	8,224	26,882
202.46	7,838	22,786	202.98	8,232	26,964
202.47	7,846	22,864	202.99	8,239	27,047
202.48	7,853	22,943	203.00	8,247	27,129
202.49	7,861	23,021	203.01	8,255	27,212
202.50	7,869	23,100	203.02	8,263	27,294
202.51	7,876	23,179	203.03	8,271	27,377
202.52	7,884	23,258	203.04	8,278	27,460
202.53	7,891	23,337	203.05	8,286	27,542
202.54	7,899	23,415	203.06	8,294	27,625
202.55	7,906	23,494	203.07	8,302	27,708
202.56	7,914	23,574	203.08	8,310	27,791
202.57	7,921	23,653	203.09	8,318	27,874
202.58	7,929	23,732	203.10	8,325	27,958
202.59	7,937	23,811	203.11	8,333	28,041
202.60	7,944	23,891	203.12	8,341	28,124
202.61	7,952	23,970	203.13	8,349	28,208
202.62	7,959	24,050	203.14	8,357	28,291
202.63	7,967	24,129	203.15	8,365	28,375

Stage-Area-Storage for Pond B-6: Basin #6 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
203.16	8,373	28,459	203.68	8,781	32,918
203.17	8,380	28,542	203.69	8,789	33,006
203.18	8,388	28,626	203.70	8,796	33,094
203.19	8,396	28,710	203.71	8,804	33,182
203.20	8,404	28,794	203.72	8,812	33,270
203.21	8,412	28,878	203.73	8,820	33,358
203.22	8,420	28,962	203.74	8,828	33,447
203.23	8,428	29,047	203.75	8,836	33,535
203.24	8,435	29,131	203.76	8,844	33,623
203.25	8,443	29,215	203.77	8,851	33,712
203.26	8,451	29,300	203.78	8,859	33,800
203.27	8,459	29,384	203.79	8,867	33,889
203.28	8,467	29,469	203.80	8,875	33,978
203.29	8,475	29,554	203.81	8,883	34,067
203.30	8,483	29,638	203.82	8,891	34,155
203.31	8,490	29,723	203.83	8,899	34,244
203.32	8,498	29,808	203.84	8,906	34,333
203.33	8,506	29,893	203.85	8,914	34,423
203.34	8,514	29,978	203.86	8,922	34,512
203.35	8,522	30,064	203.87	8,930	34,601
203.36	8,530	30,149	203.88	8,938	34,690
203.37	8,537	30,234	203.89	8,946	34,780
203.38	8,545	30,320	203.90	8,954	34,869
203.39	8,553	30,405	203.91	8,961	34,959
203.40	8,561	30,491	203.92	8,969	35,048
203.41	8,569	30,576	203.93	8,977	35,138
203.42	8,577	30,662	203.94	8,985	35,228
203.43	8,585	30,748	203.95	8,993	35,318
203.44	8,592	30,834	203.96	9,001	35,408
203.45	8,600	30,920	203.97	9,008	35,498
203.46	8,608	31,006	203.98	9,016	35,588
203.47	8,616	31,092	203.99	9,024	35,678
203.48	8,624	31,178	204.00	9,032	35,769
203.49	8,632	31,264			
203.50	8,640	31,351			
203.51	8,647	31,437			
203.52	8,655	31,524			
203.53	8,663	31,610			
203.54	8,671	31,697			
203.55	8,679	31,784			
203.56	8,687	31,870			
203.57	8,694	31,957			
203.58	8,702	32,044			
203.59	8,710	32,131			
203.60	8,718	32,218			
203.61	8,726	32,306			
203.62	8,734	32,393			
203.63	8,742	32,480			
203.64	8,749	32,568			
203.65	8,757	32,655			
203.66	8,765	32,743			
203.67	8,773	32,831			

Summary for Pond B-7: Basin #7

Inflow Area = 1.564 ac, 62.85% Impervious, Inflow Depth = 4.66" for Future 10 yr event
 Inflow = 7.21 cfs @ 12.17 hrs, Volume= 0.608 af
 Outflow = 4.03 cfs @ 12.32 hrs, Volume= 0.525 af, Atten= 44%, Lag= 8.7 min
 Primary = 4.03 cfs @ 12.32 hrs, Volume= 0.525 af
 Routed to Link PDA-1 : Proposed Drainage Area #1

Routing by Stor-Ind method, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 Peak Elev= 208.44' @ 12.32 hrs Surf.Area= 7,849 sf Storage= 11,956 cf

Plug-Flow detention time= 356.5 min calculated for 0.524 af (86% of inflow)
 Center-of-Mass det. time= 292.9 min (1,064.1 - 771.2)

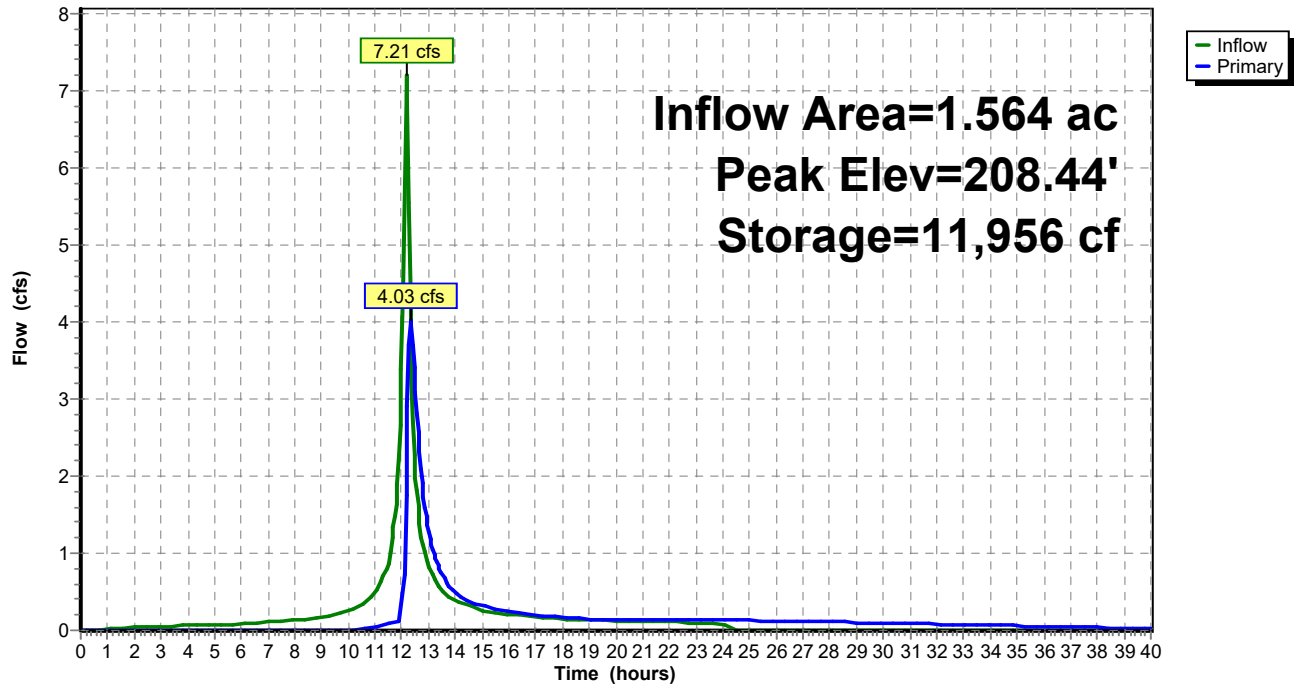
Volume	Invert	Avail.Storage	Storage Description
#1	206.47'	35,530 cf	Custom Stage Data (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
206.47	0	0	0
207.00	6,419	1,701	1,701
208.00	7,395	6,907	8,608
209.00	8,429	7,912	16,520
210.00	9,484	8,957	25,477
211.00	10,623	10,054	35,530

Device	Routing	Invert	Outlet Devices
#1	Primary	206.47'	18.0" Round Culvert L= 94.0' Ke= 0.500 Inlet / Outlet Invert= 206.47' / 206.00' S= 0.0050 '/' Cc= 0.900 n= 0.013, Flow Area= 1.77 sf
#2	Device 1	207.17'	2.5" Vert. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#3	Device 1	207.99'	4.0' long Sharp-Crested Rectangular Weir 2 End Contraction(s)
#4	Primary	208.86'	50.0' long + 3.0 ' SideZ x 5.0' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 Coef. (English) 2.34 2.50 2.70 2.68 2.68 2.66 2.65 2.65 2.65 2.65 2.67 2.66 2.68 2.70 2.74 2.79 2.88

Primary OutFlow Max=3.99 cfs @ 12.32 hrs HW=208.44' (Free Discharge)

1=Culvert (Passes 3.99 cfs of 7.95 cfs potential flow)
 2=Orifice/Grate (Orifice Controls 0.18 cfs @ 5.19 fps)
 3=Sharp-Crested Rectangular Weir (Weir Controls 3.81 cfs @ 2.18 fps)
 4=Broad-Crested Rectangular Weir (Controls 0.00 cfs)

Pond B-7: Basin #7**Hydrograph**

Stage-Discharge for Pond B-7: Basin #7

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
206.47	0.00	206.99	0.00	207.51	0.08	208.03	0.25
206.48	0.00	207.00	0.00	207.52	0.08	208.04	0.29
206.49	0.00	207.01	0.00	207.53	0.08	208.05	0.34
206.50	0.00	207.02	0.00	207.54	0.08	208.06	0.39
206.51	0.00	207.03	0.00	207.55	0.09	208.07	0.44
206.52	0.00	207.04	0.00	207.56	0.09	208.08	0.50
206.53	0.00	207.05	0.00	207.57	0.09	208.09	0.56
206.54	0.00	207.06	0.00	207.58	0.09	208.10	0.62
206.55	0.00	207.07	0.00	207.59	0.09	208.11	0.69
206.56	0.00	207.08	0.00	207.60	0.09	208.12	0.76
206.57	0.00	207.09	0.00	207.61	0.10	208.13	0.83
206.58	0.00	207.10	0.00	207.62	0.10	208.14	0.91
206.59	0.00	207.11	0.00	207.63	0.10	208.15	0.98
206.60	0.00	207.12	0.00	207.64	0.10	208.16	1.06
206.61	0.00	207.13	0.00	207.65	0.10	208.17	1.15
206.62	0.00	207.14	0.00	207.66	0.10	208.18	1.23
206.63	0.00	207.15	0.00	207.67	0.10	208.19	1.32
206.64	0.00	207.16	0.00	207.68	0.10	208.20	1.40
206.65	0.00	207.17	0.00	207.69	0.11	208.21	1.49
206.66	0.00	207.18	0.00	207.70	0.11	208.22	1.59
206.67	0.00	207.19	0.00	207.71	0.11	208.23	1.68
206.68	0.00	207.20	0.00	207.72	0.11	208.24	1.78
206.69	0.00	207.21	0.00	207.73	0.11	208.25	1.87
206.70	0.00	207.22	0.00	207.74	0.11	208.26	1.97
206.71	0.00	207.23	0.01	207.75	0.11	208.27	2.07
206.72	0.00	207.24	0.01	207.76	0.11	208.28	2.18
206.73	0.00	207.25	0.01	207.77	0.12	208.29	2.28
206.74	0.00	207.26	0.01	207.78	0.12	208.30	2.39
206.75	0.00	207.27	0.02	207.79	0.12	208.31	2.50
206.76	0.00	207.28	0.02	207.80	0.12	208.32	2.61
206.77	0.00	207.29	0.02	207.81	0.12	208.33	2.72
206.78	0.00	207.30	0.03	207.82	0.12	208.34	2.83
206.79	0.00	207.31	0.03	207.83	0.12	208.35	2.94
206.80	0.00	207.32	0.03	207.84	0.12	208.36	3.06
206.81	0.00	207.33	0.04	207.85	0.12	208.37	3.18
206.82	0.00	207.34	0.04	207.86	0.13	208.38	3.30
206.83	0.00	207.35	0.05	207.87	0.13	208.39	3.42
206.84	0.00	207.36	0.05	207.88	0.13	208.40	3.54
206.85	0.00	207.37	0.05	207.89	0.13	208.41	3.66
206.86	0.00	207.38	0.05	207.90	0.13	208.42	3.78
206.87	0.00	207.39	0.06	207.91	0.13	208.43	3.91
206.88	0.00	207.40	0.06	207.92	0.13	208.44	4.04
206.89	0.00	207.41	0.06	207.93	0.13	208.45	4.16
206.90	0.00	207.42	0.06	207.94	0.13	208.46	4.29
206.91	0.00	207.43	0.06	207.95	0.13	208.47	4.42
206.92	0.00	207.44	0.07	207.96	0.14	208.48	4.56
206.93	0.00	207.45	0.07	207.97	0.14	208.49	4.69
206.94	0.00	207.46	0.07	207.98	0.14	208.50	4.82
206.95	0.00	207.47	0.07	207.99	0.14	208.51	4.96
206.96	0.00	207.48	0.07	208.00	0.15	208.52	5.10
206.97	0.00	207.49	0.08	208.01	0.18	208.53	5.23
206.98	0.00	207.50	0.08	208.02	0.21	208.54	5.37

Stage-Discharge for Pond B-7: Basin #7 (continued)

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
208.55	5.51	209.07	21.32	209.59	98.16	210.11	209.61
208.56	5.65	209.08	22.22	209.60	99.98	210.12	212.05
208.57	5.80	209.09	23.15	209.61	101.82	210.13	214.51
208.58	5.94	209.10	24.10	209.62	103.67	210.14	216.97
208.59	6.08	209.11	25.08	209.63	105.53	210.15	219.45
208.60	6.23	209.12	26.09	209.64	107.40	210.16	221.94
208.61	6.38	209.13	27.12	209.65	109.28	210.17	224.43
208.62	6.52	209.14	28.17	209.66	111.18	210.18	226.94
208.63	6.67	209.15	29.25	209.67	113.13	210.19	229.46
208.64	6.82	209.16	30.35	209.68	115.09	210.20	231.98
208.65	6.97	209.17	31.48	209.69	117.06	210.21	234.52
208.66	7.13	209.18	32.63	209.70	119.05	210.22	237.07
208.67	7.28	209.19	33.81	209.71	121.05	210.23	239.63
208.68	7.43	209.20	35.01	209.72	123.06	210.24	242.20
208.69	7.59	209.21	36.23	209.73	125.08	210.25	244.78
208.70	7.74	209.22	37.48	209.74	127.12	210.26	247.37
208.71	7.90	209.23	38.75	209.75	129.17	210.27	250.01
208.72	8.06	209.24	40.05	209.76	131.24	210.28	252.67
208.73	8.22	209.25	41.37	209.77	133.31	210.29	255.33
208.74	8.38	209.26	42.72	209.78	135.40	210.30	258.01
208.75	8.54	209.27	44.11	209.79	137.50	210.31	260.70
208.76	8.70	209.28	45.53	209.80	139.62	210.32	263.40
208.77	8.86	209.29	46.98	209.81	141.75	210.33	266.11
208.78	8.94	209.30	48.45	209.82	143.89	210.34	268.83
208.79	8.98	209.31	49.95	209.83	146.04	210.35	271.57
208.80	9.01	209.32	51.48	209.84	148.21	210.36	274.31
208.81	9.05	209.33	53.03	209.85	150.38	210.37	277.07
208.82	9.08	209.34	54.61	209.86	152.57	210.38	279.83
208.83	9.12	209.35	56.21	209.87	154.72	210.39	282.61
208.84	9.15	209.36	57.84	209.88	156.88	210.40	285.40
208.85	9.18	209.37	59.50	209.89	159.06	210.41	288.20
208.86	9.22	209.38	61.19	209.90	161.24	210.42	291.01
208.87	9.37	209.39	62.90	209.91	163.43	210.43	293.83
208.88	9.62	209.40	64.63	209.92	165.63	210.44	296.66
208.89	9.93	209.41	66.40	209.93	167.84	210.45	299.50
208.90	10.29	209.42	68.19	209.94	170.07	210.46	302.35
208.91	10.70	209.43	70.00	209.95	172.30	210.47	305.22
208.92	11.14	209.44	71.85	209.96	174.55	210.48	308.09
208.93	11.63	209.45	73.72	209.97	176.80	210.49	310.98
208.94	12.14	209.46	75.61	209.98	179.07	210.50	313.88
208.95	12.69	209.47	77.27	209.99	181.34	210.51	316.78
208.96	13.27	209.48	78.94	210.00	183.63	210.52	319.70
208.97	13.87	209.49	80.62	210.01	185.92	210.53	322.63
208.98	14.51	209.50	82.32	210.02	188.23	210.54	325.57
208.99	15.17	209.51	84.02	210.03	190.54	210.55	328.52
209.00	15.85	209.52	85.75	210.04	192.87	210.56	331.48
209.01	16.56	209.53	87.48	210.05	195.20	210.57	334.45
209.02	17.29	209.54	89.23	210.06	197.55	210.58	337.44
209.03	18.04	209.55	90.99	210.07	199.94	210.59	340.43
209.04	18.82	209.56	92.76	210.08	202.34	210.60	343.43
209.05	19.62	209.57	94.55	210.09	204.75	210.61	346.45
209.06	20.44	209.58	96.35	210.10	207.18	210.62	349.47

Stage-Discharge for Pond B-7: Basin #7 (continued)

Elevation (feet)	Primary (cfs)
210.63	352.51
210.64	355.55
210.65	358.61
210.66	361.68
210.67	364.76
210.68	367.84
210.69	370.94
210.70	374.05
210.71	377.17
210.72	380.30
210.73	383.45
210.74	386.60
210.75	389.76
210.76	392.93
210.77	396.12
210.78	399.31
210.79	402.51
210.80	405.73
210.81	408.95
210.82	412.19
210.83	415.43
210.84	418.69
210.85	421.96
210.86	425.23
210.87	428.58
210.88	431.94
210.89	435.32
210.90	438.70
210.91	442.09
210.92	445.50
210.93	448.92
210.94	452.35
210.95	455.79
210.96	459.24
210.97	462.70
210.98	466.18
210.99	469.66
211.00	473.16

Stage-Area-Storage for Pond B-7: Basin #7

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
206.47	0	0	206.99	6,298	1,637
206.48	121	1	207.00	6,419	1,701
206.49	242	2	207.01	6,429	1,765
206.50	363	5	207.02	6,439	1,830
206.51	484	10	207.03	6,448	1,894
206.52	606	15	207.04	6,458	1,959
206.53	727	22	207.05	6,468	2,023
206.54	848	30	207.06	6,478	2,088
206.55	969	39	207.07	6,487	2,153
206.56	1,090	49	207.08	6,497	2,218
206.57	1,211	61	207.09	6,507	2,283
206.58	1,332	73	207.10	6,517	2,348
206.59	1,453	87	207.11	6,526	2,413
206.60	1,574	102	207.12	6,536	2,478
206.61	1,696	119	207.13	6,546	2,544
206.62	1,817	136	207.14	6,556	2,609
206.63	1,938	155	207.15	6,565	2,675
206.64	2,059	175	207.16	6,575	2,741
206.65	2,180	196	207.17	6,585	2,806
206.66	2,301	219	207.18	6,595	2,872
206.67	2,422	242	207.19	6,604	2,938
206.68	2,543	267	207.20	6,614	3,004
206.69	2,664	293	207.21	6,624	3,071
206.70	2,786	320	207.22	6,634	3,137
206.71	2,907	349	207.23	6,643	3,203
206.72	3,028	378	207.24	6,653	3,270
206.73	3,149	409	207.25	6,663	3,336
206.74	3,270	441	207.26	6,673	3,403
206.75	3,391	475	207.27	6,683	3,470
206.76	3,512	509	207.28	6,692	3,537
206.77	3,633	545	207.29	6,702	3,604
206.78	3,755	582	207.30	6,712	3,671
206.79	3,876	620	207.31	6,722	3,738
206.80	3,997	659	207.32	6,731	3,805
206.81	4,118	700	207.33	6,741	3,872
206.82	4,239	742	207.34	6,751	3,940
206.83	4,360	785	207.35	6,761	4,007
206.84	4,481	829	207.36	6,770	4,075
206.85	4,602	874	207.37	6,780	4,143
206.86	4,723	921	207.38	6,790	4,211
206.87	4,845	969	207.39	6,800	4,279
206.88	4,966	1,018	207.40	6,809	4,347
206.89	5,087	1,068	207.41	6,819	4,415
206.90	5,208	1,120	207.42	6,829	4,483
206.91	5,329	1,172	207.43	6,839	4,551
206.92	5,450	1,226	207.44	6,848	4,620
206.93	5,571	1,281	207.45	6,858	4,688
206.94	5,692	1,338	207.46	6,868	4,757
206.95	5,813	1,395	207.47	6,878	4,826
206.96	5,935	1,454	207.48	6,887	4,895
206.97	6,056	1,514	207.49	6,897	4,964
206.98	6,177	1,575	207.50	6,907	5,033

Stage-Area-Storage for Pond B-7: Basin #7 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
207.51	6,917	5,102	208.03	7,426	8,830
207.52	6,927	5,171	208.04	7,436	8,905
207.53	6,936	5,240	208.05	7,447	8,979
207.54	6,946	5,310	208.06	7,457	9,054
207.55	6,956	5,379	208.07	7,467	9,128
207.56	6,966	5,449	208.08	7,478	9,203
207.57	6,975	5,518	208.09	7,488	9,278
207.58	6,985	5,588	208.10	7,498	9,353
207.59	6,995	5,658	208.11	7,509	9,428
207.60	7,005	5,728	208.12	7,519	9,503
207.61	7,014	5,798	208.13	7,529	9,578
207.62	7,024	5,868	208.14	7,540	9,653
207.63	7,034	5,939	208.15	7,550	9,729
207.64	7,044	6,009	208.16	7,560	9,804
207.65	7,053	6,080	208.17	7,571	9,880
207.66	7,063	6,150	208.18	7,581	9,956
207.67	7,073	6,221	208.19	7,591	10,032
207.68	7,083	6,292	208.20	7,602	10,108
207.69	7,092	6,362	208.21	7,612	10,184
207.70	7,102	6,433	208.22	7,622	10,260
207.71	7,112	6,505	208.23	7,633	10,336
207.72	7,122	6,576	208.24	7,643	10,413
207.73	7,131	6,647	208.25	7,654	10,489
207.74	7,141	6,718	208.26	7,664	10,566
207.75	7,151	6,790	208.27	7,674	10,642
207.76	7,161	6,861	208.28	7,685	10,719
207.77	7,171	6,933	208.29	7,695	10,796
207.78	7,180	7,005	208.30	7,705	10,873
207.79	7,190	7,077	208.31	7,716	10,950
207.80	7,200	7,149	208.32	7,726	11,027
207.81	7,210	7,221	208.33	7,736	11,105
207.82	7,219	7,293	208.34	7,747	11,182
207.83	7,229	7,365	208.35	7,757	11,260
207.84	7,239	7,437	208.36	7,767	11,337
207.85	7,249	7,510	208.37	7,778	11,415
207.86	7,258	7,582	208.38	7,788	11,493
207.87	7,268	7,655	208.39	7,798	11,571
207.88	7,278	7,728	208.40	7,809	11,649
207.89	7,288	7,800	208.41	7,819	11,727
207.90	7,297	7,873	208.42	7,829	11,805
207.91	7,307	7,946	208.43	7,840	11,883
207.92	7,317	8,020	208.44	7,850	11,962
207.93	7,327	8,093	208.45	7,860	12,040
207.94	7,336	8,166	208.46	7,871	12,119
207.95	7,346	8,240	208.47	7,881	12,198
207.96	7,356	8,313	208.48	7,891	12,277
207.97	7,366	8,387	208.49	7,902	12,356
207.98	7,375	8,460	208.50	7,912	12,435
207.99	7,385	8,534	208.51	7,922	12,514
208.00	7,395	8,608	208.52	7,933	12,593
208.01	7,405	8,682	208.53	7,943	12,673
208.02	7,416	8,756	208.54	7,953	12,752

Stage-Area-Storage for Pond B-7: Basin #7 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
208.55	7,964	12,832	209.07	8,503	17,113
208.56	7,974	12,911	209.08	8,513	17,198
208.57	7,984	12,991	209.09	8,524	17,283
208.58	7,995	13,071	209.10	8,534	17,368
208.59	8,005	13,151	209.11	8,545	17,454
208.60	8,015	13,231	209.12	8,556	17,539
208.61	8,026	13,311	209.13	8,566	17,625
208.62	8,036	13,392	209.14	8,577	17,710
208.63	8,046	13,472	209.15	8,587	17,796
208.64	8,057	13,553	209.16	8,598	17,882
208.65	8,067	13,633	209.17	8,608	17,968
208.66	8,077	13,714	209.18	8,619	18,054
208.67	8,088	13,795	209.19	8,629	18,141
208.68	8,098	13,876	209.20	8,640	18,227
208.69	8,108	13,957	209.21	8,651	18,313
208.70	8,119	14,038	209.22	8,661	18,400
208.71	8,129	14,119	209.23	8,672	18,487
208.72	8,139	14,200	209.24	8,682	18,573
208.73	8,150	14,282	209.25	8,693	18,660
208.74	8,160	14,363	209.26	8,703	18,747
208.75	8,171	14,445	209.27	8,714	18,834
208.76	8,181	14,527	209.28	8,724	18,922
208.77	8,191	14,609	209.29	8,735	19,009
208.78	8,202	14,691	209.30	8,746	19,096
208.79	8,212	14,773	209.31	8,756	19,184
208.80	8,222	14,855	209.32	8,767	19,271
208.81	8,233	14,937	209.33	8,777	19,359
208.82	8,243	15,020	209.34	8,788	19,447
208.83	8,253	15,102	209.35	8,798	19,535
208.84	8,264	15,185	209.36	8,809	19,623
208.85	8,274	15,267	209.37	8,819	19,711
208.86	8,284	15,350	209.38	8,830	19,799
208.87	8,295	15,433	209.39	8,840	19,888
208.88	8,305	15,516	209.40	8,851	19,976
208.89	8,315	15,599	209.41	8,862	20,065
208.90	8,326	15,682	209.42	8,872	20,153
208.91	8,336	15,766	209.43	8,883	20,242
208.92	8,346	15,849	209.44	8,893	20,331
208.93	8,357	15,933	209.45	8,904	20,420
208.94	8,367	16,016	209.46	8,914	20,509
208.95	8,377	16,100	209.47	8,925	20,598
208.96	8,388	16,184	209.48	8,935	20,687
208.97	8,398	16,268	209.49	8,946	20,777
208.98	8,408	16,352	209.50	8,957	20,866
208.99	8,419	16,436	209.51	8,967	20,956
209.00	8,429	16,520	209.52	8,978	21,046
209.01	8,440	16,604	209.53	8,988	21,136
209.02	8,450	16,689	209.54	8,999	21,226
209.03	8,461	16,773	209.55	9,009	21,316
209.04	8,471	16,858	209.56	9,020	21,406
209.05	8,482	16,943	209.57	9,030	21,496
209.06	8,492	17,028	209.58	9,041	21,586

Stage-Area-Storage for Pond B-7: Basin #7 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
209.59	9,051	21,677	210.11	9,609	26,527
209.60	9,062	21,767	210.12	9,621	26,623
209.61	9,073	21,858	210.13	9,632	26,719
209.62	9,083	21,949	210.14	9,643	26,815
209.63	9,094	22,040	210.15	9,655	26,912
209.64	9,104	22,131	210.16	9,666	27,009
209.65	9,115	22,222	210.17	9,678	27,105
209.66	9,125	22,313	210.18	9,689	27,202
209.67	9,136	22,404	210.19	9,700	27,299
209.68	9,146	22,496	210.20	9,712	27,396
209.69	9,157	22,587	210.21	9,723	27,493
209.70	9,167	22,679	210.22	9,735	27,591
209.71	9,178	22,771	210.23	9,746	27,688
209.72	9,189	22,862	210.24	9,757	27,785
209.73	9,199	22,954	210.25	9,769	27,883
209.74	9,210	23,046	210.26	9,780	27,981
209.75	9,220	23,139	210.27	9,792	28,079
209.76	9,231	23,231	210.28	9,803	28,177
209.77	9,241	23,323	210.29	9,814	28,275
209.78	9,252	23,416	210.30	9,826	28,373
209.79	9,262	23,508	210.31	9,837	28,471
209.80	9,273	23,601	210.32	9,848	28,570
209.81	9,284	23,694	210.33	9,860	28,668
209.82	9,294	23,787	210.34	9,871	28,767
209.83	9,305	23,879	210.35	9,883	28,866
209.84	9,315	23,973	210.36	9,894	28,965
209.85	9,326	24,066	210.37	9,905	29,064
209.86	9,336	24,159	210.38	9,917	29,163
209.87	9,347	24,253	210.39	9,928	29,262
209.88	9,357	24,346	210.40	9,940	29,361
209.89	9,368	24,440	210.41	9,951	29,461
209.90	9,379	24,533	210.42	9,962	29,560
209.91	9,389	24,627	210.43	9,974	29,660
209.92	9,400	24,721	210.44	9,985	29,760
209.93	9,410	24,815	210.45	9,997	29,860
209.94	9,421	24,909	210.46	10,008	29,960
209.95	9,431	25,004	210.47	10,019	30,060
209.96	9,442	25,098	210.48	10,031	30,160
209.97	9,452	25,192	210.49	10,042	30,260
209.98	9,463	25,287	210.50	10,054	30,361
209.99	9,473	25,382	210.51	10,065	30,462
210.00	9,484	25,477	210.52	10,076	30,562
210.01	9,495	25,571	210.53	10,088	30,663
210.02	9,507	25,666	210.54	10,099	30,764
210.03	9,518	25,762	210.55	10,110	30,865
210.04	9,530	25,857	210.56	10,122	30,966
210.05	9,541	25,952	210.57	10,133	31,067
210.06	9,552	26,048	210.58	10,145	31,169
210.07	9,564	26,143	210.59	10,156	31,270
210.08	9,575	26,239	210.60	10,167	31,372
210.09	9,587	26,335	210.61	10,179	31,474
210.10	9,598	26,431	210.62	10,190	31,576

Stage-Area-Storage for Pond B-7: Basin #7 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
210.63	10,202	31,677
210.64	10,213	31,780
210.65	10,224	31,882
210.66	10,236	31,984
210.67	10,247	32,086
210.68	10,259	32,189
210.69	10,270	32,292
210.70	10,281	32,394
210.71	10,293	32,497
210.72	10,304	32,600
210.73	10,315	32,703
210.74	10,327	32,807
210.75	10,338	32,910
210.76	10,350	33,013
210.77	10,361	33,117
210.78	10,372	33,221
210.79	10,384	33,324
210.80	10,395	33,428
210.81	10,407	33,532
210.82	10,418	33,636
210.83	10,429	33,741
210.84	10,441	33,845
210.85	10,452	33,949
210.86	10,464	34,054
210.87	10,475	34,159
210.88	10,486	34,263
210.89	10,498	34,368
210.90	10,509	34,473
210.91	10,520	34,579
210.92	10,532	34,684
210.93	10,543	34,789
210.94	10,555	34,895
210.95	10,566	35,000
210.96	10,577	35,106
210.97	10,589	35,212
210.98	10,600	35,318
210.99	10,612	35,424
211.00	10,623	35,530

Summary for Pond B-8: Basin #8

Inflow Area = 2.090 ac, 23.06% Impervious, Inflow Depth = 3.65" for Future 10 yr event
 Inflow = 8.01 cfs @ 12.17 hrs, Volume= 0.635 af
 Outflow = 1.76 cfs @ 12.63 hrs, Volume= 0.505 af, Atten= 78%, Lag= 27.3 min
 Primary = 1.76 cfs @ 12.63 hrs, Volume= 0.505 af
 Routed to Link PDA-1 : Proposed Drainage Area #1

Routing by Stor-Ind method, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 Peak Elev= 180.04' @ 12.63 hrs Surf.Area= 14,314 sf Storage= 14,345 cf

Plug-Flow detention time= 431.4 min calculated for 0.505 af (79% of inflow)
 Center-of-Mass det. time= 347.5 min (1,153.6 - 806.1)

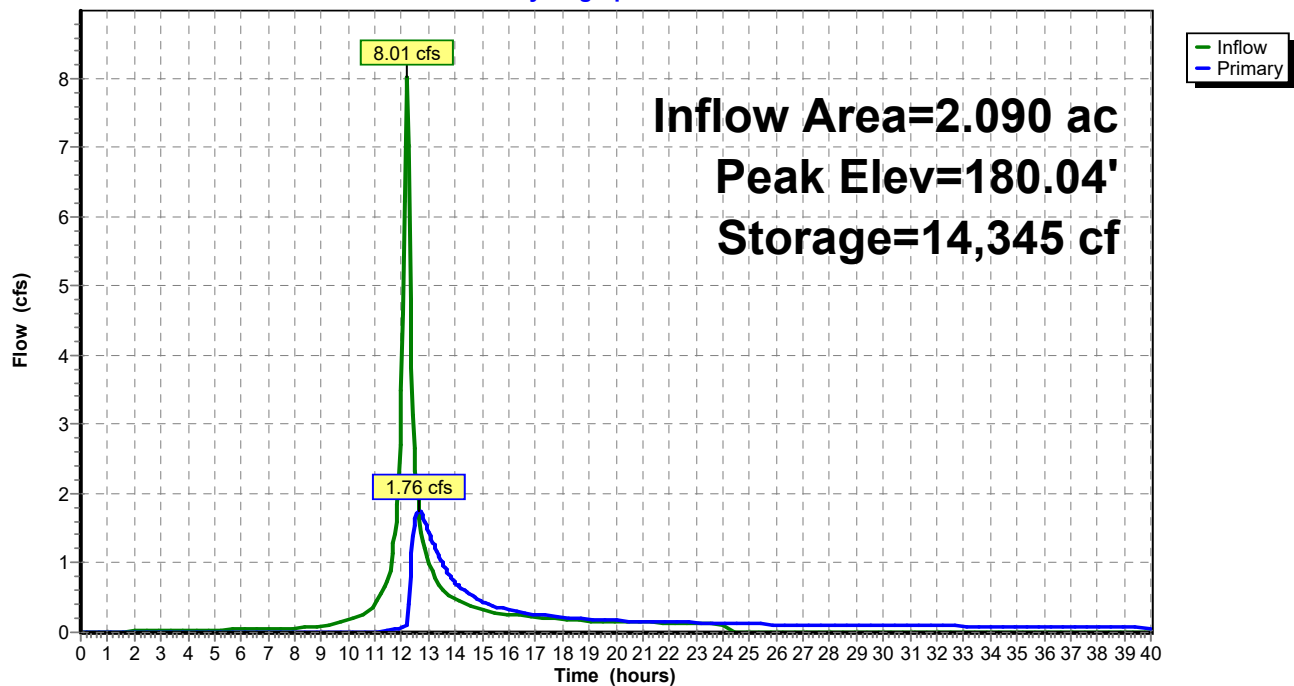
Volume	Invert	Avail.Storage	Storage Description
#1	179.00'	44,379 cf	Custom Stage Data (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
179.00	13,283	0	0
180.00	14,274	13,779	13,779
181.00	15,293	14,784	28,562
182.00	16,341	15,817	44,379

Device	Routing	Invert	Outlet Devices
#1	Primary	178.23'	18.0" Round Culvert L= 46.0' Ke= 0.500 Inlet / Outlet Invert= 178.23' / 178.00' S= 0.0050 ' / Cc= 0.900 n= 0.013, Flow Area= 1.77 sf
#2	Device 1	179.17'	2.5" Vert. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#3	Device 1	179.79'	4.0' long Sharp-Crested Rectangular Weir 2 End Contraction(s)
#4	Primary	180.83'	50.0' long + 3.0 ' / SideZ x 5.0' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 Coef. (English) 2.34 2.50 2.70 2.68 2.68 2.66 2.65 2.65 2.65 2.65 2.67 2.66 2.68 2.70 2.74 2.79 2.88

Primary OutFlow Max=1.75 cfs @ 12.63 hrs HW=180.04' (Free Discharge)

1=Culvert (Passes 1.75 cfs of 7.57 cfs potential flow)
 2=Orifice/Grate (Orifice Controls 0.14 cfs @ 4.21 fps)
 3=Sharp-Crested Rectangular Weir(Weir Controls 1.61 cfs @ 1.63 fps)
 4=Broad-Crested Rectangular Weir(Controls 0.00 cfs)

Pond B-8: Basin #8**Hydrograph**

Stage-Discharge for Pond B-8: Basin #8

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
179.00	0.00	179.52	0.08	180.04	1.76	180.56	8.68
179.01	0.00	179.53	0.08	180.05	1.86	180.57	8.85
179.02	0.00	179.54	0.08	180.06	1.96	180.58	9.01
179.03	0.00	179.55	0.09	180.07	2.06	180.59	9.17
179.04	0.00	179.56	0.09	180.08	2.16	180.60	9.34
179.05	0.00	179.57	0.09	180.09	2.27	180.61	9.50
179.06	0.00	179.58	0.09	180.10	2.37	180.62	9.67
179.07	0.00	179.59	0.09	180.11	2.48	180.63	9.84
179.08	0.00	179.60	0.09	180.12	2.59	180.64	9.90
179.09	0.00	179.61	0.10	180.13	2.70	180.65	9.94
179.10	0.00	179.62	0.10	180.14	2.81	180.66	9.98
179.11	0.00	179.63	0.10	180.15	2.93	180.67	10.03
179.12	0.00	179.64	0.10	180.16	3.04	180.68	10.07
179.13	0.00	179.65	0.10	180.17	3.16	180.69	10.11
179.14	0.00	179.66	0.10	180.18	3.28	180.70	10.15
179.15	0.00	179.67	0.10	180.19	3.40	180.71	10.19
179.16	0.00	179.68	0.10	180.20	3.52	180.72	10.24
179.17	0.00	179.69	0.11	180.21	3.64	180.73	10.28
179.18	0.00	179.70	0.11	180.22	3.77	180.74	10.32
179.19	0.00	179.71	0.11	180.23	3.89	180.75	10.36
179.20	0.00	179.72	0.11	180.24	4.02	180.76	10.40
179.21	0.00	179.73	0.11	180.25	4.15	180.77	10.44
179.22	0.00	179.74	0.11	180.26	4.28	180.78	10.49
179.23	0.01	179.75	0.11	180.27	4.41	180.79	10.53
179.24	0.01	179.76	0.11	180.28	4.54	180.80	10.57
179.25	0.01	179.77	0.12	180.29	4.67	180.81	10.61
179.26	0.01	179.78	0.12	180.30	4.81	180.82	10.65
179.27	0.02	179.79	0.12	180.31	4.94	180.83	10.69
179.28	0.02	179.80	0.13	180.32	5.08	180.84	10.85
179.29	0.02	179.81	0.16	180.33	5.22	180.85	11.10
179.30	0.03	179.82	0.19	180.34	5.36	180.86	11.42
179.31	0.03	179.83	0.23	180.35	5.50	180.87	11.79
179.32	0.03	179.84	0.27	180.36	5.64	180.88	12.20
179.33	0.04	179.85	0.32	180.37	5.78	180.89	12.65
179.34	0.04	179.86	0.37	180.38	5.93	180.90	13.14
179.35	0.05	179.87	0.42	180.39	6.07	180.91	13.66
179.36	0.05	179.88	0.48	180.40	6.22	180.92	14.22
179.37	0.05	179.89	0.54	180.41	6.36	180.93	14.80
179.38	0.05	179.90	0.60	180.42	6.51	180.94	15.41
179.39	0.06	179.91	0.67	180.43	6.66	180.95	16.05
179.40	0.06	179.92	0.74	180.44	6.81	180.96	16.72
179.41	0.06	179.93	0.81	180.45	6.96	180.97	17.41
179.42	0.06	179.94	0.89	180.46	7.11	180.98	18.12
179.43	0.06	179.95	0.97	180.47	7.26	180.99	18.86
179.44	0.07	179.96	1.04	180.48	7.42	181.00	19.62
179.45	0.07	179.97	1.13	180.49	7.57	181.01	20.40
179.46	0.07	179.98	1.21	180.50	7.73	181.02	21.20
179.47	0.07	179.99	1.30	180.51	7.89	181.03	22.03
179.48	0.07	180.00	1.39	180.52	8.04	181.04	22.91
179.49	0.08	180.01	1.48	180.53	8.20	181.05	23.82
179.50	0.08	180.02	1.57	180.54	8.36	181.06	24.76
179.51	0.08	180.03	1.66	180.55	8.52	181.07	25.72

Stage-Discharge for Pond B-8: Basin #8 (continued)

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
181.08	26.70	181.60	107.42
181.09	27.71	181.61	109.30
181.10	28.75	181.62	111.19
181.11	29.81	181.63	113.09
181.12	30.89	181.64	115.04
181.13	32.00	181.65	117.01
181.14	33.13	181.66	118.98
181.15	34.29	181.67	120.98
181.16	35.47	181.68	122.98
181.17	36.68	181.69	125.00
181.18	37.91	181.70	127.03
181.19	39.16	181.71	129.07
181.20	40.44	181.72	131.13
181.21	41.74	181.73	133.19
181.22	43.07	181.74	135.28
181.23	44.42	181.75	137.37
181.24	45.82	181.76	139.48
181.25	47.25	181.77	141.60
181.26	48.70	181.78	143.73
181.27	50.18	181.79	145.87
181.28	51.68	181.80	148.03
181.29	53.22	181.81	150.20
181.30	54.77	181.82	152.38
181.31	56.36	181.83	154.58
181.32	57.97	181.84	156.73
181.33	59.60	181.85	158.90
181.34	61.27	181.86	161.07
181.35	62.95	181.87	163.26
181.36	64.67	181.88	165.46
181.37	66.41	181.89	167.66
181.38	68.18	181.90	169.88
181.39	69.98	181.91	172.11
181.40	71.80	181.92	174.35
181.41	73.65	181.93	176.60
181.42	75.52	181.94	178.86
181.43	77.42	181.95	181.13
181.44	79.09	181.96	183.41
181.45	80.76	181.97	185.70
181.46	82.45	181.98	188.00
181.47	84.15	181.99	190.31
181.48	85.86	182.00	192.63
181.49	87.59		
181.50	89.33		
181.51	91.08		
181.52	92.84		
181.53	94.62		
181.54	96.41		
181.55	98.22		
181.56	100.03		
181.57	101.86		
181.58	103.70		
181.59	105.56		

Stage-Area-Storage for Pond B-8: Basin #8

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
179.00	13,283	0	179.52	13,798	7,041
179.01	13,293	133	179.53	13,808	7,179
179.02	13,303	266	179.54	13,818	7,317
179.03	13,313	399	179.55	13,828	7,456
179.04	13,323	532	179.56	13,838	7,594
179.05	13,333	665	179.57	13,848	7,732
179.06	13,342	799	179.58	13,858	7,871
179.07	13,352	932	179.59	13,868	8,009
179.08	13,362	1,066	179.60	13,878	8,148
179.09	13,372	1,199	179.61	13,888	8,287
179.10	13,382	1,333	179.62	13,897	8,426
179.11	13,392	1,467	179.63	13,907	8,565
179.12	13,402	1,601	179.64	13,917	8,704
179.13	13,412	1,735	179.65	13,927	8,843
179.14	13,422	1,869	179.66	13,937	8,983
179.15	13,432	2,004	179.67	13,947	9,122
179.16	13,442	2,138	179.68	13,957	9,262
179.17	13,451	2,272	179.69	13,967	9,401
179.18	13,461	2,407	179.70	13,977	9,541
179.19	13,471	2,542	179.71	13,987	9,681
179.20	13,481	2,676	179.72	13,997	9,821
179.21	13,491	2,811	179.73	14,006	9,961
179.22	13,501	2,946	179.74	14,016	10,101
179.23	13,511	3,081	179.75	14,026	10,241
179.24	13,521	3,216	179.76	14,036	10,381
179.25	13,531	3,352	179.77	14,046	10,522
179.26	13,541	3,487	179.78	14,056	10,662
179.27	13,551	3,623	179.79	14,066	10,803
179.28	13,560	3,758	179.80	14,076	10,944
179.29	13,570	3,894	179.81	14,086	11,084
179.30	13,580	4,029	179.82	14,096	11,225
179.31	13,590	4,165	179.83	14,106	11,366
179.32	13,600	4,301	179.84	14,115	11,507
179.33	13,610	4,437	179.85	14,125	11,649
179.34	13,620	4,573	179.86	14,135	11,790
179.35	13,630	4,710	179.87	14,145	11,931
179.36	13,640	4,846	179.88	14,155	12,073
179.37	13,650	4,983	179.89	14,165	12,214
179.38	13,660	5,119	179.90	14,175	12,356
179.39	13,669	5,256	179.91	14,185	12,498
179.40	13,679	5,392	179.92	14,195	12,640
179.41	13,689	5,529	179.93	14,205	12,782
179.42	13,699	5,666	179.94	14,215	12,924
179.43	13,709	5,803	179.95	14,224	13,066
179.44	13,719	5,940	179.96	14,234	13,208
179.45	13,729	6,078	179.97	14,244	13,351
179.46	13,739	6,215	179.98	14,254	13,493
179.47	13,749	6,352	179.99	14,264	13,636
179.48	13,759	6,490	180.00	14,274	13,779
179.49	13,769	6,628	180.01	14,284	13,921
179.50	13,779	6,765	180.02	14,294	14,064
179.51	13,788	6,903	180.03	14,305	14,207

Stage-Area-Storage for Pond B-8: Basin #8 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
180.04	14,315	14,350	180.56	14,845	21,932
180.05	14,325	14,493	180.57	14,855	22,080
180.06	14,335	14,637	180.58	14,865	22,229
180.07	14,345	14,780	180.59	14,875	22,378
180.08	14,356	14,924	180.60	14,885	22,526
180.09	14,366	15,067	180.61	14,896	22,675
180.10	14,376	15,211	180.62	14,906	22,824
180.11	14,386	15,355	180.63	14,916	22,973
180.12	14,396	15,499	180.64	14,926	23,123
180.13	14,406	15,643	180.65	14,936	23,272
180.14	14,417	15,787	180.66	14,947	23,421
180.15	14,427	15,931	180.67	14,957	23,571
180.16	14,437	16,075	180.68	14,967	23,720
180.17	14,447	16,220	180.69	14,977	23,870
180.18	14,457	16,364	180.70	14,987	24,020
180.19	14,468	16,509	180.71	14,997	24,170
180.20	14,478	16,654	180.72	15,008	24,320
180.21	14,488	16,799	180.73	15,018	24,470
180.22	14,498	16,943	180.74	15,028	24,620
180.23	14,508	17,088	180.75	15,038	24,771
180.24	14,519	17,234	180.76	15,048	24,921
180.25	14,529	17,379	180.77	15,059	25,072
180.26	14,539	17,524	180.78	15,069	25,222
180.27	14,549	17,670	180.79	15,079	25,373
180.28	14,559	17,815	180.80	15,089	25,524
180.29	14,570	17,961	180.81	15,099	25,675
180.30	14,580	18,107	180.82	15,110	25,826
180.31	14,590	18,252	180.83	15,120	25,977
180.32	14,600	18,398	180.84	15,130	26,128
180.33	14,610	18,544	180.85	15,140	26,280
180.34	14,620	18,691	180.86	15,150	26,431
180.35	14,631	18,837	180.87	15,161	26,583
180.36	14,641	18,983	180.88	15,171	26,734
180.37	14,651	19,130	180.89	15,181	26,886
180.38	14,661	19,276	180.90	15,191	27,038
180.39	14,671	19,423	180.91	15,201	27,190
180.40	14,682	19,570	180.92	15,211	27,342
180.41	14,692	19,716	180.93	15,222	27,494
180.42	14,702	19,863	180.94	15,232	27,646
180.43	14,712	20,011	180.95	15,242	27,799
180.44	14,722	20,158	180.96	15,252	27,951
180.45	14,733	20,305	180.97	15,262	28,104
180.46	14,743	20,452	180.98	15,273	28,256
180.47	14,753	20,600	180.99	15,283	28,409
180.48	14,763	20,747	181.00	15,293	28,562
180.49	14,773	20,895	181.01	15,303	28,715
180.50	14,784	21,043	181.02	15,314	28,868
180.51	14,794	21,191	181.03	15,324	29,021
180.52	14,804	21,339	181.04	15,335	29,175
180.53	14,814	21,487	181.05	15,345	29,328
180.54	14,824	21,635	181.06	15,356	29,481
180.55	14,834	21,783	181.07	15,366	29,635

Stage-Area-Storage for Pond B-8: Basin #8 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
181.08	15,377	29,789	181.60	15,922	37,926
181.09	15,387	29,943	181.61	15,932	38,086
181.10	15,398	30,097	181.62	15,943	38,245
181.11	15,408	30,251	181.63	15,953	38,405
181.12	15,419	30,405	181.64	15,964	38,564
181.13	15,429	30,559	181.65	15,974	38,724
181.14	15,440	30,713	181.66	15,985	38,884
181.15	15,450	30,868	181.67	15,995	39,044
181.16	15,461	31,022	181.68	16,006	39,204
181.17	15,471	31,177	181.69	16,016	39,364
181.18	15,482	31,332	181.70	16,027	39,524
181.19	15,492	31,487	181.71	16,037	39,684
181.20	15,503	31,642	181.72	16,048	39,845
181.21	15,513	31,797	181.73	16,058	40,005
181.22	15,524	31,952	181.74	16,069	40,166
181.23	15,534	32,107	181.75	16,079	40,327
181.24	15,545	32,263	181.76	16,089	40,487
181.25	15,555	32,418	181.77	16,100	40,648
181.26	15,565	32,574	181.78	16,110	40,809
181.27	15,576	32,729	181.79	16,121	40,970
181.28	15,586	32,885	181.80	16,131	41,132
181.29	15,597	33,041	181.81	16,142	41,293
181.30	15,607	33,197	181.82	16,152	41,455
181.31	15,618	33,353	181.83	16,163	41,616
181.32	15,628	33,509	181.84	16,173	41,778
181.33	15,639	33,666	181.85	16,184	41,940
181.34	15,649	33,822	181.86	16,194	42,102
181.35	15,660	33,979	181.87	16,205	42,264
181.36	15,670	34,135	181.88	16,215	42,426
181.37	15,681	34,292	181.89	16,226	42,588
181.38	15,691	34,449	181.90	16,236	42,750
181.39	15,702	34,606	181.91	16,247	42,913
181.40	15,712	34,763	181.92	16,257	43,075
181.41	15,723	34,920	181.93	16,268	43,238
181.42	15,733	35,077	181.94	16,278	43,400
181.43	15,744	35,235	181.95	16,289	43,563
181.44	15,754	35,392	181.96	16,299	43,726
181.45	15,765	35,550	181.97	16,310	43,889
181.46	15,775	35,708	181.98	16,320	44,052
181.47	15,786	35,865	181.99	16,331	44,216
181.48	15,796	36,023	182.00	16,341	44,379
181.49	15,807	36,181			
181.50	15,817	36,340			
181.51	15,827	36,498			
181.52	15,838	36,656			
181.53	15,848	36,814			
181.54	15,859	36,973			
181.55	15,869	37,132			
181.56	15,880	37,290			
181.57	15,890	37,449			
181.58	15,901	37,608			
181.59	15,911	37,767			

Summary for Pond B-9: Basin #9

Inflow Area = 1.503 ac, 52.63% Impervious, Inflow Depth = 4.40" for Future 10 yr event
 Inflow = 6.63 cfs @ 12.17 hrs, Volume= 0.551 af
 Outflow = 1.65 cfs @ 12.56 hrs, Volume= 0.427 af, Atten= 75%, Lag= 23.3 min
 Primary = 1.65 cfs @ 12.56 hrs, Volume= 0.427 af
 Routed to Link PDA-1 : Proposed Drainage Area #1

Routing by Stor-Ind method, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 Peak Elev= 180.17' @ 12.56 hrs Surf.Area= 11,870 sf Storage= 13,199 cf

Plug-Flow detention time= 470.4 min calculated for 0.427 af (77% of inflow)
 Center-of-Mass det. time= 383.1 min (1,161.7 - 778.6)

Volume	Invert	Avail.Storage	Storage Description
#1	179.00'	36,641 cf	Custom Stage Data (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
179.00	10,720	0	0
180.00	11,700	11,210	11,210
181.00	12,708	12,204	23,414
182.00	13,745	13,227	36,641

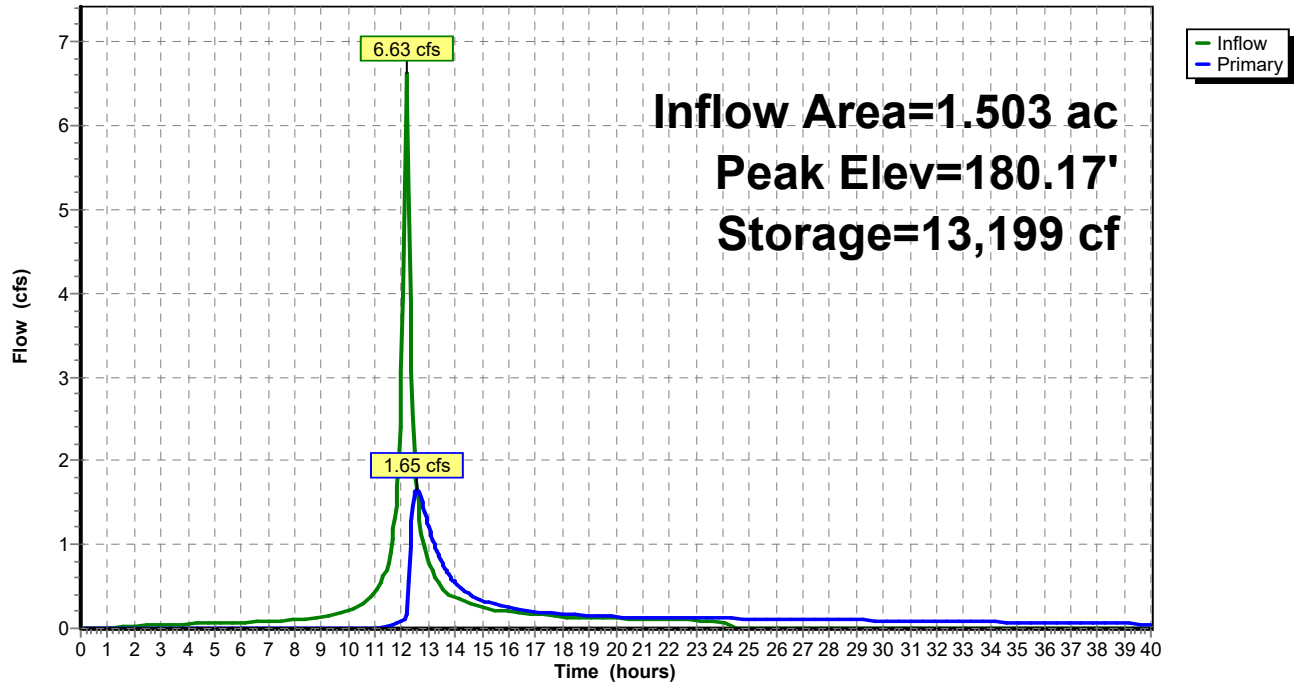
Device	Routing	Invert	Outlet Devices
#1	Primary	178.23'	18.0" Round Culvert L= 45.0' Ke= 0.500 Inlet / Outlet Invert= 178.23' / 178.00' S= 0.0051 ' S= 0.0051 ' Cc= 0.900 n= 0.013, Flow Area= 1.77 sf
#2	Device 1	179.30'	2.5" Vert. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#3	Device 1	179.93'	4.0' long Sharp-Crested Rectangular Weir 2 End Contraction(s)
#4	Primary	181.95'	50.0' long + 3.0 ' SideZ x 5.0' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 Coef. (English) 2.34 2.50 2.70 2.68 2.68 2.66 2.65 2.65 2.65 2.65 2.67 2.66 2.68 2.70 2.74 2.79 2.88

Primary OutFlow Max=1.65 cfs @ 12.56 hrs HW=180.17' (Free Discharge)

1=Culvert (Passes 1.65 cfs of 7.99 cfs potential flow)
 2=Orifice/Grate (Orifice Controls 0.14 cfs @ 4.21 fps)
 3=Sharp-Crested Rectangular Weir(Weir Controls 1.51 cfs @ 1.60 fps)
 4=Broad-Crested Rectangular Weir(Controls 0.00 cfs)

Pond B-9: Basin #9

Hydrograph



Stage-Discharge for Pond B-9: Basin #9

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
179.00	0.00	179.52	0.06	180.04	0.61	180.56	6.51
179.01	0.00	179.53	0.06	180.05	0.67	180.57	6.66
179.02	0.00	179.54	0.06	180.06	0.74	180.58	6.81
179.03	0.00	179.55	0.06	180.07	0.81	180.59	6.96
179.04	0.00	179.56	0.06	180.08	0.89	180.60	7.11
179.05	0.00	179.57	0.07	180.09	0.97	180.61	7.27
179.06	0.00	179.58	0.07	180.10	1.05	180.62	7.42
179.07	0.00	179.59	0.07	180.11	1.13	180.63	7.57
179.08	0.00	179.60	0.07	180.12	1.21	180.64	7.73
179.09	0.00	179.61	0.07	180.13	1.30	180.65	7.89
179.10	0.00	179.62	0.08	180.14	1.39	180.66	8.04
179.11	0.00	179.63	0.08	180.15	1.48	180.67	8.20
179.12	0.00	179.64	0.08	180.16	1.57	180.68	8.36
179.13	0.00	179.65	0.08	180.17	1.66	180.69	8.52
179.14	0.00	179.66	0.08	180.18	1.76	180.70	8.68
179.15	0.00	179.67	0.08	180.19	1.86	180.71	8.85
179.16	0.00	179.68	0.09	180.20	1.96	180.72	9.01
179.17	0.00	179.69	0.09	180.21	2.06	180.73	9.17
179.18	0.00	179.70	0.09	180.22	2.16	180.74	9.34
179.19	0.00	179.71	0.09	180.23	2.27	180.75	9.50
179.20	0.00	179.72	0.09	180.24	2.37	180.76	9.67
179.21	0.00	179.73	0.09	180.25	2.48	180.77	9.84
179.22	0.00	179.74	0.10	180.26	2.59	180.78	10.01
179.23	0.00	179.75	0.10	180.27	2.70	180.79	10.18
179.24	0.00	179.76	0.10	180.28	2.81	180.80	10.35
179.25	0.00	179.77	0.10	180.29	2.93	180.81	10.52
179.26	0.00	179.78	0.10	180.30	3.04	180.82	10.69
179.27	0.00	179.79	0.10	180.31	3.16	180.83	10.73
179.28	0.00	179.80	0.10	180.32	3.28	180.84	10.77
179.29	0.00	179.81	0.10	180.33	3.40	180.85	10.81
179.30	0.00	179.82	0.11	180.34	3.52	180.86	10.85
179.31	0.00	179.83	0.11	180.35	3.65	180.87	10.89
179.32	0.00	179.84	0.11	180.36	3.77	180.88	10.93
179.33	0.00	179.85	0.11	180.37	3.89	180.89	10.97
179.34	0.00	179.86	0.11	180.38	4.02	180.90	11.01
179.35	0.00	179.87	0.11	180.39	4.15	180.91	11.05
179.36	0.01	179.88	0.11	180.40	4.28	180.92	11.09
179.37	0.01	179.89	0.11	180.41	4.41	180.93	11.13
179.38	0.01	179.90	0.12	180.42	4.54	180.94	11.17
179.39	0.01	179.91	0.12	180.43	4.68	180.95	11.20
179.40	0.02	179.92	0.12	180.44	4.81	180.96	11.24
179.41	0.02	179.93	0.12	180.45	4.95	180.97	11.28
179.42	0.02	179.94	0.13	180.46	5.08	180.98	11.32
179.43	0.03	179.95	0.16	180.47	5.22	180.99	11.36
179.44	0.03	179.96	0.19	180.48	5.36	181.00	11.40
179.45	0.03	179.97	0.23	180.49	5.50	181.01	11.43
179.46	0.04	179.98	0.27	180.50	5.64	181.02	11.47
179.47	0.04	179.99	0.32	180.51	5.78	181.03	11.51
179.48	0.05	180.00	0.37	180.52	5.93	181.04	11.55
179.49	0.05	180.01	0.42	180.53	6.07	181.05	11.58
179.50	0.05	180.02	0.48	180.54	6.22	181.06	11.62
179.51	0.05	180.03	0.54	180.55	6.36	181.07	11.66

Stage-Discharge for Pond B-9: Basin #9 (continued)

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
181.08	11.70	181.60	13.48
181.09	11.73	181.61	13.52
181.10	11.77	181.62	13.55
181.11	11.81	181.63	13.58
181.12	11.84	181.64	13.61
181.13	11.88	181.65	13.64
181.14	11.92	181.66	13.67
181.15	11.95	181.67	13.71
181.16	11.99	181.68	13.74
181.17	12.02	181.69	13.77
181.18	12.06	181.70	13.80
181.19	12.10	181.71	13.83
181.20	12.13	181.72	13.86
181.21	12.17	181.73	13.89
181.22	12.20	181.74	13.93
181.23	12.24	181.75	13.96
181.24	12.27	181.76	13.99
181.25	12.31	181.77	14.02
181.26	12.34	181.78	14.05
181.27	12.38	181.79	14.08
181.28	12.41	181.80	14.11
181.29	12.45	181.81	14.14
181.30	12.48	181.82	14.17
181.31	12.52	181.83	14.20
181.32	12.55	181.84	14.23
181.33	12.59	181.85	14.26
181.34	12.62	181.86	14.29
181.35	12.66	181.87	14.32
181.36	12.69	181.88	14.35
181.37	12.72	181.89	14.38
181.38	12.76	181.90	14.41
181.39	12.79	181.91	14.44
181.40	12.83	181.92	14.47
181.41	12.86	181.93	14.50
181.42	12.89	181.94	14.53
181.43	12.93	181.95	14.56
181.44	12.96	181.96	14.71
181.45	12.99	181.97	14.95
181.46	13.03	181.98	15.26
181.47	13.06	181.99	15.62
181.48	13.09	182.00	16.02
181.49	13.13		
181.50	13.16		
181.51	13.19		
181.52	13.22		
181.53	13.26		
181.54	13.29		
181.55	13.32		
181.56	13.35		
181.57	13.39		
181.58	13.42		
181.59	13.45		

Stage-Area-Storage for Pond B-9: Basin #9

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
179.00	10,720	0	179.52	11,230	5,707
179.01	10,730	107	179.53	11,239	5,819
179.02	10,740	215	179.54	11,249	5,932
179.03	10,749	322	179.55	11,259	6,044
179.04	10,759	430	179.56	11,269	6,157
179.05	10,769	537	179.57	11,279	6,270
179.06	10,779	645	179.58	11,288	6,382
179.07	10,789	753	179.59	11,298	6,495
179.08	10,798	861	179.60	11,308	6,608
179.09	10,808	969	179.61	11,318	6,722
179.10	10,818	1,077	179.62	11,328	6,835
179.11	10,828	1,185	179.63	11,337	6,948
179.12	10,838	1,293	179.64	11,347	7,062
179.13	10,847	1,402	179.65	11,357	7,175
179.14	10,857	1,510	179.66	11,367	7,289
179.15	10,867	1,619	179.67	11,377	7,402
179.16	10,877	1,728	179.68	11,386	7,516
179.17	10,887	1,837	179.69	11,396	7,630
179.18	10,896	1,945	179.70	11,406	7,744
179.19	10,906	2,054	179.71	11,416	7,858
179.20	10,916	2,164	179.72	11,426	7,972
179.21	10,926	2,273	179.73	11,435	8,087
179.22	10,936	2,382	179.74	11,445	8,201
179.23	10,945	2,492	179.75	11,455	8,316
179.24	10,955	2,601	179.76	11,465	8,430
179.25	10,965	2,711	179.77	11,475	8,545
179.26	10,975	2,820	179.78	11,484	8,660
179.27	10,985	2,930	179.79	11,494	8,775
179.28	10,994	3,040	179.80	11,504	8,890
179.29	11,004	3,150	179.81	11,514	9,005
179.30	11,014	3,260	179.82	11,524	9,120
179.31	11,024	3,370	179.83	11,533	9,235
179.32	11,034	3,481	179.84	11,543	9,351
179.33	11,043	3,591	179.85	11,553	9,466
179.34	11,053	3,701	179.86	11,563	9,582
179.35	11,063	3,812	179.87	11,573	9,697
179.36	11,073	3,923	179.88	11,582	9,813
179.37	11,083	4,033	179.89	11,592	9,929
179.38	11,092	4,144	179.90	11,602	10,045
179.39	11,102	4,255	179.91	11,612	10,161
179.40	11,112	4,366	179.92	11,622	10,277
179.41	11,122	4,478	179.93	11,631	10,393
179.42	11,132	4,589	179.94	11,641	10,510
179.43	11,141	4,700	179.95	11,651	10,626
179.44	11,151	4,812	179.96	11,661	10,743
179.45	11,161	4,923	179.97	11,671	10,859
179.46	11,171	5,035	179.98	11,680	10,976
179.47	11,181	5,147	179.99	11,690	11,093
179.48	11,190	5,258	180.00	11,700	11,210
179.49	11,200	5,370	180.01	11,710	11,327
179.50	11,210	5,483	180.02	11,720	11,444
179.51	11,220	5,595	180.03	11,730	11,561

Stage-Area-Storage for Pond B-9: Basin #9 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
180.04	11,740	11,679	180.56	12,264	17,920
180.05	11,750	11,796	180.57	12,275	18,043
180.06	11,760	11,914	180.58	12,285	18,166
180.07	11,771	12,031	180.59	12,295	18,288
180.08	11,781	12,149	180.60	12,305	18,411
180.09	11,791	12,267	180.61	12,315	18,535
180.10	11,801	12,385	180.62	12,325	18,658
180.11	11,811	12,503	180.63	12,335	18,781
180.12	11,821	12,621	180.64	12,345	18,904
180.13	11,831	12,740	180.65	12,355	19,028
180.14	11,841	12,858	180.66	12,365	19,152
180.15	11,851	12,976	180.67	12,375	19,275
180.16	11,861	13,095	180.68	12,385	19,399
180.17	11,871	13,214	180.69	12,396	19,523
180.18	11,881	13,332	180.70	12,406	19,647
180.19	11,892	13,451	180.71	12,416	19,771
180.20	11,902	13,570	180.72	12,426	19,895
180.21	11,912	13,689	180.73	12,436	20,020
180.22	11,922	13,808	180.74	12,446	20,144
180.23	11,932	13,928	180.75	12,456	20,269
180.24	11,942	14,047	180.76	12,466	20,393
180.25	11,952	14,167	180.77	12,476	20,518
180.26	11,962	14,286	180.78	12,486	20,643
180.27	11,972	14,406	180.79	12,496	20,768
180.28	11,982	14,526	180.80	12,506	20,893
180.29	11,992	14,645	180.81	12,516	21,018
180.30	12,002	14,765	180.82	12,527	21,143
180.31	12,012	14,885	180.83	12,537	21,268
180.32	12,023	15,006	180.84	12,547	21,394
180.33	12,033	15,126	180.85	12,557	21,519
180.34	12,043	15,246	180.86	12,567	21,645
180.35	12,053	15,367	180.87	12,577	21,770
180.36	12,063	15,487	180.88	12,587	21,896
180.37	12,073	15,608	180.89	12,597	22,022
180.38	12,083	15,729	180.90	12,607	22,148
180.39	12,093	15,850	180.91	12,617	22,274
180.40	12,103	15,971	180.92	12,627	22,401
180.41	12,113	16,092	180.93	12,637	22,527
180.42	12,123	16,213	180.94	12,648	22,653
180.43	12,133	16,334	180.95	12,658	22,780
180.44	12,144	16,456	180.96	12,668	22,906
180.45	12,154	16,577	180.97	12,678	23,033
180.46	12,164	16,699	180.98	12,688	23,160
180.47	12,174	16,820	180.99	12,698	23,287
180.48	12,184	16,942	181.00	12,708	23,414
180.49	12,194	17,064	181.01	12,718	23,541
180.50	12,204	17,186	181.02	12,729	23,668
180.51	12,214	17,308	181.03	12,739	23,796
180.52	12,224	17,430	181.04	12,749	23,923
180.53	12,234	17,553	181.05	12,760	24,051
180.54	12,244	17,675	181.06	12,770	24,178
180.55	12,254	17,797	181.07	12,781	24,306

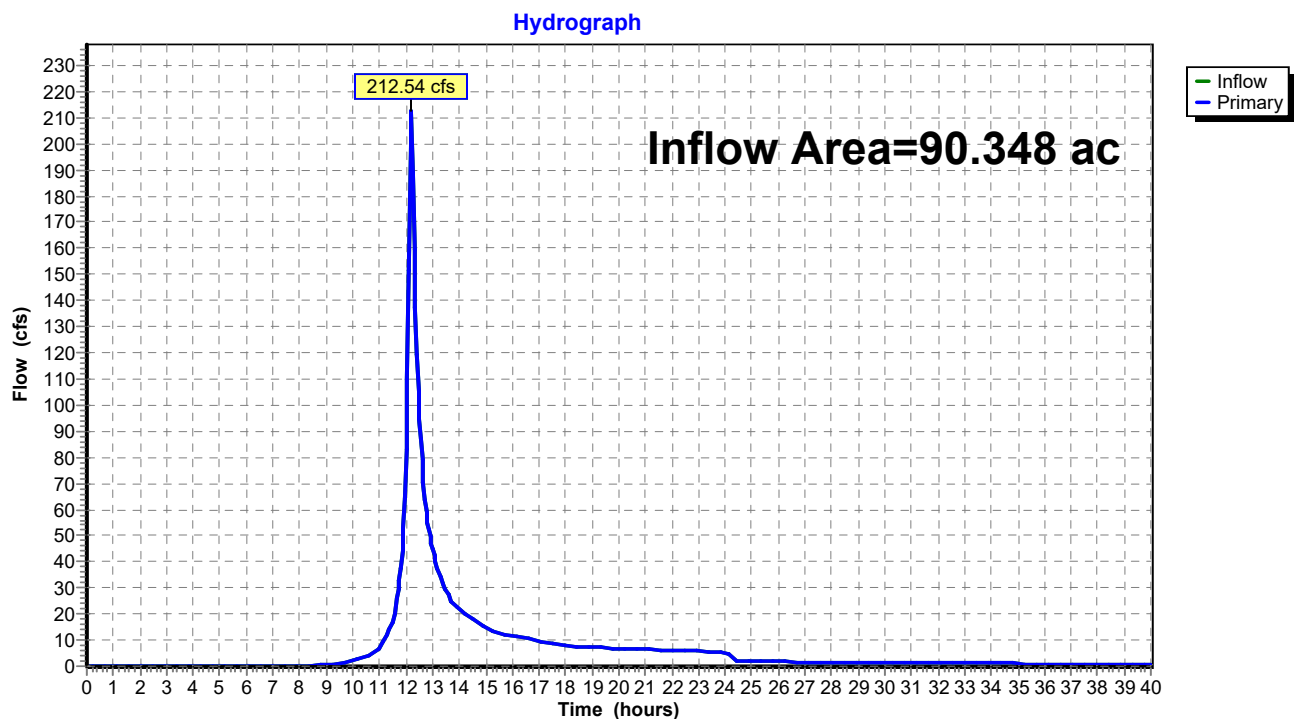
Stage-Area-Storage for Pond B-9: Basin #9 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
181.08	12,791	24,434	181.60	13,330	31,225
181.09	12,801	24,562	181.61	13,341	31,359
181.10	12,812	24,690	181.62	13,351	31,492
181.11	12,822	24,818	181.63	13,361	31,626
181.12	12,832	24,946	181.64	13,372	31,759
181.13	12,843	25,075	181.65	13,382	31,893
181.14	12,853	25,203	181.66	13,392	32,027
181.15	12,864	25,332	181.67	13,403	32,161
181.16	12,874	25,461	181.68	13,413	32,295
181.17	12,884	25,589	181.69	13,424	32,429
181.18	12,895	25,718	181.70	13,434	32,564
181.19	12,905	25,847	181.71	13,444	32,698
181.20	12,915	25,976	181.72	13,455	32,833
181.21	12,926	26,106	181.73	13,465	32,967
181.22	12,936	26,235	181.74	13,475	33,102
181.23	12,947	26,364	181.75	13,486	33,237
181.24	12,957	26,494	181.76	13,496	33,372
181.25	12,967	26,623	181.77	13,506	33,507
181.26	12,978	26,753	181.78	13,517	33,642
181.27	12,988	26,883	181.79	13,527	33,777
181.28	12,998	27,013	181.80	13,538	33,912
181.29	13,009	27,143	181.81	13,548	34,048
181.30	13,019	27,273	181.82	13,558	34,183
181.31	13,029	27,403	181.83	13,569	34,319
181.32	13,040	27,534	181.84	13,579	34,455
181.33	13,050	27,664	181.85	13,589	34,590
181.34	13,061	27,795	181.86	13,600	34,726
181.35	13,071	27,925	181.87	13,610	34,862
181.36	13,081	28,056	181.88	13,621	34,999
181.37	13,092	28,187	181.89	13,631	35,135
181.38	13,102	28,318	181.90	13,641	35,271
181.39	13,112	28,449	181.91	13,652	35,408
181.40	13,123	28,580	181.92	13,662	35,544
181.41	13,133	28,711	181.93	13,672	35,681
181.42	13,144	28,843	181.94	13,683	35,818
181.43	13,154	28,974	181.95	13,693	35,955
181.44	13,164	29,106	181.96	13,704	36,092
181.45	13,175	29,238	181.97	13,714	36,229
181.46	13,185	29,369	181.98	13,724	36,366
181.47	13,195	29,501	181.99	13,735	36,503
181.48	13,206	29,633	182.00	13,745	36,641
181.49	13,216	29,765			
181.50	13,227	29,898			
181.51	13,237	30,030			
181.52	13,247	30,162			
181.53	13,258	30,295			
181.54	13,268	30,428			
181.55	13,278	30,560			
181.56	13,289	30,693			
181.57	13,299	30,826			
181.58	13,309	30,959			
181.59	13,320	31,092			

Summary for Link PDA-1: Proposed Drainage Area #1

Inflow Area = 90.348 ac, 16.68% Impervious, Inflow Depth > 3.03" for Future 10 yr event
Inflow = 212.54 cfs @ 12.19 hrs, Volume= 22.823 af
Primary = 212.54 cfs @ 12.19 hrs, Volume= 22.823 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs

Link PDA-1: Proposed Drainage Area #1

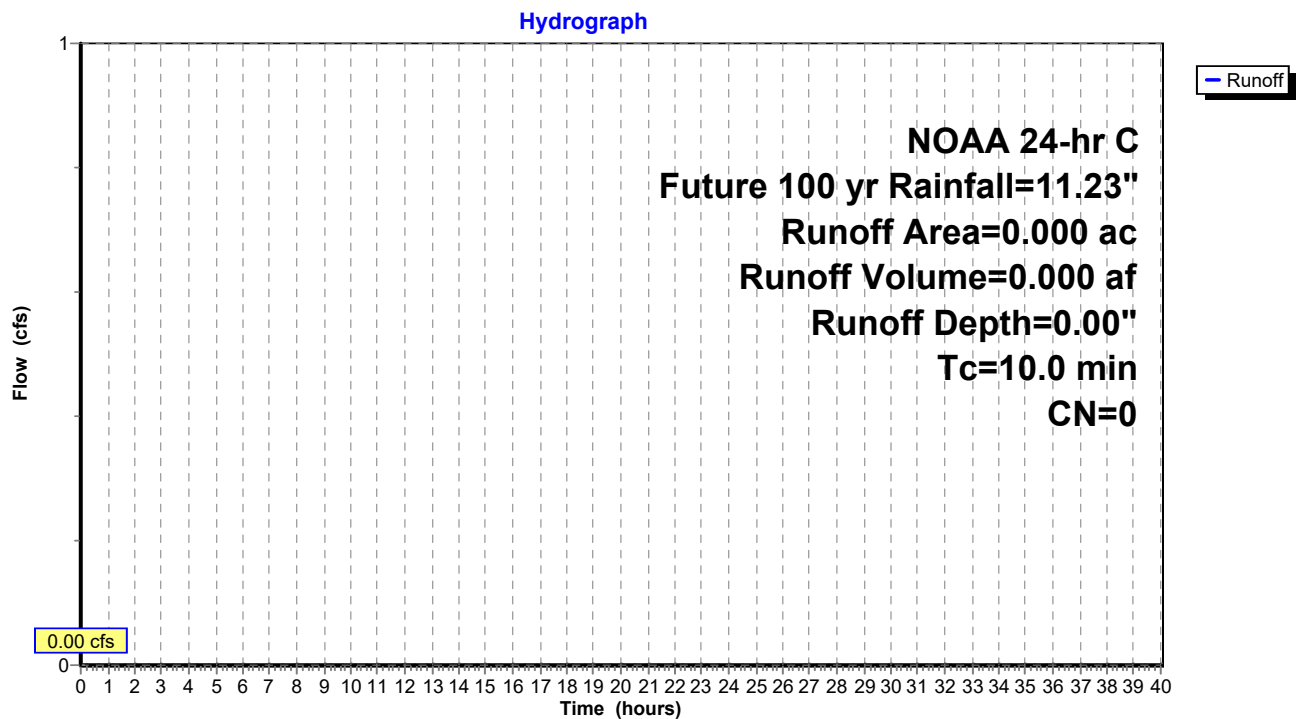
Summary for Subcatchment 1I: PDA-1 (impervious)

Runoff = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af, Depth= 0.00"
 Routed to Pond B-1 : Basin #1

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 NOAA 24-hr C Future 100 yr Rainfall=11.23"

Area (ac)	CN	Description
* 0.000	98	Pavement, HSG C
* 0.000	98	Concrete, HSG C
0.000	0	Weighted Average

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.0					Direct Entry,

Subcatchment 1I: PDA-1 (impervious)

Summary for Subcatchment 1P: PDA-1 (pervious)

Runoff = 7.58 cfs @ 12.17 hrs, Volume= 0.584 af, Depth= 7.89"
 Routed to Pond B-1 : Basin #1

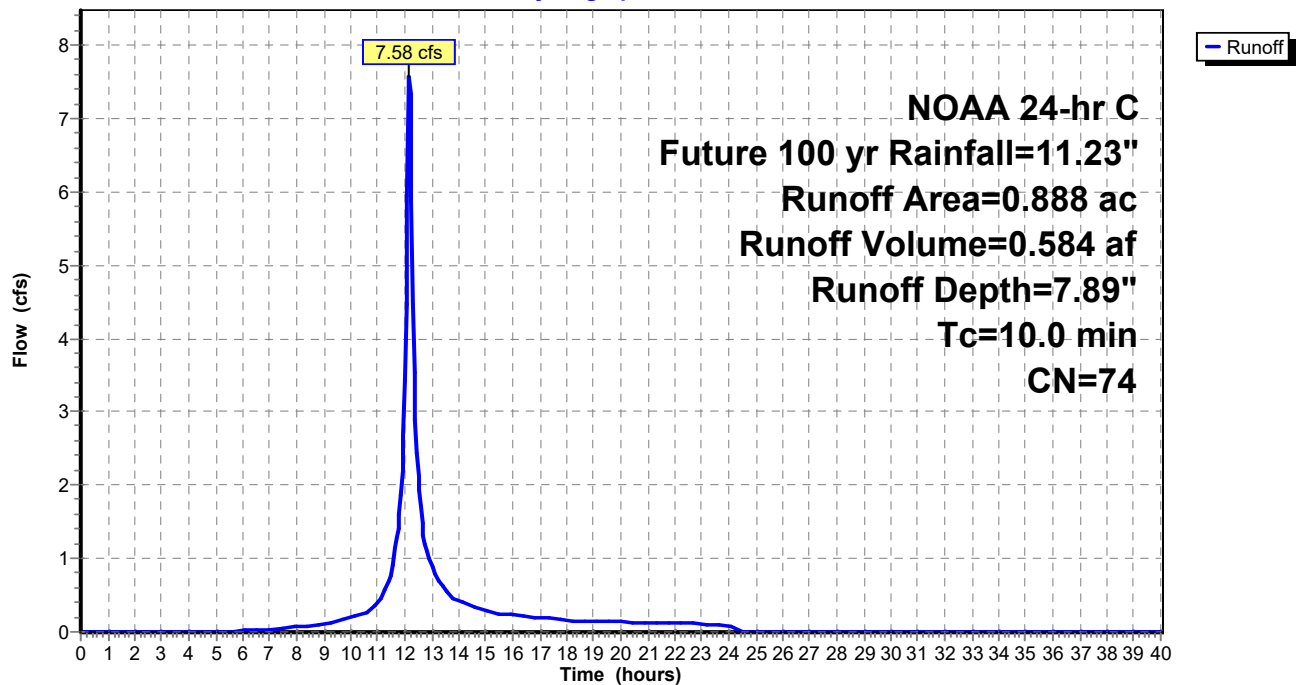
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 NOAA 24-hr C Future 100 yr Rainfall=11.23"

Area (ac)	CN	Description
0.888	74	>75% Grass cover, Good, HSG C
0.888		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.0					Direct Entry,

Subcatchment 1P: PDA-1 (pervious)

Hydrograph



Summary for Subcatchment 2I: PDA-2 (impervious)

Runoff = 7.44 cfs @ 12.17 hrs, Volume= 0.663 af, Depth=10.99"
 Routed to Pond B-2 : Basin #2

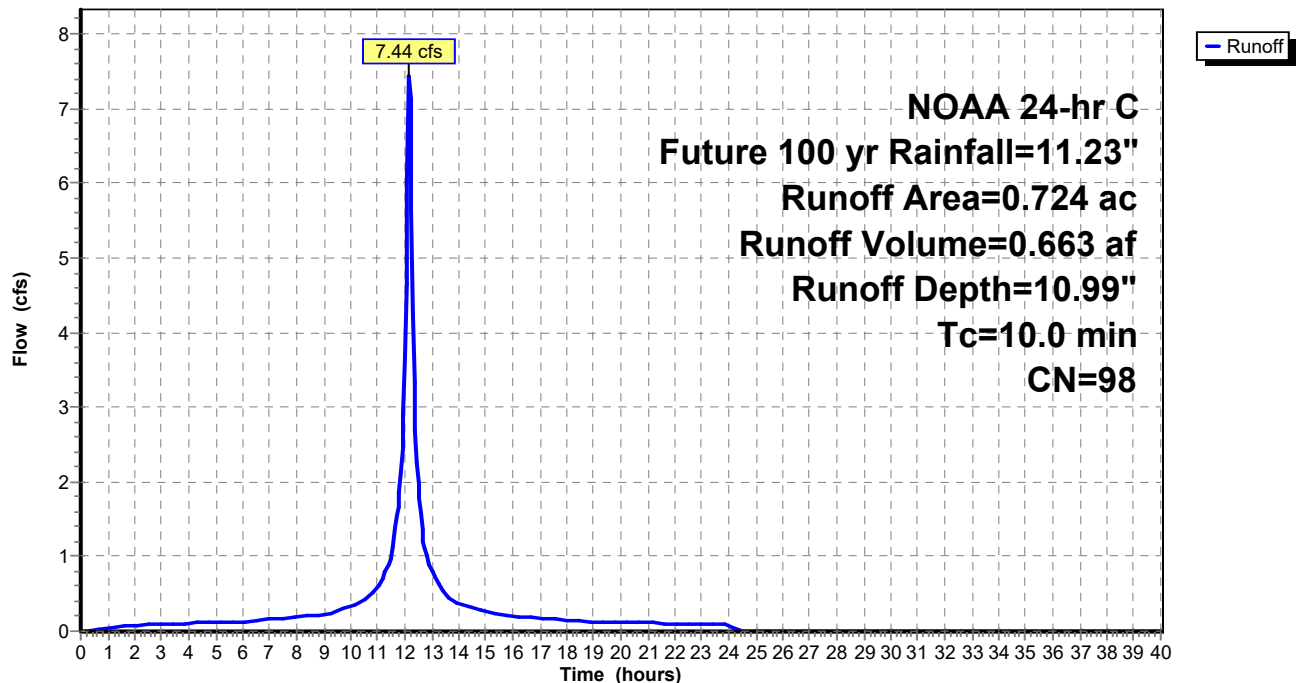
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 NOAA 24-hr C Future 100 yr Rainfall=11.23"

Area (ac)	CN	Description
* 0.490	98	Roof, HSG C
* 0.196	98	Pavement, HSG C
* 0.038	98	Concrete, HSG C
0.724	98	Weighted Average
0.724		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.0					Direct Entry,

Subcatchment 2I: PDA-2 (impervious)

Hydrograph



Summary for Subcatchment 2P: PDA-2 (pervious)

Runoff = 9.98 cfs @ 12.17 hrs, Volume= 0.770 af, Depth= 7.89"
 Routed to Pond B-2 : Basin #2

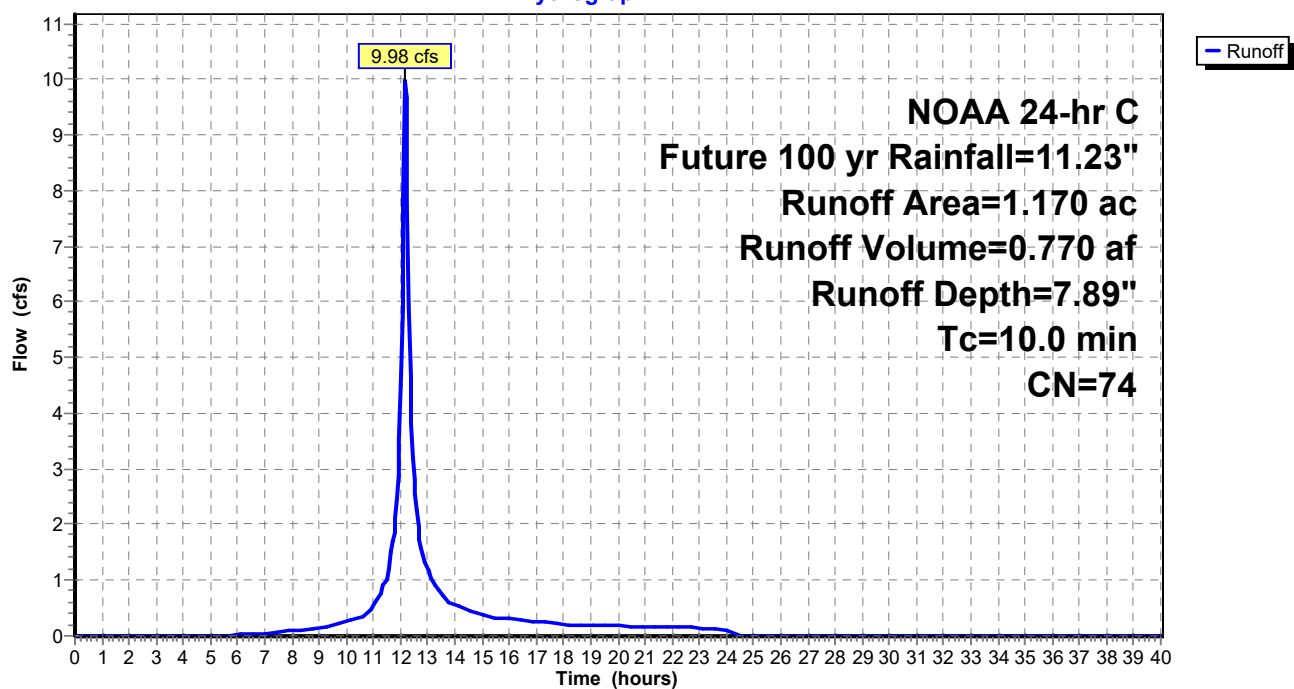
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 NOAA 24-hr C Future 100 yr Rainfall=11.23"

Area (ac)	CN	Description
1.170	74	>75% Grass cover, Good, HSG C
1.170		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.0					Direct Entry,

Subcatchment 2P: PDA-2 (pervious)

Hydrograph



Summary for Subcatchment 3I: PDA-3 (impervious)

Runoff = 6.12 cfs @ 12.17 hrs, Volume= 0.546 af, Depth=10.99"
 Routed to Pond B-3 : Basin #3

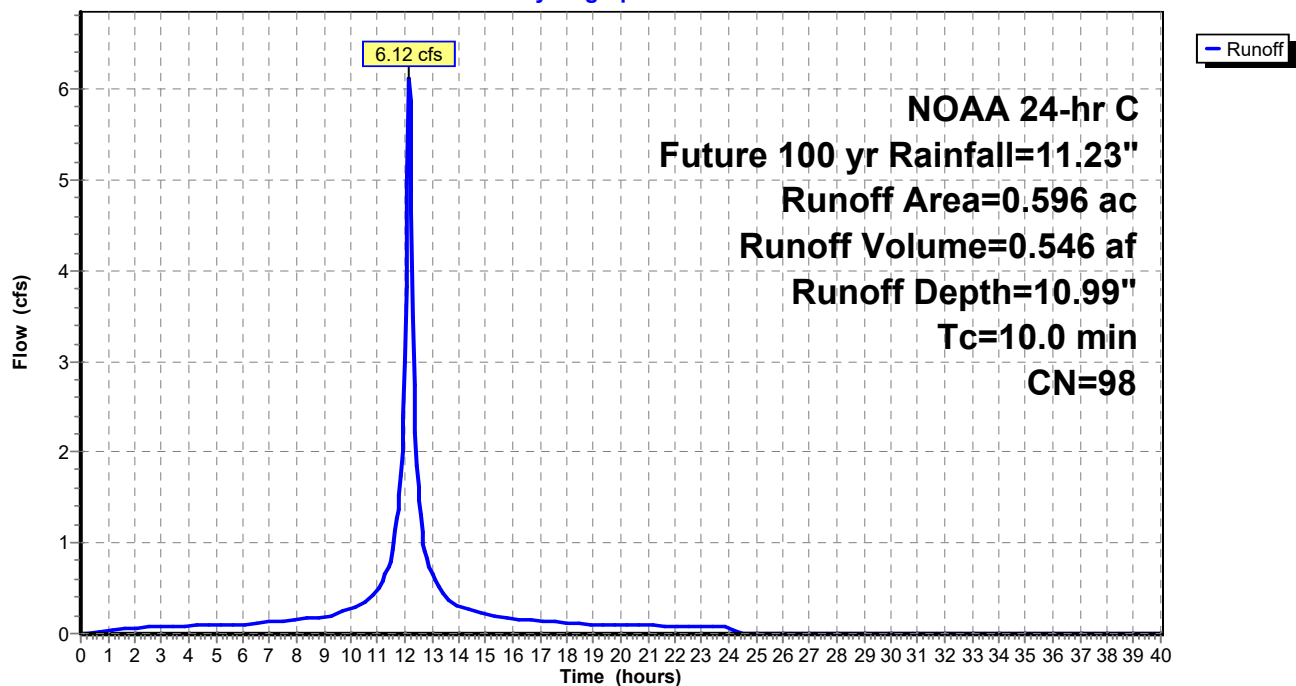
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 NOAA 24-hr C Future 100 yr Rainfall=11.23"

Area (ac)	CN	Description
* 0.304	98	Pavement, HSG C
* 0.035	98	Concrete, HSG C
0.257	98	Unconnected roofs, HSG C
0.596	98	Weighted Average
0.596		100.00% Impervious Area
0.257		43.12% Unconnected

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.0					Direct Entry,

Subcatchment 3I: PDA-3 (impervious)

Hydrograph



Summary for Subcatchment 3P: PDA-3 (pervious)

Runoff = 8.17 cfs @ 12.17 hrs, Volume= 0.630 af, Depth= 7.89"
 Routed to Pond B-3 : Basin #3

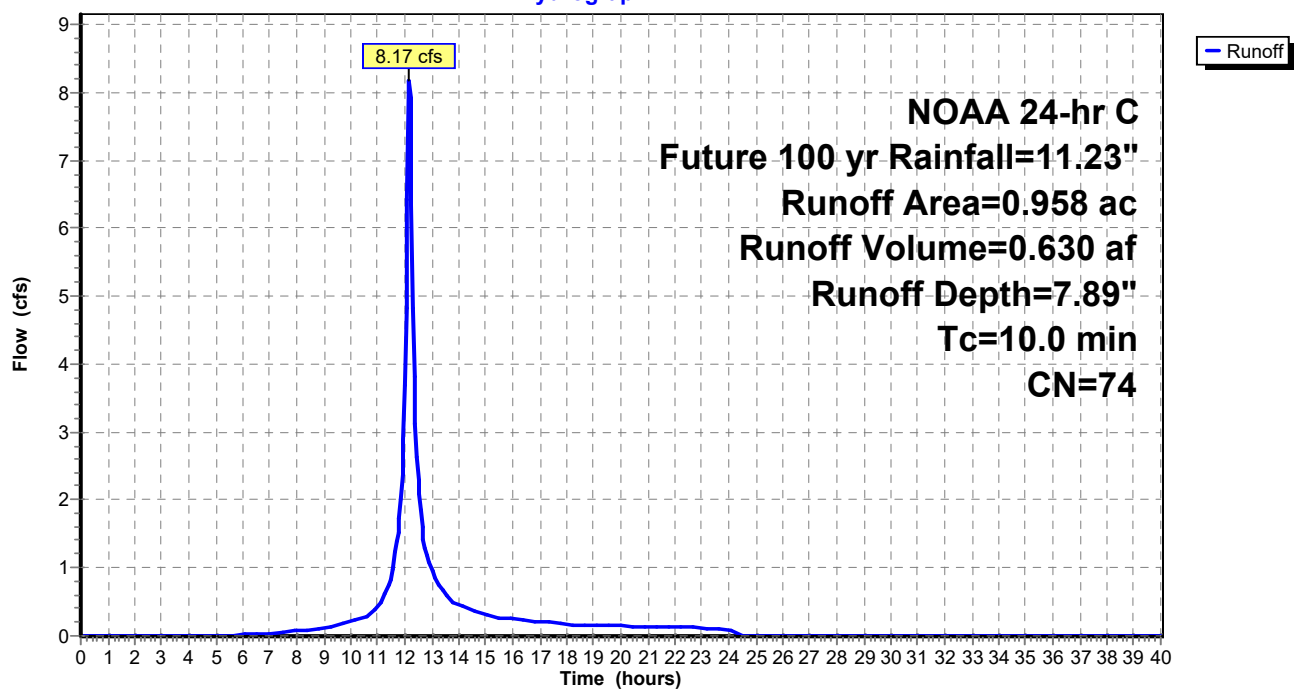
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 NOAA 24-hr C Future 100 yr Rainfall=11.23"

Area (ac)	CN	Description
0.958	74	>75% Grass cover, Good, HSG C
0.958		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.0					Direct Entry,

Subcatchment 3P: PDA-3 (pervious)

Hydrograph



Summary for Subcatchment 4A1: PDA-4A (impervious)

Runoff = 8.83 cfs @ 12.17 hrs, Volume= 0.788 af, Depth=10.99"
 Routed to Pond B-4A : Basin #4A

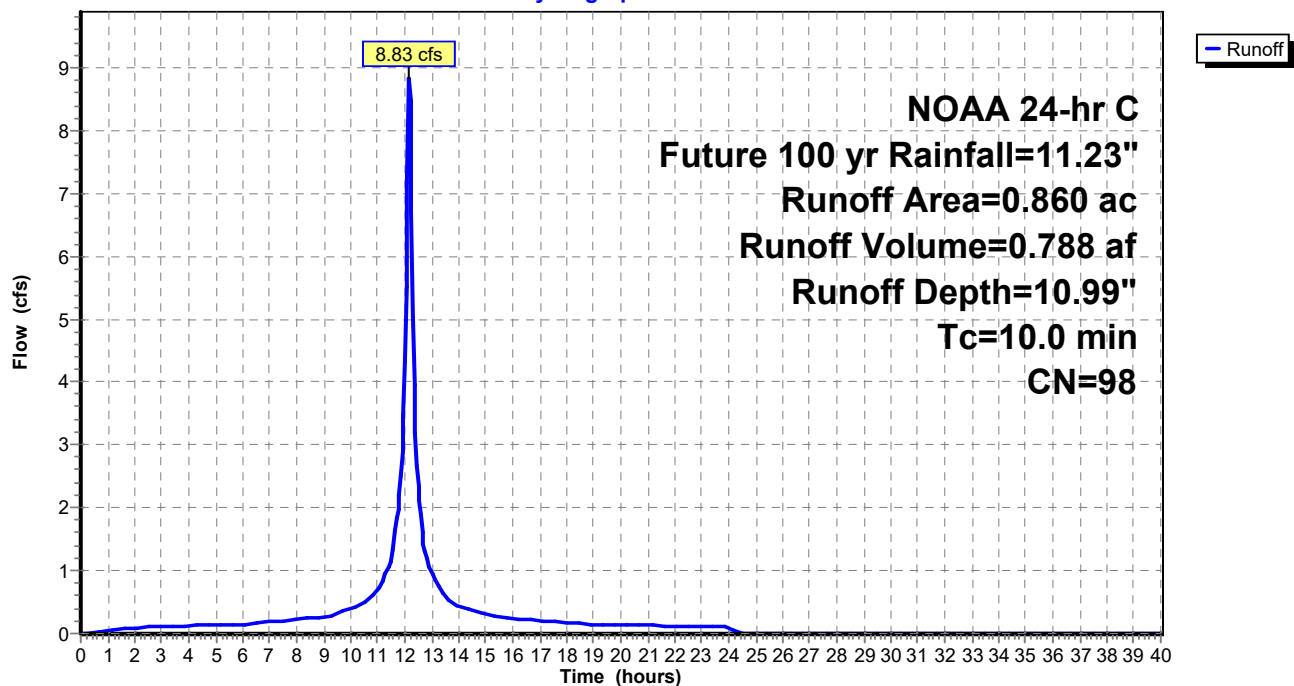
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 NOAA 24-hr C Future 100 yr Rainfall=11.23"

Area (ac)	CN	Description
* 0.742	98	Pavement, HSG C
* 0.118	98	Concrete, HSG C
0.860	98	Weighted Average
0.860		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.0					Direct Entry,

Subcatchment 4A1: PDA-4A (impervious)

Hydrograph



Summary for Subcatchment 4AP: PDA-4A (pervious)

Runoff = 12.55 cfs @ 12.17 hrs, Volume= 0.968 af, Depth= 7.89"
 Routed to Pond B-4A : Basin #4A

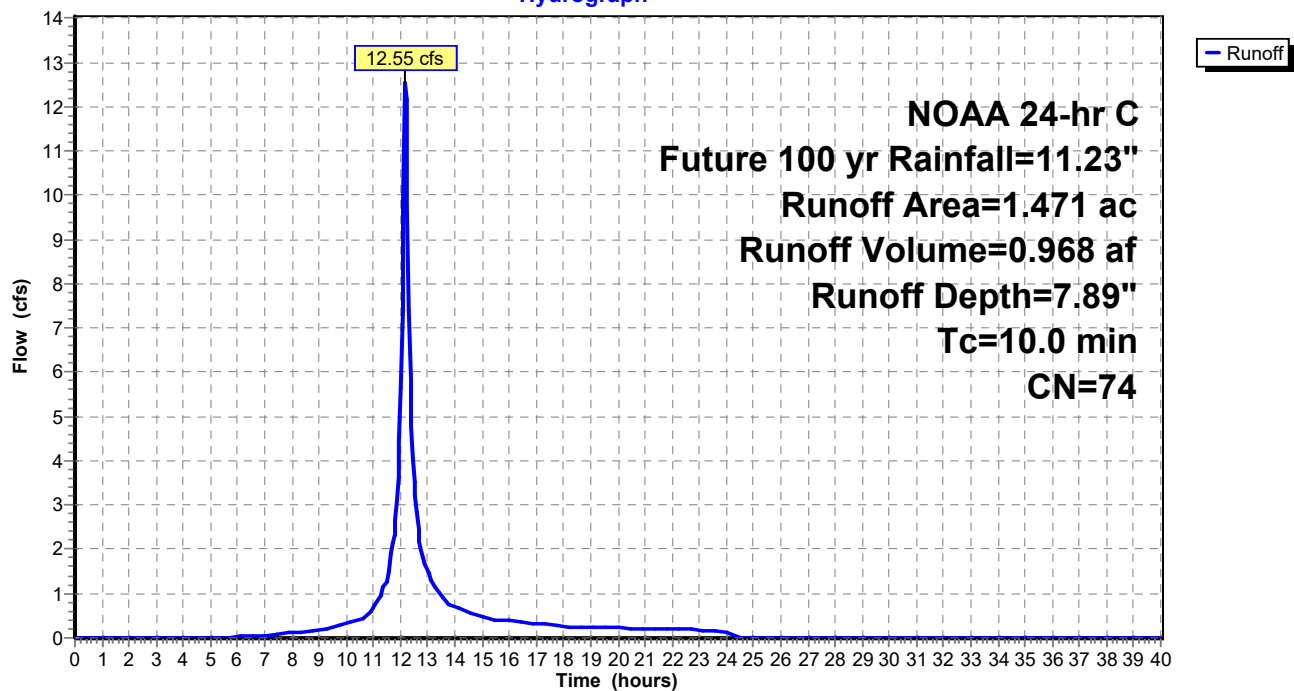
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 NOAA 24-hr C Future 100 yr Rainfall=11.23"

Area (ac)	CN	Description
1.471	74	>75% Grass cover, Good, HSG C
1.471		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.0					Direct Entry,

Subcatchment 4AP: PDA-4A (pervious)

Hydrograph



Summary for Subcatchment 4BI: PDA-4B (impervious)

Runoff = 8.83 cfs @ 12.17 hrs, Volume= 0.788 af, Depth=10.99"
 Routed to Pond B-4B : Basin #4B

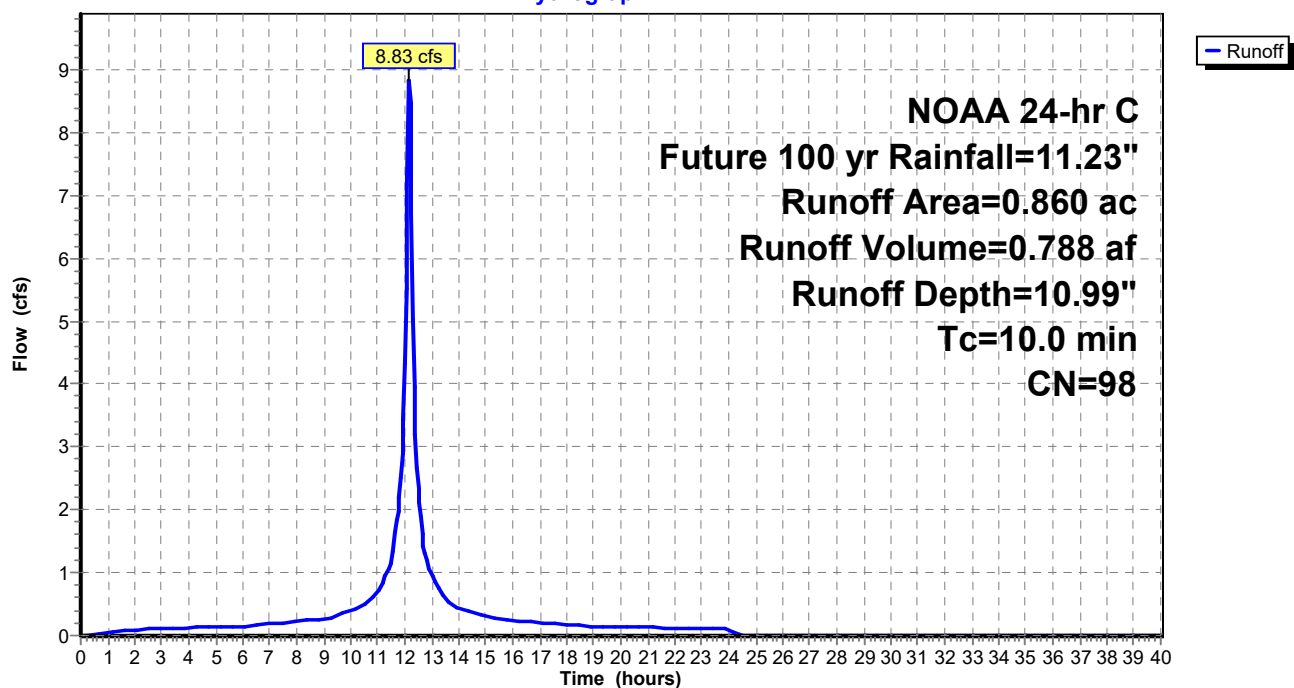
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 NOAA 24-hr C Future 100 yr Rainfall=11.23"

Area (ac)	CN	Description
* 0.742	98	Pavement, HSG C
* 0.118	98	Concrete, HSG C
0.860	98	Weighted Average
0.860		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.0					Direct Entry,

Subcatchment 4BI: PDA-4B (impervious)

Hydrograph



Summary for Subcatchment 4BP: PDA-4B (pervious)

Runoff = 12.55 cfs @ 12.17 hrs, Volume= 0.968 af, Depth= 7.89"
 Routed to Pond B-4B : Basin #4B

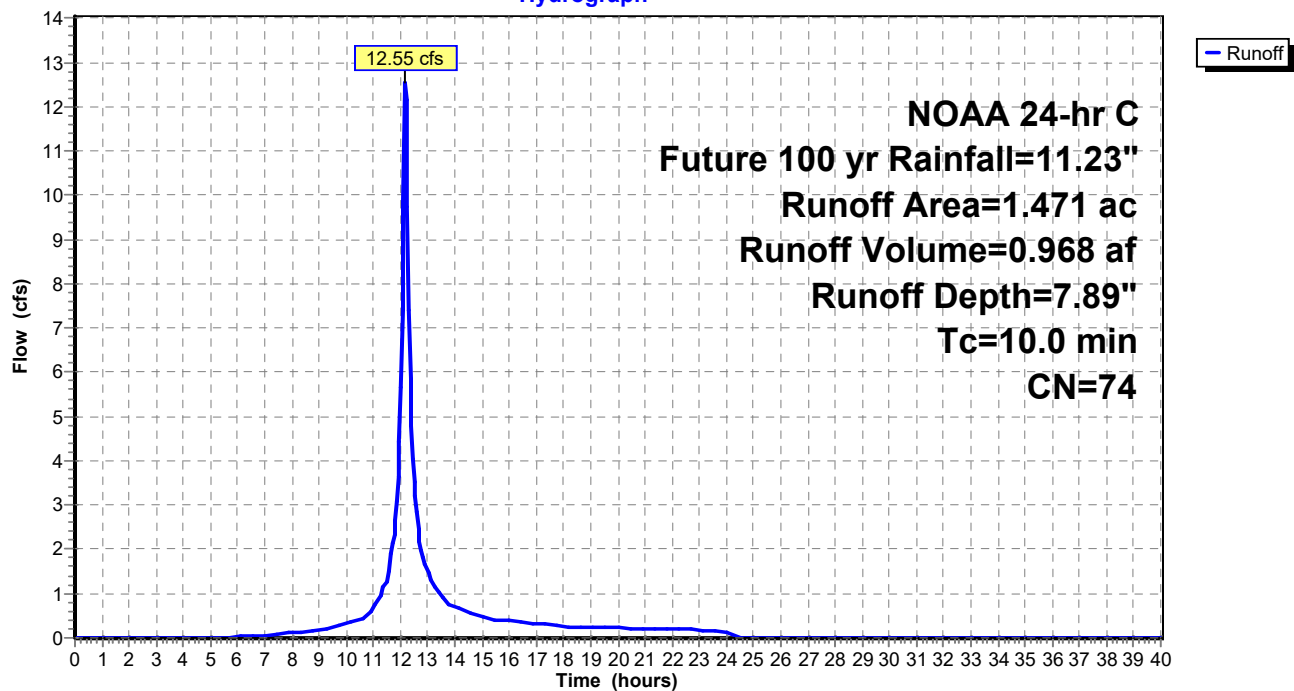
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 NOAA 24-hr C Future 100 yr Rainfall=11.23"

Area (ac)	CN	Description
1.471	74	>75% Grass cover, Good, HSG C
1.471		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.0					Direct Entry,

Subcatchment 4BP: PDA-4B (pervious)

Hydrograph



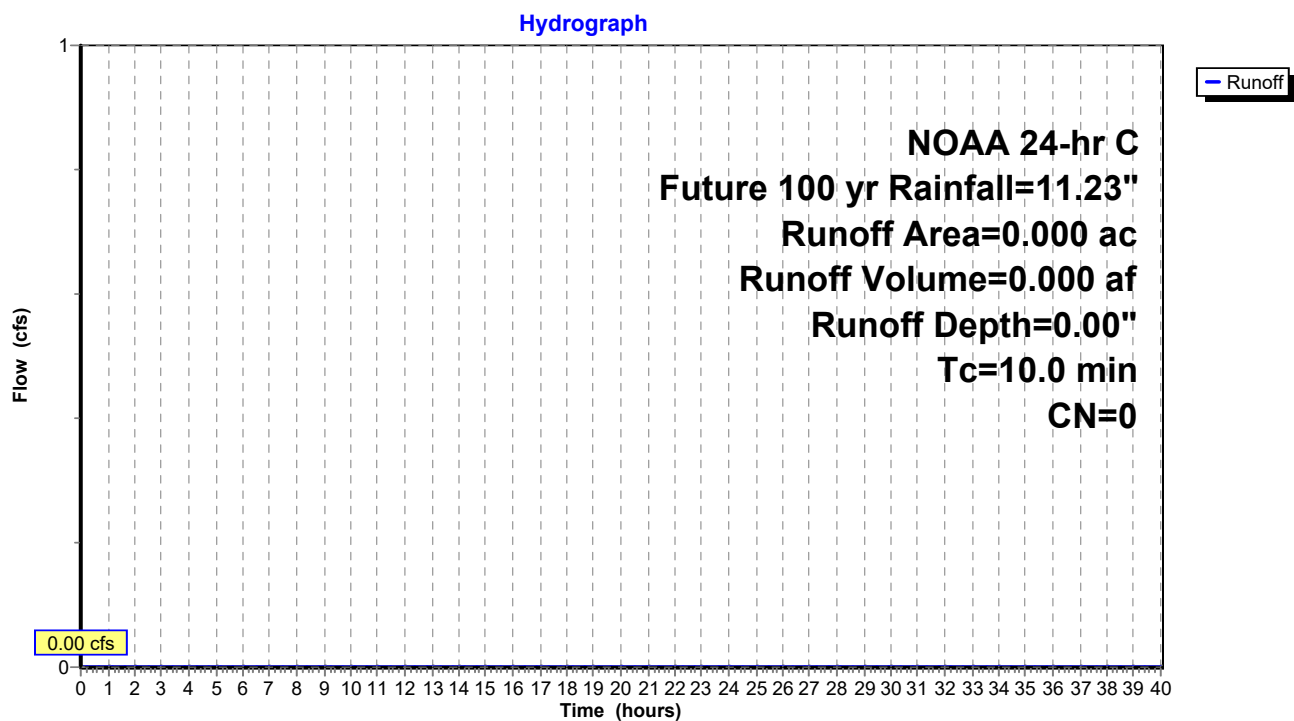
Summary for Subcatchment 5I: PDA-5 (impervious)

Runoff = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af, Depth= 0.00"
 Routed to Pond B-5 : Basin #5

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 NOAA 24-hr C Future 100 yr Rainfall=11.23"

Area (ac)	CN	Description
* 0.000	98	Pavement, HSG C
* 0.000	98	Concrete, HSG C
0.000	0	Weighted Average

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.0					Direct Entry,

Subcatchment 5I: PDA-5 (impervious)

Summary for Subcatchment 5P: PDA-5 (pervious)

Runoff = 5.79 cfs @ 12.17 hrs, Volume= 0.447 af, Depth= 7.89"
Routed to Pond B-5 : Basin #5

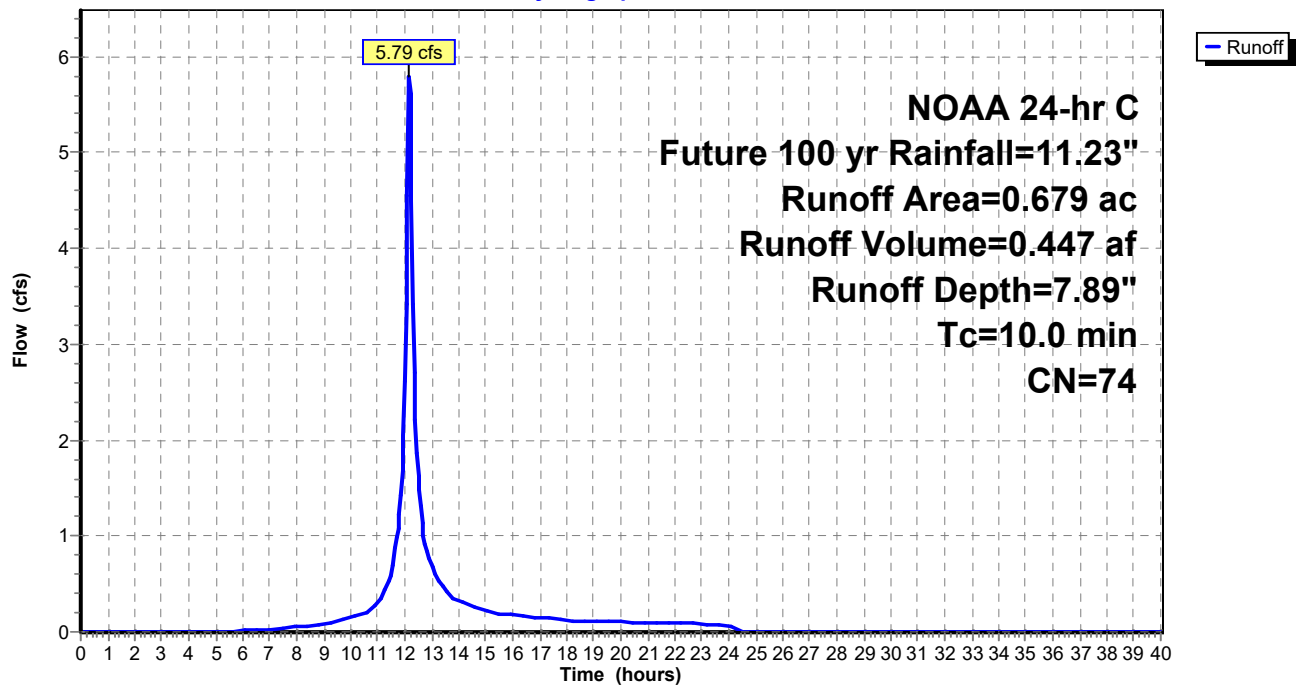
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
NOAA 24-hr C Future 100 yr Rainfall=11.23"

Area (ac)	CN	Description
0.679	74	>75% Grass cover, Good, HSG C
0.679		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.0					Direct Entry,

Subcatchment 5P: PDA-5 (pervious)

Hydrograph



Summary for Subcatchment 6I: PDA-6 (impervious)

Runoff = 7.13 cfs @ 12.17 hrs, Volume= 0.636 af, Depth=10.99"
 Routed to Pond B-6 : Basin #6

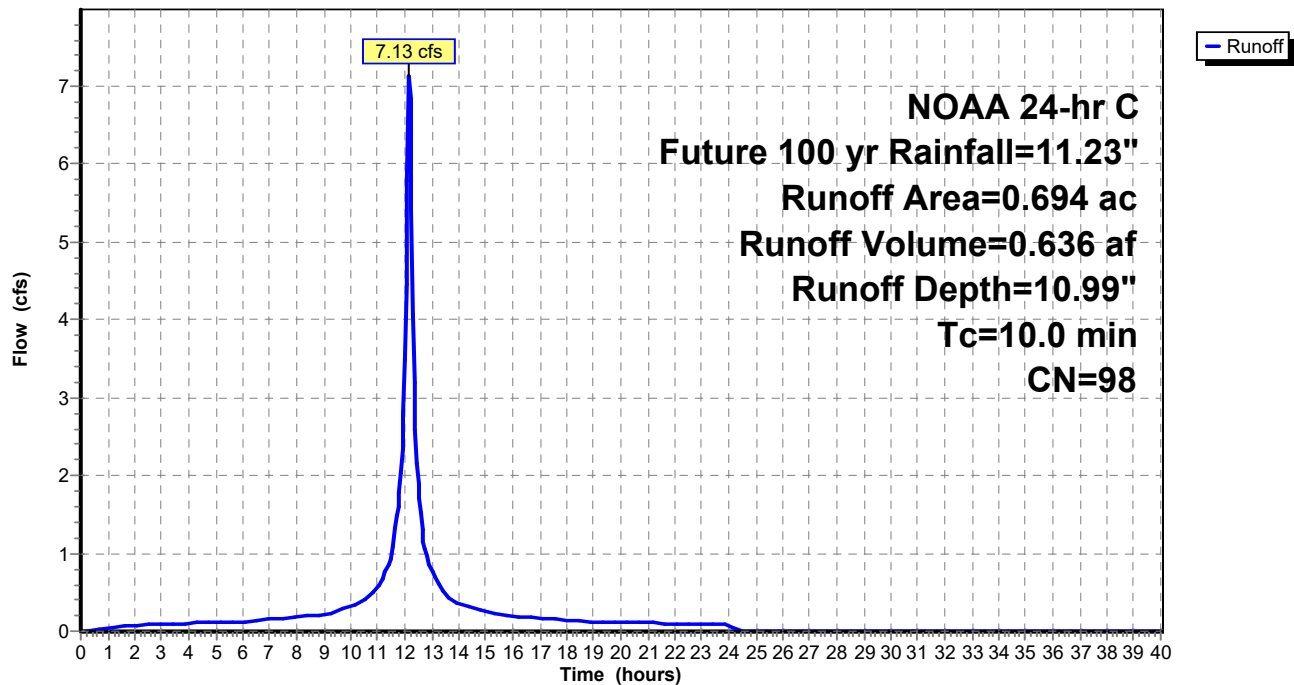
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 NOAA 24-hr C Future 100 yr Rainfall=11.23"

Area (ac)	CN	Description
* 0.459	98	Pavement, HSG C
* 0.129	98	Roof, HSG C
* 0.106	98	Concrete, HSG C
0.694	98	Weighted Average
0.694		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.0					Direct Entry,

Subcatchment 6I: PDA-6 (impervious)

Hydrograph



Summary for Subcatchment 6P: PDA-6 (pervious)

Runoff = 4.24 cfs @ 12.17 hrs, Volume= 0.327 af, Depth= 7.89"
 Routed to Pond B-6 : Basin #6

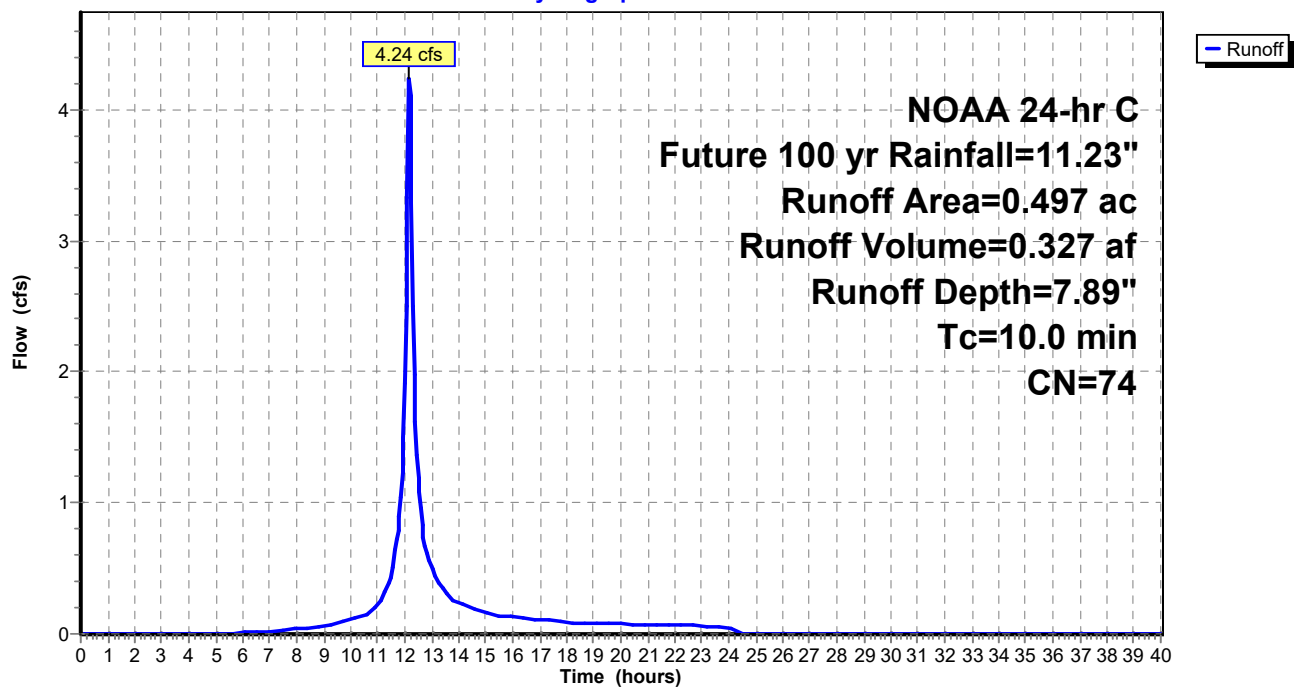
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 NOAA 24-hr C Future 100 yr Rainfall=11.23"

Area (ac)	CN	Description
0.497	74	>75% Grass cover, Good, HSG C
0.497		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.0					Direct Entry,

Subcatchment 6P: PDA-6 (pervious)

Hydrograph



Summary for Subcatchment 7I: PDA-7 (impervious)

Runoff = 10.10 cfs @ 12.17 hrs, Volume= 0.900 af, Depth=10.99"
 Routed to Pond B-7 : Basin #7

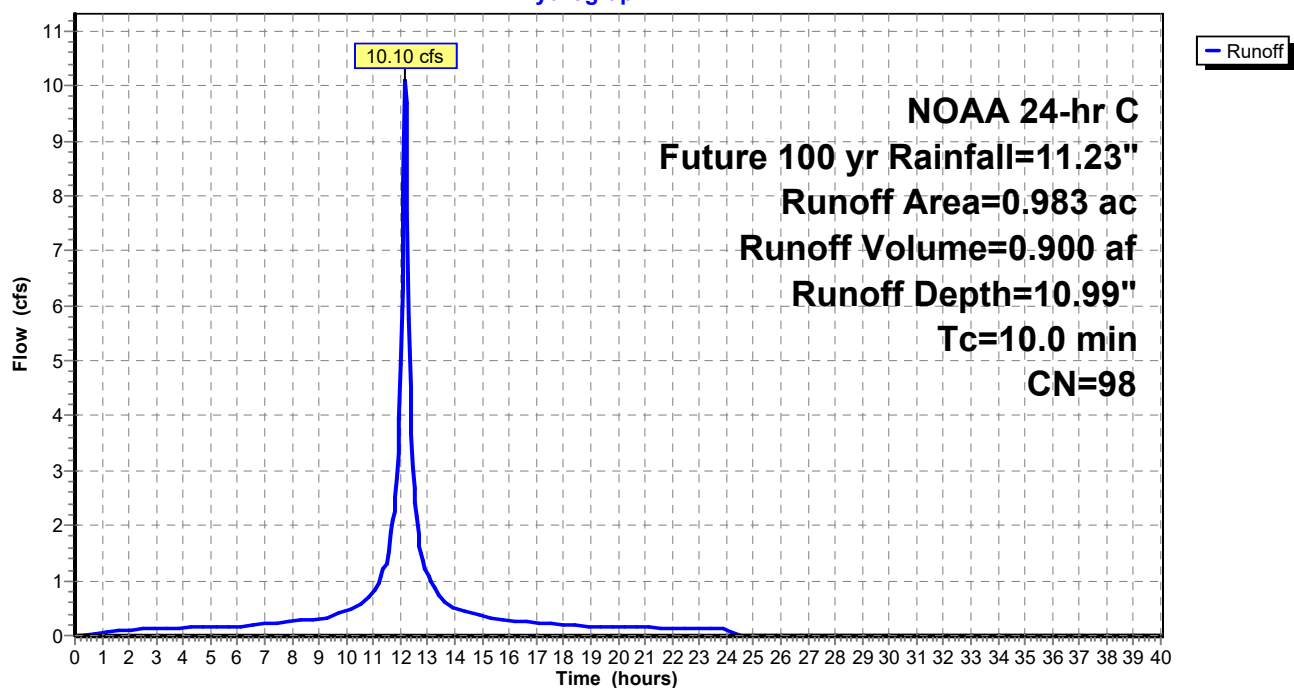
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 NOAA 24-hr C Future 100 yr Rainfall=11.23"

Area (ac)	CN	Description
* 0.886	98	Pavement, HSG C
* 0.097	98	Concrete, HSG C
0.983	98	Weighted Average
0.983		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.0					Direct Entry,

Subcatchment 7I: PDA-7 (impervious)

Hydrograph



Summary for Subcatchment 7P: PDA-7 (pervious)

Runoff = 4.96 cfs @ 12.17 hrs, Volume= 0.382 af, Depth= 7.89"
 Routed to Pond B-7 : Basin #7

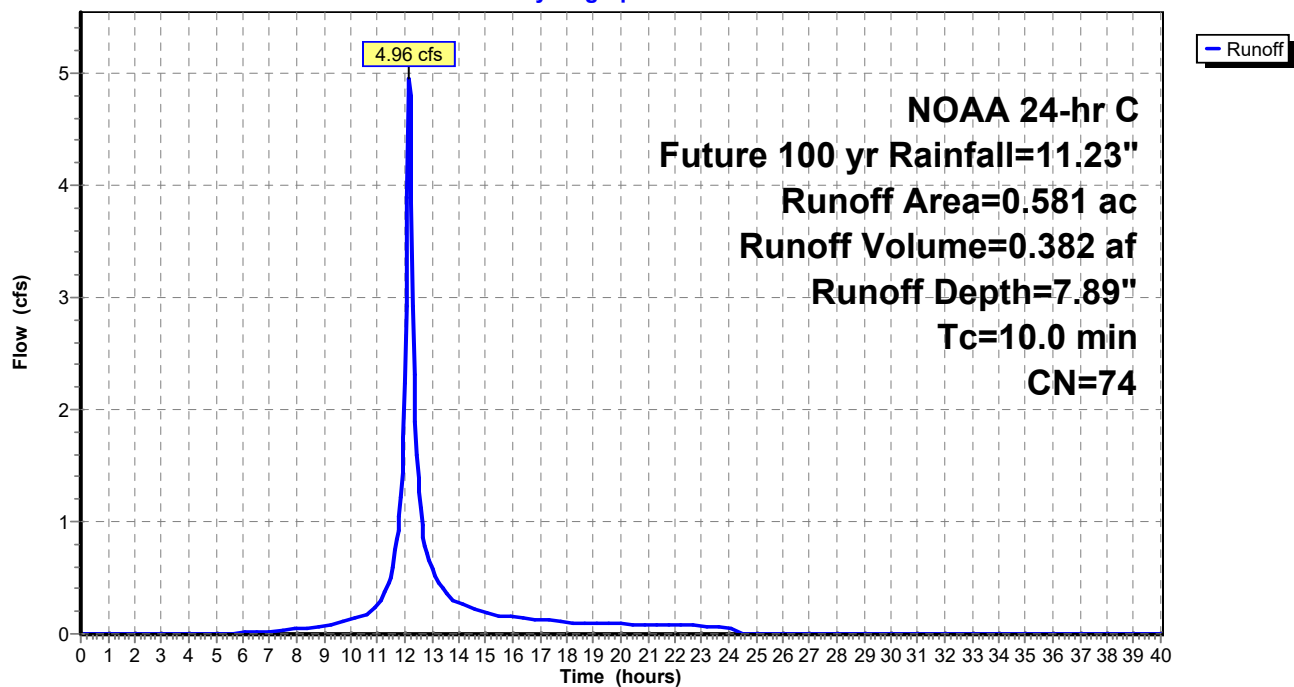
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 NOAA 24-hr C Future 100 yr Rainfall=11.23"

Area (ac)	CN	Description
0.581	74	>75% Grass cover, Good, HSG C
0.581		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.0					Direct Entry,

Subcatchment 7P: PDA-7 (pervious)

Hydrograph



Summary for Subcatchment 8I: PDA-8 (impervious)

Runoff = 4.95 cfs @ 12.17 hrs, Volume= 0.441 af, Depth=10.99"
 Routed to Pond B-8 : Basin #8

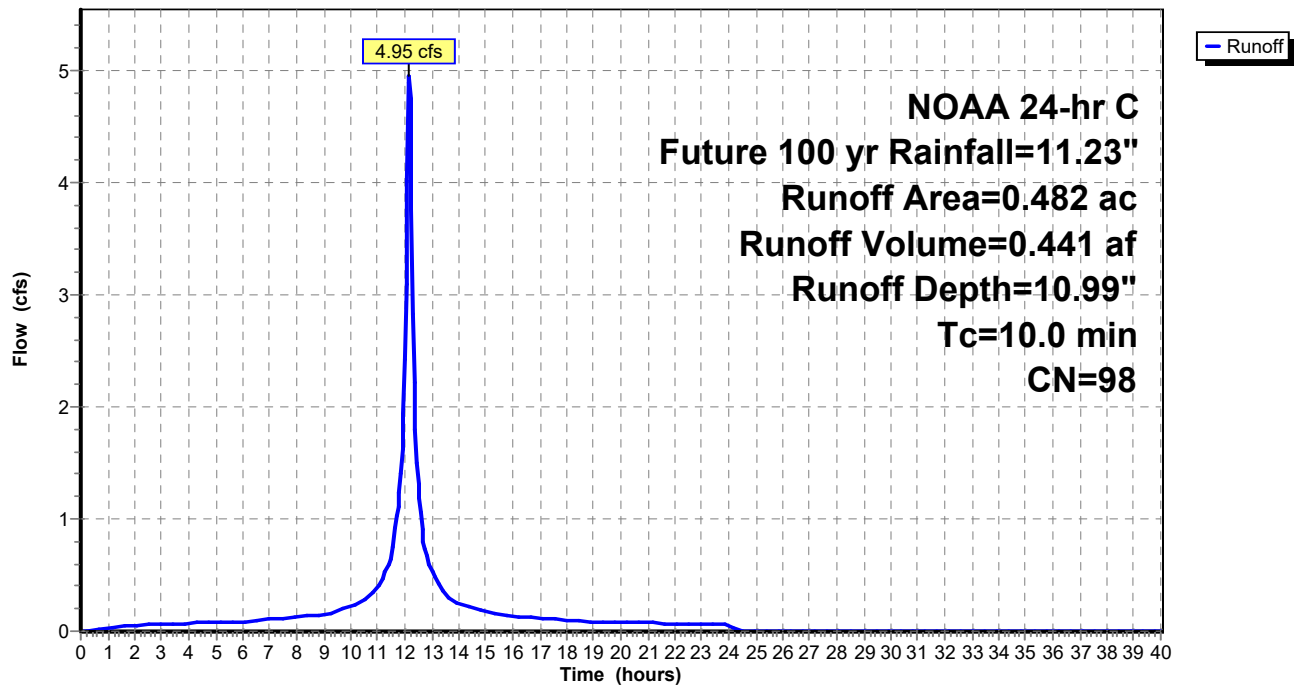
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 NOAA 24-hr C Future 100 yr Rainfall=11.23"

Area (ac)	CN	Description
* 0.000	98	Pavement, HSG C
* 0.482	98	Roof, HSG C
* 0.000	98	Concrete, HSG C
0.482	98	Weighted Average
0.482		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.0					Direct Entry,

Subcatchment 8I: PDA-8 (impervious)

Hydrograph



Summary for Subcatchment 8P: PDA-8 (pervious)

Runoff = 13.72 cfs @ 12.17 hrs, Volume= 1.058 af, Depth= 7.89"
 Routed to Pond B-8 : Basin #8

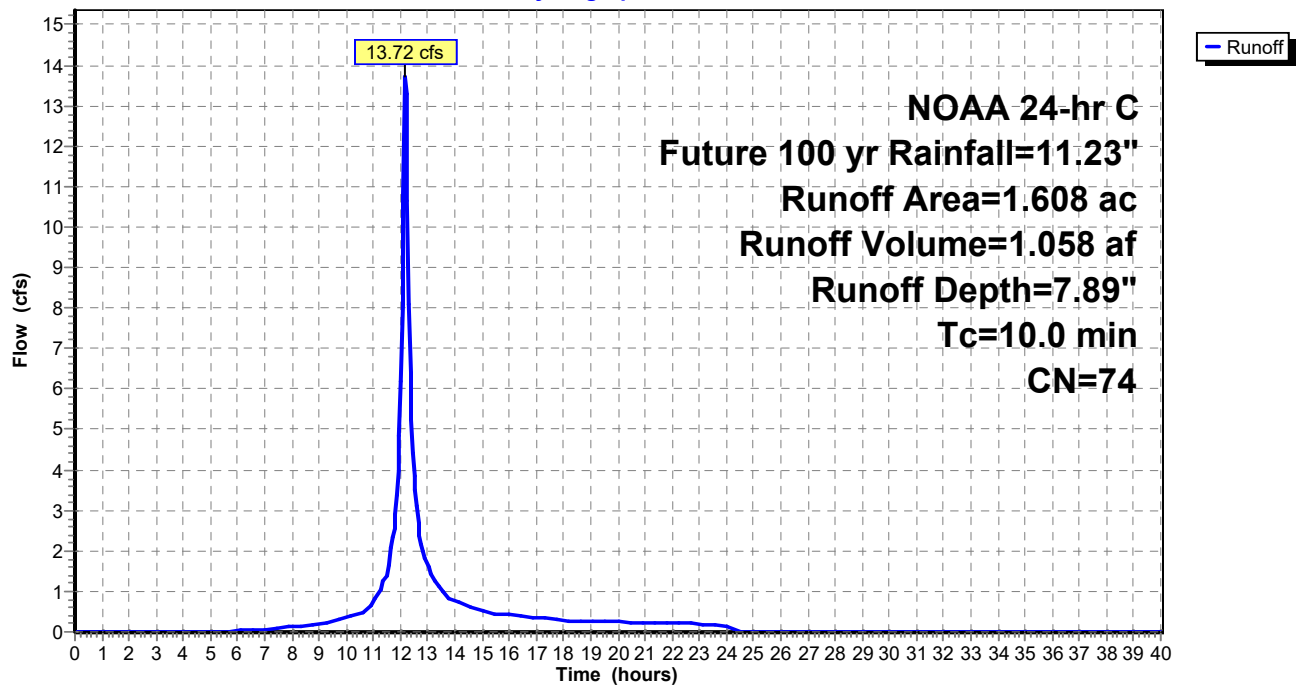
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 NOAA 24-hr C Future 100 yr Rainfall=11.23"

Area (ac)	CN	Description
1.608	74	>75% Grass cover, Good, HSG C
1.608		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.0					Direct Entry,

Subcatchment 8P: PDA-8 (pervious)

Hydrograph



Summary for Subcatchment 9I: PDA-9 (impervious)

Runoff = 8.13 cfs @ 12.17 hrs, Volume= 0.724 af, Depth=10.99"
 Routed to Pond B-9 : Basin #9

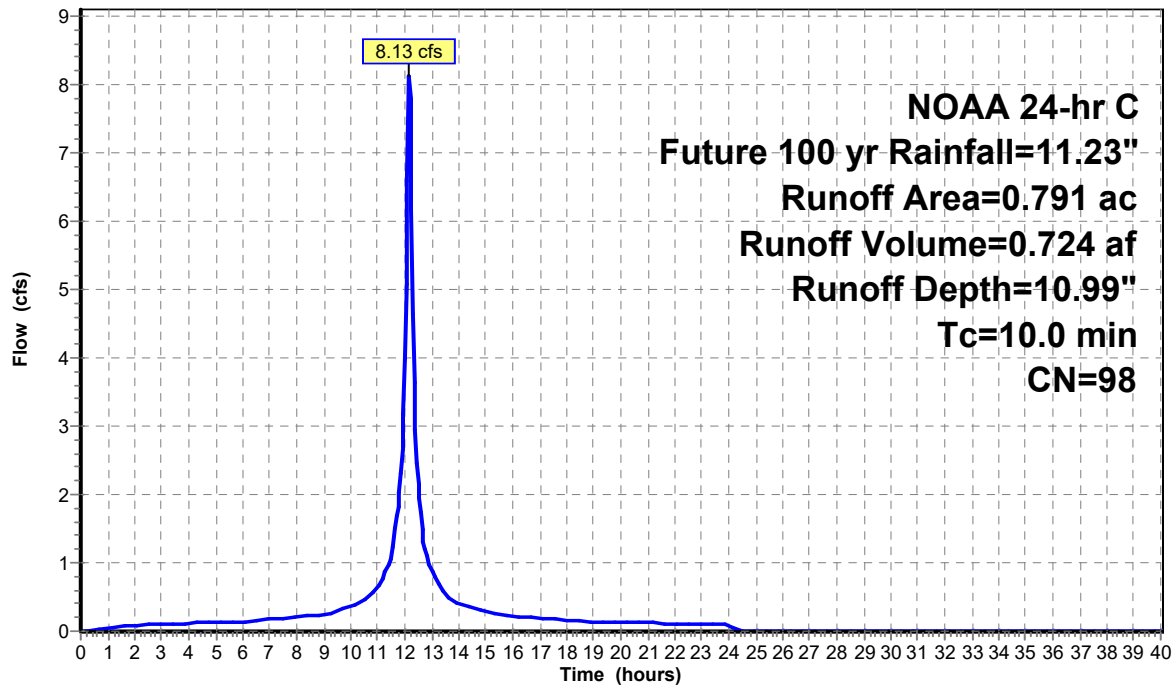
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 NOAA 24-hr C Future 100 yr Rainfall=11.23"

Area (ac)	CN	Description
* 0.286	98	Pavement, HSG C
* 0.450	98	Roof, HSG C
* 0.055	98	Concrete, HSG C
0.791	98	Weighted Average
0.791		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.0					Direct Entry,

Subcatchment 9I: PDA-9 (impervious)

Hydrograph



Summary for Subcatchment 9P: PDA-9 (pervious)

Runoff = 6.07 cfs @ 12.17 hrs, Volume= 0.468 af, Depth= 7.89"
 Routed to Pond B-9 : Basin #9

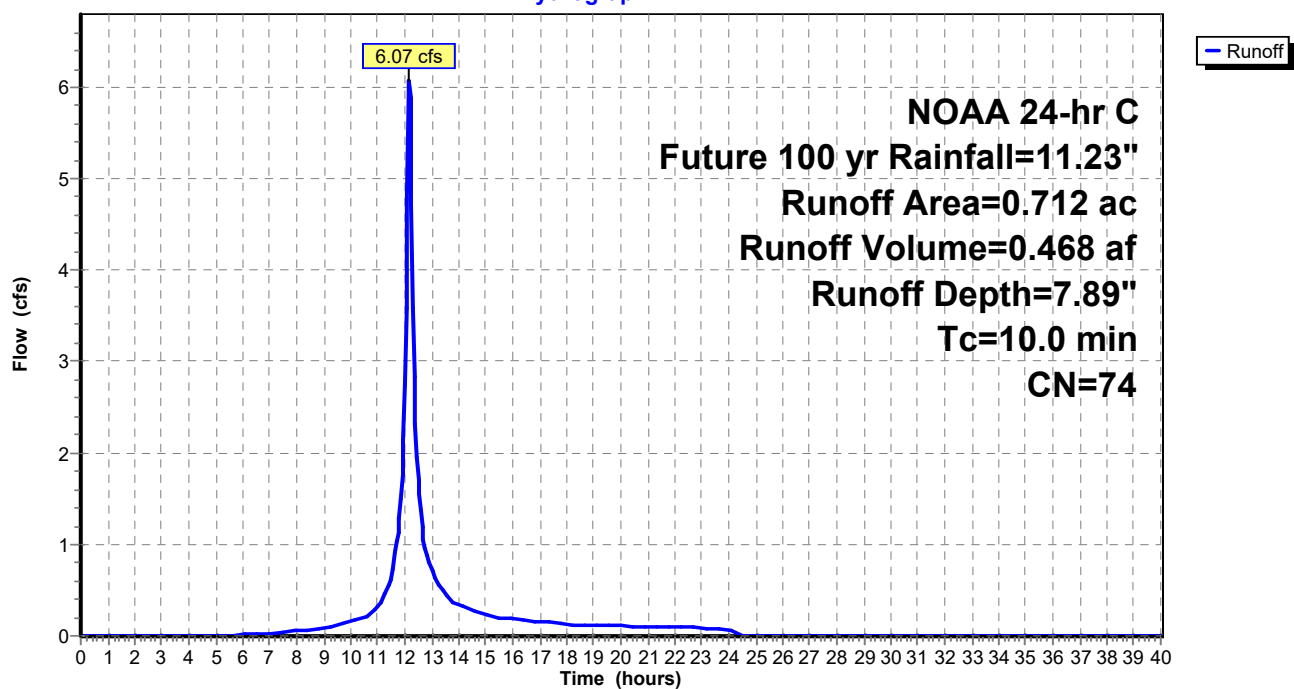
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 NOAA 24-hr C Future 100 yr Rainfall=11.23"

Area (ac)	CN	Description
0.712	74	>75% Grass cover, Good, HSG C
0.712		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.0					Direct Entry,

Subcatchment 9P: PDA-9 (pervious)

Hydrograph



Summary for Subcatchment 10I: PDA-10 (impervious)

Runoff = 9.74 cfs @ 12.17 hrs, Volume= 0.868 af, Depth=10.99"
 Routed to Pond B-10 : Basin #10

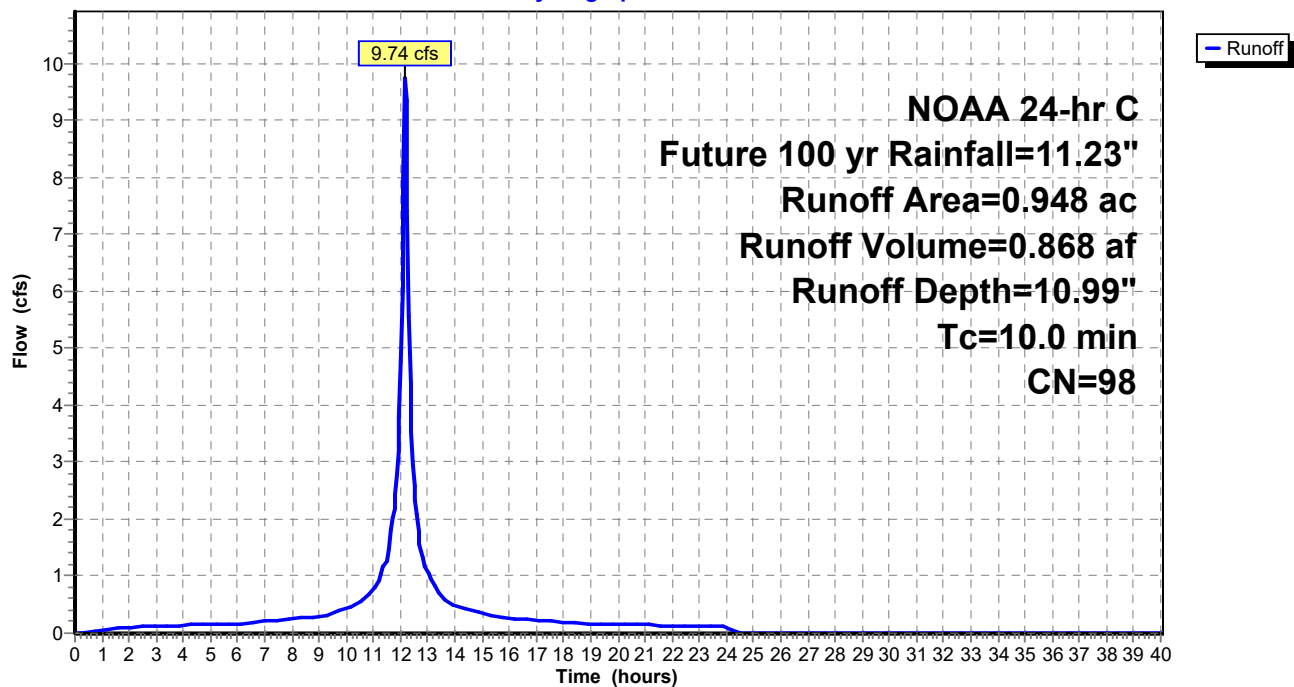
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 NOAA 24-hr C Future 100 yr Rainfall=11.23"

Area (ac)	CN	Description
* 0.570	98	Pavement, HSG C
* 0.321	98	Roof, HSG C
* 0.057	98	Concrete, HSG C
0.948	98	Weighted Average
0.948		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.0					Direct Entry,

Subcatchment 10I: PDA-10 (impervious)

Hydrograph



Summary for Subcatchment 10P: PDA-10 (pervious)

Runoff = 6.19 cfs @ 12.17 hrs, Volume= 0.478 af, Depth= 7.89"
 Routed to Pond B-10 : Basin #10

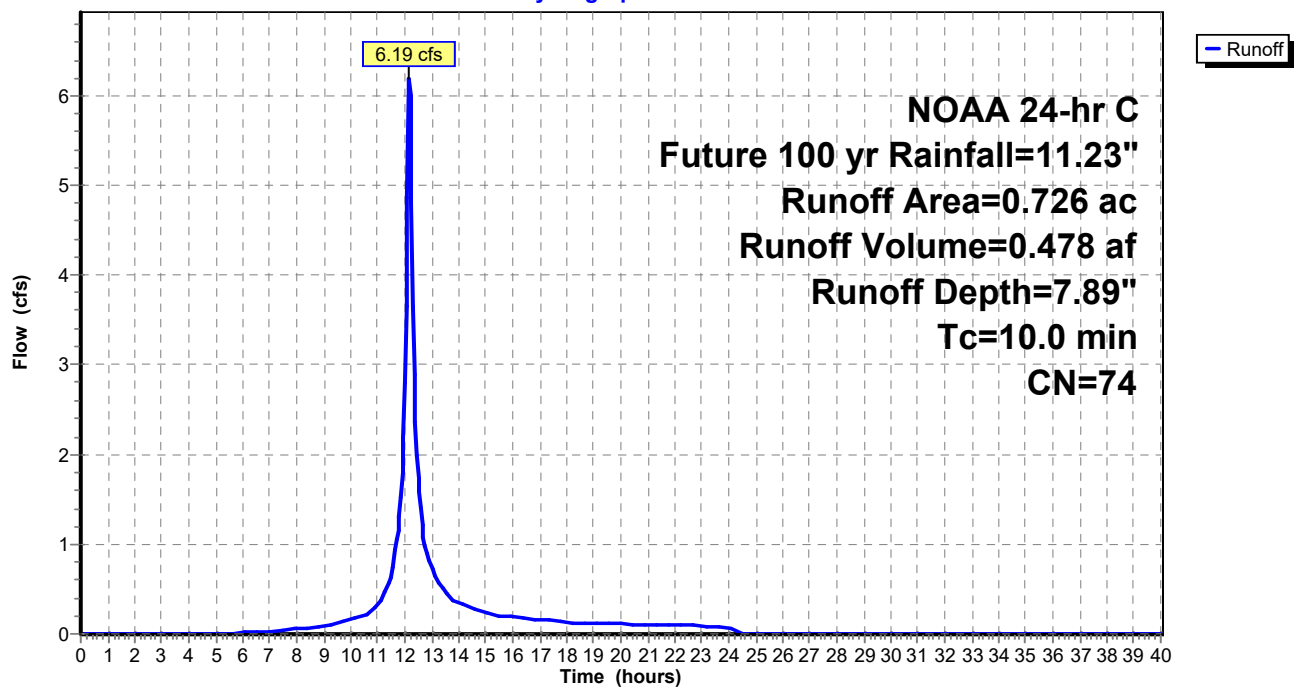
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 NOAA 24-hr C Future 100 yr Rainfall=11.23"

Area (ac)	CN	Description
0.726	74	>75% Grass cover, Good, HSG C
0.726		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.0					Direct Entry,

Subcatchment 10P: PDA-10 (pervious)

Hydrograph



Summary for Subcatchment 11I: PDA-11 (impervious)

Runoff = 13.40 cfs @ 12.17 hrs, Volume= 1.194 af, Depth=10.99"
 Routed to Pond B-11 : Basin #11

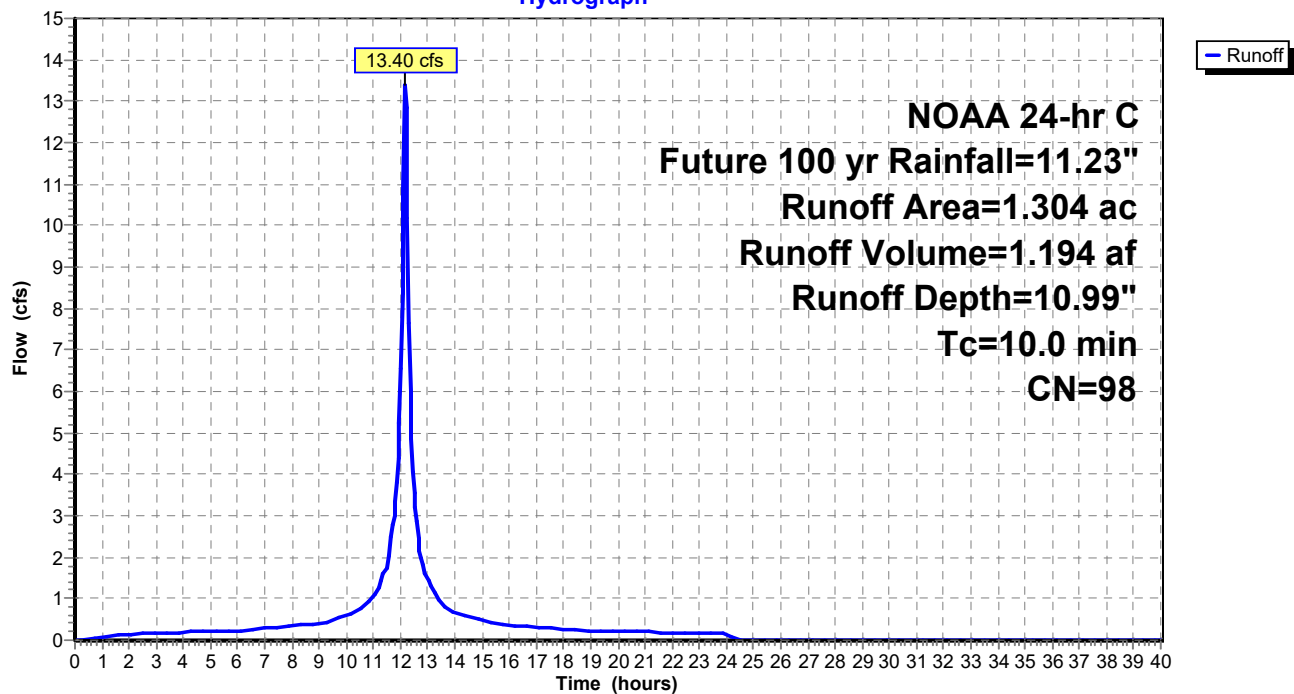
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 NOAA 24-hr C Future 100 yr Rainfall=11.23"

Area (ac)	CN	Description
* 0.166	98	Concrete, HSG C
0.231	98	Roofs, HSG C
0.907	98	Paved roads w/curbs & sewers, HSG C
1.304	98	Weighted Average
1.304		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.0					Direct Entry,

Subcatchment 11I: PDA-11 (impervious)

Hydrograph



Summary for Subcatchment 11P: PDA-11 (pervious)

Runoff = 7.88 cfs @ 12.17 hrs, Volume= 0.608 af, Depth= 7.89"
 Routed to Pond B-11 : Basin #11

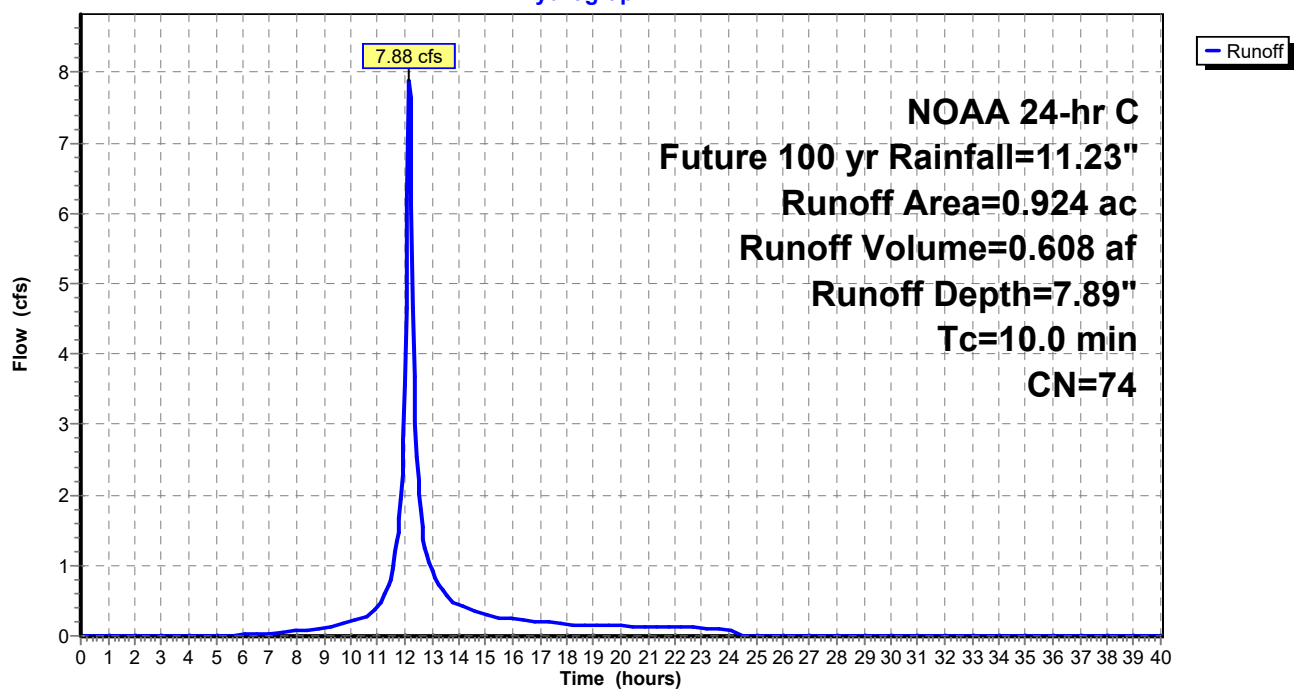
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 NOAA 24-hr C Future 100 yr Rainfall=11.23"

Area (ac)	CN	Description
0.924	74	>75% Grass cover, Good, HSG C
0.924		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.0					Direct Entry,

Subcatchment 11P: PDA-11 (pervious)

Hydrograph



Summary for Subcatchment 12I: PDA-12 (impervious)

Runoff = 11.16 cfs @ 12.17 hrs, Volume= 0.994 af, Depth=10.99"
 Routed to Pond B-12 : Basin #12

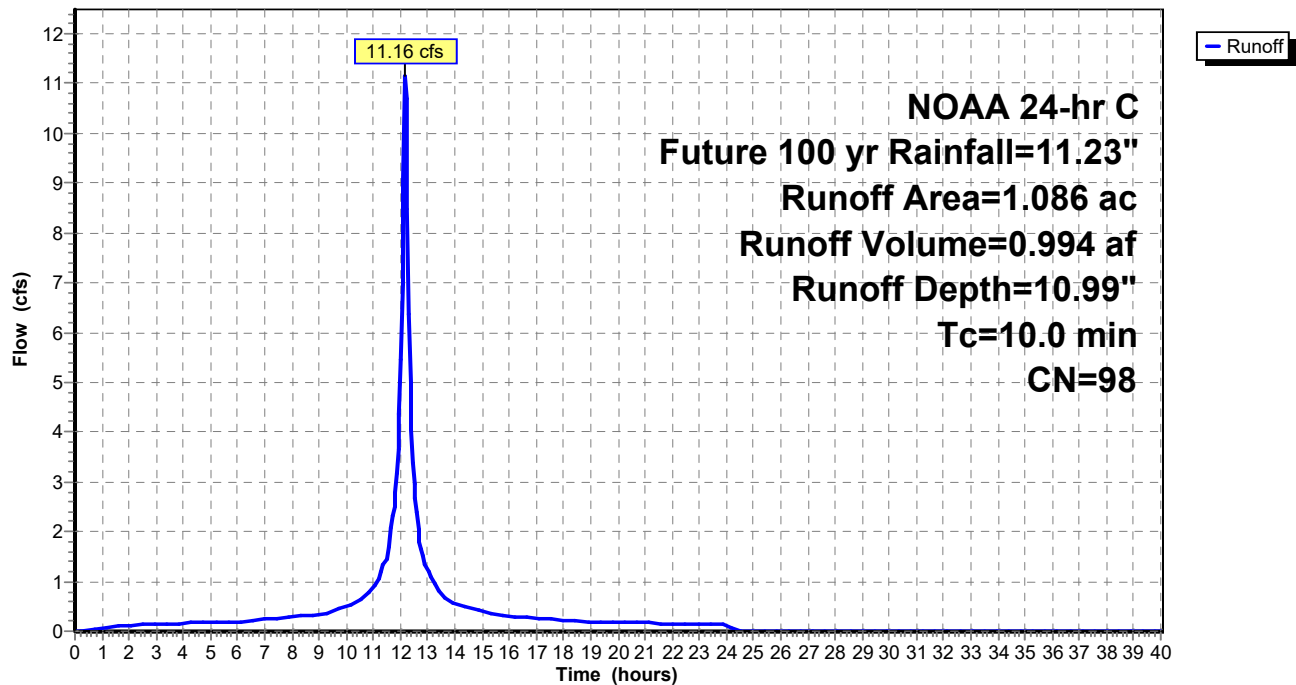
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 NOAA 24-hr C Future 100 yr Rainfall=11.23"

Area (ac)	CN	Description
* 0.404	98	Pavement, HSG C
* 0.643	98	Roof, HSG C
* 0.039	98	Concrete, HSG C
1.086	98	Weighted Average
1.086		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.0					Direct Entry,

Subcatchment 12I: PDA-12 (impervious)

Hydrograph



Summary for Subcatchment 12P: PDA-12 (pervious)

Runoff = 11.43 cfs @ 12.17 hrs, Volume= 0.881 af, Depth= 7.89"
 Routed to Pond B-12 : Basin #12

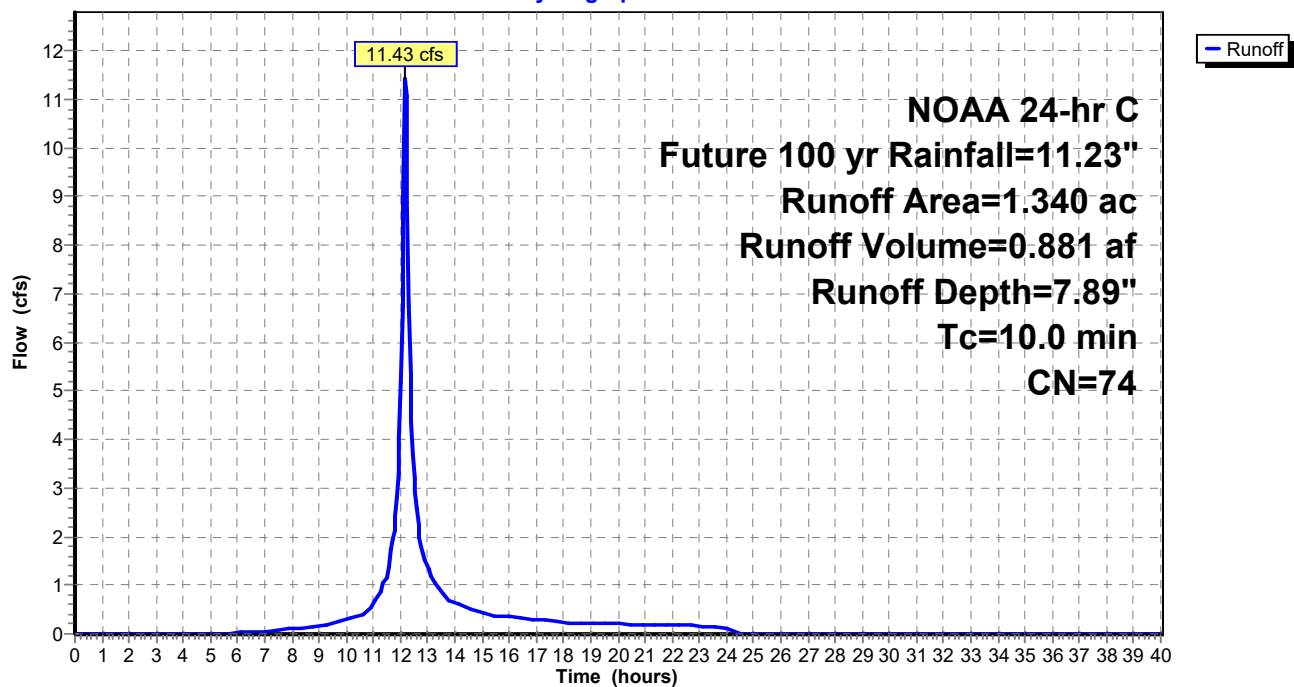
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 NOAA 24-hr C Future 100 yr Rainfall=11.23"

Area (ac)	CN	Description
1.340	74	>75% Grass cover, Good, HSG C
1.340		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.0					Direct Entry,

Subcatchment 12P: PDA-12 (pervious)

Hydrograph



Summary for Subcatchment 13I: PDA-13 (impervious)

Runoff = 15.07 cfs @ 12.17 hrs, Volume= 1.343 af, Depth=10.99"
 Routed to Pond B-13 : Basin #13

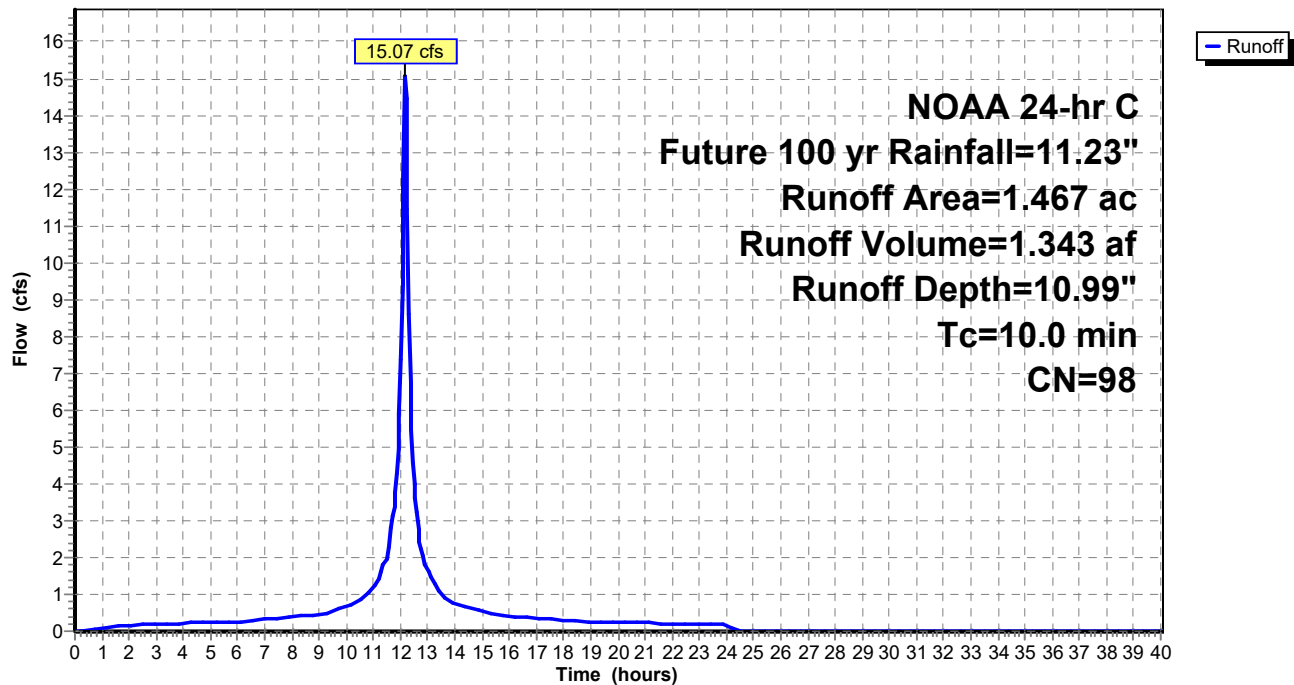
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 NOAA 24-hr C Future 100 yr Rainfall=11.23"

Area (ac)	CN	Description
* 0.678	98	Pavement, HSG C
* 0.707	98	Roof, HSG C
* 0.082	98	Concrete, HSG C
1.467	98	Weighted Average
1.467		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.0					Direct Entry,

Subcatchment 13I: PDA-13 (impervious)

Hydrograph



Summary for Subcatchment 13P: PDA-13 (pervious)

Runoff = 7.53 cfs @ 12.17 hrs, Volume= 0.581 af, Depth= 7.89"
 Routed to Pond B-13 : Basin #13

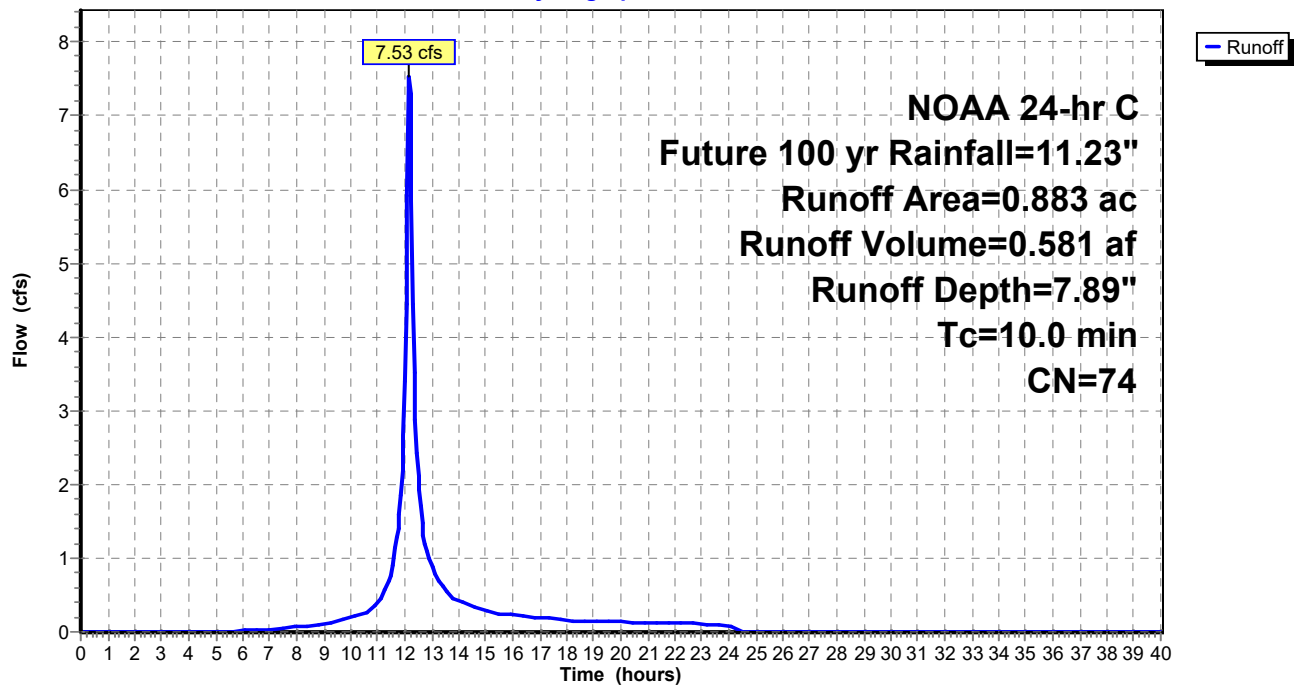
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 NOAA 24-hr C Future 100 yr Rainfall=11.23"

Area (ac)	CN	Description
0.883	74	>75% Grass cover, Good, HSG C
0.883		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.0					Direct Entry,

Subcatchment 13P: PDA-13 (pervious)

Hydrograph



Summary for Subcatchment 14I: PDA-14 (impervious)

Runoff = 5.22 cfs @ 12.17 hrs, Volume= 0.465 af, Depth=10.99"
 Routed to Pond B-14 : Basin #14

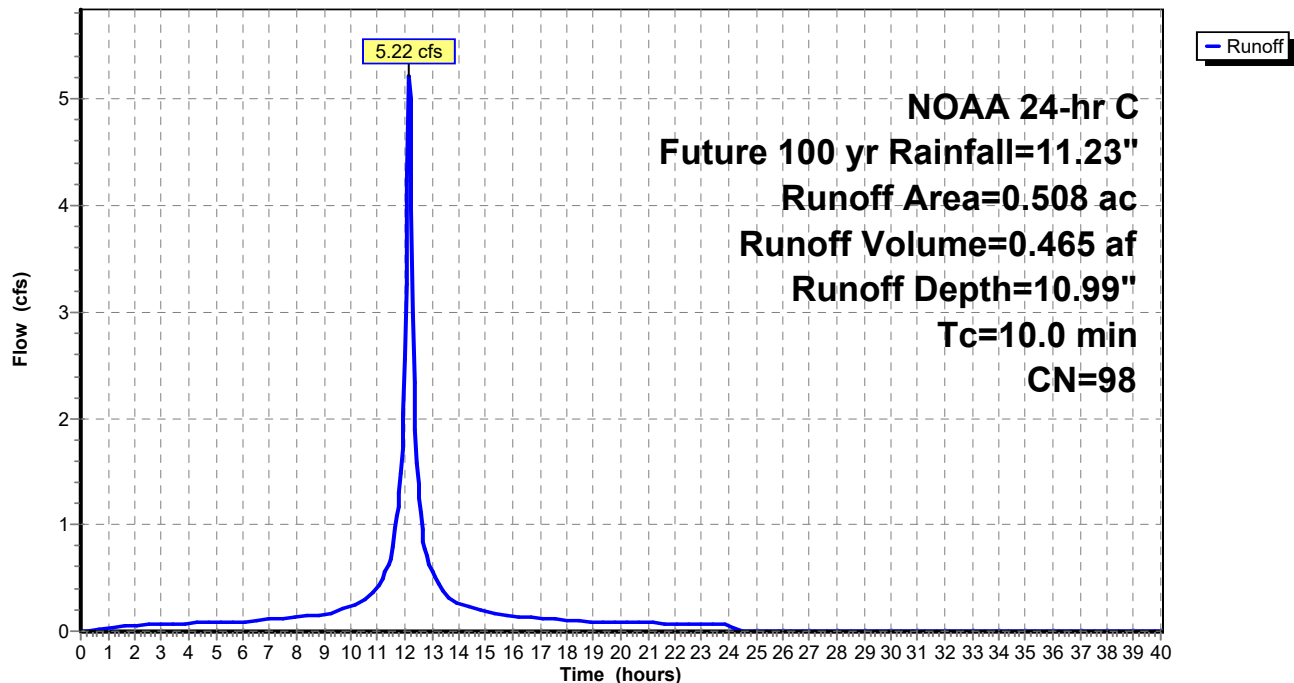
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 NOAA 24-hr C Future 100 yr Rainfall=11.23"

Area (ac)	CN	Description
* 0.308	98	Pavement, HSG C
* 0.064	98	Roof, HSG C
* 0.136	98	Concrete, HSG C
0.508	98	Weighted Average
0.508		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.0					Direct Entry,

Subcatchment 14I: PDA-14 (impervious)

Hydrograph



Summary for Subcatchment 14P: PDA-14 (pervious)

Runoff = 13.99 cfs @ 12.17 hrs, Volume= 1.079 af, Depth= 7.89"
 Routed to Pond B-14 : Basin #14

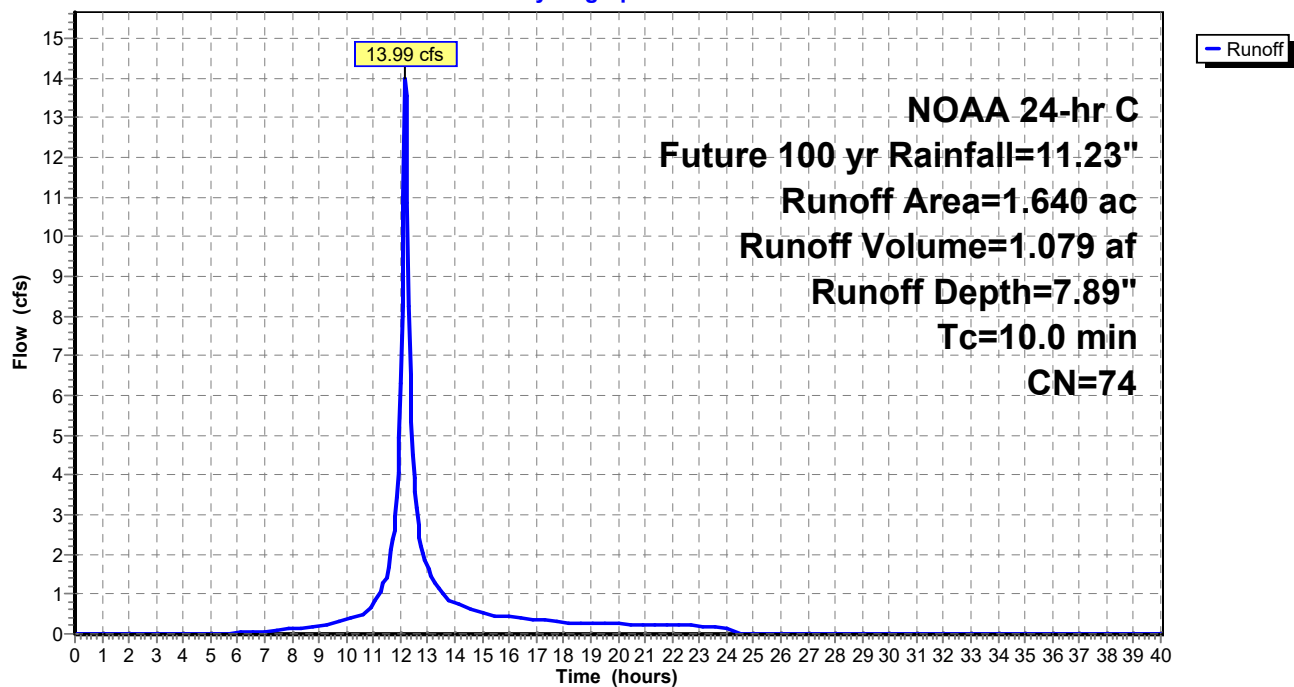
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 NOAA 24-hr C Future 100 yr Rainfall=11.23"

Area (ac)	CN	Description
1.640	74	>75% Grass cover, Good, HSG C
1.640		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.0					Direct Entry,

Subcatchment 14P: PDA-14 (pervious)

Hydrograph



Summary for Subcatchment 15I: PDA-15 (impervious)

Runoff = 14.27 cfs @ 12.17 hrs, Volume= 1.272 af, Depth=10.99"
 Routed to Pond B-15 : Basin #15

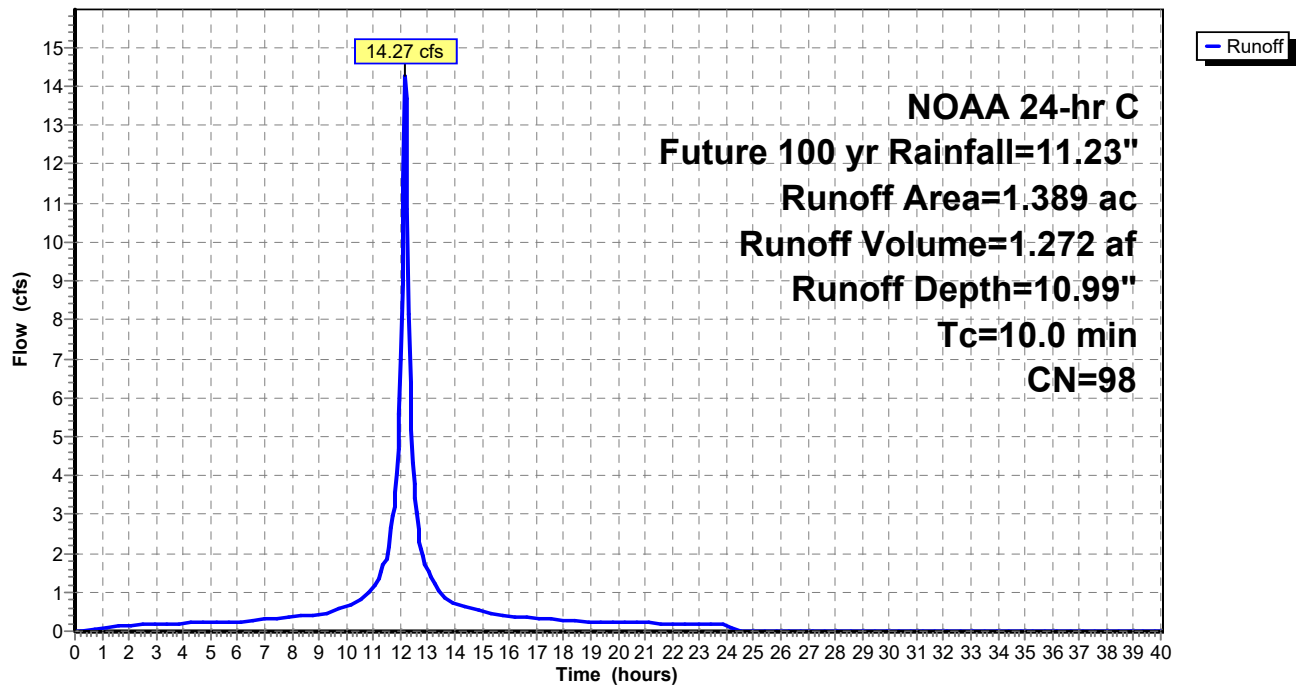
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 NOAA 24-hr C Future 100 yr Rainfall=11.23"

Area (ac)	CN	Description
* 0.501	98	Pavement, HSG C
* 0.836	98	Roof, HSG C
* 0.052	98	Concrete, HSG C
1.389	98	Weighted Average
1.389		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.0					Direct Entry,

Subcatchment 15I: PDA-15 (impervious)

Hydrograph



Summary for Subcatchment 15P: PDA-15 (pervious)

Runoff = 8.33 cfs @ 12.17 hrs, Volume= 0.642 af, Depth= 7.89"
 Routed to Pond B-15 : Basin #15

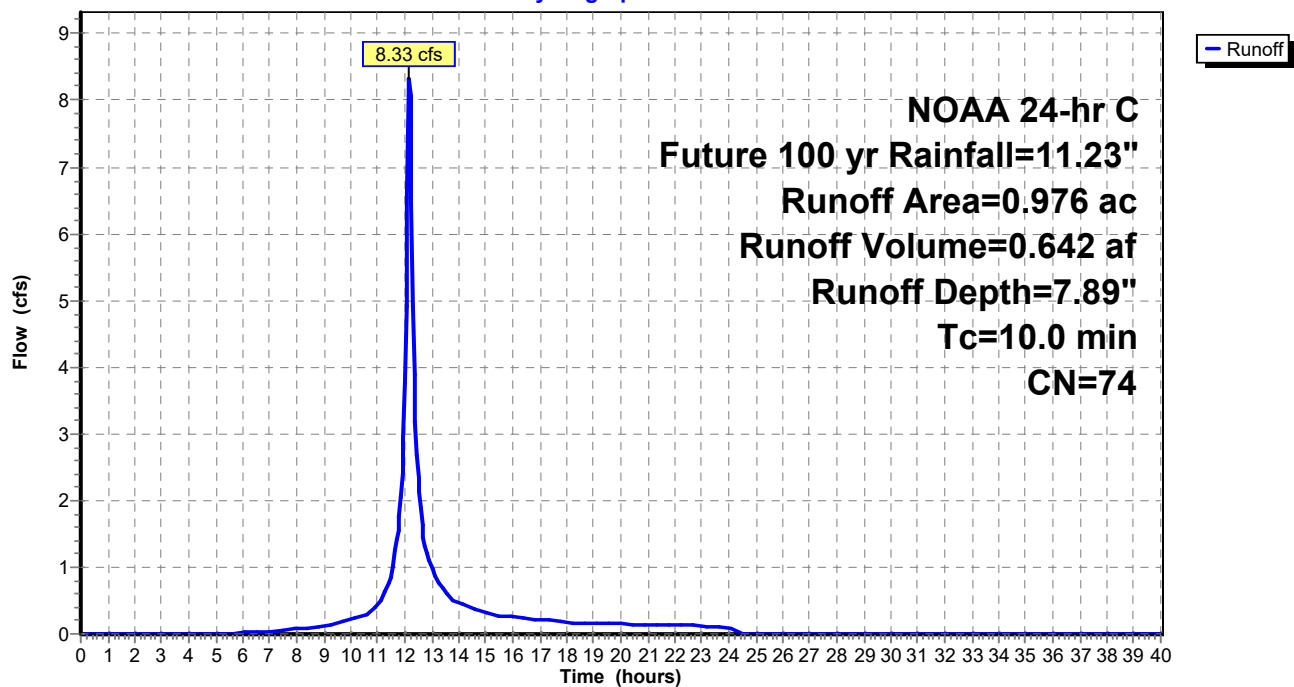
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 NOAA 24-hr C Future 100 yr Rainfall=11.23"

Area (ac)	CN	Description
0.976	74	>75% Grass cover, Good, HSG C
0.976		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.0					Direct Entry,

Subcatchment 15P: PDA-15 (pervious)

Hydrograph



Summary for Subcatchment 16A1: PDA-16A (impervious)

Runoff = 8.76 cfs @ 12.17 hrs, Volume= 0.781 af, Depth=10.99"
 Routed to Pond B-16A : Basin #16A

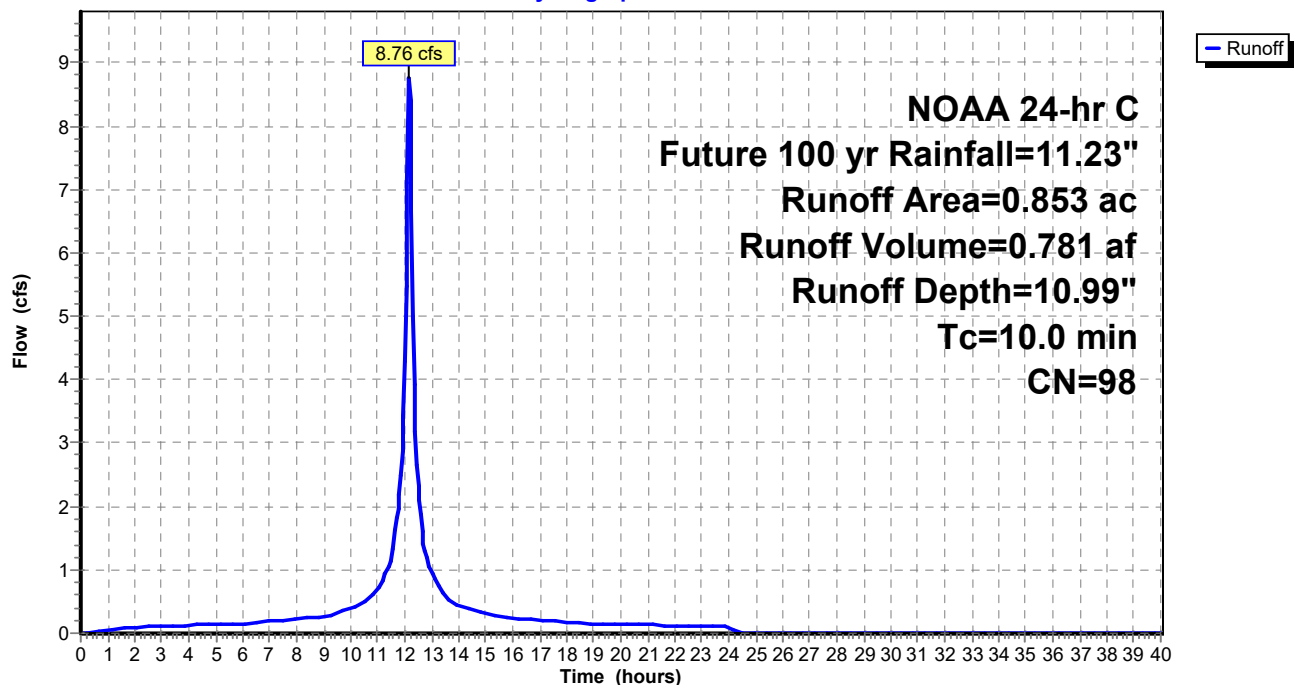
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 NOAA 24-hr C Future 100 yr Rainfall=11.23"

Area (ac)	CN	Description
* 0.072	98	Pavement, HSG C
* 0.771	98	Roof, HSG C
* 0.010	98	Concrete, HSG C
0.853	98	Weighted Average
0.853		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.0					Direct Entry,

Subcatchment 16A1: PDA-16A (impervious)

Hydrograph



Summary for Subcatchment 16AP: PDA-16A (pervious)

Runoff = 8.73 cfs @ 12.17 hrs, Volume= 0.673 af, Depth= 7.89"
 Routed to Pond B-16A : Basin #16A

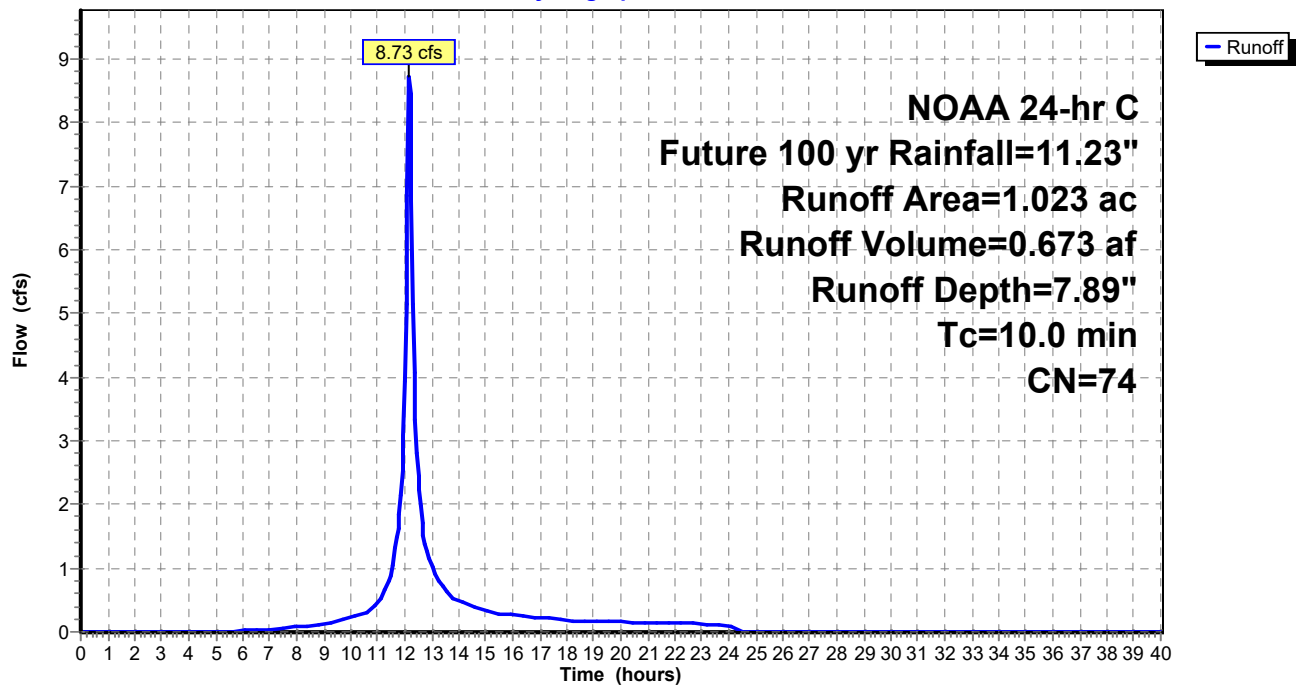
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 NOAA 24-hr C Future 100 yr Rainfall=11.23"

Area (ac)	CN	Description
1.023	74	>75% Grass cover, Good, HSG C
1.023		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.0					Direct Entry,

Subcatchment 16AP: PDA-16A (pervious)

Hydrograph



Summary for Subcatchment 16BI: PDA-16B (impervious)

Runoff = 8.43 cfs @ 12.17 hrs, Volume= 0.752 af, Depth=10.99"
 Routed to Pond B-16B : Basin #16B

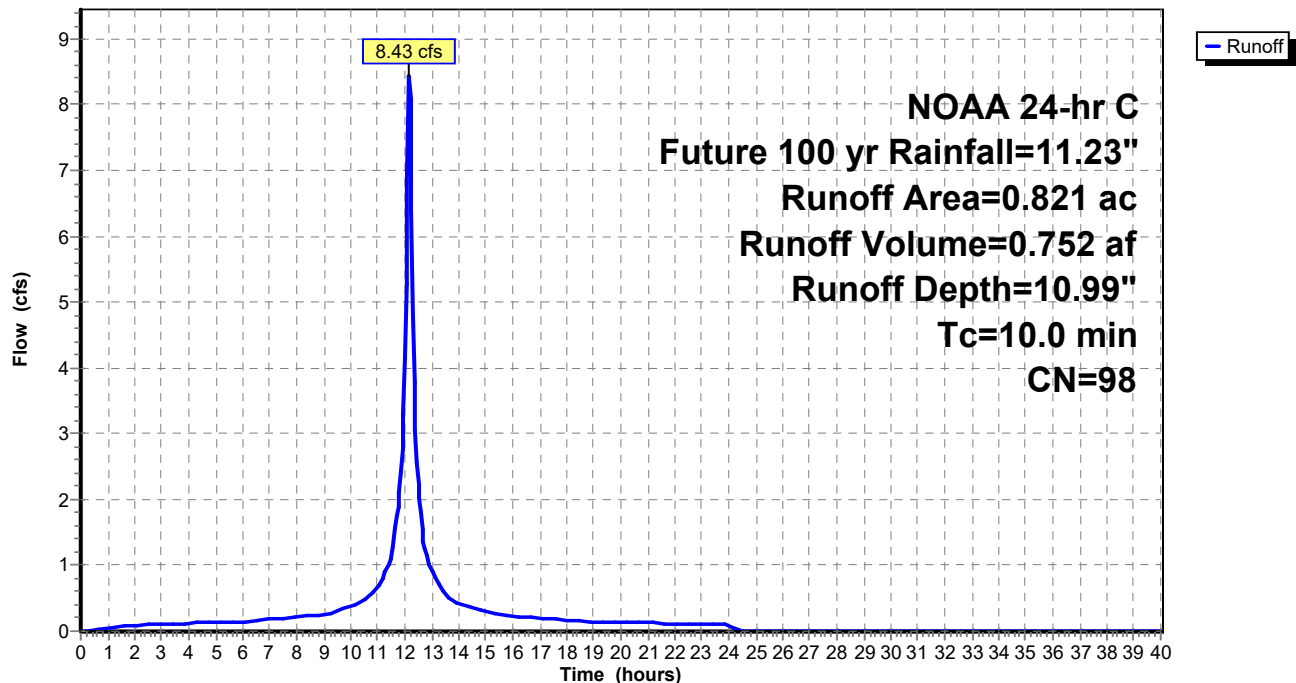
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 NOAA 24-hr C Future 100 yr Rainfall=11.23"

Area (ac)	CN	Description
* 0.621	98	Pavement, HSG C
* 0.064	98	Roof, HSG C
* 0.136	98	Concrete, HSG C
0.821	98	Weighted Average
0.821		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.0					Direct Entry,

Subcatchment 16BI: PDA-16B (impervious)

Hydrograph



Summary for Subcatchment 16BP: PDA-16B (pervious)

Runoff = 9.01 cfs @ 12.17 hrs, Volume= 0.695 af, Depth= 7.89"
 Routed to Pond B-16B : Basin #16B

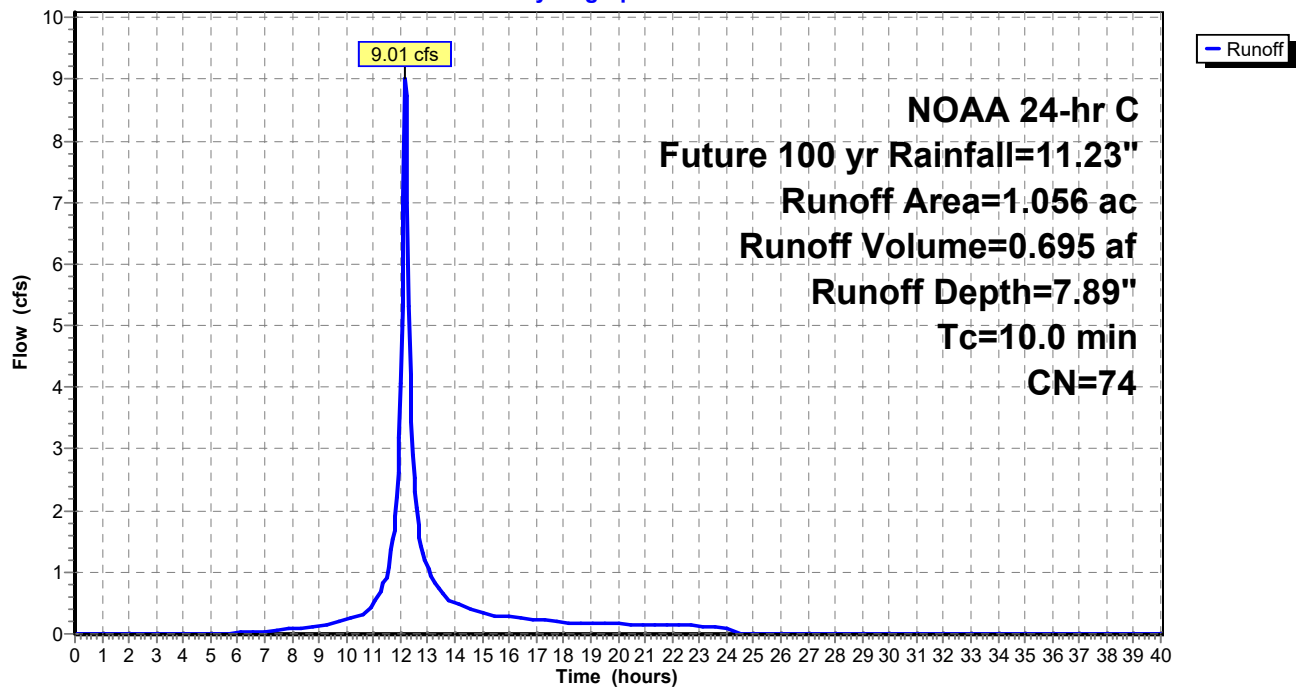
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 NOAA 24-hr C Future 100 yr Rainfall=11.23"

Area (ac)	CN	Description
1.056	74	>75% Grass cover, Good, HSG C
1.056		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.0					Direct Entry,

Subcatchment 16BP: PDA-16B (pervious)

Hydrograph



Summary for Subcatchment 17A: PDA-17A (impervious)

Runoff = 1.98 cfs @ 12.17 hrs, Volume= 0.177 af, Depth=10.99"
 Routed to Pond B-17A : Basin #17A

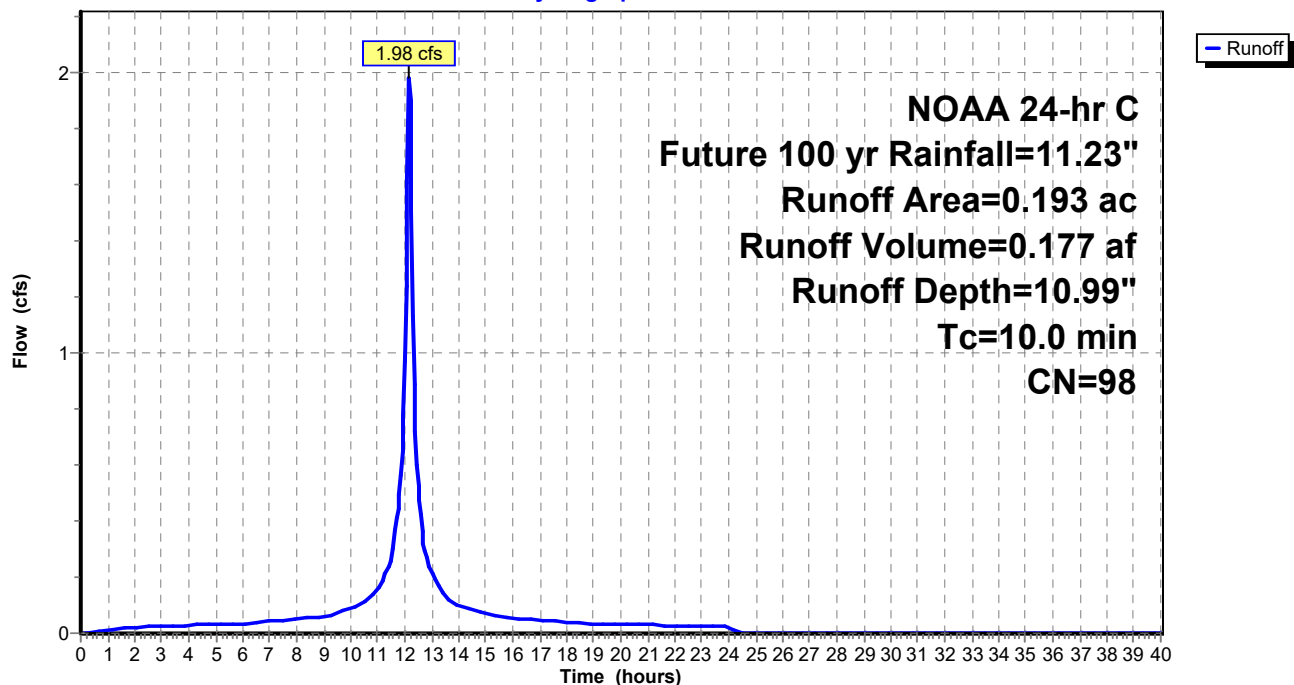
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 NOAA 24-hr C Future 100 yr Rainfall=11.23"

Area (ac)	CN	Description
* 0.193	98	Roof, HSG C
0.000	98	Paved roads w/curbs & sewers, HSG C
* 0.000	98	Concrete, HSG C
0.193	98	Weighted Average
0.193		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.0					Direct Entry,

Subcatchment 17A: PDA-17A (impervious)

Hydrograph



Summary for Subcatchment 17AP: PDA-17A (pervious)

Runoff = 9.65 cfs @ 12.17 hrs, Volume= 0.744 af, Depth= 7.89"
 Routed to Pond B-17A : Basin #17A

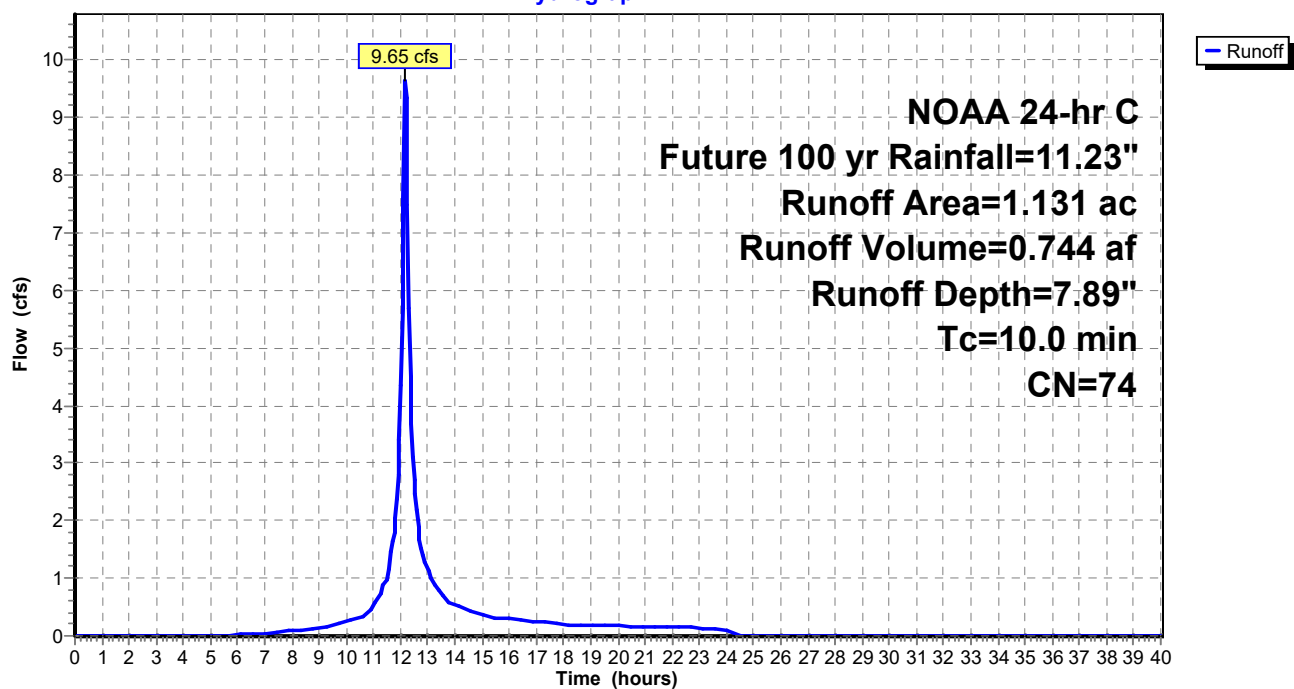
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 NOAA 24-hr C Future 100 yr Rainfall=11.23"

Area (ac)	CN	Description
1.131	74	>75% Grass cover, Good, HSG C
1.131		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.0					Direct Entry,

Subcatchment 17AP: PDA-17A (pervious)

Hydrograph



Summary for Subcatchment 17BI: PDA-17B (impervious)

Runoff = 5.28 cfs @ 12.17 hrs, Volume= 0.471 af, Depth=10.99"
 Routed to Pond B-17B : Basin #17B

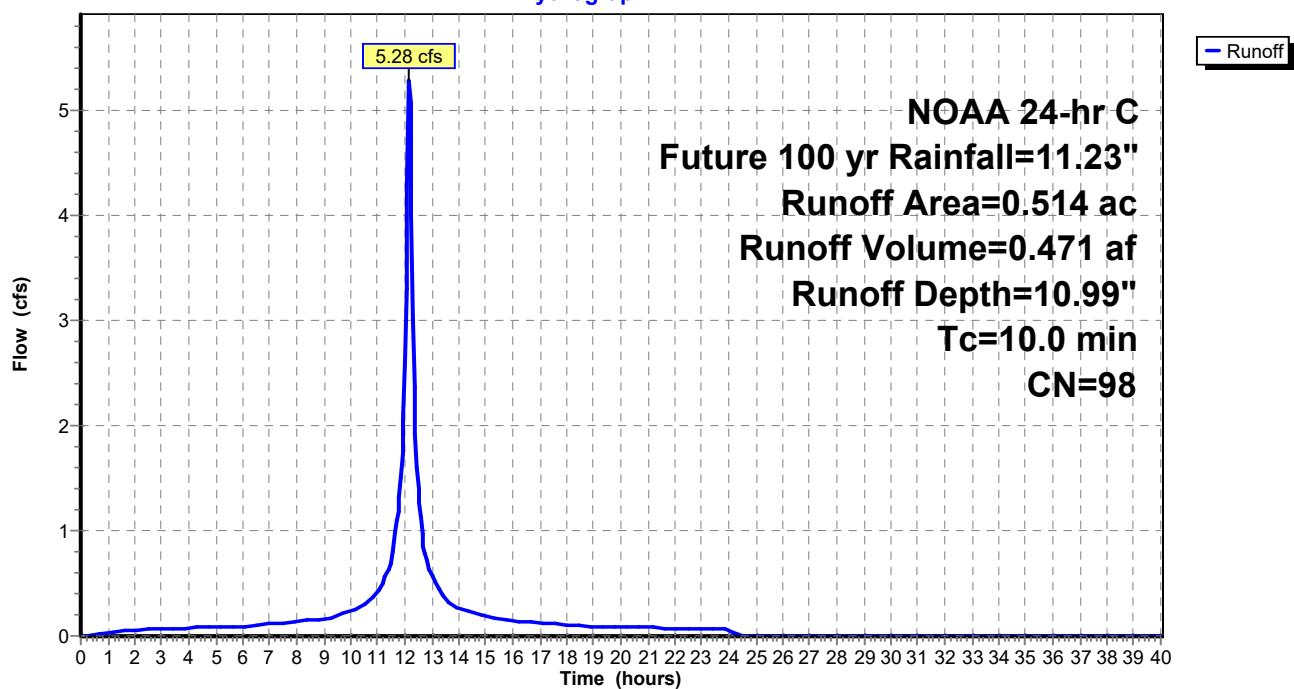
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 NOAA 24-hr C Future 100 yr Rainfall=11.23"

Area (ac)	CN	Description
* 0.514	98	Roof, HSG C
0.514		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.0					Direct Entry,

Subcatchment 17BI: PDA-17B (impervious)

Hydrograph



Summary for Subcatchment 17BP: PDA-17B (pervious)

Runoff = 7.43 cfs @ 12.17 hrs, Volume= 0.573 af, Depth= 7.89"
 Routed to Pond B-17B : Basin #17B

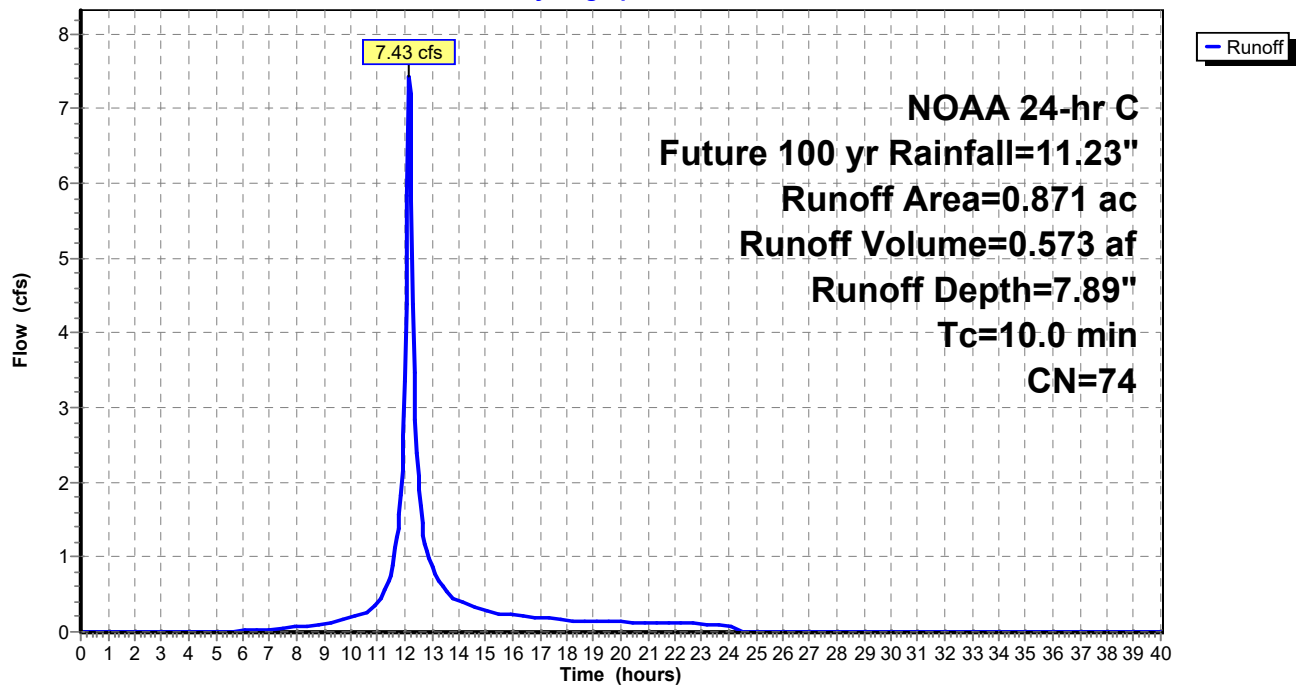
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 NOAA 24-hr C Future 100 yr Rainfall=11.23"

Area (ac)	CN	Description
0.871	74	>75% Grass cover, Good, HSG C
0.871		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.0					Direct Entry,

Subcatchment 17BP: PDA-17B (pervious)

Hydrograph



Summary for Subcatchment UPDA-1: PDA-1 (undetained)

Runoff = 466.38 cfs @ 12.17 hrs, Volume= 35.959 af, Depth= 7.89"
 Routed to Link PDA-1 : Proposed Drainage Area #1

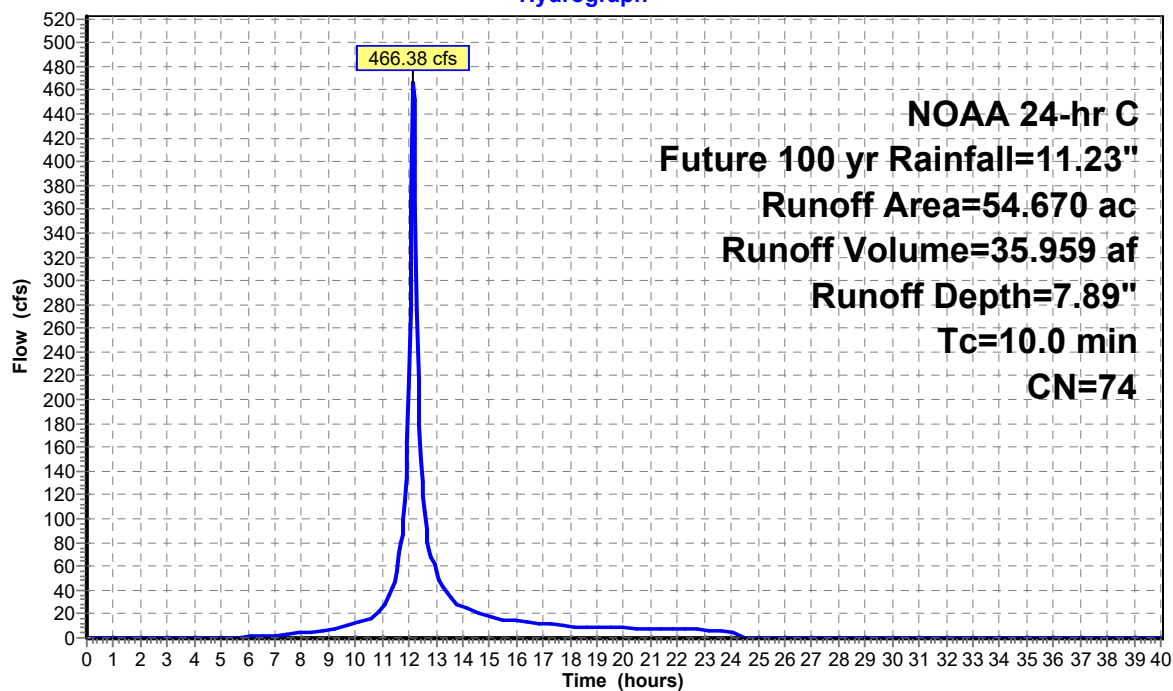
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 NOAA 24-hr C Future 100 yr Rainfall=11.23"

Area (ac)	CN	Description
54.670	74	>75% Grass cover, Good, HSG C
54.670		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.0					Direct Entry,

Subcatchment UPDA-1: PDA-1 (undetained)

Hydrograph



Summary for Pond B-1: Basin #1

Inflow Area = 2.782 ac, 26.02% Impervious, Inflow Depth = 6.29" for Future 100 yr event
 Inflow = 22.55 cfs @ 12.22 hrs, Volume= 1.458 af
 Outflow = 10.95 cfs @ 12.40 hrs, Volume= 1.381 af, Atten= 51%, Lag= 10.6 min
 Primary = 10.95 cfs @ 12.40 hrs, Volume= 1.381 af
 Routed to Link PDA-1 : Proposed Drainage Area #1

Routing by Stor-Ind method, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 Peak Elev= 210.58' @ 12.40 hrs Surf.Area= 11,697 sf Storage= 17,228 cf

Plug-Flow detention time= 137.2 min calculated for 1.381 af (95% of inflow)
 Center-of-Mass det. time= 108.3 min (959.4 - 851.1)

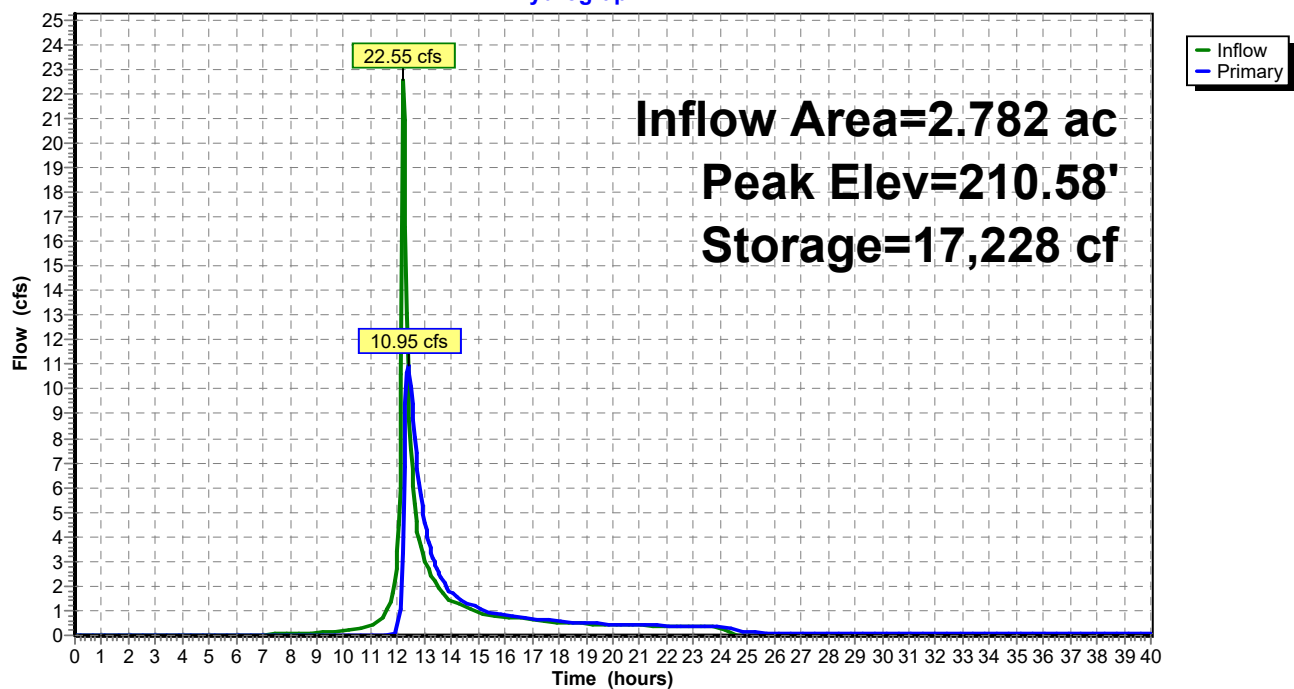
Volume	Invert	Avail.Storage	Storage Description
#1	209.00'	34,903 cf	Custom Stage Data (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
209.00	10,187	0	0
210.00	11,133	10,660	10,660
211.00	12,113	11,623	22,283
212.00	13,126	12,620	34,903

Device	Routing	Invert	Outlet Devices
#1	Primary	207.65'	18.0" Round Culvert L= 276.0' Ke= 0.500 Inlet / Outlet Invert= 207.65' / 204.00' S= 0.0132 '/' Cc= 0.900 n= 0.013, Flow Area= 1.77 sf
#2	Device 1	209.17'	2.5" Vert. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#3	Device 1	209.67'	4.0' long Sharp-Crested Rectangular Weir 2 End Contraction(s)
#4	Primary	210.80'	50.0' long + 3.0 '/' SideZ x 5.0' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 Coef. (English) 2.34 2.50 2.70 2.68 2.68 2.66 2.65 2.65 2.65 2.65 2.67 2.66 2.68 2.70 2.74 2.79 2.88

Primary OutFlow Max=10.94 cfs @ 12.40 hrs HW=210.58' (Free Discharge)

1=Culvert (Passes 10.94 cfs of 12.49 cfs potential flow)
 2=Orifice/Grate (Orifice Controls 0.19 cfs @ 5.49 fps)
 3=Sharp-Crested Rectangular Weir (Weir Controls 10.75 cfs @ 3.11 fps)
 4=Broad-Crested Rectangular Weir (Controls 0.00 cfs)

Pond B-1: Basin #1**Hydrograph**

Stage-Discharge for Pond B-1: Basin #1

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
209.00	0.00	209.52	0.08	210.04	3.03	210.56	10.68
209.01	0.00	209.53	0.08	210.05	3.15	210.57	10.85
209.02	0.00	209.54	0.08	210.06	3.27	210.58	11.03
209.03	0.00	209.55	0.09	210.07	3.39	210.59	11.20
209.04	0.00	209.56	0.09	210.08	3.51	210.60	11.37
209.05	0.00	209.57	0.09	210.09	3.63	210.61	11.55
209.06	0.00	209.58	0.09	210.10	3.76	210.62	11.73
209.07	0.00	209.59	0.09	210.11	3.88	210.63	11.90
209.08	0.00	209.60	0.09	210.12	4.01	210.64	12.08
209.09	0.00	209.61	0.10	210.13	4.14	210.65	12.26
209.10	0.00	209.62	0.10	210.14	4.27	210.66	12.44
209.11	0.00	209.63	0.10	210.15	4.40	210.67	12.60
209.12	0.00	209.64	0.10	210.16	4.53	210.68	12.61
209.13	0.00	209.65	0.10	210.17	4.66	210.69	12.63
209.14	0.00	209.66	0.10	210.18	4.80	210.70	12.64
209.15	0.00	209.67	0.10	210.19	4.93	210.71	12.65
209.16	0.00	209.68	0.12	210.20	5.07	210.72	12.66
209.17	0.00	209.69	0.14	210.21	5.21	210.73	12.67
209.18	0.00	209.70	0.17	210.22	5.35	210.74	12.69
209.19	0.00	209.71	0.21	210.23	5.49	210.75	12.70
209.20	0.00	209.72	0.26	210.24	5.63	210.76	12.71
209.21	0.00	209.73	0.30	210.25	5.77	210.77	12.72
209.22	0.00	209.74	0.35	210.26	5.92	210.78	12.73
209.23	0.01	209.75	0.41	210.27	6.06	210.79	12.75
209.24	0.01	209.76	0.47	210.28	6.21	210.80	12.76
209.25	0.01	209.77	0.53	210.29	6.35	210.81	12.89
209.26	0.01	209.78	0.59	210.30	6.50	210.82	13.11
209.27	0.02	209.79	0.66	210.31	6.65	210.83	13.40
209.28	0.02	209.80	0.73	210.32	6.80	210.84	13.74
209.29	0.02	209.81	0.80	210.33	6.95	210.85	14.13
209.30	0.03	209.82	0.88	210.34	7.10	210.86	14.56
209.31	0.03	209.83	0.95	210.35	7.26	210.87	15.02
209.32	0.03	209.84	1.03	210.36	7.41	210.88	15.51
209.33	0.04	209.85	1.11	210.37	7.56	210.89	16.04
209.34	0.04	209.86	1.20	210.38	7.72	210.90	16.60
209.35	0.05	209.87	1.28	210.39	7.88	210.91	17.18
209.36	0.05	209.88	1.37	210.40	8.03	210.92	17.79
209.37	0.05	209.89	1.46	210.41	8.19	210.93	18.43
209.38	0.05	209.90	1.56	210.42	8.35	210.94	19.10
209.39	0.06	209.91	1.65	210.43	8.51	210.95	19.78
209.40	0.06	209.92	1.75	210.44	8.67	210.96	20.50
209.41	0.06	209.93	1.84	210.45	8.84	210.97	21.23
209.42	0.06	209.94	1.94	210.46	9.00	210.98	21.99
209.43	0.06	209.95	2.05	210.47	9.16	210.99	22.76
209.44	0.07	209.96	2.15	210.48	9.33	211.00	23.56
209.45	0.07	209.97	2.25	210.49	9.50	211.01	24.42
209.46	0.07	209.98	2.36	210.50	9.66	211.02	25.31
209.47	0.07	209.99	2.47	210.51	9.83	211.03	26.21
209.48	0.07	210.00	2.58	210.52	10.00	211.04	27.15
209.49	0.08	210.01	2.69	210.53	10.17	211.05	28.11
209.50	0.08	210.02	2.80	210.54	10.34	211.06	29.10
209.51	0.08	210.03	2.92	210.55	10.51	211.07	30.11

Stage-Discharge for Pond B-1: Basin #1 (continued)

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
211.08	31.14	211.60	113.25
211.09	32.20	211.61	115.18
211.10	33.28	211.62	117.13
211.11	34.39	211.63	119.08
211.12	35.53	211.64	121.06
211.13	36.68	211.65	123.04
211.14	37.86	211.66	125.04
211.15	39.07	211.67	127.05
211.16	40.30	211.68	129.07
211.17	41.55	211.69	131.10
211.18	42.83	211.70	133.15
211.19	44.14	211.71	135.22
211.20	45.46	211.72	137.29
211.21	46.84	211.73	139.38
211.22	48.24	211.74	141.48
211.23	49.67	211.75	143.59
211.24	51.13	211.76	145.72
211.25	52.61	211.77	147.85
211.26	54.12	211.78	150.00
211.27	55.65	211.79	152.17
211.28	57.21	211.80	154.34
211.29	58.80	211.81	156.48
211.30	60.41	211.82	158.62
211.31	62.05	211.83	160.78
211.32	63.72	211.84	162.95
211.33	65.41	211.85	165.12
211.34	67.13	211.86	167.31
211.35	68.88	211.87	169.51
211.36	70.65	211.88	171.72
211.37	72.45	211.89	173.94
211.38	74.28	211.90	176.17
211.39	76.13	211.91	178.41
211.40	78.01	211.92	180.66
211.41	79.65	211.93	182.92
211.42	81.30	211.94	185.19
211.43	82.97	211.95	187.48
211.44	84.65	211.96	189.77
211.45	86.34	211.97	192.07
211.46	88.04	211.98	194.38
211.47	89.76	211.99	196.70
211.48	91.49	212.00	199.03
211.49	93.24		
211.50	94.99		
211.51	96.76		
211.52	98.55		
211.53	100.34		
211.54	102.15		
211.55	103.97		
211.56	105.80		
211.57	107.65		
211.58	109.50		
211.59	111.37		

Stage-Area-Storage for Pond B-1: Basin #1

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
209.00	10,187	0	209.52	10,679	5,425
209.01	10,196	102	209.53	10,688	5,532
209.02	10,206	204	209.54	10,698	5,639
209.03	10,215	306	209.55	10,707	5,746
209.04	10,225	408	209.56	10,717	5,853
209.05	10,234	511	209.57	10,726	5,960
209.06	10,244	613	209.58	10,736	6,068
209.07	10,253	715	209.59	10,745	6,175
209.08	10,263	818	209.60	10,755	6,282
209.09	10,272	921	209.61	10,764	6,390
209.10	10,282	1,023	209.62	10,774	6,498
209.11	10,291	1,126	209.63	10,783	6,606
209.12	10,301	1,229	209.64	10,792	6,713
209.13	10,310	1,332	209.65	10,802	6,821
209.14	10,319	1,435	209.66	10,811	6,929
209.15	10,329	1,539	209.67	10,821	7,038
209.16	10,338	1,642	209.68	10,830	7,146
209.17	10,348	1,745	209.69	10,840	7,254
209.18	10,357	1,849	209.70	10,849	7,363
209.19	10,367	1,953	209.71	10,859	7,471
209.20	10,376	2,056	209.72	10,868	7,580
209.21	10,386	2,160	209.73	10,878	7,689
209.22	10,395	2,264	209.74	10,887	7,797
209.23	10,405	2,368	209.75	10,897	7,906
209.24	10,414	2,472	209.76	10,906	8,015
209.25	10,424	2,576	209.77	10,915	8,124
209.26	10,433	2,681	209.78	10,925	8,234
209.27	10,442	2,785	209.79	10,934	8,343
209.28	10,452	2,889	209.80	10,944	8,452
209.29	10,461	2,994	209.81	10,953	8,562
209.30	10,471	3,099	209.82	10,963	8,671
209.31	10,480	3,203	209.83	10,972	8,781
209.32	10,490	3,308	209.84	10,982	8,891
209.33	10,499	3,413	209.85	10,991	9,001
209.34	10,509	3,518	209.86	11,001	9,111
209.35	10,518	3,623	209.87	11,010	9,221
209.36	10,528	3,729	209.88	11,019	9,331
209.37	10,537	3,834	209.89	11,029	9,441
209.38	10,546	3,939	209.90	11,038	9,551
209.39	10,556	4,045	209.91	11,048	9,662
209.40	10,565	4,150	209.92	11,057	9,772
209.41	10,575	4,256	209.93	11,067	9,883
209.42	10,584	4,362	209.94	11,076	9,994
209.43	10,594	4,468	209.95	11,086	10,105
209.44	10,603	4,574	209.96	11,095	10,215
209.45	10,613	4,680	209.97	11,105	10,326
209.46	10,622	4,786	209.98	11,114	10,438
209.47	10,632	4,892	209.99	11,124	10,549
209.48	10,641	4,999	210.00	11,133	10,660
209.49	10,651	5,105	210.01	11,143	10,771
209.50	10,660	5,212	210.02	11,153	10,883
209.51	10,669	5,318	210.03	11,162	10,994

Stage-Area-Storage for Pond B-1: Basin #1 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
210.04	11,172	11,106	210.56	11,682	17,048
210.05	11,182	11,218	210.57	11,692	17,165
210.06	11,192	11,330	210.58	11,701	17,282
210.07	11,202	11,442	210.59	11,711	17,399
210.08	11,211	11,554	210.60	11,721	17,516
210.09	11,221	11,666	210.61	11,731	17,633
210.10	11,231	11,778	210.62	11,741	17,751
210.11	11,241	11,891	210.63	11,750	17,868
210.12	11,251	12,003	210.64	11,760	17,986
210.13	11,260	12,116	210.65	11,770	18,103
210.14	11,270	12,228	210.66	11,780	18,221
210.15	11,280	12,341	210.67	11,790	18,339
210.16	11,290	12,454	210.68	11,799	18,457
210.17	11,300	12,567	210.69	11,809	18,575
210.18	11,309	12,680	210.70	11,819	18,693
210.19	11,319	12,793	210.71	11,829	18,811
210.20	11,329	12,906	210.72	11,839	18,930
210.21	11,339	13,020	210.73	11,848	19,048
210.22	11,349	13,133	210.74	11,858	19,167
210.23	11,358	13,247	210.75	11,868	19,285
210.24	11,368	13,360	210.76	11,878	19,404
210.25	11,378	13,474	210.77	11,888	19,523
210.26	11,388	13,588	210.78	11,897	19,642
210.27	11,398	13,702	210.79	11,907	19,761
210.28	11,407	13,816	210.80	11,917	19,880
210.29	11,417	13,930	210.81	11,927	19,999
210.30	11,427	14,044	210.82	11,937	20,119
210.31	11,437	14,158	210.83	11,946	20,238
210.32	11,447	14,273	210.84	11,956	20,357
210.33	11,456	14,387	210.85	11,966	20,477
210.34	11,466	14,502	210.86	11,976	20,597
210.35	11,476	14,617	210.87	11,986	20,717
210.36	11,486	14,731	210.88	11,995	20,836
210.37	11,496	14,846	210.89	12,005	20,956
210.38	11,505	14,961	210.90	12,015	21,077
210.39	11,515	15,076	210.91	12,025	21,197
210.40	11,525	15,192	210.92	12,035	21,317
210.41	11,535	15,307	210.93	12,044	21,437
210.42	11,545	15,422	210.94	12,054	21,558
210.43	11,554	15,538	210.95	12,064	21,679
210.44	11,564	15,653	210.96	12,074	21,799
210.45	11,574	15,769	210.97	12,084	21,920
210.46	11,584	15,885	210.98	12,093	22,041
210.47	11,594	16,001	210.99	12,103	22,162
210.48	11,603	16,117	211.00	12,113	22,283
210.49	11,613	16,233	211.01	12,123	22,404
210.50	11,623	16,349	211.02	12,133	22,525
210.51	11,633	16,465	211.03	12,143	22,647
210.52	11,643	16,582	211.04	12,154	22,768
210.53	11,652	16,698	211.05	12,164	22,890
210.54	11,662	16,815	211.06	12,174	23,012
210.55	11,672	16,931	211.07	12,184	23,133

Stage-Area-Storage for Pond B-1: Basin #1 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
211.08	12,194	23,255	211.60	12,721	29,733
211.09	12,204	23,377	211.61	12,731	29,860
211.10	12,214	23,499	211.62	12,741	29,988
211.11	12,224	23,622	211.63	12,751	30,115
211.12	12,235	23,744	211.64	12,761	30,243
211.13	12,245	23,866	211.65	12,771	30,370
211.14	12,255	23,989	211.66	12,782	30,498
211.15	12,265	24,111	211.67	12,792	30,626
211.16	12,275	24,234	211.68	12,802	30,754
211.17	12,285	24,357	211.69	12,812	30,882
211.18	12,295	24,480	211.70	12,822	31,010
211.19	12,305	24,603	211.71	12,832	31,139
211.20	12,316	24,726	211.72	12,842	31,267
211.21	12,326	24,849	211.73	12,852	31,395
211.22	12,336	24,972	211.74	12,863	31,524
211.23	12,346	25,096	211.75	12,873	31,653
211.24	12,356	25,219	211.76	12,883	31,781
211.25	12,366	25,343	211.77	12,893	31,910
211.26	12,376	25,467	211.78	12,903	32,039
211.27	12,387	25,590	211.79	12,913	32,168
211.28	12,397	25,714	211.80	12,923	32,298
211.29	12,407	25,838	211.81	12,934	32,427
211.30	12,417	25,962	211.82	12,944	32,556
211.31	12,427	26,087	211.83	12,954	32,686
211.32	12,437	26,211	211.84	12,964	32,815
211.33	12,447	26,335	211.85	12,974	32,945
211.34	12,457	26,460	211.86	12,984	33,075
211.35	12,468	26,585	211.87	12,994	33,205
211.36	12,478	26,709	211.88	13,004	33,335
211.37	12,488	26,834	211.89	13,015	33,465
211.38	12,498	26,959	211.90	13,025	33,595
211.39	12,508	27,084	211.91	13,035	33,725
211.40	12,518	27,209	211.92	13,045	33,856
211.41	12,528	27,334	211.93	13,055	33,986
211.42	12,538	27,460	211.94	13,065	34,117
211.43	12,549	27,585	211.95	13,075	34,247
211.44	12,559	27,711	211.96	13,085	34,378
211.45	12,569	27,836	211.97	13,096	34,509
211.46	12,579	27,962	211.98	13,106	34,640
211.47	12,589	28,088	211.99	13,116	34,771
211.48	12,599	28,214	212.00	13,126	34,903
211.49	12,609	28,340			
211.50	12,620	28,466			
211.51	12,630	28,592			
211.52	12,640	28,719			
211.53	12,650	28,845			
211.54	12,660	28,972			
211.55	12,670	29,098			
211.56	12,680	29,225			
211.57	12,690	29,352			
211.58	12,701	29,479			
211.59	12,711	29,606			

Summary for Pond B-10: Basin #10

Inflow Area = 1.674 ac, 56.63% Impervious, Inflow Depth = 9.65" for Future 100 yr event
 Inflow = 15.93 cfs @ 12.17 hrs, Volume= 1.346 af
 Outflow = 8.16 cfs @ 12.33 hrs, Volume= 1.253 af, Atten= 49%, Lag= 9.6 min
 Primary = 8.16 cfs @ 12.33 hrs, Volume= 1.253 af
 Routed to Link PDA-1 : Proposed Drainage Area #1

Routing by Stor-Ind method, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 Peak Elev= 182.58' @ 12.33 hrs Surf.Area= 7,243 sf Storage= 20,327 cf

Plug-Flow detention time= 125.1 min calculated for 1.253 af (93% of inflow)
 Center-of-Mass det. time= 85.9 min (851.6 - 765.7)

Volume	Invert	Avail.Storage	Storage Description
#1	179.00'	23,473 cf	Custom Stage Data (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
179.00	4,220	0	0
180.00	5,003	4,612	4,612
181.00	5,833	5,418	10,030
182.00	6,710	6,272	16,301
183.00	7,633	7,172	23,473

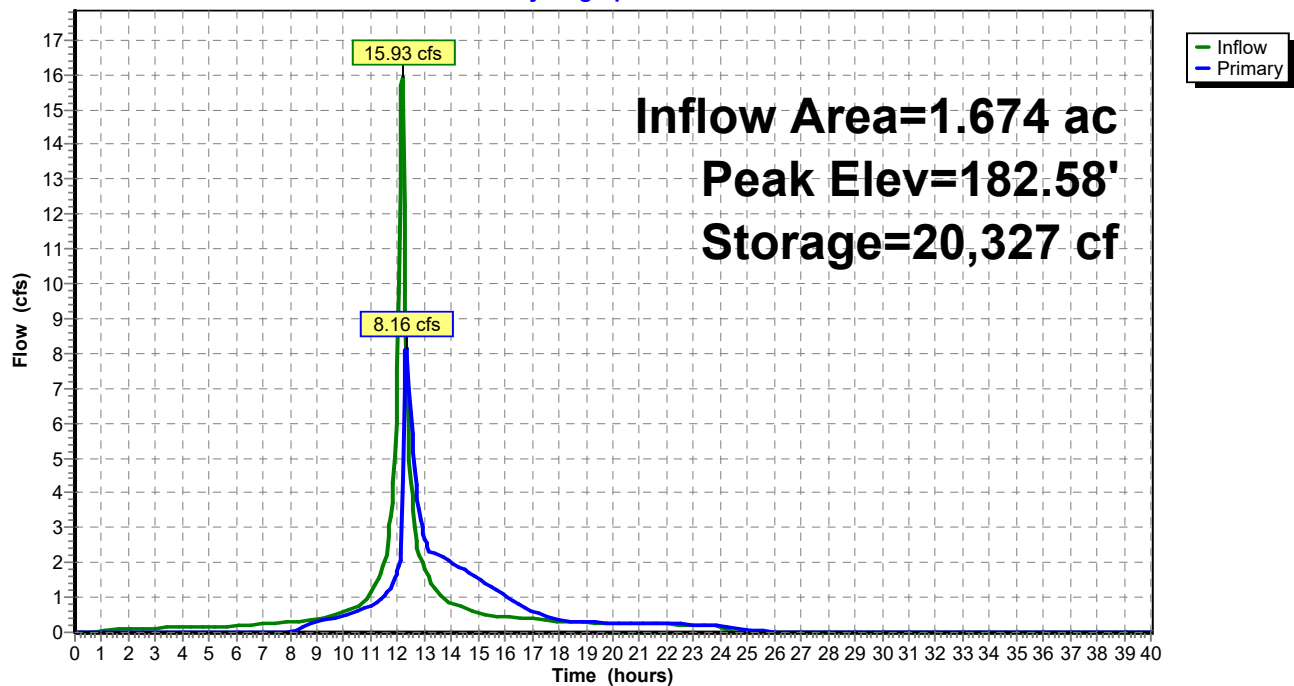
Device	Routing	Invert	Outlet Devices
#1	Primary	177.65'	18.0" Round Culvert L= 52.0' Ke= 0.500 Inlet / Outlet Invert= 177.65' / 176.00' S= 0.0317 ' / Cc= 0.900 n= 0.013, Flow Area= 1.77 sf
#2	Device 1	179.88'	24.0" W x 2.0" H Vert. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#3	Device 1	182.00'	4.0' long Sharp-Crested Rectangular Weir 2 End Contraction(s)
#4	Primary	182.95'	50.0' long + 3.0 ' SideZ x 5.0' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 Coef. (English) 2.34 2.50 2.70 2.68 2.68 2.66 2.65 2.65 2.65 2.65 2.67 2.66 2.68 2.70 2.74 2.79 2.88

Primary OutFlow Max=8.10 cfs @ 12.33 hrs HW=182.57' (Free Discharge)

1=Culvert (Passes 8.10 cfs of 17.38 cfs potential flow)
 2=Orifice/Grate (Orifice Controls 2.59 cfs @ 7.78 fps)
 3=Sharp-Crested Rectangular Weir (Weir Controls 5.51 cfs @ 2.47 fps)
 4=Broad-Crested Rectangular Weir (Controls 0.00 cfs)

Pond B-10: Basin #10

Hydrograph



Stage-Discharge for Pond B-10: Basin #10

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
179.00	0.00	179.52	0.00	180.04	0.41	180.56	1.24
179.01	0.00	179.53	0.00	180.05	0.45	180.57	1.25
179.02	0.00	179.54	0.00	180.06	0.48	180.58	1.26
179.03	0.00	179.55	0.00	180.07	0.51	180.59	1.27
179.04	0.00	179.56	0.00	180.08	0.54	180.60	1.28
179.05	0.00	179.57	0.00	180.09	0.56	180.61	1.29
179.06	0.00	179.58	0.00	180.10	0.58	180.62	1.30
179.07	0.00	179.59	0.00	180.11	0.61	180.63	1.31
179.08	0.00	179.60	0.00	180.12	0.63	180.64	1.32
179.09	0.00	179.61	0.00	180.13	0.65	180.65	1.33
179.10	0.00	179.62	0.00	180.14	0.67	180.66	1.34
179.11	0.00	179.63	0.00	180.15	0.69	180.67	1.35
179.12	0.00	179.64	0.00	180.16	0.71	180.68	1.36
179.13	0.00	179.65	0.00	180.17	0.72	180.69	1.37
179.14	0.00	179.66	0.00	180.18	0.74	180.70	1.38
179.15	0.00	179.67	0.00	180.19	0.76	180.71	1.39
179.16	0.00	179.68	0.00	180.20	0.78	180.72	1.40
179.17	0.00	179.69	0.00	180.21	0.79	180.73	1.40
179.18	0.00	179.70	0.00	180.22	0.81	180.74	1.41
179.19	0.00	179.71	0.00	180.23	0.83	180.75	1.42
179.20	0.00	179.72	0.00	180.24	0.84	180.76	1.43
179.21	0.00	179.73	0.00	180.25	0.86	180.77	1.44
179.22	0.00	179.74	0.00	180.26	0.87	180.78	1.45
179.23	0.00	179.75	0.00	180.27	0.89	180.79	1.46
179.24	0.00	179.76	0.00	180.28	0.90	180.80	1.47
179.25	0.00	179.77	0.00	180.29	0.91	180.81	1.48
179.26	0.00	179.78	0.00	180.30	0.93	180.82	1.48
179.27	0.00	179.79	0.00	180.31	0.94	180.83	1.49
179.28	0.00	179.80	0.00	180.32	0.96	180.84	1.50
179.29	0.00	179.81	0.00	180.33	0.97	180.85	1.51
179.30	0.00	179.82	0.00	180.34	0.98	180.86	1.52
179.31	0.00	179.83	0.00	180.35	1.00	180.87	1.53
179.32	0.00	179.84	0.00	180.36	1.01	180.88	1.54
179.33	0.00	179.85	0.00	180.37	1.02	180.89	1.54
179.34	0.00	179.86	0.00	180.38	1.03	180.90	1.55
179.35	0.00	179.87	0.00	180.39	1.05	180.91	1.56
179.36	0.00	179.88	0.00	180.40	1.06	180.92	1.57
179.37	0.00	179.89	0.01	180.41	1.07	180.93	1.58
179.38	0.00	179.90	0.02	180.42	1.08	180.94	1.59
179.39	0.00	179.91	0.03	180.43	1.09	180.95	1.59
179.40	0.00	179.92	0.05	180.44	1.11	180.96	1.60
179.41	0.00	179.93	0.07	180.45	1.12	180.97	1.61
179.42	0.00	179.94	0.09	180.46	1.13	180.98	1.62
179.43	0.00	179.95	0.12	180.47	1.14	180.99	1.63
179.44	0.00	179.96	0.15	180.48	1.15	181.00	1.63
179.45	0.00	179.97	0.17	180.49	1.16	181.01	1.64
179.46	0.00	179.98	0.20	180.50	1.17	181.02	1.65
179.47	0.00	179.99	0.23	180.51	1.19	181.03	1.66
179.48	0.00	180.00	0.27	180.52	1.20	181.04	1.66
179.49	0.00	180.01	0.30	180.53	1.21	181.05	1.67
179.50	0.00	180.02	0.34	180.54	1.22	181.06	1.68
179.51	0.00	180.03	0.37	180.55	1.23	181.07	1.69

Stage-Discharge for Pond B-10: Basin #10 (continued)

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
181.08	1.70	181.60	2.05	182.12	2.90	182.64	9.11
181.09	1.70	181.61	2.06	182.13	2.97	182.65	9.26
181.10	1.71	181.62	2.07	182.14	3.05	182.66	9.42
181.11	1.72	181.63	2.07	182.15	3.13	182.67	9.57
181.12	1.73	181.64	2.08	182.16	3.21	182.68	9.73
181.13	1.73	181.65	2.08	182.17	3.29	182.69	9.89
181.14	1.74	181.66	2.09	182.18	3.38	182.70	10.05
181.15	1.75	181.67	2.10	182.19	3.47	182.71	10.21
181.16	1.76	181.68	2.10	182.20	3.56	182.72	10.37
181.17	1.76	181.69	2.11	182.21	3.65	182.73	10.53
181.18	1.77	181.70	2.11	182.22	3.75	182.74	10.69
181.19	1.78	181.71	2.12	182.23	3.84	182.75	10.86
181.20	1.78	181.72	2.13	182.24	3.94	182.76	11.02
181.21	1.79	181.73	2.13	182.25	4.04	182.77	11.19
181.22	1.80	181.74	2.14	182.26	4.14	182.78	11.35
181.23	1.81	181.75	2.15	182.27	4.25	182.79	11.52
181.24	1.81	181.76	2.15	182.28	4.35	182.80	11.69
181.25	1.82	181.77	2.16	182.29	4.46	182.81	11.86
181.26	1.83	181.78	2.16	182.30	4.57	182.82	12.03
181.27	1.83	181.79	2.17	182.31	4.68	182.83	12.20
181.28	1.84	181.80	2.17	182.32	4.79	182.84	12.37
181.29	1.85	181.81	2.18	182.33	4.91	182.85	12.54
181.30	1.86	181.82	2.19	182.34	5.02	182.86	12.71
181.31	1.86	181.83	2.19	182.35	5.14	182.87	12.89
181.32	1.87	181.84	2.20	182.36	5.26	182.88	13.06
181.33	1.88	181.85	2.20	182.37	5.38	182.89	13.24
181.34	1.88	181.86	2.21	182.38	5.50	182.90	13.42
181.35	1.89	181.87	2.22	182.39	5.62	182.91	13.59
181.36	1.90	181.88	2.22	182.40	5.75	182.92	13.77
181.37	1.90	181.89	2.23	182.41	5.87	182.93	13.95
181.38	1.91	181.90	2.23	182.42	6.00	182.94	14.13
181.39	1.92	181.91	2.24	182.43	6.13	182.95	14.31
181.40	1.92	181.92	2.24	182.44	6.26	182.96	14.61
181.41	1.93	181.93	2.25	182.45	6.39	182.97	15.00
181.42	1.94	181.94	2.26	182.46	6.52	182.98	15.46
181.43	1.94	181.95	2.26	182.47	6.66	182.99	15.98
181.44	1.95	181.96	2.27	182.48	6.79	183.00	16.53
181.45	1.96	181.97	2.27	182.49	6.93		
181.46	1.96	181.98	2.28	182.50	7.07		
181.47	1.97	181.99	2.28	182.51	7.20		
181.48	1.98	182.00	2.29	182.52	7.34		
181.49	1.98	182.01	2.31	182.53	7.48		
181.50	1.99	182.02	2.34	182.54	7.63		
181.51	2.00	182.03	2.38	182.55	7.77		
181.52	2.00	182.04	2.42	182.56	7.91		
181.53	2.01	182.05	2.46	182.57	8.06		
181.54	2.02	182.06	2.52	182.58	8.21		
181.55	2.02	182.07	2.57	182.59	8.35		
181.56	2.03	182.08	2.63	182.60	8.50		
181.57	2.03	182.09	2.69	182.61	8.65		
181.58	2.04	182.10	2.76	182.62	8.80		
181.59	2.05	182.11	2.83	182.63	8.96		

Stage-Area-Storage for Pond B-10: Basin #10

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
179.00	4,220	0	179.52	4,627	2,300
179.01	4,228	42	179.53	4,635	2,347
179.02	4,236	85	179.54	4,643	2,393
179.03	4,243	127	179.55	4,651	2,439
179.04	4,251	169	179.56	4,658	2,486
179.05	4,259	212	179.57	4,666	2,533
179.06	4,267	255	179.58	4,674	2,579
179.07	4,275	297	179.59	4,682	2,626
179.08	4,283	340	179.60	4,690	2,673
179.09	4,290	383	179.61	4,698	2,720
179.10	4,298	426	179.62	4,705	2,767
179.11	4,306	469	179.63	4,713	2,814
179.12	4,314	512	179.64	4,721	2,861
179.13	4,322	555	179.65	4,729	2,908
179.14	4,330	598	179.66	4,737	2,956
179.15	4,337	642	179.67	4,745	3,003
179.16	4,345	685	179.68	4,752	3,051
179.17	4,353	729	179.69	4,760	3,098
179.18	4,361	772	179.70	4,768	3,146
179.19	4,369	816	179.71	4,776	3,194
179.20	4,377	860	179.72	4,784	3,241
179.21	4,384	903	179.73	4,792	3,289
179.22	4,392	947	179.74	4,799	3,337
179.23	4,400	991	179.75	4,807	3,385
179.24	4,408	1,035	179.76	4,815	3,433
179.25	4,416	1,079	179.77	4,823	3,482
179.26	4,424	1,124	179.78	4,831	3,530
179.27	4,431	1,168	179.79	4,839	3,578
179.28	4,439	1,212	179.80	4,846	3,627
179.29	4,447	1,257	179.81	4,854	3,675
179.30	4,455	1,301	179.82	4,862	3,724
179.31	4,463	1,346	179.83	4,870	3,772
179.32	4,471	1,390	179.84	4,878	3,821
179.33	4,478	1,435	179.85	4,886	3,870
179.34	4,486	1,480	179.86	4,893	3,919
179.35	4,494	1,525	179.87	4,901	3,968
179.36	4,502	1,570	179.88	4,909	4,017
179.37	4,510	1,615	179.89	4,917	4,066
179.38	4,518	1,660	179.90	4,925	4,115
179.39	4,525	1,705	179.91	4,933	4,164
179.40	4,533	1,751	179.92	4,940	4,214
179.41	4,541	1,796	179.93	4,948	4,263
179.42	4,549	1,841	179.94	4,956	4,313
179.43	4,557	1,887	179.95	4,964	4,362
179.44	4,565	1,933	179.96	4,972	4,412
179.45	4,572	1,978	179.97	4,980	4,462
179.46	4,580	2,024	179.98	4,987	4,512
179.47	4,588	2,070	179.99	4,995	4,562
179.48	4,596	2,116	180.00	5,003	4,612
179.49	4,604	2,162	180.01	5,011	4,662
179.50	4,612	2,208	180.02	5,020	4,712
179.51	4,619	2,254	180.03	5,028	4,762

Stage-Area-Storage for Pond B-10: Basin #10 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
180.04	5,036	4,812	180.56	5,468	7,543
180.05	5,045	4,863	180.57	5,476	7,598
180.06	5,053	4,913	180.58	5,484	7,653
180.07	5,061	4,964	180.59	5,493	7,708
180.08	5,069	5,014	180.60	5,501	7,763
180.09	5,078	5,065	180.61	5,509	7,818
180.10	5,086	5,116	180.62	5,518	7,873
180.11	5,094	5,167	180.63	5,526	7,928
180.12	5,103	5,218	180.64	5,534	7,983
180.13	5,111	5,269	180.65	5,543	8,039
180.14	5,119	5,320	180.66	5,551	8,094
180.15	5,128	5,371	180.67	5,559	8,150
180.16	5,136	5,423	180.68	5,567	8,205
180.17	5,144	5,474	180.69	5,576	8,261
180.18	5,152	5,525	180.70	5,584	8,317
180.19	5,161	5,577	180.71	5,592	8,373
180.20	5,169	5,629	180.72	5,601	8,429
180.21	5,177	5,680	180.73	5,609	8,485
180.22	5,186	5,732	180.74	5,617	8,541
180.23	5,194	5,784	180.75	5,626	8,597
180.24	5,202	5,836	180.76	5,634	8,653
180.25	5,211	5,888	180.77	5,642	8,710
180.26	5,219	5,940	180.78	5,650	8,766
180.27	5,227	5,993	180.79	5,659	8,823
180.28	5,235	6,045	180.80	5,667	8,880
180.29	5,244	6,097	180.81	5,675	8,936
180.30	5,252	6,150	180.82	5,684	8,993
180.31	5,260	6,202	180.83	5,692	9,050
180.32	5,269	6,255	180.84	5,700	9,107
180.33	5,277	6,308	180.85	5,708	9,164
180.34	5,285	6,360	180.86	5,717	9,221
180.35	5,293	6,413	180.87	5,725	9,278
180.36	5,302	6,466	180.88	5,733	9,336
180.37	5,310	6,519	180.89	5,742	9,393
180.38	5,318	6,573	180.90	5,750	9,450
180.39	5,327	6,626	180.91	5,758	9,508
180.40	5,335	6,679	180.92	5,767	9,566
180.41	5,343	6,732	180.93	5,775	9,623
180.42	5,352	6,786	180.94	5,783	9,681
180.43	5,360	6,840	180.95	5,791	9,739
180.44	5,368	6,893	180.96	5,800	9,797
180.45	5,376	6,947	180.97	5,808	9,855
180.46	5,385	7,001	180.98	5,816	9,913
180.47	5,393	7,055	180.99	5,825	9,971
180.48	5,401	7,109	181.00	5,833	10,030
180.49	5,410	7,163	181.01	5,842	10,088
180.50	5,418	7,217	181.02	5,851	10,146
180.51	5,426	7,271	181.03	5,859	10,205
180.52	5,435	7,325	181.04	5,868	10,264
180.53	5,443	7,380	181.05	5,877	10,322
180.54	5,451	7,434	181.06	5,886	10,381
180.55	5,460	7,489	181.07	5,894	10,440

Stage-Area-Storage for Pond B-10: Basin #10 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
181.08	5,903	10,499	181.60	6,359	13,687
181.09	5,912	10,558	181.61	6,368	13,751
181.10	5,921	10,617	181.62	6,377	13,815
181.11	5,929	10,676	181.63	6,386	13,878
181.12	5,938	10,736	181.64	6,394	13,942
181.13	5,947	10,795	181.65	6,403	14,006
181.14	5,956	10,855	181.66	6,412	14,070
181.15	5,965	10,914	181.67	6,421	14,134
181.16	5,973	10,974	181.68	6,429	14,199
181.17	5,982	11,034	181.69	6,438	14,263
181.18	5,991	11,094	181.70	6,447	14,327
181.19	6,000	11,154	181.71	6,456	14,392
181.20	6,008	11,214	181.72	6,464	14,457
181.21	6,017	11,274	181.73	6,473	14,521
181.22	6,026	11,334	181.74	6,482	14,586
181.23	6,035	11,394	181.75	6,491	14,651
181.24	6,043	11,455	181.76	6,500	14,716
181.25	6,052	11,515	181.77	6,508	14,781
181.26	6,061	11,576	181.78	6,517	14,846
181.27	6,070	11,636	181.79	6,526	14,911
181.28	6,079	11,697	181.80	6,535	14,977
181.29	6,087	11,758	181.81	6,543	15,042
181.30	6,096	11,819	181.82	6,552	15,107
181.31	6,105	11,880	181.83	6,561	15,173
181.32	6,114	11,941	181.84	6,570	15,239
181.33	6,122	12,002	181.85	6,578	15,304
181.34	6,131	12,063	181.86	6,587	15,370
181.35	6,140	12,125	181.87	6,596	15,436
181.36	6,149	12,186	181.88	6,605	15,502
181.37	6,157	12,248	181.89	6,614	15,568
181.38	6,166	12,309	181.90	6,622	15,634
181.39	6,175	12,371	181.91	6,631	15,701
181.40	6,184	12,433	181.92	6,640	15,767
181.41	6,193	12,495	181.93	6,649	15,833
181.42	6,201	12,557	181.94	6,657	15,900
181.43	6,210	12,619	181.95	6,666	15,967
181.44	6,219	12,681	181.96	6,675	16,033
181.45	6,228	12,743	181.97	6,684	16,100
181.46	6,236	12,805	181.98	6,692	16,167
181.47	6,245	12,868	181.99	6,701	16,234
181.48	6,254	12,930	182.00	6,710	16,301
181.49	6,263	12,993	182.01	6,719	16,368
181.50	6,272	13,056	182.02	6,728	16,435
181.51	6,280	13,118	182.03	6,738	16,503
181.52	6,289	13,181	182.04	6,747	16,570
181.53	6,298	13,244	182.05	6,756	16,638
181.54	6,307	13,307	182.06	6,765	16,705
181.55	6,315	13,370	182.07	6,775	16,773
181.56	6,324	13,433	182.08	6,784	16,841
181.57	6,333	13,497	182.09	6,793	16,909
181.58	6,342	13,560	182.10	6,802	16,977
181.59	6,350	13,624	182.11	6,812	17,045

Stage-Area-Storage for Pond B-10: Basin #10 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
182.12	6,821	17,113	182.64	7,301	20,784
182.13	6,830	17,181	182.65	7,310	20,857
182.14	6,839	17,249	182.66	7,319	20,931
182.15	6,848	17,318	182.67	7,328	21,004
182.16	6,858	17,386	182.68	7,338	21,077
182.17	6,867	17,455	182.69	7,347	21,151
182.18	6,876	17,524	182.70	7,356	21,224
182.19	6,885	17,593	182.71	7,365	21,298
182.20	6,895	17,661	182.72	7,375	21,371
182.21	6,904	17,730	182.73	7,384	21,445
182.22	6,913	17,800	182.74	7,393	21,519
182.23	6,922	17,869	182.75	7,402	21,593
182.24	6,932	17,938	182.76	7,411	21,667
182.25	6,941	18,007	182.77	7,421	21,741
182.26	6,950	18,077	182.78	7,430	21,816
182.27	6,959	18,146	182.79	7,439	21,890
182.28	6,968	18,216	182.80	7,448	21,964
182.29	6,978	18,286	182.81	7,458	22,039
182.30	6,987	18,356	182.82	7,467	22,114
182.31	6,996	18,425	182.83	7,476	22,188
182.32	7,005	18,495	182.84	7,485	22,263
182.33	7,015	18,566	182.85	7,495	22,338
182.34	7,024	18,636	182.86	7,504	22,413
182.35	7,033	18,706	182.87	7,513	22,488
182.36	7,042	18,776	182.88	7,522	22,563
182.37	7,052	18,847	182.89	7,531	22,638
182.38	7,061	18,917	182.90	7,541	22,714
182.39	7,070	18,988	182.91	7,550	22,789
182.40	7,079	19,059	182.92	7,559	22,865
182.41	7,088	19,130	182.93	7,568	22,940
182.42	7,098	19,201	182.94	7,578	23,016
182.43	7,107	19,272	182.95	7,587	23,092
182.44	7,116	19,343	182.96	7,596	23,168
182.45	7,125	19,414	182.97	7,605	23,244
182.46	7,135	19,485	182.98	7,615	23,320
182.47	7,144	19,557	182.99	7,624	23,396
182.48	7,153	19,628	183.00	7,633	23,473
182.49	7,162	19,700			
182.50	7,172	19,771			
182.51	7,181	19,843			
182.52	7,190	19,915			
182.53	7,199	19,987			
182.54	7,208	20,059			
182.55	7,218	20,131			
182.56	7,227	20,203			
182.57	7,236	20,276			
182.58	7,245	20,348			
182.59	7,255	20,421			
182.60	7,264	20,493			
182.61	7,273	20,566			
182.62	7,282	20,639			
182.63	7,291	20,711			

Summary for Pond B-11: Basin #11

Inflow Area = 2.228 ac, 58.53% Impervious, Inflow Depth = 9.70" for Future 100 yr event
 Inflow = 21.28 cfs @ 12.17 hrs, Volume= 1.802 af
 Outflow = 17.02 cfs @ 12.25 hrs, Volume= 1.631 af, Atten= 20%, Lag= 4.9 min
 Primary = 17.02 cfs @ 12.25 hrs, Volume= 1.631 af
 Routed to Link PDA-1 : Proposed Drainage Area #1

Routing by Stor-Ind method, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 Peak Elev= 183.97' @ 12.25 hrs Surf.Area= 7,982 sf Storage= 25,126 cf

Plug-Flow detention time= 249.3 min calculated for 1.629 af (90% of inflow)
 Center-of-Mass det. time= 200.5 min (965.0 - 764.5)

Volume	Invert	Avail.Storage	Storage Description
#1	180.00'	43,224 cf	Custom Stage Data (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
180.00	4,780	0	0
181.00	5,522	5,151	5,151
182.00	6,306	5,914	11,065
183.00	7,135	6,721	17,786
184.00	8,007	7,571	25,357
185.00	8,923	8,465	33,822
186.00	9,882	9,403	43,224

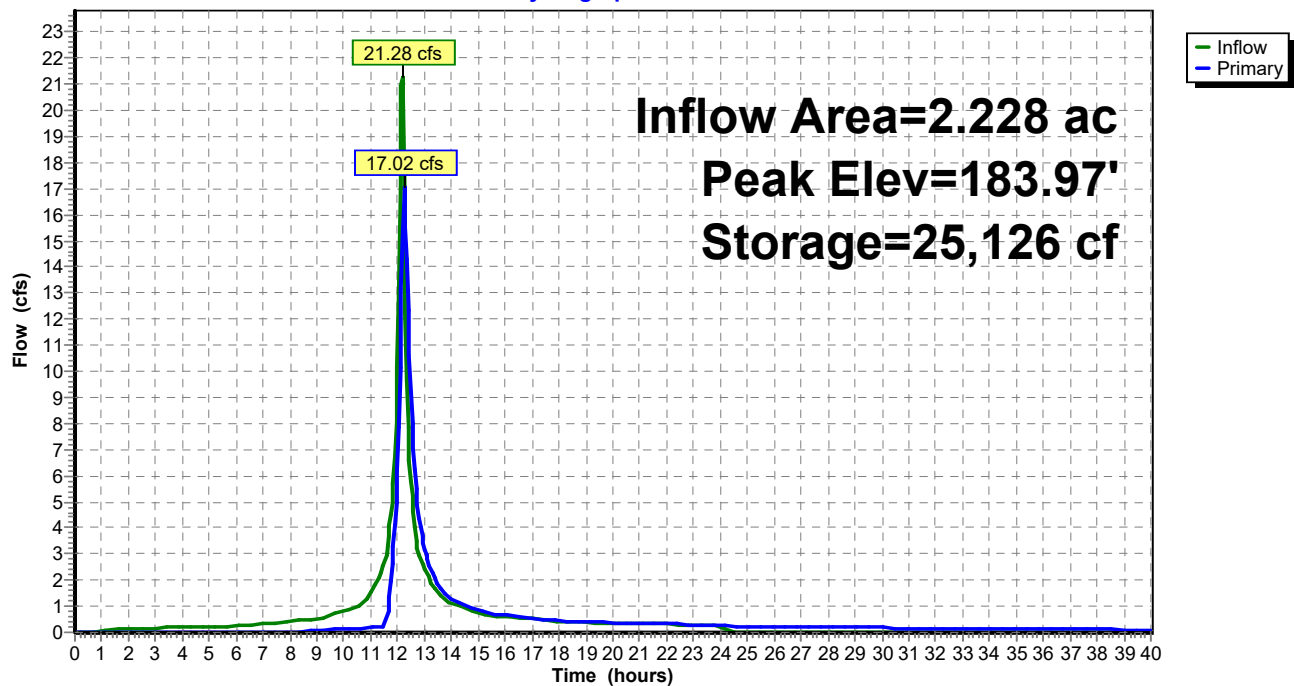
Device	Routing	Invert	Outlet Devices
#1	Primary	178.65'	18.0" Round Culvert L= 131.0' Ke= 0.500 Inlet / Outlet Invert= 178.65' / 178.00' S= 0.0050 '/' Cc= 0.900 n= 0.013, Flow Area= 1.77 sf
#2	Device 1	181.00'	2.5" Vert. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#3	Device 1	182.75'	4.0' long Sharp-Crested Rectangular Weir 2 End Contraction(s)
#4	Primary	183.91'	50.0' long + 3.0 '/' SideZ x 5.0' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 Coef. (English) 2.34 2.50 2.70 2.68 2.68 2.66 2.65 2.65 2.65 2.65 2.67 2.66 2.68 2.70 2.74 2.79 2.88

Primary OutFlow Max=16.93 cfs @ 12.25 hrs HW=183.97' (Free Discharge)

1=Culvert (Barrel Controls 15.19 cfs @ 8.60 fps)
 2=Orifice/Grate (Passes < 0.28 cfs potential flow)
 3=Sharp-Crested Rectangular Weir (Passes < 16.56 cfs potential flow)
 4=Broad-Crested Rectangular Weir (Weir Controls 1.74 cfs @ 0.57 fps)

Pond B-11: Basin #11

Hydrograph



Stage-Discharge for Pond B-11: Basin #11

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
180.00	0.00	180.52	0.00	181.04	0.00	181.56	0.11
180.01	0.00	180.53	0.00	181.05	0.00	181.57	0.11
180.02	0.00	180.54	0.00	181.06	0.01	181.58	0.11
180.03	0.00	180.55	0.00	181.07	0.01	181.59	0.11
180.04	0.00	180.56	0.00	181.08	0.01	181.60	0.12
180.05	0.00	180.57	0.00	181.09	0.01	181.61	0.12
180.06	0.00	180.58	0.00	181.10	0.02	181.62	0.12
180.07	0.00	180.59	0.00	181.11	0.02	181.63	0.12
180.08	0.00	180.60	0.00	181.12	0.02	181.64	0.12
180.09	0.00	180.61	0.00	181.13	0.03	181.65	0.12
180.10	0.00	180.62	0.00	181.14	0.03	181.66	0.12
180.11	0.00	180.63	0.00	181.15	0.03	181.67	0.12
180.12	0.00	180.64	0.00	181.16	0.04	181.68	0.12
180.13	0.00	180.65	0.00	181.17	0.04	181.69	0.13
180.14	0.00	180.66	0.00	181.18	0.05	181.70	0.13
180.15	0.00	180.67	0.00	181.19	0.05	181.71	0.13
180.16	0.00	180.68	0.00	181.20	0.05	181.72	0.13
180.17	0.00	180.69	0.00	181.21	0.05	181.73	0.13
180.18	0.00	180.70	0.00	181.22	0.06	181.74	0.13
180.19	0.00	180.71	0.00	181.23	0.06	181.75	0.13
180.20	0.00	180.72	0.00	181.24	0.06	181.76	0.13
180.21	0.00	180.73	0.00	181.25	0.06	181.77	0.13
180.22	0.00	180.74	0.00	181.26	0.06	181.78	0.13
180.23	0.00	180.75	0.00	181.27	0.07	181.79	0.14
180.24	0.00	180.76	0.00	181.28	0.07	181.80	0.14
180.25	0.00	180.77	0.00	181.29	0.07	181.81	0.14
180.26	0.00	180.78	0.00	181.30	0.07	181.82	0.14
180.27	0.00	180.79	0.00	181.31	0.07	181.83	0.14
180.28	0.00	180.80	0.00	181.32	0.08	181.84	0.14
180.29	0.00	180.81	0.00	181.33	0.08	181.85	0.14
180.30	0.00	180.82	0.00	181.34	0.08	181.86	0.14
180.31	0.00	180.83	0.00	181.35	0.08	181.87	0.14
180.32	0.00	180.84	0.00	181.36	0.08	181.88	0.14
180.33	0.00	180.85	0.00	181.37	0.08	181.89	0.15
180.34	0.00	180.86	0.00	181.38	0.09	181.90	0.15
180.35	0.00	180.87	0.00	181.39	0.09	181.91	0.15
180.36	0.00	180.88	0.00	181.40	0.09	181.92	0.15
180.37	0.00	180.89	0.00	181.41	0.09	181.93	0.15
180.38	0.00	180.90	0.00	181.42	0.09	181.94	0.15
180.39	0.00	180.91	0.00	181.43	0.09	181.95	0.15
180.40	0.00	180.92	0.00	181.44	0.10	181.96	0.15
180.41	0.00	180.93	0.00	181.45	0.10	181.97	0.15
180.42	0.00	180.94	0.00	181.46	0.10	181.98	0.15
180.43	0.00	180.95	0.00	181.47	0.10	181.99	0.15
180.44	0.00	180.96	0.00	181.48	0.10	182.00	0.16
180.45	0.00	180.97	0.00	181.49	0.10	182.01	0.16
180.46	0.00	180.98	0.00	181.50	0.10	182.02	0.16
180.47	0.00	180.99	0.00	181.51	0.10	182.03	0.16
180.48	0.00	181.00	0.00	181.52	0.11	182.04	0.16
180.49	0.00	181.01	0.00	181.53	0.11	182.05	0.16
180.50	0.00	181.02	0.00	181.54	0.11	182.06	0.16
180.51	0.00	181.03	0.00	181.55	0.11	182.07	0.16

Stage-Discharge for Pond B-11: Basin #11 (continued)

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
182.08	0.16	182.60	0.20	183.12	3.12	183.64	10.75
182.09	0.16	182.61	0.20	183.13	3.24	183.65	10.93
182.10	0.16	182.62	0.20	183.14	3.36	183.66	11.10
182.11	0.16	182.63	0.20	183.15	3.48	183.67	11.27
182.12	0.17	182.64	0.20	183.16	3.60	183.68	11.45
182.13	0.17	182.65	0.20	183.17	3.72	183.69	11.62
182.14	0.17	182.66	0.20	183.18	3.85	183.70	11.80
182.15	0.17	182.67	0.21	183.19	3.97	183.71	11.98
182.16	0.17	182.68	0.21	183.20	4.10	183.72	12.16
182.17	0.17	182.69	0.21	183.21	4.23	183.73	12.33
182.18	0.17	182.70	0.21	183.22	4.35	183.74	12.51
182.19	0.17	182.71	0.21	183.23	4.48	183.75	12.69
182.20	0.17	182.72	0.21	183.24	4.62	183.76	12.87
182.21	0.17	182.73	0.21	183.25	4.75	183.77	13.06
182.22	0.17	182.74	0.21	183.26	4.88	183.78	13.24
182.23	0.17	182.75	0.21	183.27	5.02	183.79	13.42
182.24	0.17	182.76	0.22	183.28	5.16	183.80	13.60
182.25	0.18	182.77	0.25	183.29	5.29	183.81	13.79
182.26	0.18	182.78	0.28	183.30	5.43	183.82	13.97
182.27	0.18	182.79	0.32	183.31	5.57	183.83	14.16
182.28	0.18	182.80	0.36	183.32	5.71	183.84	14.35
182.29	0.18	182.81	0.41	183.33	5.85	183.85	14.53
182.30	0.18	182.82	0.46	183.34	6.00	183.86	14.72
182.31	0.18	182.83	0.51	183.35	6.14	183.87	14.91
182.32	0.18	182.84	0.57	183.36	6.29	183.88	15.04
182.33	0.18	182.85	0.63	183.37	6.43	183.89	15.05
182.34	0.18	182.86	0.69	183.38	6.58	183.90	15.07
182.35	0.18	182.87	0.76	183.39	6.73	183.91	15.09
182.36	0.18	182.88	0.83	183.40	6.88	183.92	15.22
182.37	0.18	182.89	0.90	183.41	7.03	183.93	15.45
182.38	0.19	182.90	0.97	183.42	7.18	183.94	15.75
182.39	0.19	182.91	1.05	183.43	7.34	183.95	16.09
182.40	0.19	182.92	1.13	183.44	7.49	183.96	16.48
182.41	0.19	182.93	1.21	183.45	7.64	183.97	16.92
182.42	0.19	182.94	1.30	183.46	7.80	183.98	17.38
182.43	0.19	182.95	1.38	183.47	7.96	183.99	17.88
182.44	0.19	182.96	1.47	183.48	8.11	184.00	18.41
182.45	0.19	182.97	1.56	183.49	8.27	184.01	18.98
182.46	0.19	182.98	1.65	183.50	8.43	184.02	19.57
182.47	0.19	182.99	1.74	183.51	8.59	184.03	20.18
182.48	0.19	183.00	1.84	183.52	8.75	184.04	20.83
182.49	0.19	183.01	1.94	183.53	8.91	184.05	21.50
182.50	0.19	183.02	2.04	183.54	9.08	184.06	22.19
182.51	0.19	183.03	2.14	183.55	9.24	184.07	22.91
182.52	0.20	183.04	2.24	183.56	9.41	184.08	23.64
182.53	0.20	183.05	2.35	183.57	9.57	184.09	24.41
182.54	0.20	183.06	2.45	183.58	9.74	184.10	25.19
182.55	0.20	183.07	2.56	183.59	9.91	184.11	25.99
182.56	0.20	183.08	2.67	183.60	10.07	184.12	26.86
182.57	0.20	183.09	2.78	183.61	10.24	184.13	27.74
182.58	0.20	183.10	2.89	183.62	10.41	184.14	28.66
182.59	0.20	183.11	3.01	183.63	10.58	184.15	29.60

Stage-Discharge for Pond B-11: Basin #11 (continued)

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
184.16	30.56	184.68	110.34	185.20	223.74	185.72	368.60
184.17	31.55	184.69	112.21	185.21	226.21	185.73	371.68
184.18	32.57	184.70	114.08	185.22	228.70	185.74	374.77
184.19	33.61	184.71	115.96	185.23	231.20	185.75	377.88
184.20	34.67	184.72	117.90	185.24	233.71	185.76	380.99
184.21	35.76	184.73	119.85	185.25	236.23	185.77	384.11
184.22	36.88	184.74	121.81	185.26	238.75	185.78	387.25
184.23	38.01	184.75	123.79	185.27	241.29	185.79	390.39
184.24	39.18	184.76	125.77	185.28	243.84	185.80	393.54
184.25	40.36	184.77	127.77	185.29	246.40	185.81	396.71
184.26	41.57	184.78	129.79	185.30	248.97	185.82	399.88
184.27	42.81	184.79	131.82	185.31	251.55	185.83	403.07
184.28	44.07	184.80	133.86	185.32	254.19	185.84	406.27
184.29	45.35	184.81	135.91	185.33	256.84	185.85	409.47
184.30	46.66	184.82	137.98	185.34	259.49	185.86	412.69
184.31	47.99	184.83	140.06	185.35	262.16	185.87	415.92
184.32	49.37	184.84	142.15	185.36	264.84	185.88	419.16
184.33	50.78	184.85	144.25	185.37	267.54	185.89	422.41
184.34	52.21	184.86	146.37	185.38	270.24	185.90	425.67
184.35	53.67	184.87	148.50	185.39	272.95	185.91	428.93
184.36	55.16	184.88	150.64	185.40	275.68	185.92	432.28
184.37	56.67	184.89	152.80	185.41	278.41	185.93	435.63
184.38	58.21	184.90	154.96	185.42	281.16	185.94	439.00
184.39	59.78	184.91	157.14	185.43	283.92	185.95	442.37
184.40	61.37	184.92	159.28	185.44	286.68	185.96	445.76
184.41	62.99	184.93	161.43	185.45	289.46	185.97	449.16
184.42	64.63	184.94	163.59	185.46	292.25	185.98	452.57
184.43	66.30	184.95	165.77	185.47	295.06	185.99	455.99
184.44	68.00	184.96	167.95	185.48	297.87	186.00	459.42
184.45	69.72	184.97	170.14	185.49	300.69		
184.46	71.47	184.98	172.34	185.50	303.52		
184.47	73.25	184.99	174.56	185.51	306.37		
184.48	75.06	185.00	176.78	185.52	309.23		
184.49	76.89	185.01	179.02	185.53	312.09		
184.50	78.75	185.02	181.26	185.54	314.97		
184.51	80.63	185.03	183.52	185.55	317.86		
184.52	82.27	185.04	185.78	185.56	320.76		
184.53	83.93	185.05	188.06	185.57	323.67		
184.54	85.60	185.06	190.34	185.58	326.59		
184.55	87.28	185.07	192.64	185.59	329.52		
184.56	88.98	185.08	194.94	185.60	332.46		
184.57	90.69	185.09	197.26	185.61	335.42		
184.58	92.41	185.10	199.59	185.62	338.38		
184.59	94.15	185.11	201.92	185.63	341.35		
184.60	95.90	185.12	204.30	185.64	344.34		
184.61	97.66	185.13	206.69	185.65	347.33		
184.62	99.43	185.14	209.10	185.66	350.34		
184.63	101.22	185.15	211.51	185.67	353.36		
184.64	103.02	185.16	213.93	185.68	356.39		
184.65	104.83	185.17	216.37	185.69	359.42		
184.66	106.66	185.18	218.81	185.70	362.47		
184.67	108.49	185.19	221.27	185.71	365.53		

Stage-Area-Storage for Pond B-11: Basin #11

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
180.00	4,780	0	180.52	5,166	2,586
180.01	4,787	48	180.53	5,173	2,638
180.02	4,795	96	180.54	5,181	2,689
180.03	4,802	144	180.55	5,188	2,741
180.04	4,810	192	180.56	5,196	2,793
180.05	4,817	240	180.57	5,203	2,845
180.06	4,825	288	180.58	5,210	2,897
180.07	4,832	336	180.59	5,218	2,949
180.08	4,839	385	180.60	5,225	3,002
180.09	4,847	433	180.61	5,233	3,054
180.10	4,854	482	180.62	5,240	3,106
180.11	4,862	530	180.63	5,247	3,159
180.12	4,869	579	180.64	5,255	3,211
180.13	4,876	628	180.65	5,262	3,264
180.14	4,884	676	180.66	5,270	3,316
180.15	4,891	725	180.67	5,277	3,369
180.16	4,899	774	180.68	5,285	3,422
180.17	4,906	823	180.69	5,292	3,475
180.18	4,914	872	180.70	5,299	3,528
180.19	4,921	922	180.71	5,307	3,581
180.20	4,928	971	180.72	5,314	3,634
180.21	4,936	1,020	180.73	5,322	3,687
180.22	4,943	1,070	180.74	5,329	3,740
180.23	4,951	1,119	180.75	5,337	3,794
180.24	4,958	1,169	180.76	5,344	3,847
180.25	4,966	1,218	180.77	5,351	3,901
180.26	4,973	1,268	180.78	5,359	3,954
180.27	4,980	1,318	180.79	5,366	4,008
180.28	4,988	1,367	180.80	5,374	4,061
180.29	4,995	1,417	180.81	5,381	4,115
180.30	5,003	1,467	180.82	5,388	4,169
180.31	5,010	1,517	180.83	5,396	4,223
180.32	5,017	1,568	180.84	5,403	4,277
180.33	5,025	1,618	180.85	5,411	4,331
180.34	5,032	1,668	180.86	5,418	4,385
180.35	5,040	1,718	180.87	5,426	4,439
180.36	5,047	1,769	180.88	5,433	4,494
180.37	5,055	1,819	180.89	5,440	4,548
180.38	5,062	1,870	180.90	5,448	4,603
180.39	5,069	1,921	180.91	5,455	4,657
180.40	5,077	1,971	180.92	5,463	4,712
180.41	5,084	2,022	180.93	5,470	4,766
180.42	5,092	2,073	180.94	5,477	4,821
180.43	5,099	2,124	180.95	5,485	4,876
180.44	5,106	2,175	180.96	5,492	4,931
180.45	5,114	2,226	180.97	5,500	4,986
180.46	5,121	2,277	180.98	5,507	5,041
180.47	5,129	2,329	180.99	5,515	5,096
180.48	5,136	2,380	181.00	5,522	5,151
180.49	5,144	2,431	181.01	5,530	5,206
180.50	5,151	2,483	181.02	5,538	5,262
180.51	5,158	2,534	181.03	5,546	5,317

Stage-Area-Storage for Pond B-11: Basin #11 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
181.04	5,553	5,373	181.56	5,961	8,366
181.05	5,561	5,428	181.57	5,969	8,426
181.06	5,569	5,484	181.58	5,977	8,486
181.07	5,577	5,539	181.59	5,985	8,545
181.08	5,585	5,595	181.60	5,992	8,605
181.09	5,593	5,651	181.61	6,000	8,665
181.10	5,600	5,707	181.62	6,008	8,725
181.11	5,608	5,763	181.63	6,016	8,785
181.12	5,616	5,819	181.64	6,024	8,846
181.13	5,624	5,875	181.65	6,032	8,906
181.14	5,632	5,932	181.66	6,039	8,966
181.15	5,640	5,988	181.67	6,047	9,027
181.16	5,647	6,045	181.68	6,055	9,087
181.17	5,655	6,101	181.69	6,063	9,148
181.18	5,663	6,158	181.70	6,071	9,208
181.19	5,671	6,214	181.71	6,079	9,269
181.20	5,679	6,271	181.72	6,086	9,330
181.21	5,687	6,328	181.73	6,094	9,391
181.22	5,694	6,385	181.74	6,102	9,452
181.23	5,702	6,442	181.75	6,110	9,513
181.24	5,710	6,499	181.76	6,118	9,574
181.25	5,718	6,556	181.77	6,126	9,635
181.26	5,726	6,613	181.78	6,134	9,697
181.27	5,734	6,671	181.79	6,141	9,758
181.28	5,742	6,728	181.80	6,149	9,819
181.29	5,749	6,785	181.81	6,157	9,881
181.30	5,757	6,843	181.82	6,165	9,943
181.31	5,765	6,900	181.83	6,173	10,004
181.32	5,773	6,958	181.84	6,181	10,066
181.33	5,781	7,016	181.85	6,188	10,128
181.34	5,789	7,074	181.86	6,196	10,190
181.35	5,796	7,132	181.87	6,204	10,252
181.36	5,804	7,190	181.88	6,212	10,314
181.37	5,812	7,248	181.89	6,220	10,376
181.38	5,820	7,306	181.90	6,228	10,438
181.39	5,828	7,364	181.91	6,235	10,501
181.40	5,836	7,423	181.92	6,243	10,563
181.41	5,843	7,481	181.93	6,251	10,626
181.42	5,851	7,539	181.94	6,259	10,688
181.43	5,859	7,598	181.95	6,267	10,751
181.44	5,867	7,657	181.96	6,275	10,813
181.45	5,875	7,715	181.97	6,282	10,876
181.46	5,883	7,774	181.98	6,290	10,939
181.47	5,890	7,833	181.99	6,298	11,002
181.48	5,898	7,892	182.00	6,306	11,065
181.49	5,906	7,951	182.01	6,314	11,128
181.50	5,914	8,010	182.02	6,323	11,191
181.51	5,922	8,069	182.03	6,331	11,255
181.52	5,930	8,128	182.04	6,339	11,318
181.53	5,938	8,188	182.05	6,347	11,381
181.54	5,945	8,247	182.06	6,356	11,445
181.55	5,953	8,307	182.07	6,364	11,508

Stage-Area-Storage for Pond B-11: Basin #11 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
182.08	6,372	11,572	182.60	6,803	14,998
182.09	6,381	11,636	182.61	6,812	15,066
182.10	6,389	11,700	182.62	6,820	15,134
182.11	6,397	11,764	182.63	6,828	15,202
182.12	6,405	11,828	182.64	6,837	15,271
182.13	6,414	11,892	182.65	6,845	15,339
182.14	6,422	11,956	182.66	6,853	15,408
182.15	6,430	12,020	182.67	6,861	15,476
182.16	6,439	12,085	182.68	6,870	15,545
182.17	6,447	12,149	182.69	6,878	15,613
182.18	6,455	12,214	182.70	6,886	15,682
182.19	6,464	12,278	182.71	6,895	15,751
182.20	6,472	12,343	182.72	6,903	15,820
182.21	6,480	12,408	182.73	6,911	15,889
182.22	6,488	12,472	182.74	6,919	15,958
182.23	6,497	12,537	182.75	6,928	16,028
182.24	6,505	12,602	182.76	6,936	16,097
182.25	6,513	12,667	182.77	6,944	16,166
182.26	6,522	12,733	182.78	6,953	16,236
182.27	6,530	12,798	182.79	6,961	16,305
182.28	6,538	12,863	182.80	6,969	16,375
182.29	6,546	12,929	182.81	6,977	16,445
182.30	6,555	12,994	182.82	6,986	16,515
182.31	6,563	13,060	182.83	6,994	16,585
182.32	6,571	13,125	182.84	7,002	16,655
182.33	6,580	13,191	182.85	7,011	16,725
182.34	6,588	13,257	182.86	7,019	16,795
182.35	6,596	13,323	182.87	7,027	16,865
182.36	6,604	13,389	182.88	7,036	16,935
182.37	6,613	13,455	182.89	7,044	17,006
182.38	6,621	13,521	182.90	7,052	17,076
182.39	6,629	13,587	182.91	7,060	17,147
182.40	6,638	13,654	182.92	7,069	17,217
182.41	6,646	13,720	182.93	7,077	17,288
182.42	6,654	13,787	182.94	7,085	17,359
182.43	6,662	13,853	182.95	7,094	17,430
182.44	6,671	13,920	182.96	7,102	17,501
182.45	6,679	13,987	182.97	7,110	17,572
182.46	6,687	14,053	182.98	7,118	17,643
182.47	6,696	14,120	182.99	7,127	17,714
182.48	6,704	14,187	183.00	7,135	17,786
182.49	6,712	14,254	183.01	7,144	17,857
182.50	6,721	14,322	183.02	7,152	17,928
182.51	6,729	14,389	183.03	7,161	18,000
182.52	6,737	14,456	183.04	7,170	18,072
182.53	6,745	14,524	183.05	7,179	18,143
182.54	6,754	14,591	183.06	7,187	18,215
182.55	6,762	14,659	183.07	7,196	18,287
182.56	6,770	14,726	183.08	7,205	18,359
182.57	6,779	14,794	183.09	7,213	18,431
182.58	6,787	14,862	183.10	7,222	18,503
182.59	6,795	14,930	183.11	7,231	18,576

Stage-Area-Storage for Pond B-11: Basin #11 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
183.12	7,240	18,648	183.64	7,693	22,530
183.13	7,248	18,720	183.65	7,702	22,607
183.14	7,257	18,793	183.66	7,711	22,685
183.15	7,266	18,866	183.67	7,719	22,762
183.16	7,275	18,938	183.68	7,728	22,839
183.17	7,283	19,011	183.69	7,737	22,916
183.18	7,292	19,084	183.70	7,745	22,994
183.19	7,301	19,157	183.71	7,754	23,071
183.20	7,309	19,230	183.72	7,763	23,149
183.21	7,318	19,303	183.73	7,772	23,226
183.22	7,327	19,376	183.74	7,780	23,304
183.23	7,336	19,450	183.75	7,789	23,382
183.24	7,344	19,523	183.76	7,798	23,460
183.25	7,353	19,597	183.77	7,806	23,538
183.26	7,362	19,670	183.78	7,815	23,616
183.27	7,370	19,744	183.79	7,824	23,694
183.28	7,379	19,817	183.80	7,833	23,773
183.29	7,388	19,891	183.81	7,841	23,851
183.30	7,397	19,965	183.82	7,850	23,929
183.31	7,405	20,039	183.83	7,859	24,008
183.32	7,414	20,113	183.84	7,867	24,087
183.33	7,423	20,188	183.85	7,876	24,165
183.34	7,431	20,262	183.86	7,885	24,244
183.35	7,440	20,336	183.87	7,894	24,323
183.36	7,449	20,411	183.88	7,902	24,402
183.37	7,458	20,485	183.89	7,911	24,481
183.38	7,466	20,560	183.90	7,920	24,560
183.39	7,475	20,634	183.91	7,929	24,639
183.40	7,484	20,709	183.92	7,937	24,719
183.41	7,493	20,784	183.93	7,946	24,798
183.42	7,501	20,859	183.94	7,955	24,878
183.43	7,510	20,934	183.95	7,963	24,957
183.44	7,519	21,009	183.96	7,972	25,037
183.45	7,527	21,085	183.97	7,981	25,117
183.46	7,536	21,160	183.98	7,990	25,197
183.47	7,545	21,235	183.99	7,998	25,276
183.48	7,554	21,311	184.00	8,007	25,357
183.49	7,562	21,386	184.01	8,016	25,437
183.50	7,571	21,462	184.02	8,025	25,517
183.51	7,580	21,538	184.03	8,034	25,597
183.52	7,588	21,614	184.04	8,044	25,678
183.53	7,597	21,690	184.05	8,053	25,758
183.54	7,606	21,766	184.06	8,062	25,839
183.55	7,615	21,842	184.07	8,071	25,919
183.56	7,623	21,918	184.08	8,080	26,000
183.57	7,632	21,994	184.09	8,089	26,081
183.58	7,641	22,070	184.10	8,099	26,162
183.59	7,649	22,147	184.11	8,108	26,243
183.60	7,658	22,223	184.12	8,117	26,324
183.61	7,667	22,300	184.13	8,126	26,405
183.62	7,676	22,377	184.14	8,135	26,486
183.63	7,684	22,454	184.15	8,144	26,568

Stage-Area-Storage for Pond B-11: Basin #11 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
184.16	8,154	26,649	184.68	8,630	31,013
184.17	8,163	26,731	184.69	8,639	31,099
184.18	8,172	26,813	184.70	8,648	31,186
184.19	8,181	26,894	184.71	8,657	31,272
184.20	8,190	26,976	184.72	8,667	31,359
184.21	8,199	27,058	184.73	8,676	31,446
184.22	8,209	27,140	184.74	8,685	31,532
184.23	8,218	27,222	184.75	8,694	31,619
184.24	8,227	27,305	184.76	8,703	31,706
184.25	8,236	27,387	184.77	8,712	31,793
184.26	8,245	27,469	184.78	8,721	31,881
184.27	8,254	27,552	184.79	8,731	31,968
184.28	8,263	27,634	184.80	8,740	32,055
184.29	8,273	27,717	184.81	8,749	32,143
184.30	8,282	27,800	184.82	8,758	32,230
184.31	8,291	27,883	184.83	8,767	32,318
184.32	8,300	27,966	184.84	8,776	32,406
184.33	8,309	28,049	184.85	8,786	32,493
184.34	8,318	28,132	184.86	8,795	32,581
184.35	8,328	28,215	184.87	8,804	32,669
184.36	8,337	28,298	184.88	8,813	32,757
184.37	8,346	28,382	184.89	8,822	32,846
184.38	8,355	28,465	184.90	8,831	32,934
184.39	8,364	28,549	184.91	8,841	33,022
184.40	8,373	28,633	184.92	8,850	33,111
184.41	8,383	28,716	184.93	8,859	33,199
184.42	8,392	28,800	184.94	8,868	33,288
184.43	8,401	28,884	184.95	8,877	33,376
184.44	8,410	28,968	184.96	8,886	33,465
184.45	8,419	29,052	184.97	8,896	33,554
184.46	8,428	29,137	184.98	8,905	33,643
184.47	8,438	29,221	184.99	8,914	33,732
184.48	8,447	29,305	185.00	8,923	33,822
184.49	8,456	29,390	185.01	8,933	33,911
184.50	8,465	29,475	185.02	8,942	34,000
184.51	8,474	29,559	185.03	8,952	34,090
184.52	8,483	29,644	185.04	8,961	34,179
184.53	8,492	29,729	185.05	8,971	34,269
184.54	8,502	29,814	185.06	8,981	34,359
184.55	8,511	29,899	185.07	8,990	34,448
184.56	8,520	29,984	185.08	9,000	34,538
184.57	8,529	30,069	185.09	9,009	34,628
184.58	8,538	30,155	185.10	9,019	34,719
184.59	8,547	30,240	185.11	9,028	34,809
184.60	8,557	30,326	185.12	9,038	34,899
184.61	8,566	30,411	185.13	9,048	34,990
184.62	8,575	30,497	185.14	9,057	35,080
184.63	8,584	30,583	185.15	9,067	35,171
184.64	8,593	30,669	185.16	9,076	35,261
184.65	8,602	30,755	185.17	9,086	35,352
184.66	8,612	30,841	185.18	9,096	35,443
184.67	8,621	30,927	185.19	9,105	35,534

Stage-Area-Storage for Pond B-11: Basin #11 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
185.20	9,115	35,625	185.72	9,613	40,495
185.21	9,124	35,716	185.73	9,623	40,591
185.22	9,134	35,808	185.74	9,633	40,687
185.23	9,144	35,899	185.75	9,642	40,783
185.24	9,153	35,991	185.76	9,652	40,880
185.25	9,163	36,082	185.77	9,661	40,977
185.26	9,172	36,174	185.78	9,671	41,073
185.27	9,182	36,266	185.79	9,681	41,170
185.28	9,192	36,358	185.80	9,690	41,267
185.29	9,201	36,449	185.81	9,700	41,364
185.30	9,211	36,542	185.82	9,709	41,461
185.31	9,220	36,634	185.83	9,719	41,558
185.32	9,230	36,726	185.84	9,729	41,655
185.33	9,239	36,818	185.85	9,738	41,752
185.34	9,249	36,911	185.86	9,748	41,850
185.35	9,259	37,003	185.87	9,757	41,947
185.36	9,268	37,096	185.88	9,767	42,045
185.37	9,278	37,189	185.89	9,777	42,143
185.38	9,287	37,281	185.90	9,786	42,241
185.39	9,297	37,374	185.91	9,796	42,339
185.40	9,307	37,467	185.92	9,805	42,437
185.41	9,316	37,561	185.93	9,815	42,535
185.42	9,326	37,654	185.94	9,824	42,633
185.43	9,335	37,747	185.95	9,834	42,731
185.44	9,345	37,840	185.96	9,844	42,829
185.45	9,355	37,934	185.97	9,853	42,928
185.46	9,364	38,028	185.98	9,863	43,027
185.47	9,374	38,121	185.99	9,872	43,125
185.48	9,383	38,215	186.00	9,882	43,224
185.49	9,393	38,309			
185.50	9,403	38,403			
185.51	9,412	38,497			
185.52	9,422	38,591			
185.53	9,431	38,685			
185.54	9,441	38,780			
185.55	9,450	38,874			
185.56	9,460	38,969			
185.57	9,470	39,063			
185.58	9,479	39,158			
185.59	9,489	39,253			
185.60	9,498	39,348			
185.61	9,508	39,443			
185.62	9,518	39,538			
185.63	9,527	39,633			
185.64	9,537	39,729			
185.65	9,546	39,824			
185.66	9,556	39,920			
185.67	9,566	40,015			
185.68	9,575	40,111			
185.69	9,585	40,207			
185.70	9,594	40,303			
185.71	9,604	40,399			

Summary for Pond B-12: Basin #12

Inflow Area = 2.426 ac, 44.77% Impervious, Inflow Depth = 9.28" for Future 100 yr event
 Inflow = 22.58 cfs @ 12.17 hrs, Volume= 1.876 af
 Outflow = 15.85 cfs @ 12.27 hrs, Volume= 1.771 af, Atten= 30%, Lag= 5.9 min
 Primary = 15.85 cfs @ 12.27 hrs, Volume= 1.771 af
 Routed to Link PDA-1 : Proposed Drainage Area #1

Routing by Stor-Ind method, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 Peak Elev= 204.31' @ 12.27 hrs Surf.Area= 7,128 sf Storage= 19,380 cf

Plug-Flow detention time= 108.0 min calculated for 1.771 af (94% of inflow)
 Center-of-Mass det. time= 75.5 min (849.0 - 773.5)

Volume	Invert	Avail.Storage	Storage Description
#1	201.00'	24,487 cf	Custom Stage Data (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
201.00	4,623	0	0
202.00	5,350	4,987	4,987
203.00	6,105	5,728	10,714
204.00	6,883	6,494	17,208
205.00	7,674	7,279	24,487

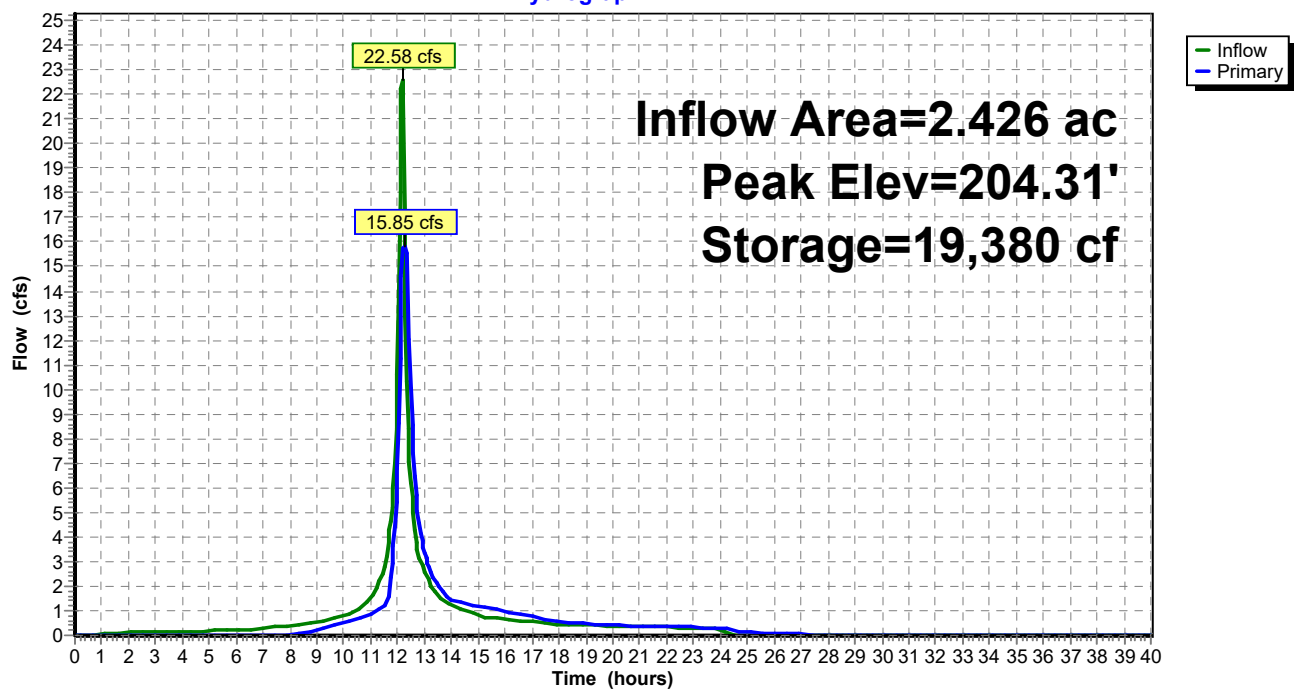
Device	Routing	Invert	Outlet Devices
#1	Primary	199.65'	18.0" Round Culvert L= 238.0' Ke= 0.500 Inlet / Outlet Invert= 199.65' / 195.50' S= 0.0174 '/' Cc= 0.900 n= 0.013, Flow Area= 1.77 sf
#2	Device 1	201.90'	7.5" Vert. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#3	Device 1	203.02'	4.0' long Sharp-Crested Rectangular Weir 2 End Contraction(s)
#4	Primary	204.50'	50.0' long + 3.0 ' SideZ x 5.0' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 Coef. (English) 2.34 2.50 2.70 2.68 2.68 2.66 2.65 2.65 2.65 2.65 2.67 2.66 2.68 2.70 2.74 2.79 2.88

Primary OutFlow Max=15.84 cfs @ 12.27 hrs HW=204.30' (Free Discharge)

1=Culvert (Barrel Controls 15.84 cfs @ 8.96 fps)
 2=Orifice/Grate (Passes < 2.13 cfs potential flow)
 3=Sharp-Crested Rectangular Weir(Passes < 17.67 cfs potential flow)
 4=Broad-Crested Rectangular Weir(Controls 0.00 cfs)

Pond B-12: Basin #12

Hydrograph



Stage-Discharge for Pond B-12: Basin #12

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
201.00	0.00	201.52	0.00	202.04	0.07	202.56	0.87
201.01	0.00	201.53	0.00	202.05	0.07	202.57	0.88
201.02	0.00	201.54	0.00	202.06	0.08	202.58	0.90
201.03	0.00	201.55	0.00	202.07	0.09	202.59	0.91
201.04	0.00	201.56	0.00	202.08	0.11	202.60	0.92
201.05	0.00	201.57	0.00	202.09	0.12	202.61	0.93
201.06	0.00	201.58	0.00	202.10	0.13	202.62	0.94
201.07	0.00	201.59	0.00	202.11	0.14	202.63	0.95
201.08	0.00	201.60	0.00	202.12	0.15	202.64	0.97
201.09	0.00	201.61	0.00	202.13	0.17	202.65	0.98
201.10	0.00	201.62	0.00	202.14	0.18	202.66	0.99
201.11	0.00	201.63	0.00	202.15	0.20	202.67	1.00
201.12	0.00	201.64	0.00	202.16	0.21	202.68	1.01
201.13	0.00	201.65	0.00	202.17	0.22	202.69	1.02
201.14	0.00	201.66	0.00	202.18	0.24	202.70	1.03
201.15	0.00	201.67	0.00	202.19	0.26	202.71	1.04
201.16	0.00	201.68	0.00	202.20	0.27	202.72	1.05
201.17	0.00	201.69	0.00	202.21	0.29	202.73	1.06
201.18	0.00	201.70	0.00	202.22	0.30	202.74	1.07
201.19	0.00	201.71	0.00	202.23	0.32	202.75	1.08
201.20	0.00	201.72	0.00	202.24	0.34	202.76	1.09
201.21	0.00	201.73	0.00	202.25	0.36	202.77	1.10
201.22	0.00	201.74	0.00	202.26	0.37	202.78	1.11
201.23	0.00	201.75	0.00	202.27	0.39	202.79	1.12
201.24	0.00	201.76	0.00	202.28	0.41	202.80	1.13
201.25	0.00	201.77	0.00	202.29	0.43	202.81	1.14
201.26	0.00	201.78	0.00	202.30	0.45	202.82	1.15
201.27	0.00	201.79	0.00	202.31	0.47	202.83	1.16
201.28	0.00	201.80	0.00	202.32	0.48	202.84	1.17
201.29	0.00	201.81	0.00	202.33	0.50	202.85	1.18
201.30	0.00	201.82	0.00	202.34	0.52	202.86	1.19
201.31	0.00	201.83	0.00	202.35	0.54	202.87	1.20
201.32	0.00	201.84	0.00	202.36	0.56	202.88	1.21
201.33	0.00	201.85	0.00	202.37	0.58	202.89	1.22
201.34	0.00	201.86	0.00	202.38	0.60	202.90	1.22
201.35	0.00	201.87	0.00	202.39	0.61	202.91	1.23
201.36	0.00	201.88	0.00	202.40	0.63	202.92	1.24
201.37	0.00	201.89	0.00	202.41	0.65	202.93	1.25
201.38	0.00	201.90	0.00	202.42	0.67	202.94	1.26
201.39	0.00	201.91	0.00	202.43	0.69	202.95	1.27
201.40	0.00	201.92	0.00	202.44	0.70	202.96	1.28
201.41	0.00	201.93	0.00	202.45	0.72	202.97	1.29
201.42	0.00	201.94	0.01	202.46	0.74	202.98	1.29
201.43	0.00	201.95	0.01	202.47	0.75	202.99	1.30
201.44	0.00	201.96	0.01	202.48	0.77	203.00	1.31
201.45	0.00	201.97	0.02	202.49	0.78	203.01	1.32
201.46	0.00	201.98	0.02	202.50	0.80	203.02	1.33
201.47	0.00	201.99	0.03	202.51	0.81	203.03	1.35
201.48	0.00	202.00	0.03	202.52	0.82	203.04	1.38
201.49	0.00	202.01	0.04	202.53	0.83	203.05	1.42
201.50	0.00	202.02	0.05	202.54	0.85	203.06	1.46
201.51	0.00	202.03	0.06	202.55	0.86	203.07	1.51

Stage-Discharge for Pond B-12: Basin #12 (continued)

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
203.08	1.57	203.60	7.35	204.12	15.64	204.64	22.37
203.09	1.63	203.61	7.50	204.13	15.65	204.65	23.06
203.10	1.69	203.62	7.65	204.14	15.66	204.66	23.77
203.11	1.75	203.63	7.80	204.15	15.67	204.67	24.50
203.12	1.82	203.64	7.95	204.16	15.69	204.68	25.26
203.13	1.89	203.65	8.11	204.17	15.70	204.69	26.03
203.14	1.96	203.66	8.26	204.18	15.71	204.70	26.83
203.15	2.04	203.67	8.42	204.19	15.72	204.71	27.69
203.16	2.12	203.68	8.57	204.20	15.73	204.72	28.57
203.17	2.20	203.69	8.73	204.21	15.74	204.73	29.48
203.18	2.28	203.70	8.89	204.22	15.75	204.74	30.41
203.19	2.37	203.71	9.05	204.23	15.76	204.75	31.37
203.20	2.46	203.72	9.21	204.24	15.77	204.76	32.36
203.21	2.55	203.73	9.37	204.25	15.78	204.77	33.37
203.22	2.64	203.74	9.53	204.26	15.79	204.78	34.40
203.23	2.74	203.75	9.69	204.27	15.81	204.79	35.46
203.24	2.83	203.76	9.86	204.28	15.82	204.80	36.54
203.25	2.93	203.77	10.02	204.29	15.83	204.81	37.65
203.26	3.03	203.78	10.19	204.30	15.84	204.82	38.78
203.27	3.13	203.79	10.35	204.31	15.85	204.83	39.94
203.28	3.24	203.80	10.52	204.32	15.86	204.84	41.12
203.29	3.34	203.81	10.69	204.33	15.87	204.85	42.32
203.30	3.45	203.82	10.86	204.34	15.88	204.86	43.55
203.31	3.56	203.83	11.03	204.35	15.89	204.87	44.80
203.32	3.67	203.84	11.20	204.36	15.90	204.88	46.08
203.33	3.78	203.85	11.37	204.37	15.91	204.89	47.38
203.34	3.90	203.86	11.54	204.38	15.92	204.90	48.71
203.35	4.01	203.87	11.72	204.39	15.94	204.91	50.08
203.36	4.13	203.88	11.89	204.40	15.95	204.92	51.48
203.37	4.25	203.89	12.07	204.41	15.96	204.93	52.91
203.38	4.37	203.90	12.24	204.42	15.97	204.94	54.37
203.39	4.49	203.91	12.42	204.43	15.98	204.95	55.85
203.40	4.62	203.92	12.60	204.44	15.99	204.96	57.35
203.41	4.74	203.93	12.77	204.45	16.00	204.97	58.89
203.42	4.87	203.94	12.95	204.46	16.01	204.98	60.45
203.43	4.99	203.95	13.13	204.47	16.02	204.99	62.03
203.44	5.12	203.96	13.31	204.48	16.03	205.00	63.65
203.45	5.25	203.97	13.49	204.49	16.04		
203.46	5.38	203.98	13.68	204.50	16.05		
203.47	5.52	203.99	13.86	204.51	16.18		
203.48	5.65	204.00	14.04	204.52	16.41		
203.49	5.79	204.01	14.23	204.53	16.69		
203.50	5.92	204.02	14.41	204.54	17.03		
203.51	6.06	204.03	14.60	204.55	17.42		
203.52	6.20	204.04	14.78	204.56	17.84		
203.53	6.34	204.05	14.97	204.57	18.30		
203.54	6.48	204.06	15.16	204.58	18.80		
203.55	6.62	204.07	15.35	204.59	19.32		
203.56	6.77	204.08	15.54	204.60	19.88		
203.57	6.91	204.09	15.61	204.61	20.46		
203.58	7.06	204.10	15.62	204.62	21.07		
203.59	7.20	204.11	15.63	204.63	21.71		

Stage-Area-Storage for Pond B-12: Basin #12

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
201.00	4,623	0	201.52	5,001	2,502
201.01	4,630	46	201.53	5,008	2,552
201.02	4,638	93	201.54	5,016	2,602
201.03	4,645	139	201.55	5,023	2,653
201.04	4,652	186	201.56	5,030	2,703
201.05	4,659	232	201.57	5,037	2,753
201.06	4,667	279	201.58	5,045	2,804
201.07	4,674	325	201.59	5,052	2,854
201.08	4,681	372	201.60	5,059	2,905
201.09	4,688	419	201.61	5,066	2,955
201.10	4,696	466	201.62	5,074	3,006
201.11	4,703	513	201.63	5,081	3,057
201.12	4,710	560	201.64	5,088	3,108
201.13	4,718	607	201.65	5,096	3,159
201.14	4,725	654	201.66	5,103	3,210
201.15	4,732	702	201.67	5,110	3,261
201.16	4,739	749	201.68	5,117	3,312
201.17	4,747	796	201.69	5,125	3,363
201.18	4,754	844	201.70	5,132	3,414
201.19	4,761	891	201.71	5,139	3,466
201.20	4,768	939	201.72	5,146	3,517
201.21	4,776	987	201.73	5,154	3,568
201.22	4,783	1,035	201.74	5,161	3,620
201.23	4,790	1,083	201.75	5,168	3,672
201.24	4,797	1,130	201.76	5,176	3,723
201.25	4,805	1,178	201.77	5,183	3,775
201.26	4,812	1,227	201.78	5,190	3,827
201.27	4,819	1,275	201.79	5,197	3,879
201.28	4,827	1,323	201.80	5,205	3,931
201.29	4,834	1,371	201.81	5,212	3,983
201.30	4,841	1,420	201.82	5,219	4,035
201.31	4,848	1,468	201.83	5,226	4,088
201.32	4,856	1,517	201.84	5,234	4,140
201.33	4,863	1,565	201.85	5,241	4,192
201.34	4,870	1,614	201.86	5,248	4,245
201.35	4,877	1,663	201.87	5,255	4,297
201.36	4,885	1,711	201.88	5,263	4,350
201.37	4,892	1,760	201.89	5,270	4,402
201.38	4,899	1,809	201.90	5,277	4,455
201.39	4,907	1,858	201.91	5,285	4,508
201.40	4,914	1,907	201.92	5,292	4,561
201.41	4,921	1,957	201.93	5,299	4,614
201.42	4,928	2,006	201.94	5,306	4,667
201.43	4,936	2,055	201.95	5,314	4,720
201.44	4,943	2,104	201.96	5,321	4,773
201.45	4,950	2,154	201.97	5,328	4,826
201.46	4,957	2,203	201.98	5,335	4,880
201.47	4,965	2,253	201.99	5,343	4,933
201.48	4,972	2,303	202.00	5,350	4,987
201.49	4,979	2,353	202.01	5,358	5,040
201.50	4,987	2,402	202.02	5,365	5,094
201.51	4,994	2,452	202.03	5,373	5,147

Stage-Area-Storage for Pond B-12: Basin #12 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
202.04	5,380	5,201	202.56	5,773	8,101
202.05	5,388	5,255	202.57	5,780	8,159
202.06	5,395	5,309	202.58	5,788	8,216
202.07	5,403	5,363	202.59	5,795	8,274
202.08	5,410	5,417	202.60	5,803	8,332
202.09	5,418	5,471	202.61	5,811	8,390
202.10	5,425	5,525	202.62	5,818	8,449
202.11	5,433	5,580	202.63	5,826	8,507
202.12	5,441	5,634	202.64	5,833	8,565
202.13	5,448	5,688	202.65	5,841	8,623
202.14	5,456	5,743	202.66	5,848	8,682
202.15	5,463	5,797	202.67	5,856	8,740
202.16	5,471	5,852	202.68	5,863	8,799
202.17	5,478	5,907	202.69	5,871	8,858
202.18	5,486	5,962	202.70	5,878	8,916
202.19	5,493	6,017	202.71	5,886	8,975
202.20	5,501	6,072	202.72	5,894	9,034
202.21	5,509	6,127	202.73	5,901	9,093
202.22	5,516	6,182	202.74	5,909	9,152
202.23	5,524	6,237	202.75	5,916	9,211
202.24	5,531	6,292	202.76	5,924	9,271
202.25	5,539	6,348	202.77	5,931	9,330
202.26	5,546	6,403	202.78	5,939	9,389
202.27	5,554	6,459	202.79	5,946	9,449
202.28	5,561	6,514	202.80	5,954	9,508
202.29	5,569	6,570	202.81	5,962	9,568
202.30	5,577	6,625	202.82	5,969	9,627
202.31	5,584	6,681	202.83	5,977	9,687
202.32	5,592	6,737	202.84	5,984	9,747
202.33	5,599	6,793	202.85	5,992	9,807
202.34	5,607	6,849	202.86	5,999	9,867
202.35	5,614	6,905	202.87	6,007	9,927
202.36	5,622	6,961	202.88	6,014	9,987
202.37	5,629	7,018	202.89	6,022	10,047
202.38	5,637	7,074	202.90	6,030	10,107
202.39	5,644	7,130	202.91	6,037	10,168
202.40	5,652	7,187	202.92	6,045	10,228
202.41	5,660	7,243	202.93	6,052	10,288
202.42	5,667	7,300	202.94	6,060	10,349
202.43	5,675	7,357	202.95	6,067	10,410
202.44	5,682	7,414	202.96	6,075	10,470
202.45	5,690	7,470	202.97	6,082	10,531
202.46	5,697	7,527	202.98	6,090	10,592
202.47	5,705	7,584	202.99	6,097	10,653
202.48	5,712	7,641	203.00	6,105	10,714
202.49	5,720	7,699	203.01	6,113	10,775
202.50	5,728	7,756	203.02	6,121	10,836
202.51	5,735	7,813	203.03	6,128	10,898
202.52	5,743	7,871	203.04	6,136	10,959
202.53	5,750	7,928	203.05	6,144	11,020
202.54	5,758	7,986	203.06	6,152	11,082
202.55	5,765	8,043	203.07	6,159	11,143

Stage-Area-Storage for Pond B-12: Basin #12 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
203.08	6,167	11,205	203.60	6,572	14,517
203.09	6,175	11,267	203.61	6,580	14,583
203.10	6,183	11,328	203.62	6,587	14,649
203.11	6,191	11,390	203.63	6,595	14,715
203.12	6,198	11,452	203.64	6,603	14,781
203.13	6,206	11,514	203.65	6,611	14,847
203.14	6,214	11,576	203.66	6,618	14,913
203.15	6,222	11,639	203.67	6,626	14,979
203.16	6,229	11,701	203.68	6,634	15,045
203.17	6,237	11,763	203.69	6,642	15,112
203.18	6,245	11,826	203.70	6,650	15,178
203.19	6,253	11,888	203.71	6,657	15,245
203.20	6,261	11,951	203.72	6,665	15,311
203.21	6,268	12,013	203.73	6,673	15,378
203.22	6,276	12,076	203.74	6,681	15,445
203.23	6,284	12,139	203.75	6,689	15,512
203.24	6,292	12,202	203.76	6,696	15,578
203.25	6,300	12,265	203.77	6,704	15,645
203.26	6,307	12,328	203.78	6,712	15,713
203.27	6,315	12,391	203.79	6,720	15,780
203.28	6,323	12,454	203.80	6,727	15,847
203.29	6,331	12,517	203.81	6,735	15,914
203.30	6,338	12,581	203.82	6,743	15,982
203.31	6,346	12,644	203.83	6,751	16,049
203.32	6,354	12,707	203.84	6,759	16,117
203.33	6,362	12,771	203.85	6,766	16,184
203.34	6,370	12,835	203.86	6,774	16,252
203.35	6,377	12,898	203.87	6,782	16,320
203.36	6,385	12,962	203.88	6,790	16,388
203.37	6,393	13,026	203.89	6,797	16,456
203.38	6,401	13,090	203.90	6,805	16,524
203.39	6,408	13,154	203.91	6,813	16,592
203.40	6,416	13,218	203.92	6,821	16,660
203.41	6,424	13,282	203.93	6,829	16,728
203.42	6,432	13,347	203.94	6,836	16,796
203.43	6,440	13,411	203.95	6,844	16,865
203.44	6,447	13,476	203.96	6,852	16,933
203.45	6,455	13,540	203.97	6,860	17,002
203.46	6,463	13,605	203.98	6,867	17,070
203.47	6,471	13,669	203.99	6,875	17,139
203.48	6,478	13,734	204.00	6,883	17,208
203.49	6,486	13,799	204.01	6,891	17,277
203.50	6,494	13,864	204.02	6,899	17,346
203.51	6,502	13,929	204.03	6,907	17,415
203.52	6,510	13,994	204.04	6,915	17,484
203.53	6,517	14,059	204.05	6,923	17,553
203.54	6,525	14,124	204.06	6,930	17,622
203.55	6,533	14,189	204.07	6,938	17,692
203.56	6,541	14,255	204.08	6,946	17,761
203.57	6,548	14,320	204.09	6,954	17,831
203.58	6,556	14,386	204.10	6,962	17,900
203.59	6,564	14,451	204.11	6,970	17,970

Stage-Area-Storage for Pond B-12: Basin #12 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
204.12	6,978	18,040	204.64	7,389	21,775
204.13	6,986	18,109	204.65	7,397	21,849
204.14	6,994	18,179	204.66	7,405	21,923
204.15	7,002	18,249	204.67	7,413	21,997
204.16	7,010	18,319	204.68	7,421	22,071
204.17	7,017	18,390	204.69	7,429	22,146
204.18	7,025	18,460	204.70	7,437	22,220
204.19	7,033	18,530	204.71	7,445	22,294
204.20	7,041	18,600	204.72	7,453	22,369
204.21	7,049	18,671	204.73	7,460	22,443
204.22	7,057	18,741	204.74	7,468	22,518
204.23	7,065	18,812	204.75	7,476	22,593
204.24	7,073	18,883	204.76	7,484	22,668
204.25	7,081	18,953	204.77	7,492	22,742
204.26	7,089	19,024	204.78	7,500	22,817
204.27	7,097	19,095	204.79	7,508	22,892
204.28	7,104	19,166	204.80	7,516	22,968
204.29	7,112	19,237	204.81	7,524	23,043
204.30	7,120	19,308	204.82	7,532	23,118
204.31	7,128	19,380	204.83	7,540	23,193
204.32	7,136	19,451	204.84	7,547	23,269
204.33	7,144	19,522	204.85	7,555	23,344
204.34	7,152	19,594	204.86	7,563	23,420
204.35	7,160	19,665	204.87	7,571	23,496
204.36	7,168	19,737	204.88	7,579	23,571
204.37	7,176	19,809	204.89	7,587	23,647
204.38	7,184	19,881	204.90	7,595	23,723
204.39	7,191	19,953	204.91	7,603	23,799
204.40	7,199	20,024	204.92	7,611	23,875
204.41	7,207	20,097	204.93	7,619	23,951
204.42	7,215	20,169	204.94	7,627	24,027
204.43	7,223	20,241	204.95	7,634	24,104
204.44	7,231	20,313	204.96	7,642	24,180
204.45	7,239	20,385	204.97	7,650	24,257
204.46	7,247	20,458	204.98	7,658	24,333
204.47	7,255	20,530	204.99	7,666	24,410
204.48	7,263	20,603	205.00	7,674	24,487
204.49	7,271	20,676			
204.50	7,279	20,748			
204.51	7,286	20,821			
204.52	7,294	20,894			
204.53	7,302	20,967			
204.54	7,310	21,040			
204.55	7,318	21,113			
204.56	7,326	21,187			
204.57	7,334	21,260			
204.58	7,342	21,333			
204.59	7,350	21,407			
204.60	7,358	21,480			
204.61	7,366	21,554			
204.62	7,373	21,627			
204.63	7,381	21,701			

Summary for Pond B-13: Basin #13

Inflow Area = 2.350 ac, 62.43% Impervious, Inflow Depth = 9.83" for Future 100 yr event
 Inflow = 22.60 cfs @ 12.17 hrs, Volume= 1.924 af
 Outflow = 19.12 cfs @ 12.24 hrs, Volume= 1.703 af, Atten= 15%, Lag= 4.4 min
 Primary = 19.12 cfs @ 12.24 hrs, Volume= 1.703 af
 Routed to Link PDA-1 : Proposed Drainage Area #1

Routing by Stor-Ind method, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 Peak Elev= 195.07' @ 12.24 hrs Surf.Area= 10,582 sf Storage= 28,433 cf

Plug-Flow detention time= 246.0 min calculated for 1.701 af (88% of inflow)
 Center-of-Mass det. time= 189.8 min (951.9 - 762.1)

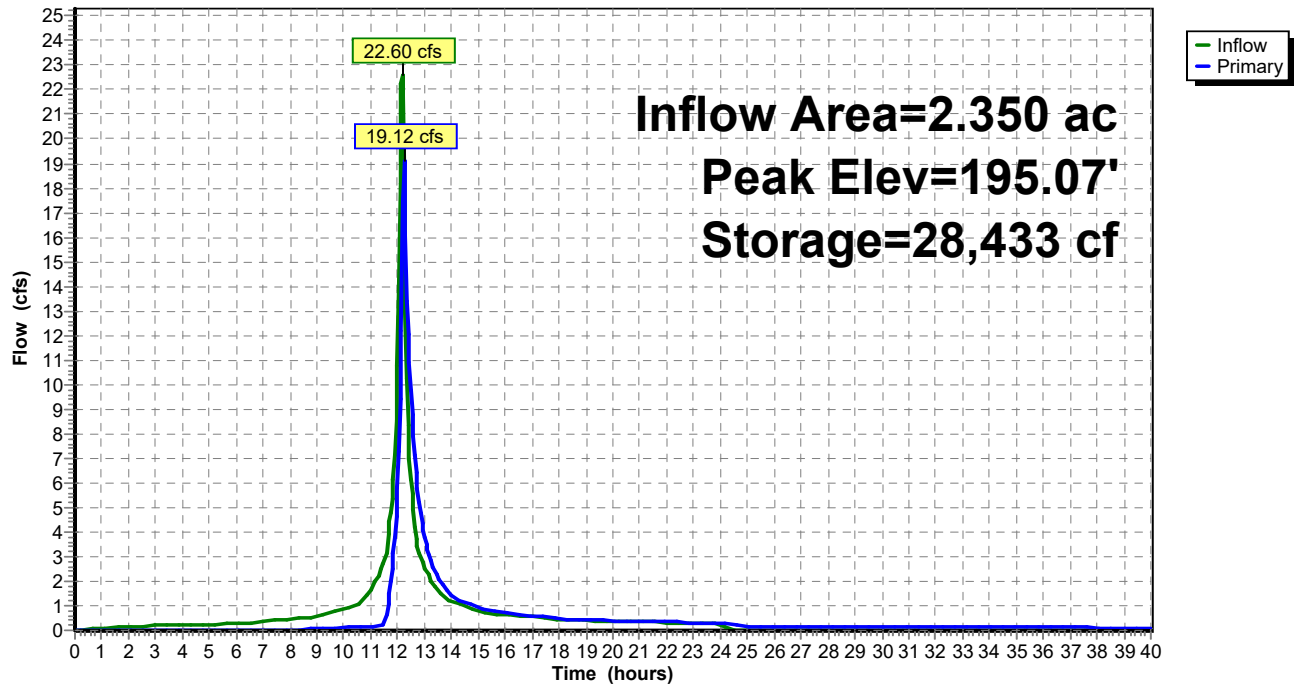
Volume	Invert	Avail.Storage	Storage Description
#1	192.00'	38,667 cf	Custom Stage Data (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
192.00	7,975	0	0
193.00	8,804	8,390	8,390
194.00	9,654	9,229	17,619
195.00	10,522	10,088	27,707
196.00	11,399	10,961	38,667

Device	Routing	Invert	Outlet Devices
#1	Primary	190.65'	18.0" Round Culvert L= 57.0' Ke= 0.500 Inlet / Outlet Invert= 190.65' / 188.00' S= 0.0465 '/' Cc= 0.900 n= 0.013, Flow Area= 1.77 sf
#2	Device 1	192.70'	2.5" Vert. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#3	Device 1	193.95'	4.0' long Sharp-Crested Rectangular Weir 2 End Contraction(s)
#4	Primary	194.96'	50.0' long + 3.0 '/' SideZ x 5.0' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 Coef. (English) 2.34 2.50 2.70 2.68 2.68 2.66 2.65 2.65 2.65 2.65 2.67 2.66 2.68 2.70 2.74 2.79 2.88

Primary OutFlow Max=18.78 cfs @ 12.24 hrs HW=195.06' (Free Discharge)

1=Culvert (Passes 14.79 cfs of 16.29 cfs potential flow)
 2=Orifice/Grate (Orifice Controls 0.25 cfs @ 7.24 fps)
 3=Sharp-Crested Rectangular Weir (Weir Controls 14.54 cfs @ 3.45 fps)
 4=Broad-Crested Rectangular Weir (Weir Controls 3.99 cfs @ 0.76 fps)

Pond B-13: Basin #13**Hydrograph**

Stage-Discharge for Pond B-13: Basin #13

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
192.00	0.00	192.52	0.00	193.04	0.08	193.56	0.14
192.01	0.00	192.53	0.00	193.05	0.08	193.57	0.14
192.02	0.00	192.54	0.00	193.06	0.08	193.58	0.14
192.03	0.00	192.55	0.00	193.07	0.08	193.59	0.15
192.04	0.00	192.56	0.00	193.08	0.09	193.60	0.15
192.05	0.00	192.57	0.00	193.09	0.09	193.61	0.15
192.06	0.00	192.58	0.00	193.10	0.09	193.62	0.15
192.07	0.00	192.59	0.00	193.11	0.09	193.63	0.15
192.08	0.00	192.60	0.00	193.12	0.09	193.64	0.15
192.09	0.00	192.61	0.00	193.13	0.09	193.65	0.15
192.10	0.00	192.62	0.00	193.14	0.10	193.66	0.15
192.11	0.00	192.63	0.00	193.15	0.10	193.67	0.15
192.12	0.00	192.64	0.00	193.16	0.10	193.68	0.15
192.13	0.00	192.65	0.00	193.17	0.10	193.69	0.15
192.14	0.00	192.66	0.00	193.18	0.10	193.70	0.16
192.15	0.00	192.67	0.00	193.19	0.10	193.71	0.16
192.16	0.00	192.68	0.00	193.20	0.10	193.72	0.16
192.17	0.00	192.69	0.00	193.21	0.10	193.73	0.16
192.18	0.00	192.70	0.00	193.22	0.11	193.74	0.16
192.19	0.00	192.71	0.00	193.23	0.11	193.75	0.16
192.20	0.00	192.72	0.00	193.24	0.11	193.76	0.16
192.21	0.00	192.73	0.00	193.25	0.11	193.77	0.16
192.22	0.00	192.74	0.00	193.26	0.11	193.78	0.16
192.23	0.00	192.75	0.00	193.27	0.11	193.79	0.16
192.24	0.00	192.76	0.01	193.28	0.11	193.80	0.16
192.25	0.00	192.77	0.01	193.29	0.11	193.81	0.16
192.26	0.00	192.78	0.01	193.30	0.12	193.82	0.17
192.27	0.00	192.79	0.01	193.31	0.12	193.83	0.17
192.28	0.00	192.80	0.02	193.32	0.12	193.84	0.17
192.29	0.00	192.81	0.02	193.33	0.12	193.85	0.17
192.30	0.00	192.82	0.02	193.34	0.12	193.86	0.17
192.31	0.00	192.83	0.03	193.35	0.12	193.87	0.17
192.32	0.00	192.84	0.03	193.36	0.12	193.88	0.17
192.33	0.00	192.85	0.03	193.37	0.12	193.89	0.17
192.34	0.00	192.86	0.04	193.38	0.12	193.90	0.17
192.35	0.00	192.87	0.04	193.39	0.13	193.91	0.17
192.36	0.00	192.88	0.05	193.40	0.13	193.92	0.17
192.37	0.00	192.89	0.05	193.41	0.13	193.93	0.17
192.38	0.00	192.90	0.05	193.42	0.13	193.94	0.17
192.39	0.00	192.91	0.05	193.43	0.13	193.95	0.18
192.40	0.00	192.92	0.06	193.44	0.13	193.96	0.19
192.41	0.00	192.93	0.06	193.45	0.13	193.97	0.21
192.42	0.00	192.94	0.06	193.46	0.13	193.98	0.25
192.43	0.00	192.95	0.06	193.47	0.13	193.99	0.28
192.44	0.00	192.96	0.06	193.48	0.13	194.00	0.33
192.45	0.00	192.97	0.07	193.49	0.14	194.01	0.37
192.46	0.00	192.98	0.07	193.50	0.14	194.02	0.42
192.47	0.00	192.99	0.07	193.51	0.14	194.03	0.48
192.48	0.00	193.00	0.07	193.52	0.14	194.04	0.53
192.49	0.00	193.01	0.07	193.53	0.14	194.05	0.59
192.50	0.00	193.02	0.08	193.54	0.14	194.06	0.66
192.51	0.00	193.03	0.08	193.55	0.14	194.07	0.73

Stage-Discharge for Pond B-13: Basin #13 (continued)

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
194.08	0.79	194.60	6.85	195.12	23.38	195.64	95.46
194.09	0.87	194.61	7.00	195.13	24.29	195.65	97.21
194.10	0.94	194.62	7.15	195.14	25.23	195.66	98.98
194.11	1.02	194.63	7.31	195.15	26.19	195.67	100.76
194.12	1.10	194.64	7.46	195.16	27.06	195.68	102.55
194.13	1.18	194.65	7.62	195.17	27.93	195.69	104.36
194.14	1.26	194.66	7.77	195.18	28.83	195.70	106.17
194.15	1.35	194.67	7.93	195.19	29.75	195.71	108.00
194.16	1.44	194.68	8.09	195.20	30.69	195.72	109.84
194.17	1.53	194.69	8.24	195.21	31.66	195.73	111.70
194.18	1.62	194.70	8.40	195.22	32.66	195.74	113.56
194.19	1.71	194.71	8.56	195.23	33.68	195.75	115.44
194.20	1.81	194.72	8.72	195.24	34.72	195.76	117.33
194.21	1.91	194.73	8.89	195.25	35.79	195.77	119.27
194.22	2.01	194.74	9.05	195.26	36.89	195.78	121.22
194.23	2.11	194.75	9.21	195.27	38.00	195.79	123.19
194.24	2.21	194.76	9.38	195.28	39.15	195.80	125.17
194.25	2.31	194.77	9.54	195.29	40.31	195.81	127.16
194.26	2.42	194.78	9.71	195.30	41.51	195.82	129.17
194.27	2.53	194.79	9.88	195.31	42.72	195.83	131.19
194.28	2.64	194.80	10.05	195.32	43.96	195.84	133.22
194.29	2.75	194.81	10.22	195.33	45.23	195.85	135.27
194.30	2.86	194.82	10.39	195.34	46.51	195.86	137.32
194.31	2.98	194.83	10.56	195.35	47.83	195.87	139.39
194.32	3.09	194.84	10.73	195.36	49.16	195.88	141.48
194.33	3.21	194.85	10.90	195.37	50.55	195.89	143.57
194.34	3.33	194.86	11.07	195.38	51.96	195.90	145.68
194.35	3.45	194.87	11.25	195.39	53.40	195.91	147.80
194.36	3.57	194.88	11.42	195.40	54.87	195.92	149.94
194.37	3.69	194.89	11.60	195.41	56.36	195.93	152.09
194.38	3.81	194.90	11.77	195.42	57.88	195.94	154.25
194.39	3.94	194.91	11.95	195.43	59.42	195.95	156.42
194.40	4.07	194.92	12.13	195.44	60.99	195.96	158.60
194.41	4.19	194.93	12.31	195.45	62.59	195.97	160.75
194.42	4.32	194.94	12.49	195.46	64.21	195.98	162.90
194.43	4.45	194.95	12.67	195.47	65.86	195.99	165.07
194.44	4.59	194.96	12.85	195.48	67.53	196.00	167.24
194.45	4.72	194.97	13.15	195.49	69.24		
194.46	4.85	194.98	13.54	195.50	70.97		
194.47	4.99	194.99	14.00	195.51	72.72		
194.48	5.13	195.00	14.52	195.52	74.50		
194.49	5.26	195.01	15.07	195.53	76.31		
194.50	5.40	195.02	15.67	195.54	78.15		
194.51	5.54	195.03	16.31	195.55	80.01		
194.52	5.68	195.04	16.98	195.56	81.90		
194.53	5.83	195.05	17.68	195.57	83.55		
194.54	5.97	195.06	18.41	195.58	85.21		
194.55	6.11	195.07	19.17	195.59	86.89		
194.56	6.26	195.08	19.96	195.60	88.58		
194.57	6.41	195.09	20.78	195.61	90.28		
194.58	6.55	195.10	21.62	195.62	91.99		
194.59	6.70	195.11	22.49	195.63	93.72		

Stage-Area-Storage for Pond B-13: Basin #13

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
192.00	7,975	0	192.52	8,406	4,259
192.01	7,983	80	192.53	8,414	4,343
192.02	7,992	160	192.54	8,423	4,427
192.03	8,000	240	192.55	8,431	4,512
192.04	8,008	320	192.56	8,439	4,596
192.05	8,016	400	192.57	8,448	4,680
192.06	8,025	480	192.58	8,456	4,765
192.07	8,033	560	192.59	8,464	4,850
192.08	8,041	641	192.60	8,472	4,934
192.09	8,050	721	192.61	8,481	5,019
192.10	8,058	802	192.62	8,489	5,104
192.11	8,066	882	192.63	8,497	5,189
192.12	8,074	963	192.64	8,506	5,274
192.13	8,083	1,044	192.65	8,514	5,359
192.14	8,091	1,125	192.66	8,522	5,444
192.15	8,099	1,206	192.67	8,530	5,529
192.16	8,108	1,287	192.68	8,539	5,615
192.17	8,116	1,368	192.69	8,547	5,700
192.18	8,124	1,449	192.70	8,555	5,786
192.19	8,133	1,530	192.71	8,564	5,871
192.20	8,141	1,612	192.72	8,572	5,957
192.21	8,149	1,693	192.73	8,580	6,043
192.22	8,157	1,775	192.74	8,588	6,128
192.23	8,166	1,856	192.75	8,597	6,214
192.24	8,174	1,938	192.76	8,605	6,300
192.25	8,182	2,020	192.77	8,613	6,387
192.26	8,191	2,102	192.78	8,622	6,473
192.27	8,199	2,183	192.79	8,630	6,559
192.28	8,207	2,265	192.80	8,638	6,645
192.29	8,215	2,348	192.81	8,646	6,732
192.30	8,224	2,430	192.82	8,655	6,818
192.31	8,232	2,512	192.83	8,663	6,905
192.32	8,240	2,594	192.84	8,671	6,991
192.33	8,249	2,677	192.85	8,680	7,078
192.34	8,257	2,759	192.86	8,688	7,165
192.35	8,265	2,842	192.87	8,696	7,252
192.36	8,273	2,925	192.88	8,705	7,339
192.37	8,282	3,007	192.89	8,713	7,426
192.38	8,290	3,090	192.90	8,721	7,513
192.39	8,298	3,173	192.91	8,729	7,600
192.40	8,307	3,256	192.92	8,738	7,688
192.41	8,315	3,339	192.93	8,746	7,775
192.42	8,323	3,423	192.94	8,754	7,863
192.43	8,331	3,506	192.95	8,763	7,950
192.44	8,340	3,589	192.96	8,771	8,038
192.45	8,348	3,673	192.97	8,779	8,126
192.46	8,356	3,756	192.98	8,787	8,214
192.47	8,365	3,840	192.99	8,796	8,302
192.48	8,373	3,924	193.00	8,804	8,390
192.49	8,381	4,007	193.01	8,812	8,478
192.50	8,390	4,091	193.02	8,821	8,566
192.51	8,398	4,175	193.03	8,830	8,654

Stage-Area-Storage for Pond B-13: Basin #13 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
193.04	8,838	8,742	193.56	9,280	13,453
193.05	8,847	8,831	193.57	9,288	13,546
193.06	8,855	8,919	193.58	9,297	13,639
193.07	8,863	9,008	193.59	9,306	13,732
193.08	8,872	9,097	193.60	9,314	13,825
193.09	8,881	9,185	193.61	9,323	13,918
193.10	8,889	9,274	193.62	9,331	14,011
193.11	8,898	9,363	193.63	9,339	14,105
193.12	8,906	9,452	193.64	9,348	14,198
193.13	8,914	9,541	193.65	9,357	14,292
193.14	8,923	9,630	193.66	9,365	14,385
193.15	8,932	9,720	193.67	9,373	14,479
193.16	8,940	9,809	193.68	9,382	14,573
193.17	8,948	9,898	193.69	9,390	14,667
193.18	8,957	9,988	193.70	9,399	14,761
193.19	8,965	10,078	193.71	9,408	14,855
193.20	8,974	10,167	193.72	9,416	14,949
193.21	8,983	10,257	193.73	9,424	15,043
193.22	8,991	10,347	193.74	9,433	15,137
193.23	8,999	10,437	193.75	9,442	15,232
193.24	9,008	10,527	193.76	9,450	15,326
193.25	9,017	10,617	193.77	9,459	15,421
193.26	9,025	10,707	193.78	9,467	15,515
193.27	9,034	10,798	193.79	9,475	15,610
193.28	9,042	10,888	193.80	9,484	15,705
193.29	9,050	10,978	193.81	9,493	15,800
193.30	9,059	11,069	193.82	9,501	15,895
193.31	9,068	11,160	193.83	9,510	15,990
193.32	9,076	11,250	193.84	9,518	16,085
193.33	9,085	11,341	193.85	9,526	16,180
193.34	9,093	11,432	193.86	9,535	16,275
193.35	9,101	11,523	193.87	9,544	16,371
193.36	9,110	11,614	193.88	9,552	16,466
193.37	9,119	11,705	193.89	9,560	16,562
193.38	9,127	11,796	193.90	9,569	16,657
193.39	9,135	11,888	193.91	9,577	16,753
193.40	9,144	11,979	193.92	9,586	16,849
193.41	9,152	12,071	193.93	9,595	16,945
193.42	9,161	12,162	193.94	9,603	17,041
193.43	9,170	12,254	193.95	9,611	17,137
193.44	9,178	12,346	193.96	9,620	17,233
193.45	9,186	12,437	193.97	9,628	17,329
193.46	9,195	12,529	193.98	9,637	17,426
193.47	9,203	12,621	193.99	9,646	17,522
193.48	9,212	12,713	194.00	9,654	17,619
193.49	9,221	12,806	194.01	9,663	17,715
193.50	9,229	12,898	194.02	9,671	17,812
193.51	9,237	12,990	194.03	9,680	17,909
193.52	9,246	13,083	194.04	9,689	18,005
193.53	9,255	13,175	194.05	9,697	18,102
193.54	9,263	13,268	194.06	9,706	18,199
193.55	9,272	13,360	194.07	9,715	18,296

Stage-Area-Storage for Pond B-13: Basin #13 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
194.08	9,723	18,394	194.60	10,175	23,567
194.09	9,732	18,491	194.61	10,183	23,669
194.10	9,741	18,588	194.62	10,192	23,771
194.11	9,749	18,686	194.63	10,201	23,873
194.12	9,758	18,783	194.64	10,210	23,975
194.13	9,767	18,881	194.65	10,218	24,077
194.14	9,776	18,979	194.66	10,227	24,179
194.15	9,784	19,076	194.67	10,236	24,282
194.16	9,793	19,174	194.68	10,244	24,384
194.17	9,802	19,272	194.69	10,253	24,486
194.18	9,810	19,370	194.70	10,262	24,589
194.19	9,819	19,468	194.71	10,270	24,692
194.20	9,828	19,567	194.72	10,279	24,794
194.21	9,836	19,665	194.73	10,288	24,897
194.22	9,845	19,763	194.74	10,296	25,000
194.23	9,854	19,862	194.75	10,305	25,103
194.24	9,862	19,960	194.76	10,314	25,206
194.25	9,871	20,059	194.77	10,322	25,309
194.26	9,880	20,158	194.78	10,331	25,413
194.27	9,888	20,257	194.79	10,340	25,516
194.28	9,897	20,356	194.80	10,348	25,619
194.29	9,906	20,455	194.81	10,357	25,723
194.30	9,914	20,554	194.82	10,366	25,827
194.31	9,923	20,653	194.83	10,374	25,930
194.32	9,932	20,752	194.84	10,383	26,034
194.33	9,940	20,852	194.85	10,392	26,138
194.34	9,949	20,951	194.86	10,400	26,242
194.35	9,958	21,051	194.87	10,409	26,346
194.36	9,966	21,150	194.88	10,418	26,450
194.37	9,975	21,250	194.89	10,427	26,554
194.38	9,984	21,350	194.90	10,435	26,659
194.39	9,993	21,450	194.91	10,444	26,763
194.40	10,001	21,550	194.92	10,453	26,868
194.41	10,010	21,650	194.93	10,461	26,972
194.42	10,019	21,750	194.94	10,470	27,077
194.43	10,027	21,850	194.95	10,479	27,181
194.44	10,036	21,950	194.96	10,487	27,286
194.45	10,045	22,051	194.97	10,496	27,391
194.46	10,053	22,151	194.98	10,505	27,496
194.47	10,062	22,252	194.99	10,513	27,601
194.48	10,071	22,352	195.00	10,522	27,707
194.49	10,079	22,453	195.01	10,531	27,812
194.50	10,088	22,554	195.02	10,540	27,917
194.51	10,097	22,655	195.03	10,548	28,023
194.52	10,105	22,756	195.04	10,557	28,128
194.53	10,114	22,857	195.05	10,566	28,234
194.54	10,123	22,958	195.06	10,575	28,339
194.55	10,131	23,059	195.07	10,583	28,445
194.56	10,140	23,161	195.08	10,592	28,551
194.57	10,149	23,262	195.09	10,601	28,657
194.58	10,157	23,364	195.10	10,610	28,763
194.59	10,166	23,465	195.11	10,618	28,869

Stage-Area-Storage for Pond B-13: Basin #13 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
195.12	10,627	28,975	195.64	11,083	34,620
195.13	10,636	29,082	195.65	11,092	34,731
195.14	10,645	29,188	195.66	11,101	34,842
195.15	10,654	29,295	195.67	11,110	34,953
195.16	10,662	29,401	195.68	11,118	35,064
195.17	10,671	29,508	195.69	11,127	35,175
195.18	10,680	29,615	195.70	11,136	35,287
195.19	10,689	29,722	195.71	11,145	35,398
195.20	10,697	29,828	195.72	11,153	35,510
195.21	10,706	29,935	195.73	11,162	35,621
195.22	10,715	30,043	195.74	11,171	35,733
195.23	10,724	30,150	195.75	11,180	35,845
195.24	10,732	30,257	195.76	11,189	35,956
195.25	10,741	30,364	195.77	11,197	36,068
195.26	10,750	30,472	195.78	11,206	36,180
195.27	10,759	30,579	195.79	11,215	36,293
195.28	10,768	30,687	195.80	11,224	36,405
195.29	10,776	30,795	195.81	11,232	36,517
195.30	10,785	30,903	195.82	11,241	36,629
195.31	10,794	31,010	195.83	11,250	36,742
195.32	10,803	31,118	195.84	11,259	36,854
195.33	10,811	31,227	195.85	11,267	36,967
195.34	10,820	31,335	195.86	11,276	37,080
195.35	10,829	31,443	195.87	11,285	37,193
195.36	10,838	31,551	195.88	11,294	37,305
195.37	10,846	31,660	195.89	11,303	37,418
195.38	10,855	31,768	195.90	11,311	37,531
195.39	10,864	31,877	195.91	11,320	37,645
195.40	10,873	31,985	195.92	11,329	37,758
195.41	10,882	32,094	195.93	11,338	37,871
195.42	10,890	32,203	195.94	11,346	37,985
195.43	10,899	32,312	195.95	11,355	38,098
195.44	10,908	32,421	195.96	11,364	38,212
195.45	10,917	32,530	195.97	11,373	38,325
195.46	10,925	32,639	195.98	11,381	38,439
195.47	10,934	32,749	195.99	11,390	38,553
195.48	10,943	32,858	196.00	11,399	38,667
195.49	10,952	32,968			
195.50	10,961	33,077			
195.51	10,969	33,187			
195.52	10,978	33,297			
195.53	10,987	33,406			
195.54	10,996	33,516			
195.55	11,004	33,626			
195.56	11,013	33,736			
195.57	11,022	33,847			
195.58	11,031	33,957			
195.59	11,039	34,067			
195.60	11,048	34,178			
195.61	11,057	34,288			
195.62	11,066	34,399			
195.63	11,075	34,509			

Summary for Pond B-14: Basin #14

Inflow Area = 2.148 ac, 23.65% Impervious, Inflow Depth = 8.63" for Future 100 yr event
 Inflow = 19.21 cfs @ 12.17 hrs, Volume= 1.544 af
 Outflow = 16.02 cfs @ 12.25 hrs, Volume= 1.432 af, Atten= 17%, Lag= 4.7 min
 Primary = 16.02 cfs @ 12.25 hrs, Volume= 1.432 af
 Routed to Link PDA-1 : Proposed Drainage Area #1

Routing by Stor-Ind method, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 Peak Elev= 194.51' @ 12.25 hrs Surf.Area= 8,715 sf Storage= 20,010 cf

Plug-Flow detention time= 203.2 min calculated for 1.432 af (93% of inflow)
 Center-of-Mass det. time= 163.6 min (952.6 - 789.0)

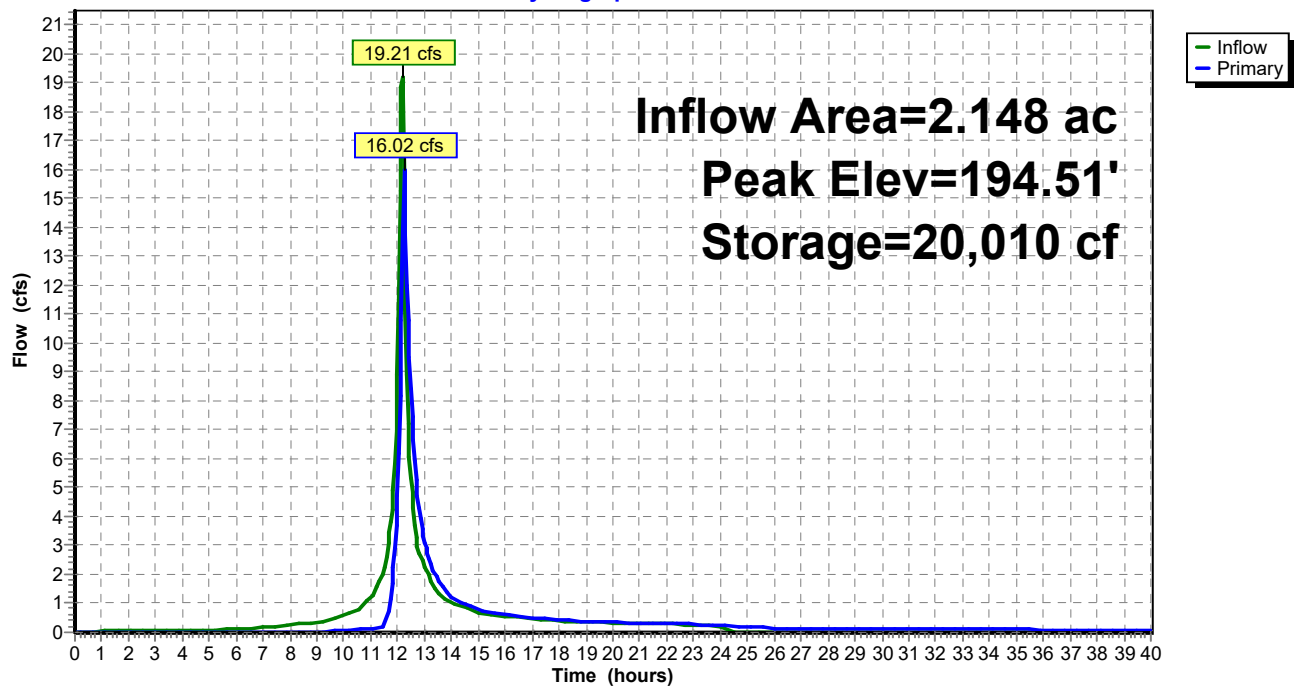
Volume	Invert	Avail.Storage	Storage Description
#1	192.00'	24,345 cf	Custom Stage Data (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
192.00	7,240	0	0
193.00	7,814	7,527	7,527
194.00	8,405	8,110	15,637
195.00	9,012	8,709	24,345

Device	Routing	Invert	Outlet Devices
#1	Primary	190.65'	18.0" Round Culvert L= 194.0' Ke= 0.500 Inlet / Outlet Invert= 190.65' / 188.00' S= 0.0137 '/' Cc= 0.900 n= 0.013, Flow Area= 1.77 sf
#2	Device 1	192.40'	2.5" Vert. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#3	Device 1	193.45'	4.0' long Sharp-Crested Rectangular Weir 2 End Contraction(s)
#4	Primary	194.44'	50.0' long + 3.0 '/' SideZ x 5.0' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 Coef. (English) 2.34 2.50 2.70 2.68 2.68 2.66 2.65 2.65 2.65 2.65 2.67 2.66 2.68 2.70 2.74 2.79 2.88

Primary OutFlow Max=15.93 cfs @ 12.25 hrs HW=194.51' (Free Discharge)

1=Culvert (Passes 13.75 cfs of 14.13 cfs potential flow)
 2=Orifice/Grate (Orifice Controls 0.23 cfs @ 6.82 fps)
 3=Sharp-Crested Rectangular Weir (Weir Controls 13.52 cfs @ 3.37 fps)
 4=Broad-Crested Rectangular Weir (Weir Controls 2.18 cfs @ 0.62 fps)

Pond B-14: Basin #14**Hydrograph**

Stage-Discharge for Pond B-14: Basin #14

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
192.00	0.00	192.52	0.02	193.04	0.12	193.56	0.64
192.01	0.00	192.53	0.03	193.05	0.12	193.57	0.71
192.02	0.00	192.54	0.03	193.06	0.12	193.58	0.78
192.03	0.00	192.55	0.03	193.07	0.12	193.59	0.85
192.04	0.00	192.56	0.04	193.08	0.12	193.60	0.93
192.05	0.00	192.57	0.04	193.09	0.13	193.61	1.00
192.06	0.00	192.58	0.05	193.10	0.13	193.62	1.08
192.07	0.00	192.59	0.05	193.11	0.13	193.63	1.16
192.08	0.00	192.60	0.05	193.12	0.13	193.64	1.25
192.09	0.00	192.61	0.05	193.13	0.13	193.65	1.33
192.10	0.00	192.62	0.06	193.14	0.13	193.66	1.42
192.11	0.00	192.63	0.06	193.15	0.13	193.67	1.51
192.12	0.00	192.64	0.06	193.16	0.13	193.68	1.60
192.13	0.00	192.65	0.06	193.17	0.13	193.69	1.70
192.14	0.00	192.66	0.06	193.18	0.13	193.70	1.79
192.15	0.00	192.67	0.07	193.19	0.14	193.71	1.89
192.16	0.00	192.68	0.07	193.20	0.14	193.72	1.99
192.17	0.00	192.69	0.07	193.21	0.14	193.73	2.09
192.18	0.00	192.70	0.07	193.22	0.14	193.74	2.20
192.19	0.00	192.71	0.07	193.23	0.14	193.75	2.30
192.20	0.00	192.72	0.08	193.24	0.14	193.76	2.41
192.21	0.00	192.73	0.08	193.25	0.14	193.77	2.51
192.22	0.00	192.74	0.08	193.26	0.14	193.78	2.62
192.23	0.00	192.75	0.08	193.27	0.14	193.79	2.74
192.24	0.00	192.76	0.08	193.28	0.14	193.80	2.85
192.25	0.00	192.77	0.08	193.29	0.15	193.81	2.96
192.26	0.00	192.78	0.09	193.30	0.15	193.82	3.08
192.27	0.00	192.79	0.09	193.31	0.15	193.83	3.19
192.28	0.00	192.80	0.09	193.32	0.15	193.84	3.31
192.29	0.00	192.81	0.09	193.33	0.15	193.85	3.43
192.30	0.00	192.82	0.09	193.34	0.15	193.86	3.55
192.31	0.00	192.83	0.09	193.35	0.15	193.87	3.68
192.32	0.00	192.84	0.10	193.36	0.15	193.88	3.80
192.33	0.00	192.85	0.10	193.37	0.15	193.89	3.93
192.34	0.00	192.86	0.10	193.38	0.15	193.90	4.05
192.35	0.00	192.87	0.10	193.39	0.15	193.91	4.18
192.36	0.00	192.88	0.10	193.40	0.16	193.92	4.31
192.37	0.00	192.89	0.10	193.41	0.16	193.93	4.44
192.38	0.00	192.90	0.10	193.42	0.16	193.94	4.57
192.39	0.00	192.91	0.10	193.43	0.16	193.95	4.71
192.40	0.00	192.92	0.11	193.44	0.16	193.96	4.84
192.41	0.00	192.93	0.11	193.45	0.16	193.97	4.98
192.42	0.00	192.94	0.11	193.46	0.17	193.98	5.11
192.43	0.00	192.95	0.11	193.47	0.20	193.99	5.25
192.44	0.00	192.96	0.11	193.48	0.23	194.00	5.39
192.45	0.00	192.97	0.11	193.49	0.27	194.01	5.53
192.46	0.01	192.98	0.11	193.50	0.31	194.02	5.67
192.47	0.01	192.99	0.11	193.51	0.36	194.03	5.81
192.48	0.01	193.00	0.12	193.52	0.41	194.04	5.96
192.49	0.01	193.01	0.12	193.53	0.46	194.05	6.10
192.50	0.02	193.02	0.12	193.54	0.52	194.06	6.25
192.51	0.02	193.03	0.12	193.55	0.58	194.07	6.39

Stage-Discharge for Pond B-14: Basin #14 (continued)

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
194.08	6.54	194.60	21.80
194.09	6.69	194.61	22.54
194.10	6.84	194.62	23.29
194.11	6.99	194.63	24.07
194.12	7.14	194.64	24.88
194.13	7.29	194.65	25.74
194.14	7.45	194.66	26.62
194.15	7.60	194.67	27.53
194.16	7.76	194.68	28.47
194.17	7.92	194.69	29.43
194.18	8.07	194.70	30.42
194.19	8.23	194.71	31.43
194.20	8.39	194.72	32.47
194.21	8.55	194.73	33.53
194.22	8.71	194.74	34.62
194.23	8.87	194.75	35.73
194.24	9.04	194.76	36.86
194.25	9.20	194.77	38.02
194.26	9.37	194.78	39.21
194.27	9.53	194.79	40.41
194.28	9.70	194.80	41.65
194.29	9.87	194.81	42.90
194.30	10.03	194.82	44.18
194.31	10.20	194.83	45.49
194.32	10.37	194.84	46.82
194.33	10.54	194.85	48.20
194.34	10.72	194.86	49.60
194.35	10.89	194.87	51.03
194.36	11.06	194.88	52.49
194.37	11.24	194.89	53.97
194.38	11.41	194.90	55.48
194.39	11.59	194.91	57.02
194.40	11.76	194.92	58.58
194.41	11.94	194.93	60.17
194.42	12.12	194.94	61.79
194.43	12.30	194.95	63.43
194.44	12.47	194.96	65.10
194.45	12.77	194.97	66.79
194.46	13.17	194.98	68.51
194.47	13.63	194.99	70.26
194.48	14.14	195.00	72.04
194.49	14.69		
194.50	15.29		
194.51	15.92		
194.52	16.59		
194.53	17.29		
194.54	17.89		
194.55	18.48		
194.56	19.09		
194.57	19.73		
194.58	20.40		
194.59	21.09		

Stage-Area-Storage for Pond B-14: Basin #14

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
192.00	7,240	0	192.52	7,538	3,842
192.01	7,246	72	192.53	7,544	3,918
192.02	7,251	145	192.54	7,550	3,993
192.03	7,257	217	192.55	7,556	4,069
192.04	7,263	290	192.56	7,561	4,144
192.05	7,269	363	192.57	7,567	4,220
192.06	7,274	435	192.58	7,573	4,296
192.07	7,280	508	192.59	7,579	4,372
192.08	7,286	581	192.60	7,584	4,447
192.09	7,292	654	192.61	7,590	4,523
192.10	7,297	727	192.62	7,596	4,599
192.11	7,303	800	192.63	7,602	4,675
192.12	7,309	873	192.64	7,607	4,751
192.13	7,315	946	192.65	7,613	4,827
192.14	7,320	1,019	192.66	7,619	4,903
192.15	7,326	1,092	192.67	7,625	4,980
192.16	7,332	1,166	192.68	7,630	5,056
192.17	7,338	1,239	192.69	7,636	5,132
192.18	7,343	1,312	192.70	7,642	5,209
192.19	7,349	1,386	192.71	7,648	5,285
192.20	7,355	1,459	192.72	7,653	5,362
192.21	7,361	1,533	192.73	7,659	5,438
192.22	7,366	1,607	192.74	7,665	5,515
192.23	7,372	1,680	192.75	7,671	5,591
192.24	7,378	1,754	192.76	7,676	5,668
192.25	7,384	1,828	192.77	7,682	5,745
192.26	7,389	1,902	192.78	7,688	5,822
192.27	7,395	1,976	192.79	7,693	5,899
192.28	7,401	2,050	192.80	7,699	5,976
192.29	7,406	2,124	192.81	7,705	6,053
192.30	7,412	2,198	192.82	7,711	6,130
192.31	7,418	2,272	192.83	7,716	6,207
192.32	7,424	2,346	192.84	7,722	6,284
192.33	7,429	2,420	192.85	7,728	6,361
192.34	7,435	2,495	192.86	7,734	6,439
192.35	7,441	2,569	192.87	7,739	6,516
192.36	7,447	2,644	192.88	7,745	6,593
192.37	7,452	2,718	192.89	7,751	6,671
192.38	7,458	2,793	192.90	7,757	6,748
192.39	7,464	2,867	192.91	7,762	6,826
192.40	7,470	2,942	192.92	7,768	6,904
192.41	7,475	3,017	192.93	7,774	6,981
192.42	7,481	3,091	192.94	7,780	7,059
192.43	7,487	3,166	192.95	7,785	7,137
192.44	7,493	3,241	192.96	7,791	7,215
192.45	7,498	3,316	192.97	7,797	7,293
192.46	7,504	3,391	192.98	7,803	7,371
192.47	7,510	3,466	192.99	7,808	7,449
192.48	7,516	3,541	193.00	7,814	7,527
192.49	7,521	3,617	193.01	7,820	7,605
192.50	7,527	3,692	193.02	7,826	7,683
192.51	7,533	3,767	193.03	7,832	7,762

Stage-Area-Storage for Pond B-14: Basin #14 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
193.04	7,838	7,840	193.56	8,145	11,996
193.05	7,844	7,918	193.57	8,151	12,077
193.06	7,849	7,997	193.58	8,157	12,159
193.07	7,855	8,075	193.59	8,163	12,240
193.08	7,861	8,154	193.60	8,169	12,322
193.09	7,867	8,233	193.61	8,175	12,403
193.10	7,873	8,311	193.62	8,180	12,485
193.11	7,879	8,390	193.63	8,186	12,567
193.12	7,885	8,469	193.64	8,192	12,649
193.13	7,891	8,548	193.65	8,198	12,731
193.14	7,897	8,627	193.66	8,204	12,813
193.15	7,903	8,706	193.67	8,210	12,895
193.16	7,909	8,785	193.68	8,216	12,977
193.17	7,914	8,864	193.69	8,222	13,059
193.18	7,920	8,943	193.70	8,228	13,142
193.19	7,926	9,022	193.71	8,234	13,224
193.20	7,932	9,102	193.72	8,240	13,306
193.21	7,938	9,181	193.73	8,245	13,389
193.22	7,944	9,260	193.74	8,251	13,471
193.23	7,950	9,340	193.75	8,257	13,554
193.24	7,956	9,419	193.76	8,263	13,636
193.25	7,962	9,499	193.77	8,269	13,719
193.26	7,968	9,579	193.78	8,275	13,802
193.27	7,974	9,658	193.79	8,281	13,884
193.28	7,979	9,738	193.80	8,287	13,967
193.29	7,985	9,818	193.81	8,293	14,050
193.30	7,991	9,898	193.82	8,299	14,133
193.31	7,997	9,978	193.83	8,305	14,216
193.32	8,003	10,058	193.84	8,310	14,299
193.33	8,009	10,138	193.85	8,316	14,382
193.34	8,015	10,218	193.86	8,322	14,466
193.35	8,021	10,298	193.87	8,328	14,549
193.36	8,027	10,378	193.88	8,334	14,632
193.37	8,033	10,459	193.89	8,340	14,716
193.38	8,039	10,539	193.90	8,346	14,799
193.39	8,044	10,619	193.91	8,352	14,882
193.40	8,050	10,700	193.92	8,358	14,966
193.41	8,056	10,780	193.93	8,364	15,050
193.42	8,062	10,861	193.94	8,370	15,133
193.43	8,068	10,942	193.95	8,375	15,217
193.44	8,074	11,022	193.96	8,381	15,301
193.45	8,080	11,103	193.97	8,387	15,385
193.46	8,086	11,184	193.98	8,393	15,469
193.47	8,092	11,265	193.99	8,399	15,552
193.48	8,098	11,346	194.00	8,405	15,637
193.49	8,104	11,427	194.01	8,411	15,721
193.50	8,110	11,508	194.02	8,417	15,805
193.51	8,115	11,589	194.03	8,423	15,889
193.52	8,121	11,670	194.04	8,429	15,973
193.53	8,127	11,751	194.05	8,435	16,058
193.54	8,133	11,833	194.06	8,441	16,142
193.55	8,139	11,914	194.07	8,447	16,226

Stage-Area-Storage for Pond B-14: Basin #14 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
194.08	8,454	16,311	194.60	8,769	20,789
194.09	8,460	16,395	194.61	8,775	20,876
194.10	8,466	16,480	194.62	8,781	20,964
194.11	8,472	16,565	194.63	8,787	21,052
194.12	8,478	16,649	194.64	8,793	21,140
194.13	8,484	16,734	194.65	8,800	21,228
194.14	8,490	16,819	194.66	8,806	21,316
194.15	8,496	16,904	194.67	8,812	21,404
194.16	8,502	16,989	194.68	8,818	21,492
194.17	8,508	17,074	194.69	8,824	21,580
194.18	8,514	17,159	194.70	8,830	21,669
194.19	8,520	17,244	194.71	8,836	21,757
194.20	8,526	17,330	194.72	8,842	21,845
194.21	8,532	17,415	194.73	8,848	21,934
194.22	8,539	17,500	194.74	8,854	22,022
194.23	8,545	17,586	194.75	8,860	22,111
194.24	8,551	17,671	194.76	8,866	22,200
194.25	8,557	17,757	194.77	8,872	22,288
194.26	8,563	17,842	194.78	8,878	22,377
194.27	8,569	17,928	194.79	8,885	22,466
194.28	8,575	18,014	194.80	8,891	22,555
194.29	8,581	18,099	194.81	8,897	22,644
194.30	8,587	18,185	194.82	8,903	22,733
194.31	8,593	18,271	194.83	8,909	22,822
194.32	8,599	18,357	194.84	8,915	22,911
194.33	8,605	18,443	194.85	8,921	23,000
194.34	8,611	18,529	194.86	8,927	23,089
194.35	8,617	18,615	194.87	8,933	23,179
194.36	8,624	18,702	194.88	8,939	23,268
194.37	8,630	18,788	194.89	8,945	23,357
194.38	8,636	18,874	194.90	8,951	23,447
194.39	8,642	18,961	194.91	8,957	23,536
194.40	8,648	19,047	194.92	8,963	23,626
194.41	8,654	19,134	194.93	8,970	23,716
194.42	8,660	19,220	194.94	8,976	23,805
194.43	8,666	19,307	194.95	8,982	23,895
194.44	8,672	19,393	194.96	8,988	23,985
194.45	8,678	19,480	194.97	8,994	24,075
194.46	8,684	19,567	194.98	9,000	24,165
194.47	8,690	19,654	194.99	9,006	24,255
194.48	8,696	19,741	195.00	9,012	24,345
194.49	8,702	19,828			
194.50	8,709	19,915			
194.51	8,715	20,002			
194.52	8,721	20,089			
194.53	8,727	20,176			
194.54	8,733	20,264			
194.55	8,739	20,351			
194.56	8,745	20,438			
194.57	8,751	20,526			
194.58	8,757	20,613			
194.59	8,763	20,701			

Summary for Pond B-15: Basin #15

Inflow Area = 2.365 ac, 58.73% Impervious, Inflow Depth = 9.71" for Future 100 yr event
 Inflow = 22.59 cfs @ 12.17 hrs, Volume= 1.914 af
 Outflow = 15.86 cfs @ 12.26 hrs, Volume= 1.786 af, Atten= 30%, Lag= 5.6 min
 Primary = 15.86 cfs @ 12.26 hrs, Volume= 1.786 af
 Routed to Link PDA-1 : Proposed Drainage Area #1

Routing by Stor-Ind method, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 Peak Elev= 200.00' @ 12.27 hrs Surf.Area= 6,002 sf Storage= 19,269 cf

Plug-Flow detention time= 118.0 min calculated for 1.786 af (93% of inflow)
 Center-of-Mass det. time= 79.8 min (844.2 - 764.4)

Volume	Invert	Avail.Storage	Storage Description
#1	196.00'	19,269 cf	Custom Stage Data (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
196.00	3,706	0	0
197.00	4,236	3,971	3,971
198.00	4,795	4,516	8,487
199.00	5,384	5,090	13,576
200.00	6,002	5,693	19,269

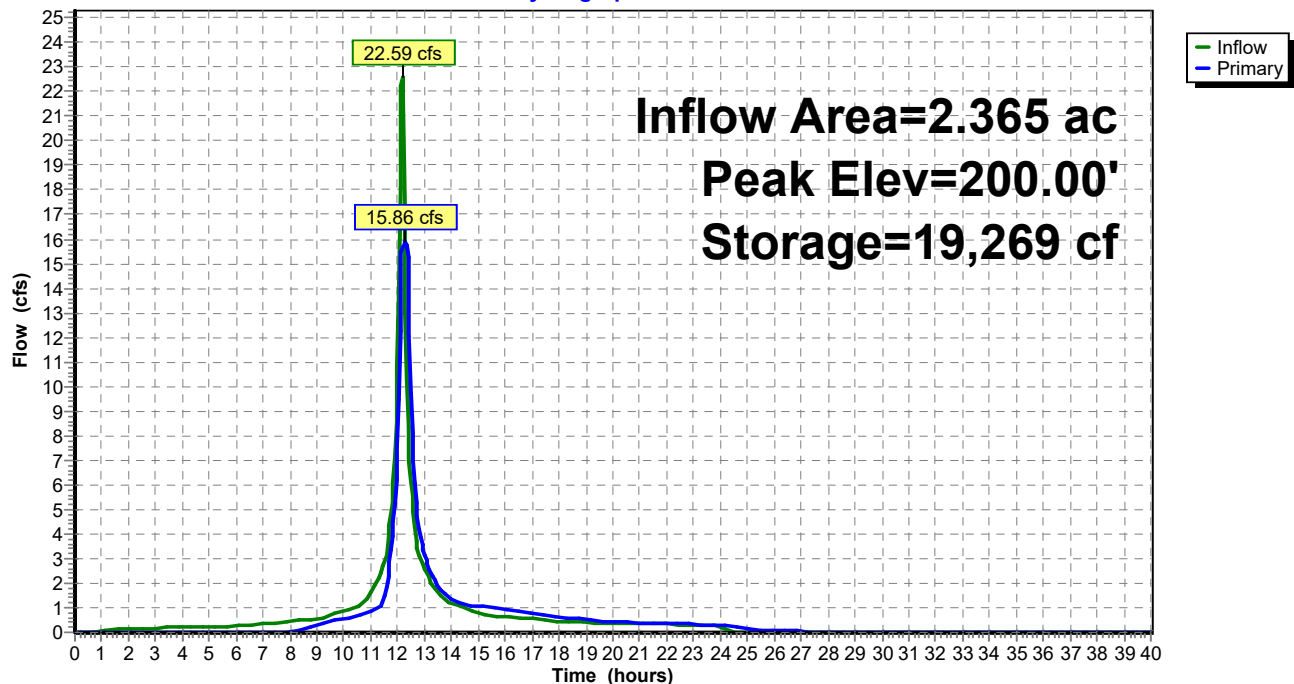
Device	Routing	Invert	Outlet Devices
#1	Primary	194.65'	18.0" Round Culvert L= 203.0' Ke= 0.500 Inlet / Outlet Invert= 194.65' / 192.00' S= 0.0131 '/' Cc= 0.900 n= 0.013, Flow Area= 1.77 sf
#2	Device 1	197.35'	6.5" Vert. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#3	Device 1	198.58'	4.0' long Sharp-Crested Rectangular Weir 2 End Contraction(s)
#4	Primary	199.99'	50.0' long + 3.0 '/' SideZ x 5.0' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 Coef. (English) 2.34 2.50 2.70 2.68 2.68 2.66 2.65 2.65 2.65 2.65 2.67 2.66 2.68 2.70 2.74 2.79 2.88

Primary OutFlow Max=15.82 cfs @ 12.26 hrs HW=199.99' (Free Discharge)

1=Culvert (Barrel Controls 15.82 cfs @ 8.95 fps)
 2=Orifice/Grate (Passes < 1.71 cfs potential flow)
 3=Sharp-Crested Rectangular Weir (Passes < 20.30 cfs potential flow)
 4=Broad-Crested Rectangular Weir (Controls 0.00 cfs)

Pond B-15: Basin #15

Hydrograph



Stage-Discharge for Pond B-15: Basin #15

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
196.00	0.00	196.52	0.00	197.04	0.00	197.56	0.13
196.01	0.00	196.53	0.00	197.05	0.00	197.57	0.14
196.02	0.00	196.54	0.00	197.06	0.00	197.58	0.15
196.03	0.00	196.55	0.00	197.07	0.00	197.59	0.16
196.04	0.00	196.56	0.00	197.08	0.00	197.60	0.18
196.05	0.00	196.57	0.00	197.09	0.00	197.61	0.19
196.06	0.00	196.58	0.00	197.10	0.00	197.62	0.20
196.07	0.00	196.59	0.00	197.11	0.00	197.63	0.22
196.08	0.00	196.60	0.00	197.12	0.00	197.64	0.23
196.09	0.00	196.61	0.00	197.13	0.00	197.65	0.24
196.10	0.00	196.62	0.00	197.14	0.00	197.66	0.26
196.11	0.00	196.63	0.00	197.15	0.00	197.67	0.27
196.12	0.00	196.64	0.00	197.16	0.00	197.68	0.29
196.13	0.00	196.65	0.00	197.17	0.00	197.69	0.30
196.14	0.00	196.66	0.00	197.18	0.00	197.70	0.32
196.15	0.00	196.67	0.00	197.19	0.00	197.71	0.33
196.16	0.00	196.68	0.00	197.20	0.00	197.72	0.35
196.17	0.00	196.69	0.00	197.21	0.00	197.73	0.36
196.18	0.00	196.70	0.00	197.22	0.00	197.74	0.38
196.19	0.00	196.71	0.00	197.23	0.00	197.75	0.39
196.20	0.00	196.72	0.00	197.24	0.00	197.76	0.41
196.21	0.00	196.73	0.00	197.25	0.00	197.77	0.42
196.22	0.00	196.74	0.00	197.26	0.00	197.78	0.44
196.23	0.00	196.75	0.00	197.27	0.00	197.79	0.45
196.24	0.00	196.76	0.00	197.28	0.00	197.80	0.47
196.25	0.00	196.77	0.00	197.29	0.00	197.81	0.48
196.26	0.00	196.78	0.00	197.30	0.00	197.82	0.50
196.27	0.00	196.79	0.00	197.31	0.00	197.83	0.51
196.28	0.00	196.80	0.00	197.32	0.00	197.84	0.52
196.29	0.00	196.81	0.00	197.33	0.00	197.85	0.54
196.30	0.00	196.82	0.00	197.34	0.00	197.86	0.55
196.31	0.00	196.83	0.00	197.35	0.00	197.87	0.56
196.32	0.00	196.84	0.00	197.36	0.00	197.88	0.57
196.33	0.00	196.85	0.00	197.37	0.00	197.89	0.58
196.34	0.00	196.86	0.00	197.38	0.00	197.90	0.59
196.35	0.00	196.87	0.00	197.39	0.01	197.91	0.60
196.36	0.00	196.88	0.00	197.40	0.01	197.92	0.61
196.37	0.00	196.89	0.00	197.41	0.01	197.93	0.62
196.38	0.00	196.90	0.00	197.42	0.02	197.94	0.63
196.39	0.00	196.91	0.00	197.43	0.02	197.95	0.64
196.40	0.00	196.92	0.00	197.44	0.03	197.96	0.65
196.41	0.00	196.93	0.00	197.45	0.03	197.97	0.66
196.42	0.00	196.94	0.00	197.46	0.04	197.98	0.66
196.43	0.00	196.95	0.00	197.47	0.04	197.99	0.67
196.44	0.00	196.96	0.00	197.48	0.05	198.00	0.68
196.45	0.00	196.97	0.00	197.49	0.06	198.01	0.69
196.46	0.00	196.98	0.00	197.50	0.07	198.02	0.70
196.47	0.00	196.99	0.00	197.51	0.08	198.03	0.71
196.48	0.00	197.00	0.00	197.52	0.09	198.04	0.72
196.49	0.00	197.01	0.00	197.53	0.10	198.05	0.73
196.50	0.00	197.02	0.00	197.54	0.11	198.06	0.74
196.51	0.00	197.03	0.00	197.55	0.12	198.07	0.74

Stage-Discharge for Pond B-15: Basin #15 (continued)

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
198.08	0.75	198.60	1.13	199.12	6.41	199.64	15.09
198.09	0.76	198.61	1.17	199.13	6.55	199.65	15.28
198.10	0.77	198.62	1.21	199.14	6.70	199.66	15.42
198.11	0.78	198.63	1.26	199.15	6.84	199.67	15.43
198.12	0.78	198.64	1.31	199.16	6.99	199.68	15.44
198.13	0.79	198.65	1.37	199.17	7.13	199.69	15.45
198.14	0.80	198.66	1.43	199.18	7.28	199.70	15.47
198.15	0.81	198.67	1.49	199.19	7.43	199.71	15.48
198.16	0.81	198.68	1.55	199.20	7.58	199.72	15.49
198.17	0.82	198.69	1.62	199.21	7.73	199.73	15.50
198.18	0.83	198.70	1.69	199.22	7.89	199.74	15.52
198.19	0.84	198.71	1.77	199.23	8.04	199.75	15.53
198.20	0.84	198.72	1.84	199.24	8.19	199.76	15.54
198.21	0.85	198.73	1.92	199.25	8.35	199.77	15.55
198.22	0.86	198.74	2.00	199.26	8.51	199.78	15.57
198.23	0.87	198.75	2.09	199.27	8.66	199.79	15.58
198.24	0.87	198.76	2.17	199.28	8.82	199.80	15.59
198.25	0.88	198.77	2.26	199.29	8.98	199.81	15.60
198.26	0.89	198.78	2.35	199.30	9.14	199.82	15.62
198.27	0.89	198.79	2.45	199.31	9.30	199.83	15.63
198.28	0.90	198.80	2.54	199.32	9.46	199.84	15.64
198.29	0.91	198.81	2.64	199.33	9.63	199.85	15.65
198.30	0.91	198.82	2.73	199.34	9.79	199.86	15.66
198.31	0.92	198.83	2.83	199.35	9.96	199.87	15.68
198.32	0.93	198.84	2.94	199.36	10.12	199.88	15.69
198.33	0.93	198.85	3.04	199.37	10.29	199.89	15.70
198.34	0.94	198.86	3.15	199.38	10.46	199.90	15.71
198.35	0.95	198.87	3.25	199.39	10.62	199.91	15.73
198.36	0.95	198.88	3.36	199.40	10.79	199.92	15.74
198.37	0.96	198.89	3.47	199.41	10.96	199.93	15.75
198.38	0.97	198.90	3.58	199.42	11.14	199.94	15.76
198.39	0.97	198.91	3.70	199.43	11.31	199.95	15.78
198.40	0.98	198.92	3.81	199.44	11.48	199.96	15.79
198.41	0.99	198.93	3.93	199.45	11.65	199.97	15.80
198.42	0.99	198.94	4.05	199.46	11.83	199.98	15.81
198.43	1.00	198.95	4.17	199.47	12.00	199.99	15.82
198.44	1.00	198.96	4.29	199.48	12.18	200.00	15.95
198.45	1.01	198.97	4.41	199.49	12.35		
198.46	1.02	198.98	4.54	199.50	12.53		
198.47	1.02	198.99	4.66	199.51	12.71		
198.48	1.03	199.00	4.79	199.52	12.89		
198.49	1.03	199.01	4.92	199.53	13.07		
198.50	1.04	199.02	5.05	199.54	13.25		
198.51	1.05	199.03	5.18	199.55	13.43		
198.52	1.05	199.04	5.31	199.56	13.61		
198.53	1.06	199.05	5.44	199.57	13.80		
198.54	1.06	199.06	5.58	199.58	13.98		
198.55	1.07	199.07	5.71	199.59	14.16		
198.56	1.08	199.08	5.85	199.60	14.35		
198.57	1.08	199.09	5.99	199.61	14.53		
198.58	1.09	199.10	6.13	199.62	14.72		
198.59	1.11	199.11	6.27	199.63	14.91		

Stage-Area-Storage for Pond B-15: Basin #15

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
196.00	3,706	0	196.52	3,982	1,999
196.01	3,711	37	196.53	3,987	2,039
196.02	3,717	74	196.54	3,992	2,079
196.03	3,722	111	196.55	3,998	2,118
196.04	3,727	149	196.56	4,003	2,158
196.05	3,733	186	196.57	4,008	2,199
196.06	3,738	223	196.58	4,013	2,239
196.07	3,743	261	196.59	4,019	2,279
196.08	3,748	298	196.60	4,024	2,319
196.09	3,754	336	196.61	4,029	2,359
196.10	3,759	373	196.62	4,035	2,400
196.11	3,764	411	196.63	4,040	2,440
196.12	3,770	449	196.64	4,045	2,480
196.13	3,775	486	196.65	4,051	2,521
196.14	3,780	524	196.66	4,056	2,561
196.15	3,786	562	196.67	4,061	2,602
196.16	3,791	600	196.68	4,066	2,643
196.17	3,796	638	196.69	4,072	2,683
196.18	3,801	676	196.70	4,077	2,724
196.19	3,807	714	196.71	4,082	2,765
196.20	3,812	752	196.72	4,088	2,806
196.21	3,817	790	196.73	4,093	2,847
196.22	3,823	828	196.74	4,098	2,888
196.23	3,828	866	196.75	4,104	2,929
196.24	3,833	905	196.76	4,109	2,970
196.25	3,839	943	196.77	4,114	3,011
196.26	3,844	981	196.78	4,119	3,052
196.27	3,849	1,020	196.79	4,125	3,093
196.28	3,854	1,058	196.80	4,130	3,134
196.29	3,860	1,097	196.81	4,135	3,176
196.30	3,865	1,136	196.82	4,141	3,217
196.31	3,870	1,174	196.83	4,146	3,259
196.32	3,876	1,213	196.84	4,151	3,300
196.33	3,881	1,252	196.85	4,156	3,342
196.34	3,886	1,291	196.86	4,162	3,383
196.35	3,891	1,330	196.87	4,167	3,425
196.36	3,897	1,369	196.88	4,172	3,466
196.37	3,902	1,407	196.89	4,178	3,508
196.38	3,907	1,447	196.90	4,183	3,550
196.39	3,913	1,486	196.91	4,188	3,592
196.40	3,918	1,525	196.92	4,194	3,634
196.41	3,923	1,564	196.93	4,199	3,676
196.42	3,929	1,603	196.94	4,204	3,718
196.43	3,934	1,643	196.95	4,209	3,760
196.44	3,939	1,682	196.96	4,215	3,802
196.45	3,944	1,721	196.97	4,220	3,844
196.46	3,950	1,761	196.98	4,225	3,886
196.47	3,955	1,800	196.99	4,231	3,929
196.48	3,960	1,840	197.00	4,236	3,971
196.49	3,966	1,880	197.01	4,242	4,013
196.50	3,971	1,919	197.02	4,247	4,056
196.51	3,976	1,959	197.03	4,253	4,098

Stage-Area-Storage for Pond B-15: Basin #15 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
197.04	4,258	4,141	197.56	4,549	6,431
197.05	4,264	4,183	197.57	4,555	6,476
197.06	4,270	4,226	197.58	4,560	6,522
197.07	4,275	4,269	197.59	4,566	6,568
197.08	4,281	4,312	197.60	4,571	6,613
197.09	4,286	4,355	197.61	4,577	6,659
197.10	4,292	4,397	197.62	4,583	6,705
197.11	4,297	4,440	197.63	4,588	6,751
197.12	4,303	4,483	197.64	4,594	6,797
197.13	4,309	4,526	197.65	4,599	6,842
197.14	4,314	4,570	197.66	4,605	6,889
197.15	4,320	4,613	197.67	4,611	6,935
197.16	4,325	4,656	197.68	4,616	6,981
197.17	4,331	4,699	197.69	4,622	7,027
197.18	4,337	4,743	197.70	4,627	7,073
197.19	4,342	4,786	197.71	4,633	7,119
197.20	4,348	4,829	197.72	4,638	7,166
197.21	4,353	4,873	197.73	4,644	7,212
197.22	4,359	4,916	197.74	4,650	7,259
197.23	4,365	4,960	197.75	4,655	7,305
197.24	4,370	5,004	197.76	4,661	7,352
197.25	4,376	5,047	197.77	4,666	7,398
197.26	4,381	5,091	197.78	4,672	7,445
197.27	4,387	5,135	197.79	4,678	7,492
197.28	4,393	5,179	197.80	4,683	7,539
197.29	4,398	5,223	197.81	4,689	7,586
197.30	4,404	5,267	197.82	4,694	7,632
197.31	4,409	5,311	197.83	4,700	7,679
197.32	4,415	5,355	197.84	4,706	7,726
197.33	4,420	5,399	197.85	4,711	7,774
197.34	4,426	5,444	197.86	4,717	7,821
197.35	4,432	5,488	197.87	4,722	7,868
197.36	4,437	5,532	197.88	4,728	7,915
197.37	4,443	5,577	197.89	4,734	7,962
197.38	4,448	5,621	197.90	4,739	8,010
197.39	4,454	5,666	197.91	4,745	8,057
197.40	4,460	5,710	197.92	4,750	8,105
197.41	4,465	5,755	197.93	4,756	8,152
197.42	4,471	5,799	197.94	4,761	8,200
197.43	4,476	5,844	197.95	4,767	8,247
197.44	4,482	5,889	197.96	4,773	8,295
197.45	4,488	5,934	197.97	4,778	8,343
197.46	4,493	5,979	197.98	4,784	8,391
197.47	4,499	6,024	197.99	4,789	8,439
197.48	4,504	6,069	198.00	4,795	8,487
197.49	4,510	6,114	198.01	4,801	8,534
197.50	4,516	6,159	198.02	4,807	8,583
197.51	4,521	6,204	198.03	4,813	8,631
197.52	4,527	6,249	198.04	4,819	8,679
197.53	4,532	6,295	198.05	4,824	8,727
197.54	4,538	6,340	198.06	4,830	8,775
197.55	4,543	6,385	198.07	4,836	8,824

Stage-Area-Storage for Pond B-15: Basin #15 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
198.08	4,842	8,872	198.60	5,148	11,470
198.09	4,848	8,920	198.61	5,154	11,521
198.10	4,854	8,969	198.62	5,160	11,573
198.11	4,860	9,018	198.63	5,166	11,624
198.12	4,866	9,066	198.64	5,172	11,676
198.13	4,872	9,115	198.65	5,178	11,728
198.14	4,877	9,164	198.66	5,184	11,779
198.15	4,883	9,212	198.67	5,190	11,831
198.16	4,889	9,261	198.68	5,196	11,883
198.17	4,895	9,310	198.69	5,201	11,935
198.18	4,901	9,359	198.70	5,207	11,987
198.19	4,907	9,408	198.71	5,213	12,039
198.20	4,913	9,457	198.72	5,219	12,092
198.21	4,919	9,506	198.73	5,225	12,144
198.22	4,925	9,556	198.74	5,231	12,196
198.23	4,930	9,605	198.75	5,237	12,248
198.24	4,936	9,654	198.76	5,243	12,301
198.25	4,942	9,704	198.77	5,249	12,353
198.26	4,948	9,753	198.78	5,254	12,406
198.27	4,954	9,803	198.79	5,260	12,458
198.28	4,960	9,852	198.80	5,266	12,511
198.29	4,966	9,902	198.81	5,272	12,564
198.30	4,972	9,952	198.82	5,278	12,616
198.31	4,978	10,001	198.83	5,284	12,669
198.32	4,983	10,051	198.84	5,290	12,722
198.33	4,989	10,101	198.85	5,296	12,775
198.34	4,995	10,151	198.86	5,302	12,828
198.35	5,001	10,201	198.87	5,307	12,881
198.36	5,007	10,251	198.88	5,313	12,934
198.37	5,013	10,301	198.89	5,319	12,987
198.38	5,019	10,351	198.90	5,325	13,041
198.39	5,025	10,401	198.91	5,331	13,094
198.40	5,031	10,452	198.92	5,337	13,147
198.41	5,036	10,502	198.93	5,343	13,201
198.42	5,042	10,552	198.94	5,349	13,254
198.43	5,048	10,603	198.95	5,355	13,308
198.44	5,054	10,653	198.96	5,360	13,361
198.45	5,060	10,704	198.97	5,366	13,415
198.46	5,066	10,755	198.98	5,372	13,468
198.47	5,072	10,805	198.99	5,378	13,522
198.48	5,078	10,856	199.00	5,384	13,576
198.49	5,084	10,907	199.01	5,390	13,630
198.50	5,090	10,958	199.02	5,396	13,684
198.51	5,095	11,009	199.03	5,403	13,738
198.52	5,101	11,060	199.04	5,409	13,792
198.53	5,107	11,111	199.05	5,415	13,846
198.54	5,113	11,162	199.06	5,421	13,900
198.55	5,119	11,213	199.07	5,427	13,954
198.56	5,125	11,264	199.08	5,433	14,009
198.57	5,131	11,315	199.09	5,440	14,063
198.58	5,137	11,367	199.10	5,446	14,117
198.59	5,143	11,418	199.11	5,452	14,172

Stage-Area-Storage for Pond B-15: Basin #15 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
199.12	5,458	14,227	199.64	5,780	17,148
199.13	5,464	14,281	199.65	5,786	17,206
199.14	5,471	14,336	199.66	5,792	17,264
199.15	5,477	14,391	199.67	5,798	17,322
199.16	5,483	14,445	199.68	5,804	17,380
199.17	5,489	14,500	199.69	5,810	17,438
199.18	5,495	14,555	199.70	5,817	17,496
199.19	5,501	14,610	199.71	5,823	17,554
199.20	5,508	14,665	199.72	5,829	17,613
199.21	5,514	14,720	199.73	5,835	17,671
199.22	5,520	14,775	199.74	5,841	17,729
199.23	5,526	14,831	199.75	5,848	17,788
199.24	5,532	14,886	199.76	5,854	17,846
199.25	5,539	14,941	199.77	5,860	17,905
199.26	5,545	14,997	199.78	5,866	17,964
199.27	5,551	15,052	199.79	5,872	18,022
199.28	5,557	15,108	199.80	5,878	18,081
199.29	5,563	15,163	199.81	5,885	18,140
199.30	5,569	15,219	199.82	5,891	18,199
199.31	5,576	15,275	199.83	5,897	18,258
199.32	5,582	15,331	199.84	5,903	18,317
199.33	5,588	15,386	199.85	5,909	18,376
199.34	5,594	15,442	199.86	5,915	18,435
199.35	5,600	15,498	199.87	5,922	18,494
199.36	5,606	15,554	199.88	5,928	18,553
199.37	5,613	15,610	199.89	5,934	18,613
199.38	5,619	15,667	199.90	5,940	18,672
199.39	5,625	15,723	199.91	5,946	18,731
199.40	5,631	15,779	199.92	5,953	18,791
199.41	5,637	15,835	199.93	5,959	18,850
199.42	5,644	15,892	199.94	5,965	18,910
199.43	5,650	15,948	199.95	5,971	18,970
199.44	5,656	16,005	199.96	5,977	19,029
199.45	5,662	16,061	199.97	5,983	19,089
199.46	5,668	16,118	199.98	5,990	19,149
199.47	5,674	16,175	199.99	5,996	19,209
199.48	5,681	16,232	200.00	6,002	19,269
199.49	5,687	16,288			
199.50	5,693	16,345			
199.51	5,699	16,402			
199.52	5,705	16,459			
199.53	5,712	16,516			
199.54	5,718	16,573			
199.55	5,724	16,631			
199.56	5,730	16,688			
199.57	5,736	16,745			
199.58	5,742	16,803			
199.59	5,749	16,860			
199.60	5,755	16,918			
199.61	5,761	16,975			
199.62	5,767	17,033			
199.63	5,773	17,091			

Summary for Pond B-16A: Basin #16A

Inflow Area = 1.876 ac, 45.47% Impervious, Inflow Depth = 9.30" for Future 100 yr event
 Inflow = 17.49 cfs @ 12.17 hrs, Volume= 1.454 af
 Outflow = 15.20 cfs @ 12.23 hrs, Volume= 1.375 af, Atten= 13%, Lag= 3.5 min
 Primary = 15.20 cfs @ 12.23 hrs, Volume= 1.375 af
 Routed to Link PDA-1 : Proposed Drainage Area #1

Routing by Stor-Ind method, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 Peak Elev= 180.84' @ 12.23 hrs Surf.Area= 4,733 sf Storage= 10,297 cf

Plug-Flow detention time= 74.2 min calculated for 1.373 af (94% of inflow)
 Center-of-Mass det. time= 42.8 min (815.8 - 773.0)

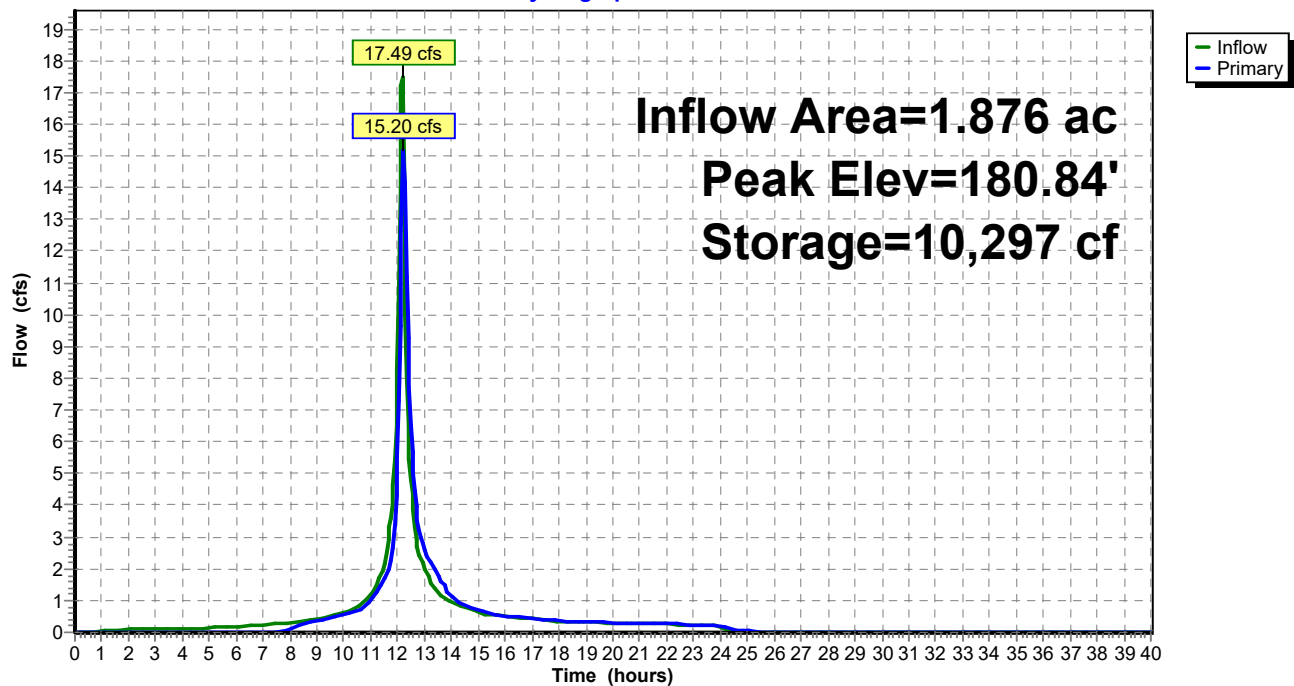
Volume	Invert	Avail.Storage	Storage Description
#1	178.00'	16,318 cf	Custom Stage Data (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
178.00	2,543	0	0
179.00	3,287	2,915	2,915
180.00	4,059	3,673	6,588
181.00	4,858	4,459	11,047
182.00	5,685	5,272	16,318

Device	Routing	Invert	Outlet Devices
#1	Primary	176.65'	18.0" Round Culvert L= 53.0' Ke= 0.500 Inlet / Outlet Invert= 176.65' / 172.00' S= 0.0877 ' S= 0.0877 ' Cc= 0.900 n= 0.013, Flow Area= 1.77 sf
#2	Device 1	179.16'	24.0" W x 4.0" H Vert. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#3	Device 1	179.91'	4.0' long Sharp-Crested Rectangular Weir 2 End Contraction(s)
#4	Primary	181.95'	50.0' long + 3.0 ' SideZ x 5.0' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 Coef. (English) 2.34 2.50 2.70 2.68 2.68 2.66 2.65 2.65 2.65 2.65 2.67 2.66 2.68 2.70 2.74 2.79 2.88

Primary OutFlow Max=14.98 cfs @ 12.23 hrs HW=180.83' (Free Discharge)

1=Culvert (Passes 14.98 cfs of 15.76 cfs potential flow)
 2=Orifice/Grate (Orifice Controls 3.94 cfs @ 5.90 fps)
 3=Sharp-Crested Rectangular Weir (Weir Controls 11.04 cfs @ 3.14 fps)
 4=Broad-Crested Rectangular Weir (Controls 0.00 cfs)

Pond B-16A: Basin #16A**Hydrograph**

Stage-Discharge for Pond B-16A: Basin #16A

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
178.00	0.00	178.52	0.00	179.04	0.00	179.56	1.51
178.01	0.00	178.53	0.00	179.05	0.00	179.57	1.55
178.02	0.00	178.54	0.00	179.06	0.00	179.58	1.58
178.03	0.00	178.55	0.00	179.07	0.00	179.59	1.62
178.04	0.00	178.56	0.00	179.08	0.00	179.60	1.65
178.05	0.00	178.57	0.00	179.09	0.00	179.61	1.68
178.06	0.00	178.58	0.00	179.10	0.00	179.62	1.71
178.07	0.00	178.59	0.00	179.11	0.00	179.63	1.74
178.08	0.00	178.60	0.00	179.12	0.00	179.64	1.77
178.09	0.00	178.61	0.00	179.13	0.00	179.65	1.80
178.10	0.00	178.62	0.00	179.14	0.00	179.66	1.83
178.11	0.00	178.63	0.00	179.15	0.00	179.67	1.86
178.12	0.00	178.64	0.00	179.16	0.00	179.68	1.89
178.13	0.00	178.65	0.00	179.17	0.01	179.69	1.92
178.14	0.00	178.66	0.00	179.18	0.02	179.70	1.94
178.15	0.00	178.67	0.00	179.19	0.03	179.71	1.97
178.16	0.00	178.68	0.00	179.20	0.05	179.72	2.00
178.17	0.00	178.69	0.00	179.21	0.07	179.73	2.02
178.18	0.00	178.70	0.00	179.22	0.09	179.74	2.05
178.19	0.00	178.71	0.00	179.23	0.12	179.75	2.07
178.20	0.00	178.72	0.00	179.24	0.15	179.76	2.10
178.21	0.00	178.73	0.00	179.25	0.17	179.77	2.12
178.22	0.00	178.74	0.00	179.26	0.20	179.78	2.15
178.23	0.00	178.75	0.00	179.27	0.23	179.79	2.17
178.24	0.00	178.76	0.00	179.28	0.27	179.80	2.20
178.25	0.00	178.77	0.00	179.29	0.30	179.81	2.22
178.26	0.00	178.78	0.00	179.30	0.34	179.82	2.24
178.27	0.00	178.79	0.00	179.31	0.37	179.83	2.27
178.28	0.00	178.80	0.00	179.32	0.41	179.84	2.29
178.29	0.00	178.81	0.00	179.33	0.45	179.85	2.31
178.30	0.00	178.82	0.00	179.34	0.49	179.86	2.33
178.31	0.00	178.83	0.00	179.35	0.53	179.87	2.36
178.32	0.00	178.84	0.00	179.36	0.57	179.88	2.38
178.33	0.00	178.85	0.00	179.37	0.62	179.89	2.40
178.34	0.00	178.86	0.00	179.38	0.66	179.90	2.42
178.35	0.00	178.87	0.00	179.39	0.71	179.91	2.44
178.36	0.00	178.88	0.00	179.40	0.75	179.92	2.48
178.37	0.00	178.89	0.00	179.41	0.80	179.93	2.52
178.38	0.00	178.90	0.00	179.42	0.85	179.94	2.57
178.39	0.00	178.91	0.00	179.43	0.90	179.95	2.63
178.40	0.00	178.92	0.00	179.44	0.95	179.96	2.69
178.41	0.00	178.93	0.00	179.45	1.00	179.97	2.76
178.42	0.00	178.94	0.00	179.46	1.05	179.98	2.83
178.43	0.00	178.95	0.00	179.47	1.11	179.99	2.90
178.44	0.00	178.96	0.00	179.48	1.16	180.00	2.98
178.45	0.00	178.97	0.00	179.49	1.22	180.01	3.06
178.46	0.00	178.98	0.00	179.50	1.27	180.02	3.14
178.47	0.00	178.99	0.00	179.51	1.32	180.03	3.23
178.48	0.00	179.00	0.00	179.52	1.36	180.04	3.31
178.49	0.00	179.01	0.00	179.53	1.40	180.05	3.40
178.50	0.00	179.02	0.00	179.54	1.44	180.06	3.50
178.51	0.00	179.03	0.00	179.55	1.48	180.07	3.59

Stage-Discharge for Pond B-16A: Basin #16A (continued)

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
180.08	3.69	180.60	10.86	181.12	16.41	181.64	17.52
180.09	3.79	180.61	11.03	181.13	16.43	181.65	17.54
180.10	3.89	180.62	11.20	181.14	16.46	181.66	17.56
180.11	3.99	180.63	11.37	181.15	16.48	181.67	17.58
180.12	4.10	180.64	11.54	181.16	16.50	181.68	17.60
180.13	4.21	180.65	11.71	181.17	16.52	181.69	17.62
180.14	4.32	180.66	11.88	181.18	16.54	181.70	17.64
180.15	4.43	180.67	12.05	181.19	16.56	181.71	17.66
180.16	4.54	180.68	12.23	181.20	16.59	181.72	17.69
180.17	4.65	180.69	12.40	181.21	16.61	181.73	17.71
180.18	4.77	180.70	12.58	181.22	16.63	181.74	17.73
180.19	4.89	180.71	12.76	181.23	16.65	181.75	17.75
180.20	5.01	180.72	12.94	181.24	16.67	181.76	17.77
180.21	5.13	180.73	13.11	181.25	16.70	181.77	17.79
180.22	5.25	180.74	13.29	181.26	16.72	181.78	17.81
180.23	5.38	180.75	13.47	181.27	16.74	181.79	17.83
180.24	5.50	180.76	13.66	181.28	16.76	181.80	17.85
180.25	5.63	180.77	13.84	181.29	16.78	181.81	17.87
180.26	5.76	180.78	14.02	181.30	16.80	181.82	17.89
180.27	5.89	180.79	14.20	181.31	16.82	181.83	17.91
180.28	6.02	180.80	14.39	181.32	16.85	181.84	17.93
180.29	6.15	180.81	14.57	181.33	16.87	181.85	17.95
180.30	6.29	180.82	14.76	181.34	16.89	181.86	17.97
180.31	6.42	180.83	14.95	181.35	16.91	181.87	17.99
180.32	6.56	180.84	15.13	181.36	16.93	181.88	18.01
180.33	6.70	180.85	15.32	181.37	16.95	181.89	18.03
180.34	6.84	180.86	15.51	181.38	16.97	181.90	18.05
180.35	6.98	180.87	15.70	181.39	17.00	181.91	18.07
180.36	7.12	180.88	15.87	181.40	17.02	181.92	18.09
180.37	7.26	180.89	15.90	181.41	17.04	181.93	18.11
180.38	7.41	180.90	15.92	181.42	17.06	181.94	18.13
180.39	7.55	180.91	15.94	181.43	17.08	181.95	18.15
180.40	7.70	180.92	15.96	181.44	17.10	181.96	18.29
180.41	7.85	180.93	15.99	181.45	17.12	181.97	18.52
180.42	8.00	180.94	16.01	181.46	17.14	181.98	18.82
180.43	8.15	180.95	16.03	181.47	17.17	181.99	19.17
180.44	8.30	180.96	16.05	181.48	17.19	182.00	19.56
180.45	8.45	180.97	16.08	181.49	17.21		
180.46	8.60	180.98	16.10	181.50	17.23		
180.47	8.76	180.99	16.12	181.51	17.25		
180.48	8.91	181.00	16.14	181.52	17.27		
180.49	9.07	181.01	16.17	181.53	17.29		
180.50	9.23	181.02	16.19	181.54	17.31		
180.51	9.39	181.03	16.21	181.55	17.33		
180.52	9.55	181.04	16.23	181.56	17.35		
180.53	9.71	181.05	16.26	181.57	17.38		
180.54	9.87	181.06	16.28	181.58	17.40		
180.55	10.03	181.07	16.30	181.59	17.42		
180.56	10.19	181.08	16.32	181.60	17.44		
180.57	10.36	181.09	16.34	181.61	17.46		
180.58	10.52	181.10	16.37	181.62	17.48		
180.59	10.69	181.11	16.39	181.63	17.50		

Stage-Area-Storage for Pond B-16A: Basin #16A

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
178.00	2,543	0	178.52	2,930	1,423
178.01	2,550	25	178.53	2,937	1,452
178.02	2,558	51	178.54	2,945	1,482
178.03	2,565	77	178.55	2,952	1,511
178.04	2,573	102	178.56	2,960	1,541
178.05	2,580	128	178.57	2,967	1,570
178.06	2,588	154	178.58	2,975	1,600
178.07	2,595	180	178.59	2,982	1,630
178.08	2,603	206	178.60	2,989	1,660
178.09	2,610	232	178.61	2,997	1,690
178.10	2,617	258	178.62	3,004	1,720
178.11	2,625	284	178.63	3,012	1,750
178.12	2,632	311	178.64	3,019	1,780
178.13	2,640	337	178.65	3,027	1,810
178.14	2,647	363	178.66	3,034	1,840
178.15	2,655	390	178.67	3,041	1,871
178.16	2,662	416	178.68	3,049	1,901
178.17	2,669	443	178.69	3,056	1,932
178.18	2,677	470	178.70	3,064	1,962
178.19	2,684	497	178.71	3,071	1,993
178.20	2,692	523	178.72	3,079	2,024
178.21	2,699	550	178.73	3,086	2,055
178.22	2,707	577	178.74	3,094	2,086
178.23	2,714	605	178.75	3,101	2,117
178.24	2,722	632	178.76	3,108	2,148
178.25	2,729	659	178.77	3,116	2,179
178.26	2,736	686	178.78	3,123	2,210
178.27	2,744	714	178.79	3,131	2,241
178.28	2,751	741	178.80	3,138	2,272
178.29	2,759	769	178.81	3,146	2,304
178.30	2,766	796	178.82	3,153	2,335
178.31	2,774	824	178.83	3,161	2,367
178.32	2,781	852	178.84	3,168	2,399
178.33	2,789	880	178.85	3,175	2,430
178.34	2,796	908	178.86	3,183	2,462
178.35	2,803	936	178.87	3,190	2,494
178.36	2,811	964	178.88	3,198	2,526
178.37	2,818	992	178.89	3,205	2,558
178.38	2,826	1,020	178.90	3,213	2,590
178.39	2,833	1,048	178.91	3,220	2,622
178.40	2,841	1,077	178.92	3,227	2,654
178.41	2,848	1,105	178.93	3,235	2,687
178.42	2,855	1,134	178.94	3,242	2,719
178.43	2,863	1,162	178.95	3,250	2,752
178.44	2,870	1,191	178.96	3,257	2,784
178.45	2,878	1,220	178.97	3,265	2,817
178.46	2,885	1,248	178.98	3,272	2,849
178.47	2,893	1,277	178.99	3,280	2,882
178.48	2,900	1,306	179.00	3,287	2,915
178.49	2,908	1,335	179.01	3,295	2,948
178.50	2,915	1,365	179.02	3,302	2,981
178.51	2,922	1,394	179.03	3,310	3,014

Stage-Area-Storage for Pond B-16A: Basin #16A (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
179.04	3,318	3,047	179.56	3,719	4,877
179.05	3,326	3,080	179.57	3,727	4,914
179.06	3,333	3,114	179.58	3,735	4,951
179.07	3,341	3,147	179.59	3,742	4,989
179.08	3,349	3,180	179.60	3,750	5,026
179.09	3,356	3,214	179.61	3,758	5,064
179.10	3,364	3,248	179.62	3,766	5,101
179.11	3,372	3,281	179.63	3,773	5,139
179.12	3,380	3,315	179.64	3,781	5,177
179.13	3,387	3,349	179.65	3,789	5,215
179.14	3,395	3,383	179.66	3,797	5,253
179.15	3,403	3,417	179.67	3,804	5,291
179.16	3,411	3,451	179.68	3,812	5,329
179.17	3,418	3,485	179.69	3,820	5,367
179.18	3,426	3,519	179.70	3,827	5,405
179.19	3,434	3,553	179.71	3,835	5,443
179.20	3,441	3,588	179.72	3,843	5,482
179.21	3,449	3,622	179.73	3,851	5,520
179.22	3,457	3,657	179.74	3,858	5,559
179.23	3,465	3,691	179.75	3,866	5,597
179.24	3,472	3,726	179.76	3,874	5,636
179.25	3,480	3,761	179.77	3,881	5,675
179.26	3,488	3,796	179.78	3,889	5,714
179.27	3,495	3,831	179.79	3,897	5,753
179.28	3,503	3,866	179.80	3,905	5,792
179.29	3,511	3,901	179.81	3,912	5,831
179.30	3,519	3,936	179.82	3,920	5,870
179.31	3,526	3,971	179.83	3,928	5,909
179.32	3,534	4,006	179.84	3,935	5,948
179.33	3,542	4,042	179.85	3,943	5,988
179.34	3,549	4,077	179.86	3,951	6,027
179.35	3,557	4,113	179.87	3,959	6,067
179.36	3,565	4,148	179.88	3,966	6,106
179.37	3,573	4,184	179.89	3,974	6,146
179.38	3,580	4,220	179.90	3,982	6,186
179.39	3,588	4,256	179.91	3,990	6,226
179.40	3,596	4,292	179.92	3,997	6,266
179.41	3,604	4,328	179.93	4,005	6,306
179.42	3,611	4,364	179.94	4,013	6,346
179.43	3,619	4,400	179.95	4,020	6,386
179.44	3,627	4,436	179.96	4,028	6,426
179.45	3,634	4,472	179.97	4,036	6,467
179.46	3,642	4,509	179.98	4,044	6,507
179.47	3,650	4,545	179.99	4,051	6,547
179.48	3,658	4,582	180.00	4,059	6,588
179.49	3,665	4,618	180.01	4,067	6,629
179.50	3,673	4,655	180.02	4,075	6,669
179.51	3,681	4,692	180.03	4,083	6,710
179.52	3,688	4,729	180.04	4,091	6,751
179.53	3,696	4,766	180.05	4,099	6,792
179.54	3,704	4,803	180.06	4,107	6,833
179.55	3,712	4,840	180.07	4,115	6,874

Stage-Area-Storage for Pond B-16A: Basin #16A (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
180.08	4,123	6,915	180.60	4,538	9,167
180.09	4,131	6,957	180.61	4,546	9,213
180.10	4,139	6,998	180.62	4,554	9,258
180.11	4,147	7,039	180.63	4,562	9,304
180.12	4,155	7,081	180.64	4,570	9,349
180.13	4,163	7,122	180.65	4,578	9,395
180.14	4,171	7,164	180.66	4,586	9,441
180.15	4,179	7,206	180.67	4,594	9,487
180.16	4,187	7,248	180.68	4,602	9,533
180.17	4,195	7,290	180.69	4,610	9,579
180.18	4,203	7,332	180.70	4,618	9,625
180.19	4,211	7,374	180.71	4,626	9,671
180.20	4,219	7,416	180.72	4,634	9,718
180.21	4,227	7,458	180.73	4,642	9,764
180.22	4,235	7,500	180.74	4,650	9,810
180.23	4,243	7,543	180.75	4,658	9,857
180.24	4,251	7,585	180.76	4,666	9,904
180.25	4,259	7,628	180.77	4,674	9,950
180.26	4,267	7,670	180.78	4,682	9,997
180.27	4,275	7,713	180.79	4,690	10,044
180.28	4,283	7,756	180.80	4,698	10,091
180.29	4,291	7,799	180.81	4,706	10,138
180.30	4,299	7,842	180.82	4,714	10,185
180.31	4,307	7,885	180.83	4,722	10,232
180.32	4,315	7,928	180.84	4,730	10,279
180.33	4,323	7,971	180.85	4,738	10,327
180.34	4,331	8,014	180.86	4,746	10,374
180.35	4,339	8,058	180.87	4,754	10,422
180.36	4,347	8,101	180.88	4,762	10,469
180.37	4,355	8,145	180.89	4,770	10,517
180.38	4,363	8,188	180.90	4,778	10,565
180.39	4,371	8,232	180.91	4,786	10,613
180.40	4,379	8,276	180.92	4,794	10,660
180.41	4,387	8,319	180.93	4,802	10,708
180.42	4,395	8,363	180.94	4,810	10,756
180.43	4,403	8,407	180.95	4,818	10,805
180.44	4,411	8,451	180.96	4,826	10,853
180.45	4,419	8,495	180.97	4,834	10,901
180.46	4,427	8,540	180.98	4,842	10,949
180.47	4,435	8,584	180.99	4,850	10,998
180.48	4,443	8,628	181.00	4,858	11,047
180.49	4,451	8,673	181.01	4,866	11,095
180.50	4,459	8,717	181.02	4,875	11,144
180.51	4,466	8,762	181.03	4,883	11,193
180.52	4,474	8,807	181.04	4,891	11,241
180.53	4,482	8,851	181.05	4,899	11,290
180.54	4,490	8,896	181.06	4,908	11,339
180.55	4,498	8,941	181.07	4,916	11,389
180.56	4,506	8,986	181.08	4,924	11,438
180.57	4,514	9,031	181.09	4,932	11,487
180.58	4,522	9,077	181.10	4,941	11,536
180.59	4,530	9,122	181.11	4,949	11,586

Stage-Area-Storage for Pond B-16A: Basin #16A (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
181.12	4,957	11,635	181.64	5,387	14,325
181.13	4,966	11,685	181.65	5,396	14,379
181.14	4,974	11,735	181.66	5,404	14,433
181.15	4,982	11,785	181.67	5,412	14,487
181.16	4,990	11,834	181.68	5,420	14,541
181.17	4,999	11,884	181.69	5,429	14,595
181.18	5,007	11,934	181.70	5,437	14,650
181.19	5,015	11,984	181.71	5,445	14,704
181.20	5,023	12,035	181.72	5,453	14,759
181.21	5,032	12,085	181.73	5,462	14,813
181.22	5,040	12,135	181.74	5,470	14,868
181.23	5,048	12,186	181.75	5,478	14,923
181.24	5,056	12,236	181.76	5,487	14,977
181.25	5,065	12,287	181.77	5,495	15,032
181.26	5,073	12,338	181.78	5,503	15,087
181.27	5,081	12,388	181.79	5,511	15,142
181.28	5,090	12,439	181.80	5,520	15,198
181.29	5,098	12,490	181.81	5,528	15,253
181.30	5,106	12,541	181.82	5,536	15,308
181.31	5,114	12,592	181.83	5,544	15,364
181.32	5,123	12,643	181.84	5,553	15,419
181.33	5,131	12,695	181.85	5,561	15,475
181.34	5,139	12,746	181.86	5,569	15,530
181.35	5,147	12,797	181.87	5,577	15,586
181.36	5,156	12,849	181.88	5,586	15,642
181.37	5,164	12,901	181.89	5,594	15,698
181.38	5,172	12,952	181.90	5,602	15,754
181.39	5,181	13,004	181.91	5,611	15,810
181.40	5,189	13,056	181.92	5,619	15,866
181.41	5,197	13,108	181.93	5,627	15,922
181.42	5,205	13,160	181.94	5,635	15,978
181.43	5,214	13,212	181.95	5,644	16,035
181.44	5,222	13,264	181.96	5,652	16,091
181.45	5,230	13,316	181.97	5,660	16,148
181.46	5,238	13,369	181.98	5,668	16,204
181.47	5,247	13,421	181.99	5,677	16,261
181.48	5,255	13,474	182.00	5,685	16,318
181.49	5,263	13,526			
181.50	5,272	13,579			
181.51	5,280	13,632			
181.52	5,288	13,684			
181.53	5,296	13,737			
181.54	5,305	13,790			
181.55	5,313	13,843			
181.56	5,321	13,897			
181.57	5,329	13,950			
181.58	5,338	14,003			
181.59	5,346	14,057			
181.60	5,354	14,110			
181.61	5,362	14,164			
181.62	5,371	14,217			
181.63	5,379	14,271			

Summary for Pond B-16B: Basin #16B

Inflow Area = 1.877 ac, 43.74% Impervious, Inflow Depth = 9.25" for Future 100 yr event
 Inflow = 17.44 cfs @ 12.17 hrs, Volume= 1.446 af
 Outflow = 17.22 cfs @ 12.19 hrs, Volume= 1.367 af, Atten= 1%, Lag= 1.4 min
 Primary = 17.22 cfs @ 12.19 hrs, Volume= 1.367 af
 Routed to Link PDA-1 : Proposed Drainage Area #1

Routing by Stor-Ind method, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 Peak Elev= 180.81' @ 12.19 hrs Surf.Area= 5,014 sf Storage= 11,399 cf

Plug-Flow detention time= 83.4 min calculated for 1.367 af (95% of inflow)
 Center-of-Mass det. time= 51.0 min (825.2 - 774.2)

Volume	Invert	Avail.Storage	Storage Description
#1	178.00'	17,892 cf	Custom Stage Data (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
178.00	3,145	0	0
179.00	3,781	3,463	3,463
180.00	4,451	4,116	7,579
181.00	5,149	4,800	12,379
182.00	5,877	5,513	17,892

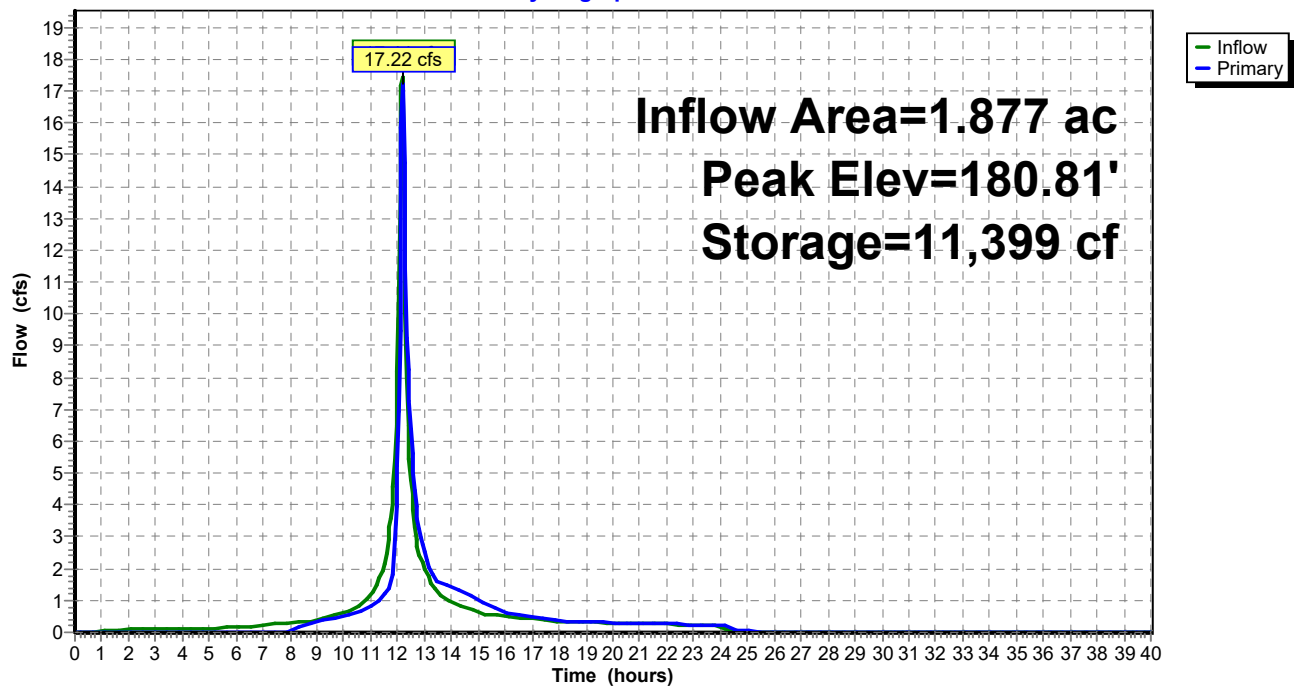
Device	Routing	Invert	Outlet Devices
#1	Primary	176.65'	18.0" Round Culvert L= 53.0' Ke= 0.500 Inlet / Outlet Invert= 176.65' / 172.00' S= 0.0877 ' S= 0.0877 ' Cc= 0.900 n= 0.013, Flow Area= 1.77 sf
#2	Device 1	179.00'	24.0" W x 2.0" H Vert. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#3	Device 1	180.00'	4.0' long Sharp-Crested Rectangular Weir 2 End Contraction(s)
#4	Primary	180.67'	50.0' long + 3.0 ' SideZ x 5.0' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 Coef. (English) 2.34 2.50 2.70 2.68 2.68 2.66 2.65 2.65 2.65 2.65 2.67 2.66 2.68 2.70 2.74 2.79 2.88

Primary OutFlow Max=16.95 cfs @ 12.19 hrs HW=180.80' (Free Discharge)

1=Culvert (Passes 11.16 cfs of 15.70 cfs potential flow)
 2=Orifice/Grate (Orifice Controls 2.11 cfs @ 6.32 fps)
 3=Sharp-Crested Rectangular Weir (Weir Controls 9.05 cfs @ 2.93 fps)
 4=Broad-Crested Rectangular Weir (Weir Controls 5.79 cfs @ 0.86 fps)

Pond B-16B: Basin #16B

Hydrograph



Stage-Discharge for Pond B-16B: Basin #16B

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
178.00	0.00	178.52	0.00	179.04	0.05	179.56	1.11
178.01	0.00	178.53	0.00	179.05	0.07	179.57	1.12
178.02	0.00	178.54	0.00	179.06	0.09	179.58	1.13
178.03	0.00	178.55	0.00	179.07	0.12	179.59	1.14
178.04	0.00	178.56	0.00	179.08	0.15	179.60	1.15
178.05	0.00	178.57	0.00	179.09	0.17	179.61	1.16
178.06	0.00	178.58	0.00	179.10	0.20	179.62	1.17
178.07	0.00	178.59	0.00	179.11	0.23	179.63	1.19
178.08	0.00	178.60	0.00	179.12	0.27	179.64	1.20
178.09	0.00	178.61	0.00	179.13	0.30	179.65	1.21
178.10	0.00	178.62	0.00	179.14	0.34	179.66	1.22
178.11	0.00	178.63	0.00	179.15	0.37	179.67	1.23
178.12	0.00	178.64	0.00	179.16	0.41	179.68	1.24
178.13	0.00	178.65	0.00	179.17	0.45	179.69	1.25
178.14	0.00	178.66	0.00	179.18	0.48	179.70	1.26
178.15	0.00	178.67	0.00	179.19	0.51	179.71	1.27
178.16	0.00	178.68	0.00	179.20	0.54	179.72	1.28
178.17	0.00	178.69	0.00	179.21	0.56	179.73	1.29
178.18	0.00	178.70	0.00	179.22	0.58	179.74	1.30
178.19	0.00	178.71	0.00	179.23	0.61	179.75	1.31
178.20	0.00	178.72	0.00	179.24	0.63	179.76	1.32
178.21	0.00	178.73	0.00	179.25	0.65	179.77	1.33
178.22	0.00	178.74	0.00	179.26	0.67	179.78	1.34
178.23	0.00	178.75	0.00	179.27	0.69	179.79	1.35
178.24	0.00	178.76	0.00	179.28	0.71	179.80	1.36
178.25	0.00	178.77	0.00	179.29	0.72	179.81	1.37
178.26	0.00	178.78	0.00	179.30	0.74	179.82	1.38
178.27	0.00	178.79	0.00	179.31	0.76	179.83	1.39
178.28	0.00	178.80	0.00	179.32	0.78	179.84	1.40
178.29	0.00	178.81	0.00	179.33	0.79	179.85	1.40
178.30	0.00	178.82	0.00	179.34	0.81	179.86	1.41
178.31	0.00	178.83	0.00	179.35	0.83	179.87	1.42
178.32	0.00	178.84	0.00	179.36	0.84	179.88	1.43
178.33	0.00	178.85	0.00	179.37	0.86	179.89	1.44
178.34	0.00	178.86	0.00	179.38	0.87	179.90	1.45
178.35	0.00	178.87	0.00	179.39	0.89	179.91	1.46
178.36	0.00	178.88	0.00	179.40	0.90	179.92	1.47
178.37	0.00	178.89	0.00	179.41	0.91	179.93	1.48
178.38	0.00	178.90	0.00	179.42	0.93	179.94	1.48
178.39	0.00	178.91	0.00	179.43	0.94	179.95	1.49
178.40	0.00	178.92	0.00	179.44	0.96	179.96	1.50
178.41	0.00	178.93	0.00	179.45	0.97	179.97	1.51
178.42	0.00	178.94	0.00	179.46	0.98	179.98	1.52
178.43	0.00	178.95	0.00	179.47	1.00	179.99	1.53
178.44	0.00	178.96	0.00	179.48	1.01	180.00	1.54
178.45	0.00	178.97	0.00	179.49	1.02	180.01	1.56
178.46	0.00	178.98	0.00	179.50	1.03	180.02	1.59
178.47	0.00	178.99	0.00	179.51	1.05	180.03	1.63
178.48	0.00	179.00	0.00	179.52	1.06	180.04	1.67
178.49	0.00	179.01	0.01	179.53	1.07	180.05	1.72
178.50	0.00	179.02	0.02	179.54	1.08	180.06	1.78
178.51	0.00	179.03	0.03	179.55	1.09	180.07	1.84

Stage-Discharge for Pond B-16B: Basin #16B (continued)

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
180.08	1.90	180.60	7.87	181.12	55.73	181.64	151.50
180.09	1.96	180.61	8.02	181.13	57.25	181.65	153.66
180.10	2.03	180.62	8.18	181.14	58.79	181.66	155.83
180.11	2.10	180.63	8.33	181.15	60.36	181.67	158.01
180.12	2.17	180.64	8.48	181.16	61.96	181.68	160.16
180.13	2.25	180.65	8.64	181.17	63.59	181.69	162.31
180.14	2.33	180.66	8.80	181.18	65.24	181.70	164.48
180.15	2.41	180.67	8.95	181.19	66.91	181.71	166.66
180.16	2.50	180.68	9.23	181.20	68.62	181.72	168.84
180.17	2.58	180.69	9.60	181.21	70.35	181.73	171.04
180.18	2.67	180.70	10.04	181.22	72.10	181.74	173.25
180.19	2.76	180.71	10.53	181.23	73.89	181.75	175.47
180.20	2.85	180.72	11.07	181.24	75.70	181.76	177.70
180.21	2.95	180.73	11.64	181.25	77.53	181.77	179.94
180.22	3.05	180.74	12.26	181.26	79.40	181.78	182.19
180.23	3.14	180.75	12.91	181.27	81.29	181.79	184.45
180.24	3.25	180.76	13.59	181.28	82.94	181.80	186.72
180.25	3.35	180.77	14.30	181.29	84.60	181.81	189.00
180.26	3.45	180.78	15.04	181.30	86.27	181.82	191.29
180.27	3.56	180.79	15.81	181.31	87.96	181.83	193.59
180.28	3.67	180.80	16.61	181.32	89.66	181.84	195.90
180.29	3.78	180.81	17.43	181.33	91.38	181.85	198.22
180.30	3.89	180.82	18.28	181.34	93.11	181.86	200.55
180.31	4.00	180.83	19.15	181.35	94.85	181.87	202.89
180.32	4.11	180.84	20.04	181.36	96.60	181.88	205.28
180.33	4.23	180.85	20.96	181.37	98.37	181.89	207.68
180.34	4.35	180.86	21.90	181.38	100.15	181.90	210.08
180.35	4.47	180.87	22.86	181.39	101.94	181.91	212.50
180.36	4.59	180.88	23.89	181.40	103.75	181.92	214.93
180.37	4.71	180.89	24.93	181.41	105.57	181.93	217.37
180.38	4.83	180.90	26.01	181.42	107.40	181.94	219.82
180.39	4.96	180.91	27.11	181.43	109.24	181.95	222.28
180.40	5.08	180.92	28.24	181.44	111.09	181.96	224.75
180.41	5.21	180.93	29.39	181.45	112.96	181.97	227.23
180.42	5.34	180.94	30.57	181.46	114.84	181.98	229.73
180.43	5.47	180.95	31.78	181.47	116.73	181.99	232.23
180.44	5.60	180.96	33.01	181.48	118.67	182.00	234.74
180.45	5.74	180.97	34.26	181.49	120.62		
180.46	5.87	180.98	35.54	181.50	122.59		
180.47	6.01	180.99	36.85	181.51	124.57		
180.48	6.14	181.00	38.18	181.52	126.57		
180.49	6.28	181.01	39.54	181.53	128.57		
180.50	6.42	181.02	40.92	181.54	130.59		
180.51	6.56	181.03	42.32	181.55	132.62		
180.52	6.70	181.04	43.75	181.56	134.67		
180.53	6.84	181.05	45.21	181.57	136.73		
180.54	6.99	181.06	46.69	181.58	138.80		
180.55	7.13	181.07	48.19	181.59	140.88		
180.56	7.28	181.08	49.75	181.60	142.98		
180.57	7.43	181.09	51.33	181.61	145.09		
180.58	7.57	181.10	52.77	181.62	147.21		
180.59	7.72	181.11	54.24	181.63	149.35		

Stage-Area-Storage for Pond B-16B: Basin #16B

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
178.00	3,145	0	178.52	3,476	1,721
178.01	3,151	31	178.53	3,482	1,756
178.02	3,158	63	178.54	3,488	1,791
178.03	3,164	95	178.55	3,495	1,826
178.04	3,170	126	178.56	3,501	1,861
178.05	3,177	158	178.57	3,508	1,896
178.06	3,183	190	178.58	3,514	1,931
178.07	3,190	222	178.59	3,520	1,966
178.08	3,196	254	178.60	3,527	2,001
178.09	3,202	286	178.61	3,533	2,037
178.10	3,209	318	178.62	3,539	2,072
178.11	3,215	350	178.63	3,546	2,108
178.12	3,221	382	178.64	3,552	2,143
178.13	3,228	414	178.65	3,558	2,179
178.14	3,234	447	178.66	3,565	2,214
178.15	3,240	479	178.67	3,571	2,250
178.16	3,247	511	178.68	3,577	2,286
178.17	3,253	544	178.69	3,584	2,321
178.18	3,259	576	178.70	3,590	2,357
178.19	3,266	609	178.71	3,597	2,393
178.20	3,272	642	178.72	3,603	2,429
178.21	3,279	674	178.73	3,609	2,465
178.22	3,285	707	178.74	3,616	2,501
178.23	3,291	740	178.75	3,622	2,538
178.24	3,298	773	178.76	3,628	2,574
178.25	3,304	806	178.77	3,635	2,610
178.26	3,310	839	178.78	3,641	2,647
178.27	3,317	872	178.79	3,647	2,683
178.28	3,323	906	178.80	3,654	2,720
178.29	3,329	939	178.81	3,660	2,756
178.30	3,336	972	178.82	3,667	2,793
178.31	3,342	1,006	178.83	3,673	2,829
178.32	3,349	1,039	178.84	3,679	2,866
178.33	3,355	1,072	178.85	3,686	2,903
178.34	3,361	1,106	178.86	3,692	2,940
178.35	3,368	1,140	178.87	3,698	2,977
178.36	3,374	1,173	178.88	3,705	3,014
178.37	3,380	1,207	178.89	3,711	3,051
178.38	3,387	1,241	178.90	3,717	3,088
178.39	3,393	1,275	178.91	3,724	3,125
178.40	3,399	1,309	178.92	3,730	3,163
178.41	3,406	1,343	178.93	3,736	3,200
178.42	3,412	1,377	178.94	3,743	3,237
178.43	3,418	1,411	178.95	3,749	3,275
178.44	3,425	1,445	178.96	3,756	3,312
178.45	3,431	1,480	178.97	3,762	3,350
178.46	3,438	1,514	178.98	3,768	3,388
178.47	3,444	1,548	178.99	3,775	3,425
178.48	3,450	1,583	179.00	3,781	3,463
178.49	3,457	1,617	179.01	3,788	3,501
178.50	3,463	1,652	179.02	3,794	3,539
178.51	3,469	1,687	179.03	3,801	3,577

Stage-Area-Storage for Pond B-16B: Basin #16B (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
179.04	3,808	3,615	179.56	4,156	5,685
179.05	3,815	3,653	179.57	4,163	5,727
179.06	3,821	3,691	179.58	4,170	5,769
179.07	3,828	3,729	179.59	4,176	5,810
179.08	3,835	3,768	179.60	4,183	5,852
179.09	3,841	3,806	179.61	4,190	5,894
179.10	3,848	3,844	179.62	4,196	5,936
179.11	3,855	3,883	179.63	4,203	5,978
179.12	3,861	3,922	179.64	4,210	6,020
179.13	3,868	3,960	179.65	4,217	6,062
179.14	3,875	3,999	179.66	4,223	6,104
179.15	3,882	4,038	179.67	4,230	6,147
179.16	3,888	4,077	179.68	4,237	6,189
179.17	3,895	4,115	179.69	4,243	6,231
179.18	3,902	4,154	179.70	4,250	6,274
179.19	3,908	4,193	179.71	4,257	6,316
179.20	3,915	4,233	179.72	4,263	6,359
179.21	3,922	4,272	179.73	4,270	6,402
179.22	3,928	4,311	179.74	4,277	6,444
179.23	3,935	4,350	179.75	4,284	6,487
179.24	3,942	4,390	179.76	4,290	6,530
179.25	3,949	4,429	179.77	4,297	6,573
179.26	3,955	4,469	179.78	4,304	6,616
179.27	3,962	4,508	179.79	4,310	6,659
179.28	3,969	4,548	179.80	4,317	6,702
179.29	3,975	4,588	179.81	4,324	6,745
179.30	3,982	4,627	179.82	4,330	6,789
179.31	3,989	4,667	179.83	4,337	6,832
179.32	3,995	4,707	179.84	4,344	6,875
179.33	4,002	4,747	179.85	4,350	6,919
179.34	4,009	4,787	179.86	4,357	6,962
179.35	4,015	4,827	179.87	4,364	7,006
179.36	4,022	4,868	179.88	4,371	7,050
179.37	4,029	4,908	179.89	4,377	7,093
179.38	4,036	4,948	179.90	4,384	7,137
179.39	4,042	4,989	179.91	4,391	7,181
179.40	4,049	5,029	179.92	4,397	7,225
179.41	4,056	5,070	179.93	4,404	7,269
179.42	4,062	5,110	179.94	4,411	7,313
179.43	4,069	5,151	179.95	4,417	7,357
179.44	4,076	5,191	179.96	4,424	7,401
179.45	4,082	5,232	179.97	4,431	7,446
179.46	4,089	5,273	179.98	4,438	7,490
179.47	4,096	5,314	179.99	4,444	7,535
179.48	4,103	5,355	180.00	4,451	7,579
179.49	4,109	5,396	180.01	4,458	7,624
179.50	4,116	5,437	180.02	4,465	7,668
179.51	4,123	5,478	180.03	4,472	7,713
179.52	4,129	5,520	180.04	4,479	7,758
179.53	4,136	5,561	180.05	4,486	7,802
179.54	4,143	5,602	180.06	4,493	7,847
179.55	4,150	5,644	180.07	4,500	7,892

Stage-Area-Storage for Pond B-16B: Basin #16B (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
180.08	4,507	7,937	180.60	4,870	10,375
180.09	4,514	7,982	180.61	4,877	10,424
180.10	4,521	8,028	180.62	4,884	10,473
180.11	4,528	8,073	180.63	4,891	10,522
180.12	4,535	8,118	180.64	4,898	10,571
180.13	4,542	8,164	180.65	4,905	10,620
180.14	4,549	8,209	180.66	4,912	10,669
180.15	4,556	8,255	180.67	4,919	10,718
180.16	4,563	8,300	180.68	4,926	10,767
180.17	4,570	8,346	180.69	4,933	10,816
180.18	4,577	8,391	180.70	4,940	10,866
180.19	4,584	8,437	180.71	4,947	10,915
180.20	4,591	8,483	180.72	4,954	10,965
180.21	4,598	8,529	180.73	4,961	11,014
180.22	4,605	8,575	180.74	4,968	11,064
180.23	4,612	8,621	180.75	4,975	11,114
180.24	4,619	8,667	180.76	4,981	11,163
180.25	4,626	8,714	180.77	4,988	11,213
180.26	4,632	8,760	180.78	4,995	11,263
180.27	4,639	8,806	180.79	5,002	11,313
180.28	4,646	8,853	180.80	5,009	11,363
180.29	4,653	8,899	180.81	5,016	11,413
180.30	4,660	8,946	180.82	5,023	11,463
180.31	4,667	8,992	180.83	5,030	11,514
180.32	4,674	9,039	180.84	5,037	11,564
180.33	4,681	9,086	180.85	5,044	11,615
180.34	4,688	9,133	180.86	5,051	11,665
180.35	4,695	9,180	180.87	5,058	11,716
180.36	4,702	9,227	180.88	5,065	11,766
180.37	4,709	9,274	180.89	5,072	11,817
180.38	4,716	9,321	180.90	5,079	11,868
180.39	4,723	9,368	180.91	5,086	11,918
180.40	4,730	9,415	180.92	5,093	11,969
180.41	4,737	9,463	180.93	5,100	12,020
180.42	4,744	9,510	180.94	5,107	12,071
180.43	4,751	9,557	180.95	5,114	12,122
180.44	4,758	9,605	180.96	5,121	12,174
180.45	4,765	9,653	180.97	5,128	12,225
180.46	4,772	9,700	180.98	5,135	12,276
180.47	4,779	9,748	180.99	5,142	12,328
180.48	4,786	9,796	181.00	5,149	12,379
180.49	4,793	9,844	181.01	5,156	12,431
180.50	4,800	9,892	181.02	5,164	12,482
180.51	4,807	9,940	181.03	5,171	12,534
180.52	4,814	9,988	181.04	5,178	12,586
180.53	4,821	10,036	181.05	5,185	12,637
180.54	4,828	10,084	181.06	5,193	12,689
180.55	4,835	10,133	181.07	5,200	12,741
180.56	4,842	10,181	181.08	5,207	12,793
180.57	4,849	10,229	181.09	5,215	12,845
180.58	4,856	10,278	181.10	5,222	12,898
180.59	4,863	10,327	181.11	5,229	12,950

Stage-Area-Storage for Pond B-16B: Basin #16B (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
181.12	5,236	13,002	181.64	5,615	15,823
181.13	5,244	13,055	181.65	5,622	15,880
181.14	5,251	13,107	181.66	5,629	15,936
181.15	5,258	13,160	181.67	5,637	15,992
181.16	5,265	13,212	181.68	5,644	16,049
181.17	5,273	13,265	181.69	5,651	16,105
181.18	5,280	13,318	181.70	5,659	16,162
181.19	5,287	13,370	181.71	5,666	16,218
181.20	5,295	13,423	181.72	5,673	16,275
181.21	5,302	13,476	181.73	5,680	16,332
181.22	5,309	13,529	181.74	5,688	16,389
181.23	5,316	13,583	181.75	5,695	16,446
181.24	5,324	13,636	181.76	5,702	16,502
181.25	5,331	13,689	181.77	5,710	16,560
181.26	5,338	13,742	181.78	5,717	16,617
181.27	5,346	13,796	181.79	5,724	16,674
181.28	5,353	13,849	181.80	5,731	16,731
181.29	5,360	13,903	181.81	5,739	16,789
181.30	5,367	13,956	181.82	5,746	16,846
181.31	5,375	14,010	181.83	5,753	16,903
181.32	5,382	14,064	181.84	5,761	16,961
181.33	5,389	14,118	181.85	5,768	17,019
181.34	5,397	14,172	181.86	5,775	17,076
181.35	5,404	14,226	181.87	5,782	17,134
181.36	5,411	14,280	181.88	5,790	17,192
181.37	5,418	14,334	181.89	5,797	17,250
181.38	5,426	14,388	181.90	5,804	17,308
181.39	5,433	14,442	181.91	5,811	17,366
181.40	5,440	14,497	181.92	5,819	17,424
181.41	5,447	14,551	181.93	5,826	17,482
181.42	5,455	14,606	181.94	5,833	17,541
181.43	5,462	14,660	181.95	5,841	17,599
181.44	5,469	14,715	181.96	5,848	17,658
181.45	5,477	14,770	181.97	5,855	17,716
181.46	5,484	14,825	181.98	5,862	17,775
181.47	5,491	14,879	181.99	5,870	17,833
181.48	5,498	14,934	182.00	5,877	17,892
181.49	5,506	14,989			
181.50	5,513	15,045			
181.51	5,520	15,100			
181.52	5,528	15,155			
181.53	5,535	15,210			
181.54	5,542	15,266			
181.55	5,549	15,321			
181.56	5,557	15,377			
181.57	5,564	15,432			
181.58	5,571	15,488			
181.59	5,579	15,544			
181.60	5,586	15,599			
181.61	5,593	15,655			
181.62	5,600	15,711			
181.63	5,608	15,767			

Summary for Pond B-17A: Basin #17A

Inflow Area = 1.324 ac, 14.58% Impervious, Inflow Depth = 8.34" for Future 100 yr event
 Inflow = 11.63 cfs @ 12.17 hrs, Volume= 0.921 af
 Outflow = 3.26 cfs @ 12.52 hrs, Volume= 0.757 af, Atten= 72%, Lag= 20.8 min
 Primary = 3.26 cfs @ 12.52 hrs, Volume= 0.757 af
 Routed to Link PDA-1 : Proposed Drainage Area #1

Routing by Stor-Ind method, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 Peak Elev= 182.03' @ 12.52 hrs Surf.Area= 8,698 sf Storage= 21,434 cf

Plug-Flow detention time= 564.4 min calculated for 0.756 af (82% of inflow)
 Center-of-Mass det. time= 490.6 min (1,287.1 - 796.4)

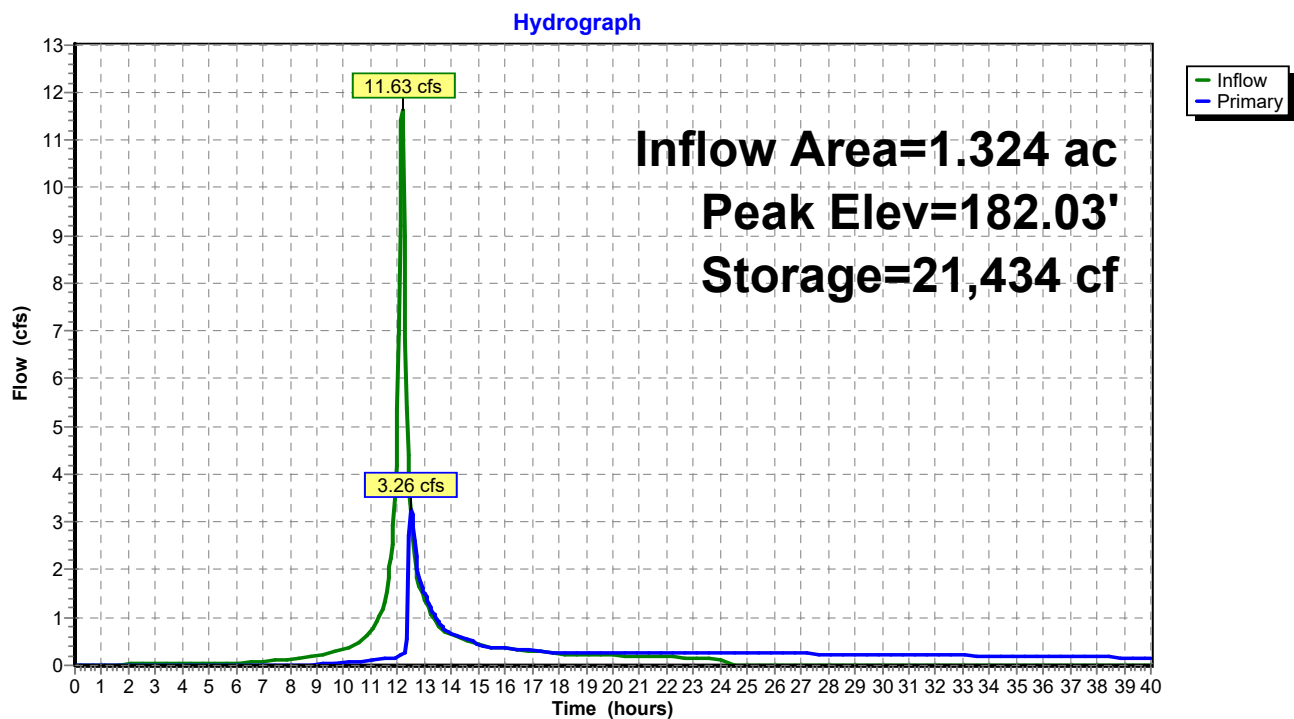
Volume	Invert	Avail.Storage	Storage Description
#1	179.00'	30,377 cf	Custom Stage Data (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
179.00	5,508	0	0
180.00	6,502	6,005	6,005
181.00	7,552	7,027	13,032
182.00	8,658	8,105	21,137
183.00	9,821	9,240	30,377

Device	Routing	Invert	Outlet Devices
#1	Primary	177.65'	18.0" Round Culvert L= 40.0' Ke= 0.500 Inlet / Outlet Invert= 177.65' / 177.00' S= 0.0163 '/' Cc= 0.900 n= 0.013, Flow Area= 1.77 sf
#2	Device 1	179.18'	2.5" Vert. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#3	Device 1	182.00'	4.0' long Sharp-Crested Rectangular Weir 2 End Contraction(s)
#4	Primary	181.95'	50.0' long + 3.0 '/' SideZ x 5.0' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 Coef. (English) 2.34 2.50 2.70 2.68 2.68 2.66 2.65 2.65 2.65 2.65 2.67 2.66 2.68 2.70 2.74 2.79 2.88

Primary OutFlow Max=3.15 cfs @ 12.52 hrs HW=182.03' (Free Discharge)

1=Culvert (Passes 0.35 cfs of 16.22 cfs potential flow)
 2=Orifice/Grate (Orifice Controls 0.27 cfs @ 7.98 fps)
 3=Sharp-Crested Rectangular Weir (Weir Controls 0.08 cfs @ 0.59 fps)
 4=Broad-Crested Rectangular Weir (Weir Controls 2.80 cfs @ 0.67 fps)

Pond B-17A: Basin #17A

Stage-Discharge for Pond B-17A: Basin #17A

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
179.00	0.00	179.52	0.08	180.04	0.14	180.56	0.19
179.01	0.00	179.53	0.08	180.05	0.14	180.57	0.19
179.02	0.00	179.54	0.08	180.06	0.14	180.58	0.19
179.03	0.00	179.55	0.08	180.07	0.15	180.59	0.19
179.04	0.00	179.56	0.09	180.08	0.15	180.60	0.19
179.05	0.00	179.57	0.09	180.09	0.15	180.61	0.19
179.06	0.00	179.58	0.09	180.10	0.15	180.62	0.19
179.07	0.00	179.59	0.09	180.11	0.15	180.63	0.19
179.08	0.00	179.60	0.09	180.12	0.15	180.64	0.19
179.09	0.00	179.61	0.09	180.13	0.15	180.65	0.19
179.10	0.00	179.62	0.10	180.14	0.15	180.66	0.19
179.11	0.00	179.63	0.10	180.15	0.15	180.67	0.19
179.12	0.00	179.64	0.10	180.16	0.15	180.68	0.19
179.13	0.00	179.65	0.10	180.17	0.15	180.69	0.19
179.14	0.00	179.66	0.10	180.18	0.16	180.70	0.20
179.15	0.00	179.67	0.10	180.19	0.16	180.71	0.20
179.16	0.00	179.68	0.10	180.20	0.16	180.72	0.20
179.17	0.00	179.69	0.10	180.21	0.16	180.73	0.20
179.18	0.00	179.70	0.11	180.22	0.16	180.74	0.20
179.19	0.00	179.71	0.11	180.23	0.16	180.75	0.20
179.20	0.00	179.72	0.11	180.24	0.16	180.76	0.20
179.21	0.00	179.73	0.11	180.25	0.16	180.77	0.20
179.22	0.00	179.74	0.11	180.26	0.16	180.78	0.20
179.23	0.00	179.75	0.11	180.27	0.16	180.79	0.20
179.24	0.01	179.76	0.11	180.28	0.16	180.80	0.20
179.25	0.01	179.77	0.11	180.29	0.16	180.81	0.20
179.26	0.01	179.78	0.12	180.30	0.17	180.82	0.20
179.27	0.01	179.79	0.12	180.31	0.17	180.83	0.20
179.28	0.02	179.80	0.12	180.32	0.17	180.84	0.20
179.29	0.02	179.81	0.12	180.33	0.17	180.85	0.21
179.30	0.02	179.82	0.12	180.34	0.17	180.86	0.21
179.31	0.03	179.83	0.12	180.35	0.17	180.87	0.21
179.32	0.03	179.84	0.12	180.36	0.17	180.88	0.21
179.33	0.03	179.85	0.12	180.37	0.17	180.89	0.21
179.34	0.04	179.86	0.12	180.38	0.17	180.90	0.21
179.35	0.04	179.87	0.13	180.39	0.17	180.91	0.21
179.36	0.05	179.88	0.13	180.40	0.17	180.92	0.21
179.37	0.05	179.89	0.13	180.41	0.17	180.93	0.21
179.38	0.05	179.90	0.13	180.42	0.17	180.94	0.21
179.39	0.05	179.91	0.13	180.43	0.18	180.95	0.21
179.40	0.06	179.92	0.13	180.44	0.18	180.96	0.21
179.41	0.06	179.93	0.13	180.45	0.18	180.97	0.21
179.42	0.06	179.94	0.13	180.46	0.18	180.98	0.21
179.43	0.06	179.95	0.13	180.47	0.18	180.99	0.21
179.44	0.06	179.96	0.13	180.48	0.18	181.00	0.22
179.45	0.07	179.97	0.14	180.49	0.18	181.01	0.22
179.46	0.07	179.98	0.14	180.50	0.18	181.02	0.22
179.47	0.07	179.99	0.14	180.51	0.18	181.03	0.22
179.48	0.07	180.00	0.14	180.52	0.18	181.04	0.22
179.49	0.07	180.01	0.14	180.53	0.18	181.05	0.22
179.50	0.08	180.02	0.14	180.54	0.18	181.06	0.22
179.51	0.08	180.03	0.14	180.55	0.18	181.07	0.22

Stage-Discharge for Pond B-17A: Basin #17A (continued)

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
181.08	0.22	181.60	0.25	182.12	9.08	182.64	86.46
181.09	0.22	181.61	0.25	182.13	9.90	182.65	88.35
181.10	0.22	181.62	0.25	182.14	10.74	182.66	90.26
181.11	0.22	181.63	0.25	182.15	11.60	182.67	92.18
181.12	0.22	181.64	0.25	182.16	12.52	182.68	94.12
181.13	0.22	181.65	0.25	182.17	13.47	182.69	96.07
181.14	0.22	181.66	0.25	182.18	14.45	182.70	98.03
181.15	0.22	181.67	0.25	182.19	15.46	182.71	100.01
181.16	0.22	181.68	0.25	182.20	16.49	182.72	102.00
181.17	0.23	181.69	0.25	182.21	17.55	182.73	104.00
181.18	0.23	181.70	0.26	182.22	18.64	182.74	106.02
181.19	0.23	181.71	0.26	182.23	19.76	182.75	108.05
181.20	0.23	181.72	0.26	182.24	20.90	182.76	110.13
181.21	0.23	181.73	0.26	182.25	22.07	182.77	112.22
181.22	0.23	181.74	0.26	182.26	23.26	182.78	114.33
181.23	0.23	181.75	0.26	182.27	24.48	182.79	116.45
181.24	0.23	181.76	0.26	182.28	25.73	182.80	118.59
181.25	0.23	181.77	0.26	182.29	27.00	182.81	120.74
181.26	0.23	181.78	0.26	182.30	28.30	182.82	122.90
181.27	0.23	181.79	0.26	182.31	29.62	182.83	125.08
181.28	0.23	181.80	0.26	182.32	30.97	182.84	127.27
181.29	0.23	181.81	0.26	182.33	32.35	182.85	129.48
181.30	0.23	181.82	0.26	182.34	33.75	182.86	131.70
181.31	0.23	181.83	0.26	182.35	35.18	182.87	133.93
181.32	0.23	181.84	0.26	182.36	36.66	182.88	136.18
181.33	0.23	181.85	0.26	182.37	38.17	182.89	138.44
181.34	0.24	181.86	0.26	182.38	39.70	182.90	140.71
181.35	0.24	181.87	0.26	182.39	41.26	182.91	143.00
181.36	0.24	181.88	0.26	182.40	42.85	182.92	145.30
181.37	0.24	181.89	0.26	182.41	44.47	182.93	147.61
181.38	0.24	181.90	0.27	182.42	46.11	182.94	149.94
181.39	0.24	181.91	0.27	182.43	47.79	182.95	152.28
181.40	0.24	181.92	0.27	182.44	49.49	182.96	154.58
181.41	0.24	181.93	0.27	182.45	51.22	182.97	156.90
181.42	0.24	181.94	0.27	182.46	52.97	182.98	159.22
181.43	0.24	181.95	0.27	182.47	54.76	182.99	161.55
181.44	0.24	181.96	0.39	182.48	56.57	183.00	163.90
181.45	0.24	181.97	0.60	182.49	58.41		
181.46	0.24	181.98	0.88	182.50	60.28		
181.47	0.24	181.99	1.21	182.51	62.17		
181.48	0.24	182.00	1.58	182.52	64.09		
181.49	0.24	182.01	2.01	182.53	66.05		
181.50	0.24	182.02	2.48	182.54	68.03		
181.51	0.24	182.03	3.00	182.55	70.03		
181.52	0.25	182.04	3.55	182.56	71.80		
181.53	0.25	182.05	4.14	182.57	73.58		
181.54	0.25	182.06	4.76	182.58	75.38		
181.55	0.25	182.07	5.41	182.59	77.19		
181.56	0.25	182.08	6.09	182.60	79.01		
181.57	0.25	182.09	6.80	182.61	80.85		
181.58	0.25	182.10	7.53	182.62	82.71		
181.59	0.25	182.11	8.30	182.63	84.57		

Stage-Area-Storage for Pond B-17A: Basin #17A

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
179.00	5,508	0	179.52	6,025	2,999
179.01	5,518	55	179.53	6,035	3,059
179.02	5,528	110	179.54	6,045	3,119
179.03	5,538	166	179.55	6,055	3,180
179.04	5,548	221	179.56	6,065	3,240
179.05	5,558	277	179.57	6,075	3,301
179.06	5,568	332	179.58	6,085	3,362
179.07	5,578	388	179.59	6,094	3,423
179.08	5,588	444	179.60	6,104	3,484
179.09	5,597	500	179.61	6,114	3,545
179.10	5,607	556	179.62	6,124	3,606
179.11	5,617	612	179.63	6,134	3,667
179.12	5,627	668	179.64	6,144	3,729
179.13	5,637	724	179.65	6,154	3,790
179.14	5,647	781	179.66	6,164	3,852
179.15	5,657	837	179.67	6,174	3,913
179.16	5,667	894	179.68	6,184	3,975
179.17	5,677	951	179.69	6,194	4,037
179.18	5,687	1,008	179.70	6,204	4,099
179.19	5,697	1,064	179.71	6,214	4,161
179.20	5,707	1,121	179.72	6,224	4,223
179.21	5,717	1,179	179.73	6,234	4,286
179.22	5,727	1,236	179.74	6,244	4,348
179.23	5,737	1,293	179.75	6,254	4,411
179.24	5,747	1,351	179.76	6,263	4,473
179.25	5,757	1,408	179.77	6,273	4,536
179.26	5,766	1,466	179.78	6,283	4,599
179.27	5,776	1,523	179.79	6,293	4,661
179.28	5,786	1,581	179.80	6,303	4,724
179.29	5,796	1,639	179.81	6,313	4,788
179.30	5,806	1,697	179.82	6,323	4,851
179.31	5,816	1,755	179.83	6,333	4,914
179.32	5,826	1,813	179.84	6,343	4,977
179.33	5,836	1,872	179.85	6,353	5,041
179.34	5,846	1,930	179.86	6,363	5,104
179.35	5,856	1,989	179.87	6,373	5,168
179.36	5,866	2,047	179.88	6,383	5,232
179.37	5,876	2,106	179.89	6,393	5,296
179.38	5,886	2,165	179.90	6,403	5,360
179.39	5,896	2,224	179.91	6,413	5,424
179.40	5,906	2,283	179.92	6,422	5,488
179.41	5,916	2,342	179.93	6,432	5,552
179.42	5,925	2,401	179.94	6,442	5,617
179.43	5,935	2,460	179.95	6,452	5,681
179.44	5,945	2,520	179.96	6,462	5,746
179.45	5,955	2,579	179.97	6,472	5,810
179.46	5,965	2,639	179.98	6,482	5,875
179.47	5,975	2,699	179.99	6,492	5,940
179.48	5,985	2,758	180.00	6,502	6,005
179.49	5,995	2,818	180.01	6,512	6,070
179.50	6,005	2,878	180.02	6,523	6,135
179.51	6,015	2,938	180.03	6,534	6,201

Stage-Area-Storage for Pond B-17A: Basin #17A (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
180.04	6,544	6,266	180.56	7,090	9,811
180.05	6,555	6,331	180.57	7,100	9,882
180.06	6,565	6,397	180.58	7,111	9,953
180.07	6,575	6,463	180.59	7,122	10,024
180.08	6,586	6,529	180.60	7,132	10,095
180.09	6,597	6,594	180.61	7,143	10,167
180.10	6,607	6,660	180.62	7,153	10,238
180.11	6,618	6,727	180.63	7,163	10,310
180.12	6,628	6,793	180.64	7,174	10,381
180.13	6,638	6,859	180.65	7,185	10,453
180.14	6,649	6,926	180.66	7,195	10,525
180.15	6,660	6,992	180.67	7,205	10,597
180.16	6,670	7,059	180.68	7,216	10,669
180.17	6,680	7,126	180.69	7,226	10,741
180.18	6,691	7,192	180.70	7,237	10,814
180.19	6,701	7,259	180.71	7,248	10,886
180.20	6,712	7,326	180.72	7,258	10,959
180.21	6,723	7,394	180.73	7,268	11,031
180.22	6,733	7,461	180.74	7,279	11,104
180.23	6,743	7,528	180.75	7,290	11,177
180.24	6,754	7,596	180.76	7,300	11,250
180.25	6,765	7,663	180.77	7,311	11,323
180.26	6,775	7,731	180.78	7,321	11,396
180.27	6,786	7,799	180.79	7,331	11,469
180.28	6,796	7,867	180.80	7,342	11,543
180.29	6,806	7,935	180.81	7,353	11,616
180.30	6,817	8,003	180.82	7,363	11,690
180.31	6,828	8,071	180.83	7,374	11,763
180.32	6,838	8,139	180.84	7,384	11,837
180.33	6,849	8,208	180.85	7,394	11,911
180.34	6,859	8,276	180.86	7,405	11,985
180.35	6,869	8,345	180.87	7,416	12,059
180.36	6,880	8,414	180.88	7,426	12,133
180.37	6,891	8,483	180.89	7,436	12,208
180.38	6,901	8,552	180.90	7,447	12,282
180.39	6,911	8,621	180.91	7,457	12,357
180.40	6,922	8,690	180.92	7,468	12,431
180.41	6,932	8,759	180.93	7,479	12,506
180.42	6,943	8,828	180.94	7,489	12,581
180.43	6,954	8,898	180.95	7,499	12,656
180.44	6,964	8,968	180.96	7,510	12,731
180.45	6,974	9,037	180.97	7,520	12,806
180.46	6,985	9,107	180.98	7,531	12,881
180.47	6,995	9,177	180.99	7,542	12,957
180.48	7,006	9,247	181.00	7,552	13,032
180.49	7,017	9,317	181.01	7,563	13,108
180.50	7,027	9,387	181.02	7,574	13,183
180.51	7,037	9,458	181.03	7,585	13,259
180.52	7,048	9,528	181.04	7,596	13,335
180.53	7,059	9,599	181.05	7,607	13,411
180.54	7,069	9,669	181.06	7,618	13,487
180.55	7,080	9,740	181.07	7,629	13,563

Stage-Area-Storage for Pond B-17A: Basin #17A (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
181.08	7,640	13,640	181.60	8,216	17,762
181.09	7,652	13,716	181.61	8,227	17,844
181.10	7,663	13,793	181.62	8,238	17,927
181.11	7,674	13,869	181.63	8,249	18,009
181.12	7,685	13,946	181.64	8,260	18,092
181.13	7,696	14,023	181.65	8,271	18,174
181.14	7,707	14,100	181.66	8,282	18,257
181.15	7,718	14,177	181.67	8,293	18,340
181.16	7,729	14,254	181.68	8,304	18,423
181.17	7,740	14,332	181.69	8,315	18,506
181.18	7,751	14,409	181.70	8,326	18,589
181.19	7,762	14,487	181.71	8,337	18,673
181.20	7,773	14,565	181.72	8,348	18,756
181.21	7,784	14,642	181.73	8,359	18,840
181.22	7,795	14,720	181.74	8,370	18,923
181.23	7,806	14,798	181.75	8,382	19,007
181.24	7,817	14,876	181.76	8,393	19,091
181.25	7,829	14,955	181.77	8,404	19,175
181.26	7,840	15,033	181.78	8,415	19,259
181.27	7,851	15,111	181.79	8,426	19,343
181.28	7,862	15,190	181.80	8,437	19,428
181.29	7,873	15,269	181.81	8,448	19,512
181.30	7,884	15,347	181.82	8,459	19,596
181.31	7,895	15,426	181.83	8,470	19,681
181.32	7,906	15,505	181.84	8,481	19,766
181.33	7,917	15,584	181.85	8,492	19,851
181.34	7,928	15,664	181.86	8,503	19,936
181.35	7,939	15,743	181.87	8,514	20,021
181.36	7,950	15,822	181.88	8,525	20,106
181.37	7,961	15,902	181.89	8,536	20,191
181.38	7,972	15,982	181.90	8,547	20,277
181.39	7,983	16,061	181.91	8,558	20,362
181.40	7,994	16,141	181.92	8,570	20,448
181.41	8,005	16,221	181.93	8,581	20,534
181.42	8,017	16,301	181.94	8,592	20,620
181.43	8,028	16,382	181.95	8,603	20,705
181.44	8,039	16,462	181.96	8,614	20,792
181.45	8,050	16,542	181.97	8,625	20,878
181.46	8,061	16,623	181.98	8,636	20,964
181.47	8,072	16,704	181.99	8,647	21,050
181.48	8,083	16,784	182.00	8,658	21,137
181.49	8,094	16,865	182.01	8,670	21,224
181.50	8,105	16,946	182.02	8,681	21,310
181.51	8,116	17,027	182.03	8,693	21,397
181.52	8,127	17,109	182.04	8,705	21,484
181.53	8,138	17,190	182.05	8,716	21,571
181.54	8,149	17,271	182.06	8,728	21,659
181.55	8,160	17,353	182.07	8,739	21,746
181.56	8,171	17,435	182.08	8,751	21,833
181.57	8,182	17,516	182.09	8,763	21,921
181.58	8,193	17,598	182.10	8,774	22,009
181.59	8,205	17,680	182.11	8,786	22,096

Stage-Area-Storage for Pond B-17A: Basin #17A (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
182.12	8,798	22,184	182.64	9,402	26,916
182.13	8,809	22,272	182.65	9,414	27,010
182.14	8,821	22,361	182.66	9,426	27,105
182.15	8,832	22,449	182.67	9,437	27,199
182.16	8,844	22,537	182.68	9,449	27,293
182.17	8,856	22,626	182.69	9,460	27,388
182.18	8,867	22,714	182.70	9,472	27,483
182.19	8,879	22,803	182.71	9,484	27,577
182.20	8,891	22,892	182.72	9,495	27,672
182.21	8,902	22,981	182.73	9,507	27,767
182.22	8,914	23,070	182.74	9,519	27,862
182.23	8,925	23,159	182.75	9,530	27,958
182.24	8,937	23,248	182.76	9,542	28,053
182.25	8,949	23,338	182.77	9,554	28,148
182.26	8,960	23,427	182.78	9,565	28,244
182.27	8,972	23,517	182.79	9,577	28,340
182.28	8,984	23,607	182.80	9,588	28,436
182.29	8,995	23,697	182.81	9,600	28,532
182.30	9,007	23,787	182.82	9,612	28,628
182.31	9,019	23,877	182.83	9,623	28,724
182.32	9,030	23,967	182.84	9,635	28,820
182.33	9,042	24,057	182.85	9,647	28,916
182.34	9,053	24,148	182.86	9,658	29,013
182.35	9,065	24,239	182.87	9,670	29,110
182.36	9,077	24,329	182.88	9,681	29,206
182.37	9,088	24,420	182.89	9,693	29,303
182.38	9,100	24,511	182.90	9,705	29,400
182.39	9,112	24,602	182.91	9,716	29,497
182.40	9,123	24,693	182.92	9,728	29,595
182.41	9,135	24,785	182.93	9,740	29,692
182.42	9,146	24,876	182.94	9,751	29,789
182.43	9,158	24,967	182.95	9,763	29,887
182.44	9,170	25,059	182.96	9,774	29,985
182.45	9,181	25,151	182.97	9,786	30,082
182.46	9,193	25,243	182.98	9,798	30,180
182.47	9,205	25,335	182.99	9,809	30,278
182.48	9,216	25,427	183.00	9,821	30,377
182.49	9,228	25,519			
182.50	9,240	25,611			
182.51	9,251	25,704			
182.52	9,263	25,796			
182.53	9,274	25,889			
182.54	9,286	25,982			
182.55	9,298	26,075			
182.56	9,309	26,168			
182.57	9,321	26,261			
182.58	9,333	26,354			
182.59	9,344	26,448			
182.60	9,356	26,541			
182.61	9,367	26,635			
182.62	9,379	26,728			
182.63	9,391	26,822			

Summary for Pond B-17B: Basin #17B

Inflow Area = 1.385 ac, 37.11% Impervious, Inflow Depth = 9.04" for Future 100 yr event
 Inflow = 12.71 cfs @ 12.17 hrs, Volume= 1.044 af
 Outflow = 9.22 cfs @ 12.27 hrs, Volume= 0.971 af, Atten= 27%, Lag= 5.7 min
 Primary = 9.22 cfs @ 12.27 hrs, Volume= 0.971 af
 Routed to Link PDA-1 : Proposed Drainage Area #1

Routing by Stor-Ind method, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 Peak Elev= 180.66' @ 12.27 hrs Surf.Area= 8,852 sf Storage= 13,042 cf

Plug-Flow detention time= 175.1 min calculated for 0.971 af (93% of inflow)
 Center-of-Mass det. time= 136.1 min (914.9 - 778.9)

Volume	Invert	Avail.Storage	Storage Description
#1	179.00'	37,242 cf	Custom Stage Data (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
179.00	6,855	0	0
180.00	8,033	7,444	7,444
181.00	9,268	8,651	16,095
182.00	10,560	9,914	26,009
183.00	11,907	11,234	37,242

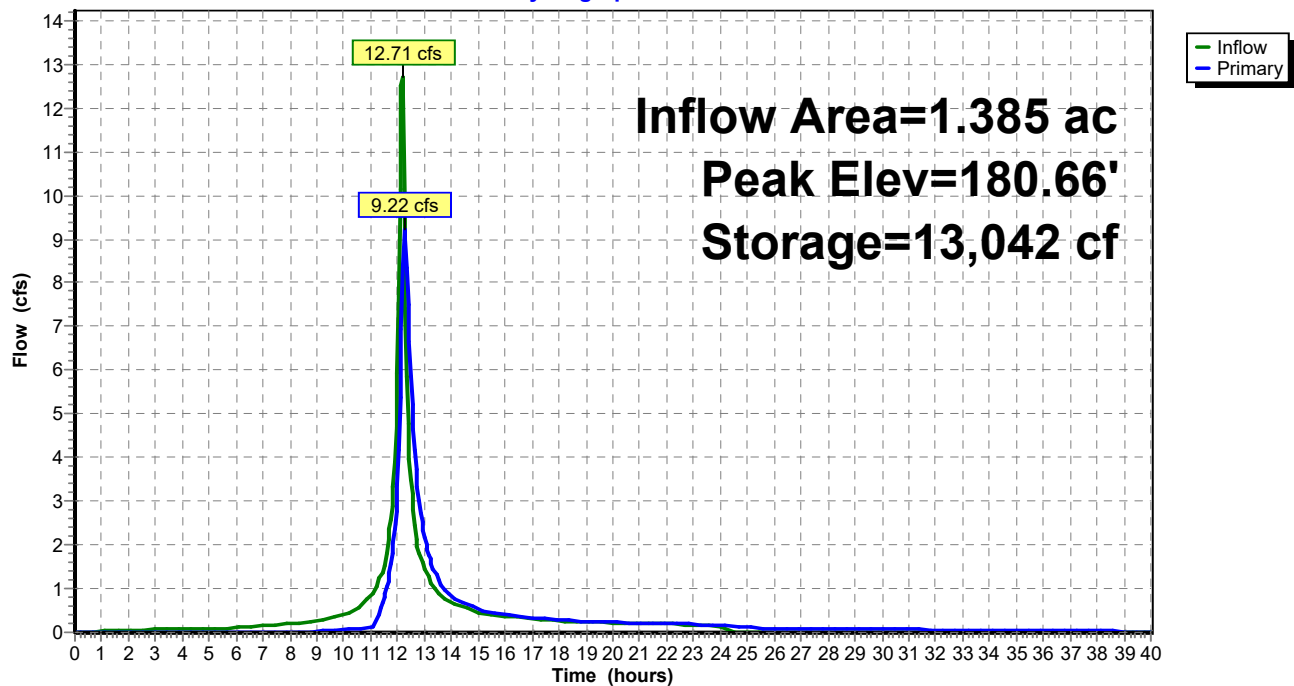
Device	Routing	Invert	Outlet Devices
#1	Primary	177.65'	18.0" Round Culvert L= 40.0' Ke= 0.500 Inlet / Outlet Invert= 177.65' / 177.00' S= 0.0163 '/' Cc= 0.900 n= 0.013, Flow Area= 1.77 sf
#2	Device 1	179.35'	2.5" Vert. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#3	Device 1	179.86'	4.0' long Sharp-Crested Rectangular Weir 2 End Contraction(s)
#4	Primary	181.95'	50.0' long + 3.0 '/' SideZ x 5.0' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 Coef. (English) 2.34 2.50 2.70 2.68 2.68 2.66 2.65 2.65 2.65 2.65 2.67 2.66 2.68 2.70 2.74 2.79 2.88

Primary OutFlow Max=9.12 cfs @ 12.27 hrs HW=180.66' (Free Discharge)

1=Culvert (Passes 9.12 cfs of 12.78 cfs potential flow)
 2=Orifice/Grate (Orifice Controls 0.18 cfs @ 5.28 fps)
 3=Sharp-Crested Rectangular Weir (Weir Controls 8.94 cfs @ 2.92 fps)
 4=Broad-Crested Rectangular Weir (Controls 0.00 cfs)

Pond B-17B: Basin #17B

Hydrograph



Stage-Discharge for Pond B-17B: Basin #17B

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
179.00	0.00	179.52	0.04	180.04	1.12	180.56	7.56
179.01	0.00	179.53	0.05	180.05	1.20	180.57	7.72
179.02	0.00	179.54	0.05	180.06	1.29	180.58	7.88
179.03	0.00	179.55	0.05	180.07	1.37	180.59	8.04
179.04	0.00	179.56	0.05	180.08	1.46	180.60	8.19
179.05	0.00	179.57	0.06	180.09	1.56	180.61	8.35
179.06	0.00	179.58	0.06	180.10	1.65	180.62	8.51
179.07	0.00	179.59	0.06	180.11	1.75	180.63	8.68
179.08	0.00	179.60	0.06	180.12	1.85	180.64	8.84
179.09	0.00	179.61	0.06	180.13	1.95	180.65	9.00
179.10	0.00	179.62	0.07	180.14	2.05	180.66	9.17
179.11	0.00	179.63	0.07	180.15	2.15	180.67	9.33
179.12	0.00	179.64	0.07	180.16	2.25	180.68	9.50
179.13	0.00	179.65	0.07	180.17	2.36	180.69	9.66
179.14	0.00	179.66	0.07	180.18	2.47	180.70	9.83
179.15	0.00	179.67	0.08	180.19	2.58	180.71	10.00
179.16	0.00	179.68	0.08	180.20	2.69	180.72	10.17
179.17	0.00	179.69	0.08	180.21	2.80	180.73	10.34
179.18	0.00	179.70	0.08	180.22	2.92	180.74	10.51
179.19	0.00	179.71	0.08	180.23	3.03	180.75	10.68
179.20	0.00	179.72	0.08	180.24	3.15	180.76	10.85
179.21	0.00	179.73	0.09	180.25	3.27	180.77	11.03
179.22	0.00	179.74	0.09	180.26	3.39	180.78	11.20
179.23	0.00	179.75	0.09	180.27	3.51	180.79	11.38
179.24	0.00	179.76	0.09	180.28	3.63	180.80	11.55
179.25	0.00	179.77	0.09	180.29	3.76	180.81	11.73
179.26	0.00	179.78	0.09	180.30	3.88	180.82	11.90
179.27	0.00	179.79	0.10	180.31	4.01	180.83	12.08
179.28	0.00	179.80	0.10	180.32	4.14	180.84	12.26
179.29	0.00	179.81	0.10	180.33	4.27	180.85	12.44
179.30	0.00	179.82	0.10	180.34	4.40	180.86	12.62
179.31	0.00	179.83	0.10	180.35	4.53	180.87	12.80
179.32	0.00	179.84	0.10	180.36	4.67	180.88	12.98
179.33	0.00	179.85	0.10	180.37	4.80	180.89	13.17
179.34	0.00	179.86	0.10	180.38	4.94	180.90	13.35
179.35	0.00	179.87	0.12	180.39	5.07	180.91	13.48
179.36	0.00	179.88	0.14	180.40	5.21	180.92	13.51
179.37	0.00	179.89	0.18	180.41	5.35	180.93	13.53
179.38	0.00	179.90	0.21	180.42	5.49	180.94	13.56
179.39	0.00	179.91	0.26	180.43	5.63	180.95	13.59
179.40	0.00	179.92	0.30	180.44	5.77	180.96	13.61
179.41	0.01	179.93	0.35	180.45	5.92	180.97	13.64
179.42	0.01	179.94	0.41	180.46	6.06	180.98	13.67
179.43	0.01	179.95	0.47	180.47	6.21	180.99	13.69
179.44	0.01	179.96	0.53	180.48	6.35	181.00	13.72
179.45	0.02	179.97	0.59	180.49	6.50	181.01	13.75
179.46	0.02	179.98	0.66	180.50	6.65	181.02	13.77
179.47	0.02	179.99	0.73	180.51	6.80	181.03	13.80
179.48	0.03	180.00	0.80	180.52	6.95	181.04	13.83
179.49	0.03	180.01	0.88	180.53	7.10	181.05	13.85
179.50	0.03	180.02	0.95	180.54	7.26	181.06	13.88
179.51	0.04	180.03	1.03	180.55	7.41	181.07	13.90

Stage-Discharge for Pond B-17B: Basin #17B (continued)

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
181.08	13.93	181.60	15.22	182.12	24.68	182.64	97.19
181.09	13.96	181.61	15.24	182.13	25.45	182.65	98.96
181.10	13.98	181.62	15.27	182.14	26.23	182.66	100.74
181.11	14.01	181.63	15.29	182.15	27.04	182.67	102.53
181.12	14.03	181.64	15.32	182.16	27.91	182.68	104.34
181.13	14.06	181.65	15.34	182.17	28.81	182.69	106.15
181.14	14.08	181.66	15.36	182.18	29.72	182.70	107.98
181.15	14.11	181.67	15.39	182.19	30.67	182.71	109.82
181.16	14.14	181.68	15.41	182.20	31.64	182.72	111.68
181.17	14.16	181.69	15.43	182.21	32.64	182.73	113.54
181.18	14.19	181.70	15.46	182.22	33.66	182.74	115.42
181.19	14.21	181.71	15.48	182.23	34.70	182.75	117.31
181.20	14.24	181.72	15.50	182.24	35.77	182.76	119.25
181.21	14.26	181.73	15.53	182.25	36.86	182.77	121.20
181.22	14.29	181.74	15.55	182.26	37.98	182.78	123.17
181.23	14.31	181.75	15.57	182.27	39.13	182.79	125.15
181.24	14.34	181.76	15.60	182.28	40.29	182.80	127.14
181.25	14.36	181.77	15.62	182.29	41.48	182.81	129.15
181.26	14.39	181.78	15.64	182.30	42.70	182.82	131.17
181.27	14.41	181.79	15.67	182.31	43.94	182.83	133.20
181.28	14.44	181.80	15.69	182.32	45.20	182.84	135.25
181.29	14.46	181.81	15.71	182.33	46.49	182.85	137.30
181.30	14.49	181.82	15.74	182.34	47.80	182.86	139.37
181.31	14.51	181.83	15.76	182.35	49.14	182.87	141.46
181.32	14.54	181.84	15.78	182.36	50.53	182.88	143.55
181.33	14.56	181.85	15.80	182.37	51.94	182.89	145.66
181.34	14.59	181.86	15.83	182.38	53.38	182.90	147.78
181.35	14.61	181.87	15.85	182.39	54.85	182.91	149.92
181.36	14.64	181.88	15.87	182.40	56.34	182.92	152.07
181.37	14.66	181.89	15.90	182.41	57.85	182.93	154.23
181.38	14.69	181.90	15.92	182.42	59.40	182.94	156.40
181.39	14.71	181.91	15.94	182.43	60.97	182.95	158.58
181.40	14.74	181.92	15.96	182.44	62.57	182.96	160.73
181.41	14.76	181.93	15.99	182.45	64.19	182.97	162.88
181.42	14.79	181.94	16.01	182.46	65.84	182.98	165.05
181.43	14.81	181.95	16.03	182.47	67.51	182.99	167.22
181.44	14.84	181.96	16.17	182.48	69.22	183.00	169.41
181.45	14.86	181.97	16.41	182.49	70.95		
181.46	14.88	181.98	16.71	182.50	72.70		
181.47	14.91	181.99	17.06	182.51	74.48		
181.48	14.93	182.00	17.46	182.52	76.29		
181.49	14.96	182.01	17.89	182.53	78.13		
181.50	14.98	182.02	18.36	182.54	79.99		
181.51	15.01	182.03	18.87	182.55	81.88		
181.52	15.03	182.04	19.41	182.56	83.53		
181.53	15.05	182.05	19.97	182.57	85.19		
181.54	15.08	182.06	20.57	182.58	86.87		
181.55	15.10	182.07	21.19	182.59	88.55		
181.56	15.13	182.08	21.84	182.60	90.26		
181.57	15.15	182.09	22.51	182.61	91.97		
181.58	15.17	182.10	23.21	182.62	93.70		
181.59	15.20	182.11	23.93	182.63	95.44		

Stage-Area-Storage for Pond B-17B: Basin #17B

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
179.00	6,855	0	179.52	7,468	3,724
179.01	6,867	69	179.53	7,479	3,799
179.02	6,879	137	179.54	7,491	3,873
179.03	6,890	206	179.55	7,503	3,948
179.04	6,902	275	179.56	7,515	4,024
179.05	6,914	344	179.57	7,526	4,099
179.06	6,926	413	179.58	7,538	4,174
179.07	6,937	483	179.59	7,550	4,249
179.08	6,949	552	179.60	7,562	4,325
179.09	6,961	622	179.61	7,574	4,401
179.10	6,973	691	179.62	7,585	4,477
179.11	6,985	761	179.63	7,597	4,552
179.12	6,996	831	179.64	7,609	4,628
179.13	7,008	901	179.65	7,621	4,705
179.14	7,020	971	179.66	7,632	4,781
179.15	7,032	1,042	179.67	7,644	4,857
179.16	7,043	1,112	179.68	7,656	4,934
179.17	7,055	1,182	179.69	7,668	5,010
179.18	7,067	1,253	179.70	7,680	5,087
179.19	7,079	1,324	179.71	7,691	5,164
179.20	7,091	1,395	179.72	7,703	5,241
179.21	7,102	1,466	179.73	7,715	5,318
179.22	7,114	1,537	179.74	7,727	5,395
179.23	7,126	1,608	179.75	7,739	5,473
179.24	7,138	1,679	179.76	7,750	5,550
179.25	7,150	1,751	179.77	7,762	5,628
179.26	7,161	1,822	179.78	7,774	5,705
179.27	7,173	1,894	179.79	7,786	5,783
179.28	7,185	1,966	179.80	7,797	5,861
179.29	7,197	2,037	179.81	7,809	5,939
179.30	7,208	2,110	179.82	7,821	6,017
179.31	7,220	2,182	179.83	7,833	6,095
179.32	7,232	2,254	179.84	7,845	6,174
179.33	7,244	2,326	179.85	7,856	6,252
179.34	7,256	2,399	179.86	7,868	6,331
179.35	7,267	2,471	179.87	7,880	6,410
179.36	7,279	2,544	179.88	7,892	6,489
179.37	7,291	2,617	179.89	7,903	6,567
179.38	7,303	2,690	179.90	7,915	6,647
179.39	7,314	2,763	179.91	7,927	6,726
179.40	7,326	2,836	179.92	7,939	6,805
179.41	7,338	2,910	179.93	7,951	6,885
179.42	7,350	2,983	179.94	7,962	6,964
179.43	7,362	3,057	179.95	7,974	7,044
179.44	7,373	3,130	179.96	7,986	7,124
179.45	7,385	3,204	179.97	7,998	7,204
179.46	7,397	3,278	179.98	8,009	7,284
179.47	7,409	3,352	179.99	8,021	7,364
179.48	7,420	3,426	180.00	8,033	7,444
179.49	7,432	3,500	180.01	8,045	7,524
179.50	7,444	3,575	180.02	8,058	7,605
179.51	7,456	3,649	180.03	8,070	7,686

Stage-Area-Storage for Pond B-17B: Basin #17B (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
180.04	8,082	7,766	180.56	8,725	12,136
180.05	8,095	7,847	180.57	8,737	12,223
180.06	8,107	7,928	180.58	8,749	12,311
180.07	8,119	8,009	180.59	8,762	12,398
180.08	8,132	8,091	180.60	8,774	12,486
180.09	8,144	8,172	180.61	8,786	12,574
180.10	8,156	8,253	180.62	8,799	12,662
180.11	8,169	8,335	180.63	8,811	12,750
180.12	8,181	8,417	180.64	8,823	12,838
180.13	8,194	8,499	180.65	8,836	12,926
180.14	8,206	8,581	180.66	8,848	13,015
180.15	8,218	8,663	180.67	8,860	13,103
180.16	8,231	8,745	180.68	8,873	13,192
180.17	8,243	8,827	180.69	8,885	13,281
180.18	8,255	8,910	180.70	8,897	13,370
180.19	8,268	8,993	180.71	8,910	13,459
180.20	8,280	9,075	180.72	8,922	13,548
180.21	8,292	9,158	180.73	8,935	13,637
180.22	8,305	9,241	180.74	8,947	13,727
180.23	8,317	9,324	180.75	8,959	13,816
180.24	8,329	9,407	180.76	8,972	13,906
180.25	8,342	9,491	180.77	8,984	13,996
180.26	8,354	9,574	180.78	8,996	14,085
180.27	8,366	9,658	180.79	9,009	14,175
180.28	8,379	9,742	180.80	9,021	14,266
180.29	8,391	9,826	180.81	9,033	14,356
180.30	8,404	9,909	180.82	9,046	14,446
180.31	8,416	9,994	180.83	9,058	14,537
180.32	8,428	10,078	180.84	9,070	14,627
180.33	8,441	10,162	180.85	9,083	14,718
180.34	8,453	10,247	180.86	9,095	14,809
180.35	8,465	10,331	180.87	9,107	14,900
180.36	8,478	10,416	180.88	9,120	14,991
180.37	8,490	10,501	180.89	9,132	15,082
180.38	8,502	10,586	180.90	9,145	15,174
180.39	8,515	10,671	180.91	9,157	15,265
180.40	8,527	10,756	180.92	9,169	15,357
180.41	8,539	10,841	180.93	9,182	15,449
180.42	8,552	10,927	180.94	9,194	15,541
180.43	8,564	11,012	180.95	9,206	15,633
180.44	8,576	11,098	180.96	9,219	15,725
180.45	8,589	11,184	180.97	9,231	15,817
180.46	8,601	11,270	180.98	9,243	15,909
180.47	8,613	11,356	180.99	9,256	16,002
180.48	8,626	11,442	181.00	9,268	16,095
180.49	8,638	11,528	181.01	9,281	16,187
180.50	8,651	11,615	181.02	9,294	16,280
180.51	8,663	11,701	181.03	9,307	16,373
180.52	8,675	11,788	181.04	9,320	16,466
180.53	8,688	11,875	181.05	9,333	16,560
180.54	8,700	11,962	181.06	9,346	16,653
180.55	8,712	12,049	181.07	9,358	16,746

Stage-Area-Storage for Pond B-17B: Basin #17B (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
181.08	9,371	16,840	181.60	10,043	21,888
181.09	9,384	16,934	181.61	10,056	21,988
181.10	9,397	17,028	181.62	10,069	22,089
181.11	9,410	17,122	181.63	10,082	22,190
181.12	9,423	17,216	181.64	10,095	22,291
181.13	9,436	17,310	181.65	10,108	22,392
181.14	9,449	17,405	181.66	10,121	22,493
181.15	9,462	17,499	181.67	10,134	22,594
181.16	9,475	17,594	181.68	10,147	22,695
181.17	9,488	17,689	181.69	10,159	22,797
181.18	9,501	17,784	181.70	10,172	22,899
181.19	9,513	17,879	181.71	10,185	23,000
181.20	9,526	17,974	181.72	10,198	23,102
181.21	9,539	18,069	181.73	10,211	23,204
181.22	9,552	18,165	181.74	10,224	23,307
181.23	9,565	18,260	181.75	10,237	23,409
181.24	9,578	18,356	181.76	10,250	23,511
181.25	9,591	18,452	181.77	10,263	23,614
181.26	9,604	18,548	181.78	10,276	23,717
181.27	9,617	18,644	181.79	10,289	23,819
181.28	9,630	18,740	181.80	10,302	23,922
181.29	9,643	18,837	181.81	10,315	24,025
181.30	9,656	18,933	181.82	10,327	24,129
181.31	9,669	19,030	181.83	10,340	24,232
181.32	9,681	19,126	181.84	10,353	24,335
181.33	9,694	19,223	181.85	10,366	24,439
181.34	9,707	19,320	181.86	10,379	24,543
181.35	9,720	19,417	181.87	10,392	24,647
181.36	9,733	19,515	181.88	10,405	24,751
181.37	9,746	19,612	181.89	10,418	24,855
181.38	9,759	19,710	181.90	10,431	24,959
181.39	9,772	19,807	181.91	10,444	25,063
181.40	9,785	19,905	181.92	10,457	25,168
181.41	9,798	20,003	181.93	10,470	25,272
181.42	9,811	20,101	181.94	10,482	25,377
181.43	9,824	20,199	181.95	10,495	25,482
181.44	9,836	20,297	181.96	10,508	25,587
181.45	9,849	20,396	181.97	10,521	25,692
181.46	9,862	20,494	181.98	10,534	25,798
181.47	9,875	20,593	181.99	10,547	25,903
181.48	9,888	20,692	182.00	10,560	26,009
181.49	9,901	20,791	182.01	10,573	26,114
181.50	9,914	20,890	182.02	10,587	26,220
181.51	9,927	20,989	182.03	10,600	26,326
181.52	9,940	21,089	182.04	10,614	26,432
181.53	9,953	21,188	182.05	10,627	26,538
181.54	9,966	21,288	182.06	10,641	26,645
181.55	9,979	21,387	182.07	10,654	26,751
181.56	9,992	21,487	182.08	10,668	26,858
181.57	10,004	21,587	182.09	10,681	26,964
181.58	10,017	21,687	182.10	10,695	27,071
181.59	10,030	21,787	182.11	10,708	27,178

Stage-Area-Storage for Pond B-17B: Basin #17B (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
182.12	10,722	27,285	182.64	11,422	33,043
182.13	10,735	27,393	182.65	11,436	33,157
182.14	10,749	27,500	182.66	11,449	33,271
182.15	10,762	27,608	182.67	11,462	33,386
182.16	10,776	27,715	182.68	11,476	33,501
182.17	10,789	27,823	182.69	11,489	33,616
182.18	10,802	27,931	182.70	11,503	33,731
182.19	10,816	28,039	182.71	11,516	33,846
182.20	10,829	28,147	182.72	11,530	33,961
182.21	10,843	28,256	182.73	11,543	34,076
182.22	10,856	28,364	182.74	11,557	34,192
182.23	10,870	28,473	182.75	11,570	34,307
182.24	10,883	28,582	182.76	11,584	34,423
182.25	10,897	28,691	182.77	11,597	34,539
182.26	10,910	28,800	182.78	11,611	34,655
182.27	10,924	28,909	182.79	11,624	34,771
182.28	10,937	29,018	182.80	11,638	34,888
182.29	10,951	29,128	182.81	11,651	35,004
182.30	10,964	29,237	182.82	11,665	35,121
182.31	10,978	29,347	182.83	11,678	35,237
182.32	10,991	29,457	182.84	11,691	35,354
182.33	11,005	29,567	182.85	11,705	35,471
182.34	11,018	29,677	182.86	11,718	35,588
182.35	11,031	29,787	182.87	11,732	35,705
182.36	11,045	29,897	182.88	11,745	35,823
182.37	11,058	30,008	182.89	11,759	35,940
182.38	11,072	30,119	182.90	11,772	36,058
182.39	11,085	30,229	182.91	11,786	36,176
182.40	11,099	30,340	182.92	11,799	36,294
182.41	11,112	30,451	182.93	11,813	36,412
182.42	11,126	30,563	182.94	11,826	36,530
182.43	11,139	30,674	182.95	11,840	36,648
182.44	11,153	30,785	182.96	11,853	36,767
182.45	11,166	30,897	182.97	11,867	36,885
182.46	11,180	31,009	182.98	11,880	37,004
182.47	11,193	31,120	182.99	11,894	37,123
182.48	11,207	31,232	183.00	11,907	37,242
182.49	11,220	31,345			
182.50	11,234	31,457			
182.51	11,247	31,569			
182.52	11,260	31,682			
182.53	11,274	31,794			
182.54	11,287	31,907			
182.55	11,301	32,020			
182.56	11,314	32,133			
182.57	11,328	32,247			
182.58	11,341	32,360			
182.59	11,355	32,473			
182.60	11,368	32,587			
182.61	11,382	32,701			
182.62	11,395	32,815			
182.63	11,409	32,929			

Summary for Pond B-2: Basin #2

Inflow Area = 1.894 ac, 38.23% Impervious, Inflow Depth = 9.08" for Future 100 yr event
 Inflow = 17.42 cfs @ 12.17 hrs, Volume= 1.433 af
 Outflow = 15.13 cfs @ 12.24 hrs, Volume= 0.874 af, Atten= 13%, Lag= 4.0 min
 Primary = 15.13 cfs @ 12.24 hrs, Volume= 0.874 af
 Routed to Pond B-1 : Basin #1

Routing by Stor-Ind method, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 Peak Elev= 211.75' @ 12.24 hrs Surf.Area= 10,130 sf Storage= 26,828 cf

Plug-Flow detention time= 210.0 min calculated for 0.873 af (61% of inflow)
 Center-of-Mass det. time= 100.9 min (879.0 - 778.1)

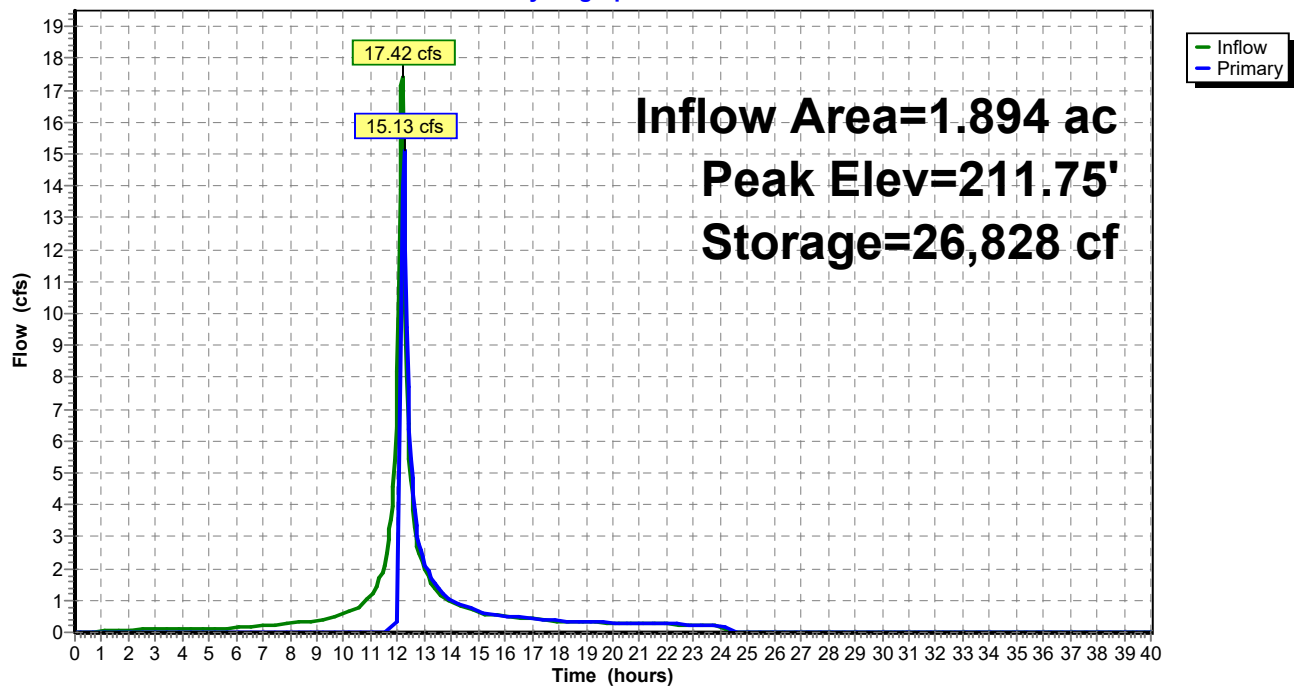
Volume	Invert	Avail.Storage	Storage Description
#1	208.30'	29,385 cf	Custom Stage Data (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
208.30	0	0	0
209.00	7,501	2,625	2,625
210.00	8,431	7,966	10,591
211.00	9,390	8,911	19,502
212.00	10,376	9,883	29,385

Device	Routing	Invert	Outlet Devices
#1	Primary	211.50'	50.0' long + 3.0 ' SideZ x 5.0' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 Coef. (English) 2.34 2.50 2.70 2.68 2.68 2.66 2.65 2.65 2.65 2.65 2.67 2.66 2.68 2.70 2.74 2.79 2.88

Primary OutFlow Max=14.74 cfs @ 12.24 hrs HW=211.75' (Free Discharge)

↑ **1=Broad-Crested Rectangular Weir** (Weir Controls 14.74 cfs @ 1.18 fps)

Pond B-2: Basin #2**Hydrograph**

Stage-Discharge for Pond B-2: Basin #2

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
208.30	0.00	208.82	0.00	209.34	0.00	209.86	0.00
208.31	0.00	208.83	0.00	209.35	0.00	209.87	0.00
208.32	0.00	208.84	0.00	209.36	0.00	209.88	0.00
208.33	0.00	208.85	0.00	209.37	0.00	209.89	0.00
208.34	0.00	208.86	0.00	209.38	0.00	209.90	0.00
208.35	0.00	208.87	0.00	209.39	0.00	209.91	0.00
208.36	0.00	208.88	0.00	209.40	0.00	209.92	0.00
208.37	0.00	208.89	0.00	209.41	0.00	209.93	0.00
208.38	0.00	208.90	0.00	209.42	0.00	209.94	0.00
208.39	0.00	208.91	0.00	209.43	0.00	209.95	0.00
208.40	0.00	208.92	0.00	209.44	0.00	209.96	0.00
208.41	0.00	208.93	0.00	209.45	0.00	209.97	0.00
208.42	0.00	208.94	0.00	209.46	0.00	209.98	0.00
208.43	0.00	208.95	0.00	209.47	0.00	209.99	0.00
208.44	0.00	208.96	0.00	209.48	0.00	210.00	0.00
208.45	0.00	208.97	0.00	209.49	0.00	210.01	0.00
208.46	0.00	208.98	0.00	209.50	0.00	210.02	0.00
208.47	0.00	208.99	0.00	209.51	0.00	210.03	0.00
208.48	0.00	209.00	0.00	209.52	0.00	210.04	0.00
208.49	0.00	209.01	0.00	209.53	0.00	210.05	0.00
208.50	0.00	209.02	0.00	209.54	0.00	210.06	0.00
208.51	0.00	209.03	0.00	209.55	0.00	210.07	0.00
208.52	0.00	209.04	0.00	209.56	0.00	210.08	0.00
208.53	0.00	209.05	0.00	209.57	0.00	210.09	0.00
208.54	0.00	209.06	0.00	209.58	0.00	210.10	0.00
208.55	0.00	209.07	0.00	209.59	0.00	210.11	0.00
208.56	0.00	209.08	0.00	209.60	0.00	210.12	0.00
208.57	0.00	209.09	0.00	209.61	0.00	210.13	0.00
208.58	0.00	209.10	0.00	209.62	0.00	210.14	0.00
208.59	0.00	209.11	0.00	209.63	0.00	210.15	0.00
208.60	0.00	209.12	0.00	209.64	0.00	210.16	0.00
208.61	0.00	209.13	0.00	209.65	0.00	210.17	0.00
208.62	0.00	209.14	0.00	209.66	0.00	210.18	0.00
208.63	0.00	209.15	0.00	209.67	0.00	210.19	0.00
208.64	0.00	209.16	0.00	209.68	0.00	210.20	0.00
208.65	0.00	209.17	0.00	209.69	0.00	210.21	0.00
208.66	0.00	209.18	0.00	209.70	0.00	210.22	0.00
208.67	0.00	209.19	0.00	209.71	0.00	210.23	0.00
208.68	0.00	209.20	0.00	209.72	0.00	210.24	0.00
208.69	0.00	209.21	0.00	209.73	0.00	210.25	0.00
208.70	0.00	209.22	0.00	209.74	0.00	210.26	0.00
208.71	0.00	209.23	0.00	209.75	0.00	210.27	0.00
208.72	0.00	209.24	0.00	209.76	0.00	210.28	0.00
208.73	0.00	209.25	0.00	209.77	0.00	210.29	0.00
208.74	0.00	209.26	0.00	209.78	0.00	210.30	0.00
208.75	0.00	209.27	0.00	209.79	0.00	210.31	0.00
208.76	0.00	209.28	0.00	209.80	0.00	210.32	0.00
208.77	0.00	209.29	0.00	209.81	0.00	210.33	0.00
208.78	0.00	209.30	0.00	209.82	0.00	210.34	0.00
208.79	0.00	209.31	0.00	209.83	0.00	210.35	0.00
208.80	0.00	209.32	0.00	209.84	0.00	210.36	0.00
208.81	0.00	209.33	0.00	209.85	0.00	210.37	0.00

Stage-Discharge for Pond B-2: Basin #2 (continued)

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
210.38	0.00	210.90	0.00	211.42	0.00	211.94	37.85
210.39	0.00	210.91	0.00	211.43	0.00	211.95	39.32
210.40	0.00	210.92	0.00	211.44	0.00	211.96	40.82
210.41	0.00	210.93	0.00	211.45	0.00	211.97	42.34
210.42	0.00	210.94	0.00	211.46	0.00	211.98	43.89
210.43	0.00	210.95	0.00	211.47	0.00	211.99	45.46
210.44	0.00	210.96	0.00	211.48	0.00	212.00	47.07
210.45	0.00	210.97	0.00	211.49	0.00		
210.46	0.00	210.98	0.00	211.50	0.00		
210.47	0.00	210.99	0.00	211.51	0.12		
210.48	0.00	211.00	0.00	211.52	0.33		
210.49	0.00	211.01	0.00	211.53	0.61		
210.50	0.00	211.02	0.00	211.54	0.94		
210.51	0.00	211.03	0.00	211.55	1.31		
210.52	0.00	211.04	0.00	211.56	1.72		
210.53	0.00	211.05	0.00	211.57	2.17		
210.54	0.00	211.06	0.00	211.58	2.66		
210.55	0.00	211.07	0.00	211.59	3.17		
210.56	0.00	211.08	0.00	211.60	3.72		
210.57	0.00	211.09	0.00	211.61	4.29		
210.58	0.00	211.10	0.00	211.62	4.89		
210.59	0.00	211.11	0.00	211.63	5.52		
210.60	0.00	211.12	0.00	211.64	6.17		
210.61	0.00	211.13	0.00	211.65	6.85		
210.62	0.00	211.14	0.00	211.66	7.55		
210.63	0.00	211.15	0.00	211.67	8.27		
210.64	0.00	211.16	0.00	211.68	9.01		
210.65	0.00	211.17	0.00	211.69	9.78		
210.66	0.00	211.18	0.00	211.70	10.57		
210.67	0.00	211.19	0.00	211.71	11.41		
210.68	0.00	211.20	0.00	211.72	12.28		
210.69	0.00	211.21	0.00	211.73	13.18		
210.70	0.00	211.22	0.00	211.74	14.11		
210.71	0.00	211.23	0.00	211.75	15.05		
210.72	0.00	211.24	0.00	211.76	16.03		
210.73	0.00	211.25	0.00	211.77	17.03		
210.74	0.00	211.26	0.00	211.78	18.05		
210.75	0.00	211.27	0.00	211.79	19.10		
210.76	0.00	211.28	0.00	211.80	20.17		
210.77	0.00	211.29	0.00	211.81	21.27		
210.78	0.00	211.30	0.00	211.82	22.39		
210.79	0.00	211.31	0.00	211.83	23.53		
210.80	0.00	211.32	0.00	211.84	24.70		
210.81	0.00	211.33	0.00	211.85	25.90		
210.82	0.00	211.34	0.00	211.86	27.11		
210.83	0.00	211.35	0.00	211.87	28.36		
210.84	0.00	211.36	0.00	211.88	29.62		
210.85	0.00	211.37	0.00	211.89	30.92		
210.86	0.00	211.38	0.00	211.90	32.23		
210.87	0.00	211.39	0.00	211.91	33.60		
210.88	0.00	211.40	0.00	211.92	34.99		
210.89	0.00	211.41	0.00	211.93	36.41		

Stage-Area-Storage for Pond B-2: Basin #2

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
208.30	0	0	208.82	5,572	1,449
208.31	107	1	208.83	5,679	1,505
208.32	214	2	208.84	5,786	1,562
208.33	321	5	208.85	5,894	1,621
208.34	429	9	208.86	6,001	1,680
208.35	536	13	208.87	6,108	1,741
208.36	643	19	208.88	6,215	1,802
208.37	750	26	208.89	6,322	1,865
208.38	857	34	208.90	6,429	1,929
208.39	964	43	208.91	6,537	1,994
208.40	1,072	54	208.92	6,644	2,060
208.41	1,179	65	208.93	6,751	2,127
208.42	1,286	77	208.94	6,858	2,195
208.43	1,393	91	208.95	6,965	2,264
208.44	1,500	105	208.96	7,072	2,334
208.45	1,607	121	208.97	7,180	2,405
208.46	1,715	137	208.98	7,287	2,477
208.47	1,822	155	208.99	7,394	2,551
208.48	1,929	174	209.00	7,501	2,625
208.49	2,036	193	209.01	7,510	2,700
208.50	2,143	214	209.02	7,520	2,776
208.51	2,250	236	209.03	7,529	2,851
208.52	2,357	259	209.04	7,538	2,926
208.53	2,465	283	209.05	7,548	3,002
208.54	2,572	309	209.06	7,557	3,077
208.55	2,679	335	209.07	7,566	3,153
208.56	2,786	362	209.08	7,575	3,228
208.57	2,893	391	209.09	7,585	3,304
208.58	3,000	420	209.10	7,594	3,380
208.59	3,108	451	209.11	7,603	3,456
208.60	3,215	482	209.12	7,613	3,532
208.61	3,322	515	209.13	7,622	3,608
208.62	3,429	549	209.14	7,631	3,685
208.63	3,536	583	209.15	7,641	3,761
208.64	3,643	619	209.16	7,650	3,837
208.65	3,751	656	209.17	7,659	3,914
208.66	3,858	694	209.18	7,668	3,991
208.67	3,965	733	209.19	7,678	4,067
208.68	4,072	774	209.20	7,687	4,144
208.69	4,179	815	209.21	7,696	4,221
208.70	4,286	857	209.22	7,706	4,298
208.71	4,393	901	209.23	7,715	4,375
208.72	4,501	945	209.24	7,724	4,452
208.73	4,608	991	209.25	7,734	4,530
208.74	4,715	1,037	209.26	7,743	4,607
208.75	4,822	1,085	209.27	7,752	4,685
208.76	4,929	1,134	209.28	7,761	4,762
208.77	5,036	1,184	209.29	7,771	4,840
208.78	5,144	1,234	209.30	7,780	4,918
208.79	5,251	1,286	209.31	7,789	4,995
208.80	5,358	1,339	209.32	7,799	5,073
208.81	5,465	1,394	209.33	7,808	5,151

Stage-Area-Storage for Pond B-2: Basin #2 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
209.34	7,817	5,229	209.86	8,301	9,420
209.35	7,827	5,308	209.87	8,310	9,503
209.36	7,836	5,386	209.88	8,319	9,586
209.37	7,845	5,464	209.89	8,329	9,670
209.38	7,854	5,543	209.90	8,338	9,753
209.39	7,864	5,621	209.91	8,347	9,836
209.40	7,873	5,700	209.92	8,357	9,920
209.41	7,882	5,779	209.93	8,366	10,003
209.42	7,892	5,858	209.94	8,375	10,087
209.43	7,901	5,937	209.95	8,385	10,171
209.44	7,910	6,016	209.96	8,394	10,255
209.45	7,920	6,095	209.97	8,403	10,339
209.46	7,929	6,174	209.98	8,412	10,423
209.47	7,938	6,254	209.99	8,422	10,507
209.48	7,947	6,333	210.00	8,431	10,591
209.49	7,957	6,412	210.01	8,441	10,676
209.50	7,966	6,492	210.02	8,450	10,760
209.51	7,975	6,572	210.03	8,460	10,845
209.52	7,985	6,652	210.04	8,469	10,929
209.53	7,994	6,731	210.05	8,479	11,014
209.54	8,003	6,811	210.06	8,489	11,099
209.55	8,013	6,892	210.07	8,498	11,184
209.56	8,022	6,972	210.08	8,508	11,269
209.57	8,031	7,052	210.09	8,517	11,354
209.58	8,040	7,132	210.10	8,527	11,439
209.59	8,050	7,213	210.11	8,536	11,525
209.60	8,059	7,293	210.12	8,546	11,610
209.61	8,068	7,374	210.13	8,556	11,695
209.62	8,078	7,455	210.14	8,565	11,781
209.63	8,087	7,536	210.15	8,575	11,867
209.64	8,096	7,616	210.16	8,584	11,953
209.65	8,106	7,697	210.17	8,594	12,038
209.66	8,115	7,779	210.18	8,604	12,124
209.67	8,124	7,860	210.19	8,613	12,211
209.68	8,133	7,941	210.20	8,623	12,297
209.69	8,143	8,022	210.21	8,632	12,383
209.70	8,152	8,104	210.22	8,642	12,469
209.71	8,161	8,185	210.23	8,652	12,556
209.72	8,171	8,267	210.24	8,661	12,642
209.73	8,180	8,349	210.25	8,671	12,729
209.74	8,189	8,431	210.26	8,680	12,816
209.75	8,199	8,513	210.27	8,690	12,903
209.76	8,208	8,595	210.28	8,700	12,990
209.77	8,217	8,677	210.29	8,709	13,077
209.78	8,226	8,759	210.30	8,719	13,164
209.79	8,236	8,841	210.31	8,728	13,251
209.80	8,245	8,924	210.32	8,738	13,338
209.81	8,254	9,006	210.33	8,747	13,426
209.82	8,264	9,089	210.34	8,757	13,513
209.83	8,273	9,172	210.35	8,767	13,601
209.84	8,282	9,254	210.36	8,776	13,689
209.85	8,292	9,337	210.37	8,786	13,776

Stage-Area-Storage for Pond B-2: Basin #2 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
210.38	8,795	13,864	210.90	9,294	18,568
210.39	8,805	13,952	210.91	9,304	18,661
210.40	8,815	14,040	210.92	9,313	18,754
210.41	8,824	14,129	210.93	9,323	18,847
210.42	8,834	14,217	210.94	9,332	18,940
210.43	8,843	14,305	210.95	9,342	19,034
210.44	8,853	14,394	210.96	9,352	19,127
210.45	8,863	14,482	210.97	9,361	19,221
210.46	8,872	14,571	210.98	9,371	19,314
210.47	8,882	14,660	210.99	9,380	19,408
210.48	8,891	14,749	211.00	9,390	19,502
210.49	8,901	14,838	211.01	9,400	19,596
210.50	8,911	14,927	211.02	9,410	19,690
210.51	8,920	15,016	211.03	9,420	19,784
210.52	8,930	15,105	211.04	9,429	19,878
210.53	8,939	15,194	211.05	9,439	19,973
210.54	8,949	15,284	211.06	9,449	20,067
210.55	8,958	15,373	211.07	9,459	20,162
210.56	8,968	15,463	211.08	9,469	20,256
210.57	8,978	15,553	211.09	9,479	20,351
210.58	8,987	15,643	211.10	9,489	20,446
210.59	8,997	15,733	211.11	9,498	20,541
210.60	9,006	15,823	211.12	9,508	20,636
210.61	9,016	15,913	211.13	9,518	20,731
210.62	9,026	16,003	211.14	9,528	20,826
210.63	9,035	16,093	211.15	9,538	20,921
210.64	9,045	16,184	211.16	9,548	21,017
210.65	9,054	16,274	211.17	9,558	21,112
210.66	9,064	16,365	211.18	9,567	21,208
210.67	9,074	16,455	211.19	9,577	21,304
210.68	9,083	16,546	211.20	9,587	21,400
210.69	9,093	16,637	211.21	9,597	21,495
210.70	9,102	16,728	211.22	9,607	21,592
210.71	9,112	16,819	211.23	9,617	21,688
210.72	9,121	16,910	211.24	9,627	21,784
210.73	9,131	17,002	211.25	9,637	21,880
210.74	9,141	17,093	211.26	9,646	21,977
210.75	9,150	17,184	211.27	9,656	22,073
210.76	9,160	17,276	211.28	9,666	22,170
210.77	9,169	17,368	211.29	9,676	22,266
210.78	9,179	17,459	211.30	9,686	22,363
210.79	9,189	17,551	211.31	9,696	22,460
210.80	9,198	17,643	211.32	9,706	22,557
210.81	9,208	17,735	211.33	9,715	22,654
210.82	9,217	17,827	211.34	9,725	22,751
210.83	9,227	17,919	211.35	9,735	22,849
210.84	9,237	18,012	211.36	9,745	22,946
210.85	9,246	18,104	211.37	9,755	23,044
210.86	9,256	18,197	211.38	9,765	23,141
210.87	9,265	18,289	211.39	9,775	23,239
210.88	9,275	18,382	211.40	9,784	23,337
210.89	9,285	18,475	211.41	9,794	23,435

Stage-Area-Storage for Pond B-2: Basin #2 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
211.42	9,804	23,533	211.94	10,317	28,764
211.43	9,814	23,631	211.95	10,327	28,867
211.44	9,824	23,729	211.96	10,337	28,971
211.45	9,834	23,827	211.97	10,346	29,074
211.46	9,844	23,926	211.98	10,356	29,178
211.47	9,853	24,024	211.99	10,366	29,281
211.48	9,863	24,123	212.00	10,376	29,385
211.49	9,873	24,221			
211.50	9,883	24,320			
211.51	9,893	24,419			
211.52	9,903	24,518			
211.53	9,913	24,617			
211.54	9,922	24,716			
211.55	9,932	24,815			
211.56	9,942	24,915			
211.57	9,952	25,014			
211.58	9,962	25,114			
211.59	9,972	25,214			
211.60	9,982	25,313			
211.61	9,991	25,413			
211.62	10,001	25,513			
211.63	10,011	25,613			
211.64	10,021	25,713			
211.65	10,031	25,814			
211.66	10,041	25,914			
211.67	10,051	26,014			
211.68	10,060	26,115			
211.69	10,070	26,216			
211.70	10,080	26,316			
211.71	10,090	26,417			
211.72	10,100	26,518			
211.73	10,110	26,619			
211.74	10,120	26,720			
211.75	10,130	26,822			
211.76	10,139	26,923			
211.77	10,149	27,024			
211.78	10,159	27,126			
211.79	10,169	27,228			
211.80	10,179	27,329			
211.81	10,189	27,431			
211.82	10,199	27,533			
211.83	10,208	27,635			
211.84	10,218	27,737			
211.85	10,228	27,840			
211.86	10,238	27,942			
211.87	10,248	28,044			
211.88	10,258	28,147			
211.89	10,268	28,249			
211.90	10,277	28,352			
211.91	10,287	28,455			
211.92	10,297	28,558			
211.93	10,307	28,661			

Summary for Pond B-3: Basin #3

Inflow Area = 1.554 ac, 38.35% Impervious, Inflow Depth = 9.08" for Future 100 yr event
 Inflow = 14.29 cfs @ 12.17 hrs, Volume= 1.176 af
 Outflow = 0.66 cfs @ 14.44 hrs, Volume= 0.727 af, Atten= 95%, Lag= 136.1 min
 Primary = 0.66 cfs @ 14.44 hrs, Volume= 0.727 af
 Routed to Link PDA-1 : Proposed Drainage Area #1

Routing by Stor-Ind method, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 Peak Elev= 215.60' @ 14.44 hrs Surf.Area= 17,109 sf Storage= 35,107 cf

Plug-Flow detention time= 697.8 min calculated for 0.727 af (62% of inflow)
 Center-of-Mass det. time= 588.8 min (1,366.7 - 778.0)

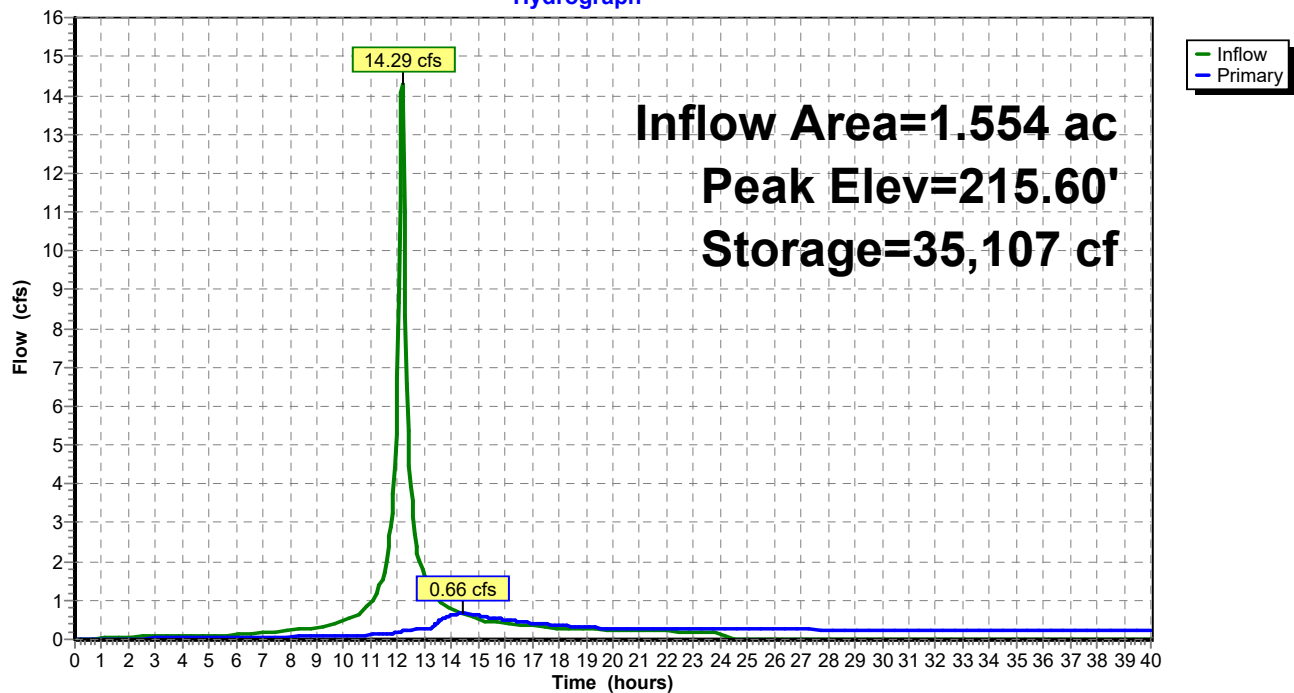
Volume	Invert	Avail.Storage	Storage Description
#1	213.00'	56,991 cf	Custom Stage Data (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
213.00	9,992	0	0
214.00	12,685	11,339	11,339
215.00	15,435	14,060	25,399
216.00	18,241	16,838	42,237
216.75	21,104	14,754	56,991

Device	Routing	Invert	Outlet Devices
#1	Primary	212.30'	18.0" Round Culvert L= 151.0' Ke= 0.500 Inlet / Outlet Invert= 212.30' / 202.00' S= 0.0682 ' S= 0.0682 ' Cc= 0.900 n= 0.013 Concrete pipe, straight & clean, Flow Area= 1.77 sf
#2	Device 1	212.90'	2.5" Vert. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#3	Device 1	215.50'	4.0' long Sharp-Crested Rectangular Weir 2 End Contraction(s)
#4	Primary	216.70'	50.0' long + 3.0 ' SideZ x 5.0' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 Coef. (English) 2.34 2.50 2.70 2.68 2.68 2.66 2.65 2.65 2.65 2.65 2.67 2.66 2.68 2.70 2.74 2.79 2.88

Primary OutFlow Max=0.66 cfs @ 14.44 hrs HW=215.60' (Free Discharge)

1=Culvert (Passes 0.66 cfs of 13.58 cfs potential flow)
 2=Orifice/Grate (Orifice Controls 0.26 cfs @ 7.75 fps)
 3=Sharp-Crested Rectangular Weir (Weir Controls 0.39 cfs @ 1.02 fps)
 4=Broad-Crested Rectangular Weir (Controls 0.00 cfs)

Pond B-3: Basin #3**Hydrograph**

Stage-Discharge for Pond B-3: Basin #3

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
213.00	0.00	213.52	0.12	214.04	0.17	214.56	0.20
213.01	0.02	213.53	0.12	214.05	0.17	214.57	0.21
213.02	0.02	213.54	0.12	214.06	0.17	214.58	0.21
213.03	0.03	213.55	0.12	214.07	0.17	214.59	0.21
213.04	0.03	213.56	0.12	214.08	0.17	214.60	0.21
213.05	0.03	213.57	0.12	214.09	0.17	214.61	0.21
213.06	0.04	213.58	0.12	214.10	0.17	214.62	0.21
213.07	0.04	213.59	0.13	214.11	0.17	214.63	0.21
213.08	0.05	213.60	0.13	214.12	0.17	214.64	0.21
213.09	0.05	213.61	0.13	214.13	0.17	214.65	0.21
213.10	0.05	213.62	0.13	214.14	0.17	214.66	0.21
213.11	0.05	213.63	0.13	214.15	0.18	214.67	0.21
213.12	0.06	213.64	0.13	214.16	0.18	214.68	0.21
213.13	0.06	213.65	0.13	214.17	0.18	214.69	0.21
213.14	0.06	213.66	0.13	214.18	0.18	214.70	0.21
213.15	0.06	213.67	0.13	214.19	0.18	214.71	0.21
213.16	0.06	213.68	0.13	214.20	0.18	214.72	0.22
213.17	0.07	213.69	0.14	214.21	0.18	214.73	0.22
213.18	0.07	213.70	0.14	214.22	0.18	214.74	0.22
213.19	0.07	213.71	0.14	214.23	0.18	214.75	0.22
213.20	0.07	213.72	0.14	214.24	0.18	214.76	0.22
213.21	0.07	213.73	0.14	214.25	0.18	214.77	0.22
213.22	0.08	213.74	0.14	214.26	0.18	214.78	0.22
213.23	0.08	213.75	0.14	214.27	0.18	214.79	0.22
213.24	0.08	213.76	0.14	214.28	0.19	214.80	0.22
213.25	0.08	213.77	0.14	214.29	0.19	214.81	0.22
213.26	0.08	213.78	0.14	214.30	0.19	214.82	0.22
213.27	0.08	213.79	0.15	214.31	0.19	214.83	0.22
213.28	0.09	213.80	0.15	214.32	0.19	214.84	0.22
213.29	0.09	213.81	0.15	214.33	0.19	214.85	0.22
213.30	0.09	213.82	0.15	214.34	0.19	214.86	0.22
213.31	0.09	213.83	0.15	214.35	0.19	214.87	0.22
213.32	0.09	213.84	0.15	214.36	0.19	214.88	0.22
213.33	0.09	213.85	0.15	214.37	0.19	214.89	0.23
213.34	0.10	213.86	0.15	214.38	0.19	214.90	0.23
213.35	0.10	213.87	0.15	214.39	0.19	214.91	0.23
213.36	0.10	213.88	0.15	214.40	0.19	214.92	0.23
213.37	0.10	213.89	0.15	214.41	0.19	214.93	0.23
213.38	0.10	213.90	0.16	214.42	0.20	214.94	0.23
213.39	0.10	213.91	0.16	214.43	0.20	214.95	0.23
213.40	0.10	213.92	0.16	214.44	0.20	214.96	0.23
213.41	0.10	213.93	0.16	214.45	0.20	214.97	0.23
213.42	0.11	213.94	0.16	214.46	0.20	214.98	0.23
213.43	0.11	213.95	0.16	214.47	0.20	214.99	0.23
213.44	0.11	213.96	0.16	214.48	0.20	215.00	0.23
213.45	0.11	213.97	0.16	214.49	0.20	215.01	0.23
213.46	0.11	213.98	0.16	214.50	0.20	215.02	0.23
213.47	0.11	213.99	0.16	214.51	0.20	215.03	0.23
213.48	0.11	214.00	0.16	214.52	0.20	215.04	0.23
213.49	0.11	214.01	0.16	214.53	0.20	215.05	0.23
213.50	0.12	214.02	0.17	214.54	0.20	215.06	0.24
213.51	0.12	214.03	0.17	214.55	0.20	215.07	0.24

Stage-Discharge for Pond B-3: Basin #3 (continued)

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
215.08	0.24	215.60	0.68	216.12	6.48	216.64	15.33
215.09	0.24	215.61	0.74	216.13	6.62	216.65	15.52
215.10	0.24	215.62	0.81	216.14	6.77	216.66	15.71
215.11	0.24	215.63	0.88	216.15	6.92	216.67	15.90
215.12	0.24	215.64	0.95	216.16	7.07	216.68	16.09
215.13	0.24	215.65	1.02	216.17	7.23	216.69	16.23
215.14	0.24	215.66	1.10	216.18	7.38	216.70	16.26
215.15	0.24	215.67	1.18	216.19	7.53	216.71	16.40
215.16	0.24	215.68	1.26	216.20	7.69	216.72	16.63
215.17	0.24	215.69	1.34	216.21	7.84	216.73	16.93
215.18	0.24	215.70	1.43	216.22	8.00	216.74	17.28
215.19	0.24	215.71	1.52	216.23	8.16	216.75	17.68
215.20	0.24	215.72	1.61	216.24	8.31		
215.21	0.24	215.73	1.70	216.25	8.47		
215.22	0.24	215.74	1.79	216.26	8.63		
215.23	0.24	215.75	1.89	216.27	8.79		
215.24	0.25	215.76	1.98	216.28	8.96		
215.25	0.25	215.77	2.08	216.29	9.12		
215.26	0.25	215.78	2.18	216.30	9.28		
215.27	0.25	215.79	2.29	216.31	9.45		
215.28	0.25	215.80	2.39	216.32	9.61		
215.29	0.25	215.81	2.50	216.33	9.78		
215.30	0.25	215.82	2.61	216.34	9.95		
215.31	0.25	215.83	2.71	216.35	10.11		
215.32	0.25	215.84	2.83	216.36	10.28		
215.33	0.25	215.85	2.94	216.37	10.45		
215.34	0.25	215.86	3.05	216.38	10.62		
215.35	0.25	215.87	3.17	216.39	10.80		
215.36	0.25	215.88	3.28	216.40	10.97		
215.37	0.25	215.89	3.40	216.41	11.14		
215.38	0.25	215.90	3.52	216.42	11.31		
215.39	0.25	215.91	3.64	216.43	11.49		
215.40	0.25	215.92	3.77	216.44	11.66		
215.41	0.25	215.93	3.89	216.45	11.84		
215.42	0.26	215.94	4.01	216.46	12.02		
215.43	0.26	215.95	4.14	216.47	12.20		
215.44	0.26	215.96	4.27	216.48	12.37		
215.45	0.26	215.97	4.40	216.49	12.55		
215.46	0.26	215.98	4.53	216.50	12.73		
215.47	0.26	215.99	4.66	216.51	12.91		
215.48	0.26	216.00	4.79	216.52	13.09		
215.49	0.26	216.01	4.93	216.53	13.28		
215.50	0.26	216.02	5.06	216.54	13.46		
215.51	0.27	216.03	5.20	216.55	13.64		
215.52	0.30	216.04	5.34	216.56	13.83		
215.53	0.33	216.05	5.47	216.57	14.01		
215.54	0.37	216.06	5.61	216.58	14.20		
215.55	0.41	216.07	5.76	216.59	14.38		
215.56	0.45	216.08	5.90	216.60	14.57		
215.57	0.50	216.09	6.04	216.61	14.76		
215.58	0.56	216.10	6.19	216.62	14.95		
215.59	0.62	216.11	6.33	216.63	15.14		

Stage-Area-Storage for Pond B-3: Basin #3

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
213.00	9,992	0	213.52	11,392	5,560
213.01	10,019	100	213.53	11,419	5,674
213.02	10,046	200	213.54	11,446	5,788
213.03	10,073	301	213.55	11,473	5,903
213.04	10,100	402	213.56	11,500	6,018
213.05	10,127	503	213.57	11,527	6,133
213.06	10,154	604	213.58	11,554	6,248
213.07	10,181	706	213.59	11,581	6,364
213.08	10,207	808	213.60	11,608	6,480
213.09	10,234	910	213.61	11,635	6,596
213.10	10,261	1,013	213.62	11,662	6,713
213.11	10,288	1,115	213.63	11,689	6,829
213.12	10,315	1,218	213.64	11,716	6,946
213.13	10,342	1,322	213.65	11,742	7,064
213.14	10,369	1,425	213.66	11,769	7,181
213.15	10,396	1,529	213.67	11,796	7,299
213.16	10,423	1,633	213.68	11,823	7,417
213.17	10,450	1,738	213.69	11,850	7,536
213.18	10,477	1,842	213.70	11,877	7,654
213.19	10,504	1,947	213.71	11,904	7,773
213.20	10,531	2,052	213.72	11,931	7,892
213.21	10,558	2,158	213.73	11,958	8,012
213.22	10,584	2,263	213.74	11,985	8,131
213.23	10,611	2,369	213.75	12,012	8,251
213.24	10,638	2,476	213.76	12,039	8,372
213.25	10,665	2,582	213.77	12,066	8,492
213.26	10,692	2,689	213.78	12,093	8,613
213.27	10,719	2,796	213.79	12,119	8,734
213.28	10,746	2,903	213.80	12,146	8,855
213.29	10,773	3,011	213.81	12,173	8,977
213.30	10,800	3,119	213.82	12,200	9,099
213.31	10,827	3,227	213.83	12,227	9,221
213.32	10,854	3,335	213.84	12,254	9,343
213.33	10,881	3,444	213.85	12,281	9,466
213.34	10,908	3,553	213.86	12,308	9,589
213.35	10,935	3,662	213.87	12,335	9,712
213.36	10,961	3,772	213.88	12,362	9,836
213.37	10,988	3,881	213.89	12,389	9,959
213.38	11,015	3,991	213.90	12,416	10,083
213.39	11,042	4,102	213.91	12,443	10,208
213.40	11,069	4,212	213.92	12,470	10,332
213.41	11,096	4,323	213.93	12,496	10,457
213.42	11,123	4,434	213.94	12,523	10,582
213.43	11,150	4,546	213.95	12,550	10,708
213.44	11,177	4,657	213.96	12,577	10,833
213.45	11,204	4,769	213.97	12,604	10,959
213.46	11,231	4,881	213.98	12,631	11,085
213.47	11,258	4,994	213.99	12,658	11,212
213.48	11,285	5,106	214.00	12,685	11,339
213.49	11,312	5,219	214.01	12,712	11,465
213.50	11,339	5,333	214.02	12,740	11,593
213.51	11,365	5,446	214.03	12,768	11,720

Stage-Area-Storage for Pond B-3: Basin #3 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
214.04	12,795	11,848	214.56	14,225	18,873
214.05	12,823	11,976	214.57	14,252	19,016
214.06	12,850	12,105	214.58	14,280	19,158
214.07	12,877	12,233	214.59	14,308	19,301
214.08	12,905	12,362	214.60	14,335	19,444
214.09	12,933	12,491	214.61	14,363	19,588
214.10	12,960	12,621	214.62	14,390	19,732
214.11	12,988	12,750	214.63	14,417	19,876
214.12	13,015	12,881	214.64	14,445	20,020
214.13	13,042	13,011	214.65	14,473	20,165
214.14	13,070	13,141	214.66	14,500	20,310
214.15	13,098	13,272	214.67	14,527	20,455
214.16	13,125	13,403	214.68	14,555	20,600
214.17	13,152	13,535	214.69	14,582	20,746
214.18	13,180	13,666	214.70	14,610	20,892
214.19	13,207	13,798	214.71	14,638	21,038
214.20	13,235	13,930	214.72	14,665	21,184
214.21	13,263	14,063	214.73	14,692	21,331
214.22	13,290	14,196	214.74	14,720	21,478
214.23	13,317	14,329	214.75	14,748	21,626
214.24	13,345	14,462	214.76	14,775	21,773
214.25	13,373	14,596	214.77	14,803	21,921
214.26	13,400	14,730	214.78	14,830	22,069
214.27	13,428	14,864	214.79	14,857	22,218
214.28	13,455	14,998	214.80	14,885	22,367
214.29	13,482	15,133	214.81	14,913	22,515
214.30	13,510	15,268	214.82	14,940	22,665
214.31	13,538	15,403	214.83	14,968	22,814
214.32	13,565	15,538	214.84	14,995	22,964
214.33	13,593	15,674	214.85	15,022	23,114
214.34	13,620	15,810	214.86	15,050	23,265
214.35	13,647	15,947	214.87	15,078	23,415
214.36	13,675	16,083	214.88	15,105	23,566
214.37	13,703	16,220	214.89	15,132	23,717
214.38	13,730	16,357	214.90	15,160	23,869
214.39	13,757	16,495	214.91	15,187	24,020
214.40	13,785	16,633	214.92	15,215	24,172
214.41	13,812	16,770	214.93	15,243	24,325
214.42	13,840	16,909	214.94	15,270	24,477
214.43	13,868	17,047	214.95	15,297	24,630
214.44	13,895	17,186	214.96	15,325	24,783
214.45	13,922	17,325	214.97	15,352	24,937
214.46	13,950	17,465	214.98	15,380	25,090
214.47	13,977	17,604	214.99	15,408	25,244
214.48	14,005	17,744	215.00	15,435	25,399
214.49	14,033	17,884	215.01	15,463	25,553
214.50	14,060	18,025	215.02	15,491	25,708
214.51	14,087	18,165	215.03	15,519	25,863
214.52	14,115	18,307	215.04	15,547	26,018
214.53	14,143	18,448	215.05	15,575	26,174
214.54	14,170	18,589	215.06	15,603	26,330
214.55	14,198	18,731	215.07	15,631	26,486

Stage-Area-Storage for Pond B-3: Basin #3 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
215.08	15,659	26,642	215.60	17,119	35,165
215.09	15,688	26,799	215.61	17,147	35,336
215.10	15,716	26,956	215.62	17,175	35,508
215.11	15,744	27,113	215.63	17,203	35,679
215.12	15,772	27,271	215.64	17,231	35,852
215.13	15,800	27,429	215.65	17,259	36,024
215.14	15,828	27,587	215.66	17,287	36,197
215.15	15,856	27,745	215.67	17,315	36,370
215.16	15,884	27,904	215.68	17,343	36,543
215.17	15,912	28,063	215.69	17,371	36,717
215.18	15,940	28,222	215.70	17,399	36,890
215.19	15,968	28,382	215.71	17,427	37,065
215.20	15,996	28,542	215.72	17,455	37,239
215.21	16,024	28,702	215.73	17,483	37,414
215.22	16,052	28,862	215.74	17,511	37,589
215.23	16,080	29,023	215.75	17,540	37,764
215.24	16,108	29,184	215.76	17,568	37,939
215.25	16,137	29,345	215.77	17,596	38,115
215.26	16,165	29,506	215.78	17,624	38,291
215.27	16,193	29,668	215.79	17,652	38,468
215.28	16,221	29,830	215.80	17,680	38,644
215.29	16,249	29,993	215.81	17,708	38,821
215.30	16,277	30,155	215.82	17,736	38,999
215.31	16,305	30,318	215.83	17,764	39,176
215.32	16,333	30,481	215.84	17,792	39,354
215.33	16,361	30,645	215.85	17,820	39,532
215.34	16,389	30,809	215.86	17,848	39,710
215.35	16,417	30,973	215.87	17,876	39,889
215.36	16,445	31,137	215.88	17,904	40,068
215.37	16,473	31,302	215.89	17,932	40,247
215.38	16,501	31,466	215.90	17,960	40,426
215.39	16,529	31,632	215.91	17,988	40,606
215.40	16,557	31,797	215.92	18,017	40,786
215.41	16,585	31,963	215.93	18,045	40,967
215.42	16,614	32,129	215.94	18,073	41,147
215.43	16,642	32,295	215.95	18,101	41,328
215.44	16,670	32,462	215.96	18,129	41,509
215.45	16,698	32,628	215.97	18,157	41,691
215.46	16,726	32,795	215.98	18,185	41,872
215.47	16,754	32,963	215.99	18,213	42,054
215.48	16,782	33,131	216.00	18,241	42,237
215.49	16,810	33,299	216.01	18,279	42,419
215.50	16,838	33,467	216.02	18,317	42,602
215.51	16,866	33,635	216.03	18,356	42,785
215.52	16,894	33,804	216.04	18,394	42,969
215.53	16,922	33,973	216.05	18,432	43,153
215.54	16,950	34,143	216.06	18,470	43,338
215.55	16,978	34,312	216.07	18,508	43,523
215.56	17,006	34,482	216.08	18,546	43,708
215.57	17,034	34,652	216.09	18,585	43,894
215.58	17,062	34,823	216.10	18,623	44,080
215.59	17,091	34,994	216.11	18,661	44,266

Stage-Area-Storage for Pond B-3: Basin #3 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
216.12	18,699	44,453	216.64	20,684	54,693
216.13	18,737	44,640	216.65	20,722	54,900
216.14	18,775	44,828	216.66	20,760	55,107
216.15	18,814	45,016	216.67	20,799	55,315
216.16	18,852	45,204	216.68	20,837	55,523
216.17	18,890	45,393	216.69	20,875	55,732
216.18	18,928	45,582	216.70	20,913	55,940
216.19	18,966	45,771	216.71	20,951	56,150
216.20	19,004	45,961	216.72	20,989	56,359
216.21	19,043	46,151	216.73	21,028	56,570
216.22	19,081	46,342	216.74	21,066	56,780
216.23	19,119	46,533	216.75	21,104	56,991
216.24	19,157	46,724			
216.25	19,195	46,916			
216.26	19,234	47,108			
216.27	19,272	47,301			
216.28	19,310	47,494			
216.29	19,348	47,687			
216.30	19,386	47,881			
216.31	19,424	48,075			
216.32	19,463	48,269			
216.33	19,501	48,464			
216.34	19,539	48,659			
216.35	19,577	48,855			
216.36	19,615	49,051			
216.37	19,653	49,247			
216.38	19,692	49,444			
216.39	19,730	49,641			
216.40	19,768	49,838			
216.41	19,806	50,036			
216.42	19,844	50,234			
216.43	19,882	50,433			
216.44	19,921	50,632			
216.45	19,959	50,831			
216.46	19,997	51,031			
216.47	20,035	51,231			
216.48	20,073	51,432			
216.49	20,111	51,633			
216.50	20,150	51,834			
216.51	20,188	52,036			
216.52	20,226	52,238			
216.53	20,264	52,440			
216.54	20,302	52,643			
216.55	20,341	52,846			
216.56	20,379	53,050			
216.57	20,417	53,254			
216.58	20,455	53,458			
216.59	20,493	53,663			
216.60	20,531	53,868			
216.61	20,570	54,074			
216.62	20,608	54,280			
216.63	20,646	54,486			

Summary for Pond B-4A: Basin #4A

Inflow Area = 2.331 ac, 36.89% Impervious, Inflow Depth = 9.04" for Future 100 yr event
 Inflow = 21.38 cfs @ 12.17 hrs, Volume= 1.755 af
 Outflow = 24.99 cfs @ 12.19 hrs, Volume= 1.281 af, Atten= 0%, Lag= 1.4 min
 Primary = 24.99 cfs @ 12.19 hrs, Volume= 1.281 af
 Routed to Pond B-5 : Basin #5

Routing by Stor-Ind method, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 Peak Elev= 205.79' @ 12.19 hrs Surf.Area= 6,057 sf Storage= 20,963 cf

Plug-Flow detention time= 165.0 min calculated for 1.281 af (73% of inflow)
 Center-of-Mass det. time= 71.7 min (850.8 - 779.0)

Volume	Invert	Avail.Storage	Storage Description
#1	200.00'	20,963 cf	Custom Stage Data (Prismatic) Listed below (Recalc)
Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
200.00	1,891	0	0
201.00	2,495	2,193	2,193
202.00	3,169	2,832	5,025
203.00	3,912	3,541	8,566
204.00	4,724	4,318	12,884
205.00	5,604	5,164	18,048
205.50	6,057	2,915	20,963

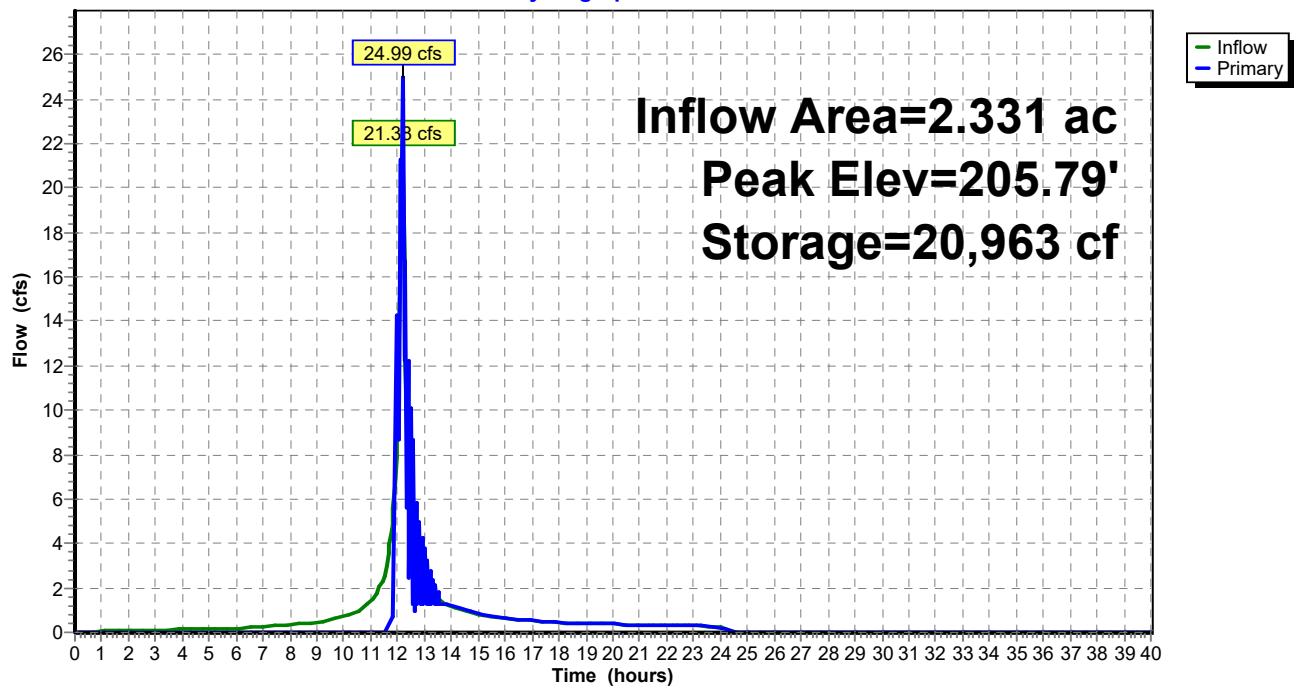
Device	Routing	Invert	Outlet Devices
#1	Primary	205.45'	50.0' long + 3.0 ' SideZ x 5.0' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 Coef. (English) 2.34 2.50 2.70 2.68 2.68 2.66 2.65 2.65 2.65 2.65 2.67 2.66 2.68 2.70 2.74 2.79 2.88

Primary OutFlow Max=23.84 cfs @ 12.19 hrs HW=205.78' (Free Discharge)

↑ **1=Broad-Crested Rectangular Weir**(Weir Controls 23.84 cfs @ 1.41 fps)

Pond B-4A: Basin #4A

Hydrograph



Stage-Discharge for Pond B-4A: Basin #4A

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
200.00	0.00	200.52	0.00	201.04	0.00	201.56	0.00
200.01	0.00	200.53	0.00	201.05	0.00	201.57	0.00
200.02	0.00	200.54	0.00	201.06	0.00	201.58	0.00
200.03	0.00	200.55	0.00	201.07	0.00	201.59	0.00
200.04	0.00	200.56	0.00	201.08	0.00	201.60	0.00
200.05	0.00	200.57	0.00	201.09	0.00	201.61	0.00
200.06	0.00	200.58	0.00	201.10	0.00	201.62	0.00
200.07	0.00	200.59	0.00	201.11	0.00	201.63	0.00
200.08	0.00	200.60	0.00	201.12	0.00	201.64	0.00
200.09	0.00	200.61	0.00	201.13	0.00	201.65	0.00
200.10	0.00	200.62	0.00	201.14	0.00	201.66	0.00
200.11	0.00	200.63	0.00	201.15	0.00	201.67	0.00
200.12	0.00	200.64	0.00	201.16	0.00	201.68	0.00
200.13	0.00	200.65	0.00	201.17	0.00	201.69	0.00
200.14	0.00	200.66	0.00	201.18	0.00	201.70	0.00
200.15	0.00	200.67	0.00	201.19	0.00	201.71	0.00
200.16	0.00	200.68	0.00	201.20	0.00	201.72	0.00
200.17	0.00	200.69	0.00	201.21	0.00	201.73	0.00
200.18	0.00	200.70	0.00	201.22	0.00	201.74	0.00
200.19	0.00	200.71	0.00	201.23	0.00	201.75	0.00
200.20	0.00	200.72	0.00	201.24	0.00	201.76	0.00
200.21	0.00	200.73	0.00	201.25	0.00	201.77	0.00
200.22	0.00	200.74	0.00	201.26	0.00	201.78	0.00
200.23	0.00	200.75	0.00	201.27	0.00	201.79	0.00
200.24	0.00	200.76	0.00	201.28	0.00	201.80	0.00
200.25	0.00	200.77	0.00	201.29	0.00	201.81	0.00
200.26	0.00	200.78	0.00	201.30	0.00	201.82	0.00
200.27	0.00	200.79	0.00	201.31	0.00	201.83	0.00
200.28	0.00	200.80	0.00	201.32	0.00	201.84	0.00
200.29	0.00	200.81	0.00	201.33	0.00	201.85	0.00
200.30	0.00	200.82	0.00	201.34	0.00	201.86	0.00
200.31	0.00	200.83	0.00	201.35	0.00	201.87	0.00
200.32	0.00	200.84	0.00	201.36	0.00	201.88	0.00
200.33	0.00	200.85	0.00	201.37	0.00	201.89	0.00
200.34	0.00	200.86	0.00	201.38	0.00	201.90	0.00
200.35	0.00	200.87	0.00	201.39	0.00	201.91	0.00
200.36	0.00	200.88	0.00	201.40	0.00	201.92	0.00
200.37	0.00	200.89	0.00	201.41	0.00	201.93	0.00
200.38	0.00	200.90	0.00	201.42	0.00	201.94	0.00
200.39	0.00	200.91	0.00	201.43	0.00	201.95	0.00
200.40	0.00	200.92	0.00	201.44	0.00	201.96	0.00
200.41	0.00	200.93	0.00	201.45	0.00	201.97	0.00
200.42	0.00	200.94	0.00	201.46	0.00	201.98	0.00
200.43	0.00	200.95	0.00	201.47	0.00	201.99	0.00
200.44	0.00	200.96	0.00	201.48	0.00	202.00	0.00
200.45	0.00	200.97	0.00	201.49	0.00	202.01	0.00
200.46	0.00	200.98	0.00	201.50	0.00	202.02	0.00
200.47	0.00	200.99	0.00	201.51	0.00	202.03	0.00
200.48	0.00	201.00	0.00	201.52	0.00	202.04	0.00
200.49	0.00	201.01	0.00	201.53	0.00	202.05	0.00
200.50	0.00	201.02	0.00	201.54	0.00	202.06	0.00
200.51	0.00	201.03	0.00	201.55	0.00	202.07	0.00

Stage-Discharge for Pond B-4A: Basin #4A (continued)

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
202.08	0.00	202.60	0.00	203.12	0.00	203.64	0.00
202.09	0.00	202.61	0.00	203.13	0.00	203.65	0.00
202.10	0.00	202.62	0.00	203.14	0.00	203.66	0.00
202.11	0.00	202.63	0.00	203.15	0.00	203.67	0.00
202.12	0.00	202.64	0.00	203.16	0.00	203.68	0.00
202.13	0.00	202.65	0.00	203.17	0.00	203.69	0.00
202.14	0.00	202.66	0.00	203.18	0.00	203.70	0.00
202.15	0.00	202.67	0.00	203.19	0.00	203.71	0.00
202.16	0.00	202.68	0.00	203.20	0.00	203.72	0.00
202.17	0.00	202.69	0.00	203.21	0.00	203.73	0.00
202.18	0.00	202.70	0.00	203.22	0.00	203.74	0.00
202.19	0.00	202.71	0.00	203.23	0.00	203.75	0.00
202.20	0.00	202.72	0.00	203.24	0.00	203.76	0.00
202.21	0.00	202.73	0.00	203.25	0.00	203.77	0.00
202.22	0.00	202.74	0.00	203.26	0.00	203.78	0.00
202.23	0.00	202.75	0.00	203.27	0.00	203.79	0.00
202.24	0.00	202.76	0.00	203.28	0.00	203.80	0.00
202.25	0.00	202.77	0.00	203.29	0.00	203.81	0.00
202.26	0.00	202.78	0.00	203.30	0.00	203.82	0.00
202.27	0.00	202.79	0.00	203.31	0.00	203.83	0.00
202.28	0.00	202.80	0.00	203.32	0.00	203.84	0.00
202.29	0.00	202.81	0.00	203.33	0.00	203.85	0.00
202.30	0.00	202.82	0.00	203.34	0.00	203.86	0.00
202.31	0.00	202.83	0.00	203.35	0.00	203.87	0.00
202.32	0.00	202.84	0.00	203.36	0.00	203.88	0.00
202.33	0.00	202.85	0.00	203.37	0.00	203.89	0.00
202.34	0.00	202.86	0.00	203.38	0.00	203.90	0.00
202.35	0.00	202.87	0.00	203.39	0.00	203.91	0.00
202.36	0.00	202.88	0.00	203.40	0.00	203.92	0.00
202.37	0.00	202.89	0.00	203.41	0.00	203.93	0.00
202.38	0.00	202.90	0.00	203.42	0.00	203.94	0.00
202.39	0.00	202.91	0.00	203.43	0.00	203.95	0.00
202.40	0.00	202.92	0.00	203.44	0.00	203.96	0.00
202.41	0.00	202.93	0.00	203.45	0.00	203.97	0.00
202.42	0.00	202.94	0.00	203.46	0.00	203.98	0.00
202.43	0.00	202.95	0.00	203.47	0.00	203.99	0.00
202.44	0.00	202.96	0.00	203.48	0.00	204.00	0.00
202.45	0.00	202.97	0.00	203.49	0.00	204.01	0.00
202.46	0.00	202.98	0.00	203.50	0.00	204.02	0.00
202.47	0.00	202.99	0.00	203.51	0.00	204.03	0.00
202.48	0.00	203.00	0.00	203.52	0.00	204.04	0.00
202.49	0.00	203.01	0.00	203.53	0.00	204.05	0.00
202.50	0.00	203.02	0.00	203.54	0.00	204.06	0.00
202.51	0.00	203.03	0.00	203.55	0.00	204.07	0.00
202.52	0.00	203.04	0.00	203.56	0.00	204.08	0.00
202.53	0.00	203.05	0.00	203.57	0.00	204.09	0.00
202.54	0.00	203.06	0.00	203.58	0.00	204.10	0.00
202.55	0.00	203.07	0.00	203.59	0.00	204.11	0.00
202.56	0.00	203.08	0.00	203.60	0.00	204.12	0.00
202.57	0.00	203.09	0.00	203.61	0.00	204.13	0.00
202.58	0.00	203.10	0.00	203.62	0.00	204.14	0.00
202.59	0.00	203.11	0.00	203.63	0.00	204.15	0.00

Stage-Discharge for Pond B-4A: Basin #4A (continued)

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
204.16	0.00	204.68	0.00	205.20	0.00	205.72	17.03
204.17	0.00	204.69	0.00	205.21	0.00	205.73	18.05
204.18	0.00	204.70	0.00	205.22	0.00	205.74	19.10
204.19	0.00	204.71	0.00	205.23	0.00	205.75	20.17
204.20	0.00	204.72	0.00	205.24	0.00	205.76	21.27
204.21	0.00	204.73	0.00	205.25	0.00	205.77	22.39
204.22	0.00	204.74	0.00	205.26	0.00	205.78	23.53
204.23	0.00	204.75	0.00	205.27	0.00	205.79	24.70
204.24	0.00	204.76	0.00	205.28	0.00	205.80	25.90
204.25	0.00	204.77	0.00	205.29	0.00	205.81	27.11
204.26	0.00	204.78	0.00	205.30	0.00	205.82	28.36
204.27	0.00	204.79	0.00	205.31	0.00	205.83	29.62
204.28	0.00	204.80	0.00	205.32	0.00		
204.29	0.00	204.81	0.00	205.33	0.00		
204.30	0.00	204.82	0.00	205.34	0.00		
204.31	0.00	204.83	0.00	205.35	0.00		
204.32	0.00	204.84	0.00	205.36	0.00		
204.33	0.00	204.85	0.00	205.37	0.00		
204.34	0.00	204.86	0.00	205.38	0.00		
204.35	0.00	204.87	0.00	205.39	0.00		
204.36	0.00	204.88	0.00	205.40	0.00		
204.37	0.00	204.89	0.00	205.41	0.00		
204.38	0.00	204.90	0.00	205.42	0.00		
204.39	0.00	204.91	0.00	205.43	0.00		
204.40	0.00	204.92	0.00	205.44	0.00		
204.41	0.00	204.93	0.00	205.45	0.00		
204.42	0.00	204.94	0.00	205.46	0.12		
204.43	0.00	204.95	0.00	205.47	0.33		
204.44	0.00	204.96	0.00	205.48	0.61		
204.45	0.00	204.97	0.00	205.49	0.94		
204.46	0.00	204.98	0.00	205.50	1.31		
204.47	0.00	204.99	0.00	205.51	1.72		
204.48	0.00	205.00	0.00	205.52	2.17		
204.49	0.00	205.01	0.00	205.53	2.66		
204.50	0.00	205.02	0.00	205.54	3.17		
204.51	0.00	205.03	0.00	205.55	3.72		
204.52	0.00	205.04	0.00	205.56	4.29		
204.53	0.00	205.05	0.00	205.57	4.89		
204.54	0.00	205.06	0.00	205.58	5.52		
204.55	0.00	205.07	0.00	205.59	6.17		
204.56	0.00	205.08	0.00	205.60	6.85		
204.57	0.00	205.09	0.00	205.61	7.55		
204.58	0.00	205.10	0.00	205.62	8.27		
204.59	0.00	205.11	0.00	205.63	9.01		
204.60	0.00	205.12	0.00	205.64	9.78		
204.61	0.00	205.13	0.00	205.65	10.57		
204.62	0.00	205.14	0.00	205.66	11.41		
204.63	0.00	205.15	0.00	205.67	12.28		
204.64	0.00	205.16	0.00	205.68	13.18		
204.65	0.00	205.17	0.00	205.69	14.11		
204.66	0.00	205.18	0.00	205.70	15.05		
204.67	0.00	205.19	0.00	205.71	16.03		

Stage-Area-Storage for Pond B-4A: Basin #4A

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
200.00	1,891	0	200.52	2,205	1,065
200.01	1,897	19	200.53	2,211	1,087
200.02	1,903	38	200.54	2,217	1,109
200.03	1,909	57	200.55	2,223	1,131
200.04	1,915	76	200.56	2,229	1,154
200.05	1,921	95	200.57	2,235	1,176
200.06	1,927	115	200.58	2,241	1,198
200.07	1,933	134	200.59	2,247	1,221
200.08	1,939	153	200.60	2,253	1,243
200.09	1,945	173	200.61	2,259	1,266
200.10	1,951	192	200.62	2,265	1,289
200.11	1,957	212	200.63	2,272	1,311
200.12	1,963	231	200.64	2,278	1,334
200.13	1,970	251	200.65	2,284	1,357
200.14	1,976	271	200.66	2,290	1,380
200.15	1,982	290	200.67	2,296	1,403
200.16	1,988	310	200.68	2,302	1,426
200.17	1,994	330	200.69	2,308	1,449
200.18	2,000	350	200.70	2,314	1,472
200.19	2,006	370	200.71	2,320	1,495
200.20	2,012	390	200.72	2,326	1,518
200.21	2,018	410	200.73	2,332	1,541
200.22	2,024	431	200.74	2,338	1,565
200.23	2,030	451	200.75	2,344	1,588
200.24	2,036	471	200.76	2,350	1,612
200.25	2,042	492	200.77	2,356	1,635
200.26	2,048	512	200.78	2,362	1,659
200.27	2,054	533	200.79	2,368	1,682
200.28	2,060	553	200.80	2,374	1,706
200.29	2,066	574	200.81	2,380	1,730
200.30	2,072	594	200.82	2,386	1,754
200.31	2,078	615	200.83	2,392	1,778
200.32	2,084	636	200.84	2,398	1,802
200.33	2,090	657	200.85	2,404	1,826
200.34	2,096	678	200.86	2,410	1,850
200.35	2,102	699	200.87	2,416	1,874
200.36	2,108	720	200.88	2,423	1,898
200.37	2,114	741	200.89	2,429	1,922
200.38	2,121	762	200.90	2,435	1,947
200.39	2,127	783	200.91	2,441	1,971
200.40	2,133	805	200.92	2,447	1,995
200.41	2,139	826	200.93	2,453	2,020
200.42	2,145	847	200.94	2,459	2,044
200.43	2,151	869	200.95	2,465	2,069
200.44	2,157	891	200.96	2,471	2,094
200.45	2,163	912	200.97	2,477	2,118
200.46	2,169	934	200.98	2,483	2,143
200.47	2,175	955	200.99	2,489	2,168
200.48	2,181	977	201.00	2,495	2,193
200.49	2,187	999	201.01	2,502	2,218
200.50	2,193	1,021	201.02	2,508	2,243
200.51	2,199	1,043	201.03	2,515	2,268

Stage-Area-Storage for Pond B-4A: Basin #4A (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
201.04	2,522	2,293	201.56	2,872	3,696
201.05	2,529	2,319	201.57	2,879	3,725
201.06	2,535	2,344	201.58	2,886	3,753
201.07	2,542	2,369	201.59	2,893	3,782
201.08	2,549	2,395	201.60	2,899	3,811
201.09	2,556	2,420	201.61	2,906	3,840
201.10	2,562	2,446	201.62	2,913	3,869
201.11	2,569	2,472	201.63	2,920	3,899
201.12	2,576	2,497	201.64	2,926	3,928
201.13	2,583	2,523	201.65	2,933	3,957
201.14	2,589	2,549	201.66	2,940	3,986
201.15	2,596	2,575	201.67	2,947	4,016
201.16	2,603	2,601	201.68	2,953	4,045
201.17	2,610	2,627	201.69	2,960	4,075
201.18	2,616	2,653	201.70	2,967	4,105
201.19	2,623	2,679	201.71	2,974	4,134
201.20	2,630	2,705	201.72	2,980	4,164
201.21	2,637	2,732	201.73	2,987	4,194
201.22	2,643	2,758	201.74	2,994	4,224
201.23	2,650	2,785	201.75	3,001	4,254
201.24	2,657	2,811	201.76	3,007	4,284
201.25	2,664	2,838	201.77	3,014	4,314
201.26	2,670	2,864	201.78	3,021	4,344
201.27	2,677	2,891	201.79	3,027	4,374
201.28	2,684	2,918	201.80	3,034	4,405
201.29	2,690	2,945	201.81	3,041	4,435
201.30	2,697	2,972	201.82	3,048	4,465
201.31	2,704	2,999	201.83	3,054	4,496
201.32	2,711	3,026	201.84	3,061	4,527
201.33	2,717	3,053	201.85	3,068	4,557
201.34	2,724	3,080	201.86	3,075	4,588
201.35	2,731	3,108	201.87	3,081	4,619
201.36	2,738	3,135	201.88	3,088	4,650
201.37	2,744	3,162	201.89	3,095	4,680
201.38	2,751	3,190	201.90	3,102	4,711
201.39	2,758	3,217	201.91	3,108	4,743
201.40	2,765	3,245	201.92	3,115	4,774
201.41	2,771	3,273	201.93	3,122	4,805
201.42	2,778	3,300	201.94	3,129	4,836
201.43	2,785	3,328	201.95	3,135	4,867
201.44	2,792	3,356	201.96	3,142	4,899
201.45	2,798	3,384	201.97	3,149	4,930
201.46	2,805	3,412	201.98	3,156	4,962
201.47	2,812	3,440	201.99	3,162	4,993
201.48	2,819	3,468	202.00	3,169	5,025
201.49	2,825	3,496	202.01	3,176	5,057
201.50	2,832	3,525	202.02	3,184	5,089
201.51	2,839	3,553	202.03	3,191	5,120
201.52	2,845	3,582	202.04	3,199	5,152
201.53	2,852	3,610	202.05	3,206	5,184
201.54	2,859	3,639	202.06	3,214	5,216
201.55	2,866	3,667	202.07	3,221	5,249

Stage-Area-Storage for Pond B-4A: Basin #4A (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
202.08	3,228	5,281	202.60	3,615	7,060
202.09	3,236	5,313	202.61	3,622	7,096
202.10	3,243	5,346	202.62	3,630	7,133
202.11	3,251	5,378	202.63	3,637	7,169
202.12	3,258	5,411	202.64	3,645	7,205
202.13	3,266	5,443	202.65	3,652	7,242
202.14	3,273	5,476	202.66	3,659	7,278
202.15	3,280	5,509	202.67	3,667	7,315
202.16	3,288	5,542	202.68	3,674	7,352
202.17	3,295	5,574	202.69	3,682	7,388
202.18	3,303	5,607	202.70	3,689	7,425
202.19	3,310	5,641	202.71	3,697	7,462
202.20	3,318	5,674	202.72	3,704	7,499
202.21	3,325	5,707	202.73	3,711	7,536
202.22	3,332	5,740	202.74	3,719	7,573
202.23	3,340	5,774	202.75	3,726	7,611
202.24	3,347	5,807	202.76	3,734	7,648
202.25	3,355	5,840	202.77	3,741	7,685
202.26	3,362	5,874	202.78	3,749	7,723
202.27	3,370	5,908	202.79	3,756	7,760
202.28	3,377	5,941	202.80	3,763	7,798
202.29	3,384	5,975	202.81	3,771	7,836
202.30	3,392	6,009	202.82	3,778	7,873
202.31	3,399	6,043	202.83	3,786	7,911
202.32	3,407	6,077	202.84	3,793	7,949
202.33	3,414	6,111	202.85	3,801	7,987
202.34	3,422	6,145	202.86	3,808	8,025
202.35	3,429	6,180	202.87	3,815	8,063
202.36	3,436	6,214	202.88	3,823	8,101
202.37	3,444	6,248	202.89	3,830	8,140
202.38	3,451	6,283	202.90	3,838	8,178
202.39	3,459	6,317	202.91	3,845	8,216
202.40	3,466	6,352	202.92	3,853	8,255
202.41	3,474	6,387	202.93	3,860	8,293
202.42	3,481	6,422	202.94	3,867	8,332
202.43	3,488	6,456	202.95	3,875	8,371
202.44	3,496	6,491	202.96	3,882	8,410
202.45	3,503	6,526	202.97	3,890	8,448
202.46	3,511	6,561	202.98	3,897	8,487
202.47	3,518	6,596	202.99	3,905	8,526
202.48	3,526	6,632	203.00	3,912	8,566
202.49	3,533	6,667	203.01	3,920	8,605
202.50	3,541	6,702	203.02	3,928	8,644
202.51	3,548	6,738	203.03	3,936	8,683
202.52	3,555	6,773	203.04	3,944	8,723
202.53	3,563	6,809	203.05	3,953	8,762
202.54	3,570	6,845	203.06	3,961	8,802
202.55	3,578	6,880	203.07	3,969	8,841
202.56	3,585	6,916	203.08	3,977	8,881
202.57	3,593	6,952	203.09	3,985	8,921
202.58	3,600	6,988	203.10	3,993	8,961
202.59	3,607	7,024	203.11	4,001	9,001

Stage-Area-Storage for Pond B-4A: Basin #4A (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
203.12	4,009	9,041	203.64	4,432	11,235
203.13	4,018	9,081	203.65	4,440	11,280
203.14	4,026	9,121	203.66	4,448	11,324
203.15	4,034	9,161	203.67	4,456	11,369
203.16	4,042	9,202	203.68	4,464	11,413
203.17	4,050	9,242	203.69	4,472	11,458
203.18	4,058	9,283	203.70	4,480	11,503
203.19	4,066	9,323	203.71	4,489	11,548
203.20	4,074	9,364	203.72	4,497	11,593
203.21	4,083	9,405	203.73	4,505	11,638
203.22	4,091	9,446	203.74	4,513	11,683
203.23	4,099	9,487	203.75	4,521	11,728
203.24	4,107	9,528	203.76	4,529	11,773
203.25	4,115	9,569	203.77	4,537	11,818
203.26	4,123	9,610	203.78	4,545	11,864
203.27	4,131	9,651	203.79	4,553	11,909
203.28	4,139	9,693	203.80	4,562	11,955
203.29	4,147	9,734	203.81	4,570	12,001
203.30	4,156	9,776	203.82	4,578	12,046
203.31	4,164	9,817	203.83	4,586	12,092
203.32	4,172	9,859	203.84	4,594	12,138
203.33	4,180	9,901	203.85	4,602	12,184
203.34	4,188	9,943	203.86	4,610	12,230
203.35	4,196	9,984	203.87	4,618	12,276
203.36	4,204	10,026	203.88	4,627	12,322
203.37	4,212	10,069	203.89	4,635	12,369
203.38	4,221	10,111	203.90	4,643	12,415
203.39	4,229	10,153	203.91	4,651	12,462
203.40	4,237	10,195	203.92	4,659	12,508
203.41	4,245	10,238	203.93	4,667	12,555
203.42	4,253	10,280	203.94	4,675	12,602
203.43	4,261	10,323	203.95	4,683	12,648
203.44	4,269	10,365	203.96	4,692	12,695
203.45	4,277	10,408	203.97	4,700	12,742
203.46	4,286	10,451	203.98	4,708	12,789
203.47	4,294	10,494	203.99	4,716	12,836
203.48	4,302	10,537	204.00	4,724	12,884
203.49	4,310	10,580	204.01	4,733	12,931
203.50	4,318	10,623	204.02	4,742	12,978
203.51	4,326	10,666	204.03	4,750	13,026
203.52	4,334	10,710	204.04	4,759	13,073
203.53	4,342	10,753	204.05	4,768	13,121
203.54	4,350	10,796	204.06	4,777	13,169
203.55	4,359	10,840	204.07	4,786	13,216
203.56	4,367	10,884	204.08	4,794	13,264
203.57	4,375	10,927	204.09	4,803	13,312
203.58	4,383	10,971	204.10	4,812	13,360
203.59	4,391	11,015	204.11	4,821	13,408
203.60	4,399	11,059	204.12	4,830	13,457
203.61	4,407	11,103	204.13	4,838	13,505
203.62	4,415	11,147	204.14	4,847	13,553
203.63	4,424	11,191	204.15	4,856	13,602

Stage-Area-Storage for Pond B-4A: Basin #4A (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
204.16	4,865	13,651	204.68	5,322	16,299
204.17	4,874	13,699	204.69	5,331	16,353
204.18	4,882	13,748	204.70	5,340	16,406
204.19	4,891	13,797	204.71	5,349	16,459
204.20	4,900	13,846	204.72	5,358	16,513
204.21	4,909	13,895	204.73	5,366	16,566
204.22	4,918	13,944	204.74	5,375	16,620
204.23	4,926	13,993	204.75	5,384	16,674
204.24	4,935	14,043	204.76	5,393	16,728
204.25	4,944	14,092	204.77	5,402	16,782
204.26	4,953	14,141	204.78	5,410	16,836
204.27	4,962	14,191	204.79	5,419	16,890
204.28	4,970	14,241	204.80	5,428	16,944
204.29	4,979	14,290	204.81	5,437	16,999
204.30	4,988	14,340	204.82	5,446	17,053
204.31	4,997	14,390	204.83	5,454	17,108
204.32	5,006	14,440	204.84	5,463	17,162
204.33	5,014	14,490	204.85	5,472	17,217
204.34	5,023	14,541	204.86	5,481	17,272
204.35	5,032	14,591	204.87	5,490	17,326
204.36	5,041	14,641	204.88	5,498	17,381
204.37	5,050	14,692	204.89	5,507	17,436
204.38	5,058	14,742	204.90	5,516	17,492
204.39	5,067	14,793	204.91	5,525	17,547
204.40	5,076	14,844	204.92	5,534	17,602
204.41	5,085	14,894	204.93	5,542	17,657
204.42	5,094	14,945	204.94	5,551	17,713
204.43	5,102	14,996	204.95	5,560	17,768
204.44	5,111	15,047	204.96	5,569	17,824
204.45	5,120	15,098	204.97	5,578	17,880
204.46	5,129	15,150	204.98	5,586	17,936
204.47	5,138	15,201	204.99	5,595	17,992
204.48	5,146	15,252	205.00	5,604	18,048
204.49	5,155	15,304	205.01	5,613	18,104
204.50	5,164	15,356	205.02	5,622	18,160
204.51	5,173	15,407	205.03	5,631	18,216
204.52	5,182	15,459	205.04	5,640	18,272
204.53	5,190	15,511	205.05	5,649	18,329
204.54	5,199	15,563	205.06	5,658	18,385
204.55	5,208	15,615	205.07	5,667	18,442
204.56	5,217	15,667	205.08	5,676	18,499
204.57	5,226	15,719	205.09	5,686	18,556
204.58	5,234	15,771	205.10	5,695	18,612
204.59	5,243	15,824	205.11	5,704	18,669
204.60	5,252	15,876	205.12	5,713	18,727
204.61	5,261	15,929	205.13	5,722	18,784
204.62	5,270	15,982	205.14	5,731	18,841
204.63	5,278	16,034	205.15	5,740	18,898
204.64	5,287	16,087	205.16	5,749	18,956
204.65	5,296	16,140	205.17	5,758	19,013
204.66	5,305	16,193	205.18	5,767	19,071
204.67	5,314	16,246	205.19	5,776	19,129

Stage-Area-Storage for Pond B-4A: Basin #4A (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
205.20	5,785	19,186	205.72	6,057	20,963
205.21	5,794	19,244	205.73	6,057	20,963
205.22	5,803	19,302	205.74	6,057	20,963
205.23	5,812	19,360	205.75	6,057	20,963
205.24	5,821	19,419	205.76	6,057	20,963
205.25	5,831	19,477	205.77	6,057	20,963
205.26	5,840	19,535	205.78	6,057	20,963
205.27	5,849	19,594	205.79	6,057	20,963
205.28	5,858	19,652	205.80	6,057	20,963
205.29	5,867	19,711	205.81	6,057	20,963
205.30	5,876	19,769	205.82	6,057	20,963
205.31	5,885	19,828	205.83	6,057	20,963
205.32	5,894	19,887			
205.33	5,903	19,946			
205.34	5,912	20,005			
205.35	5,921	20,064			
205.36	5,930	20,124			
205.37	5,939	20,183			
205.38	5,948	20,242			
205.39	5,957	20,302			
205.40	5,966	20,362			
205.41	5,975	20,421			
205.42	5,985	20,481			
205.43	5,994	20,541			
205.44	6,003	20,601			
205.45	6,012	20,661			
205.46	6,021	20,721			
205.47	6,030	20,781			
205.48	6,039	20,842			
205.49	6,048	20,902			
205.50	6,057	20,963			
205.51	6,057	20,963			
205.52	6,057	20,963			
205.53	6,057	20,963			
205.54	6,057	20,963			
205.55	6,057	20,963			
205.56	6,057	20,963			
205.57	6,057	20,963			
205.58	6,057	20,963			
205.59	6,057	20,963			
205.60	6,057	20,963			
205.61	6,057	20,963			
205.62	6,057	20,963			
205.63	6,057	20,963			
205.64	6,057	20,963			
205.65	6,057	20,963			
205.66	6,057	20,963			
205.67	6,057	20,963			
205.68	6,057	20,963			
205.69	6,057	20,963			
205.70	6,057	20,963			
205.71	6,057	20,963			

Summary for Pond B-4B: Basin #4B

Inflow Area = 2.331 ac, 36.89% Impervious, Inflow Depth = 9.04" for Future 100 yr event
 Inflow = 21.38 cfs @ 12.17 hrs, Volume= 1.755 af
 Outflow = 28.62 cfs @ 12.15 hrs, Volume= 1.235 af, Atten= 0%, Lag= 0.0 min
 Primary = 28.62 cfs @ 12.15 hrs, Volume= 1.235 af
 Routed to Pond B-5 : Basin #5

Routing by Stor-Ind method, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 Peak Elev= 205.82' @ 12.15 hrs Surf.Area= 6,934 sf Storage= 22,995 cf

Plug-Flow detention time= 174.0 min calculated for 1.235 af (70% of inflow)
 Center-of-Mass det. time= 76.9 min (855.9 - 779.0)

Volume	Invert	Avail.Storage	Storage Description
#1	200.00'	22,995 cf	Custom Stage Data (Prismatic) Listed below (Recalc)
Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
200.00	1,852	0	0
201.00	2,571	2,212	2,212
202.00	3,384	2,978	5,189
203.00	4,292	3,838	9,027
204.00	5,294	4,793	13,820
205.00	6,393	5,844	19,664
205.50	6,934	3,332	22,995

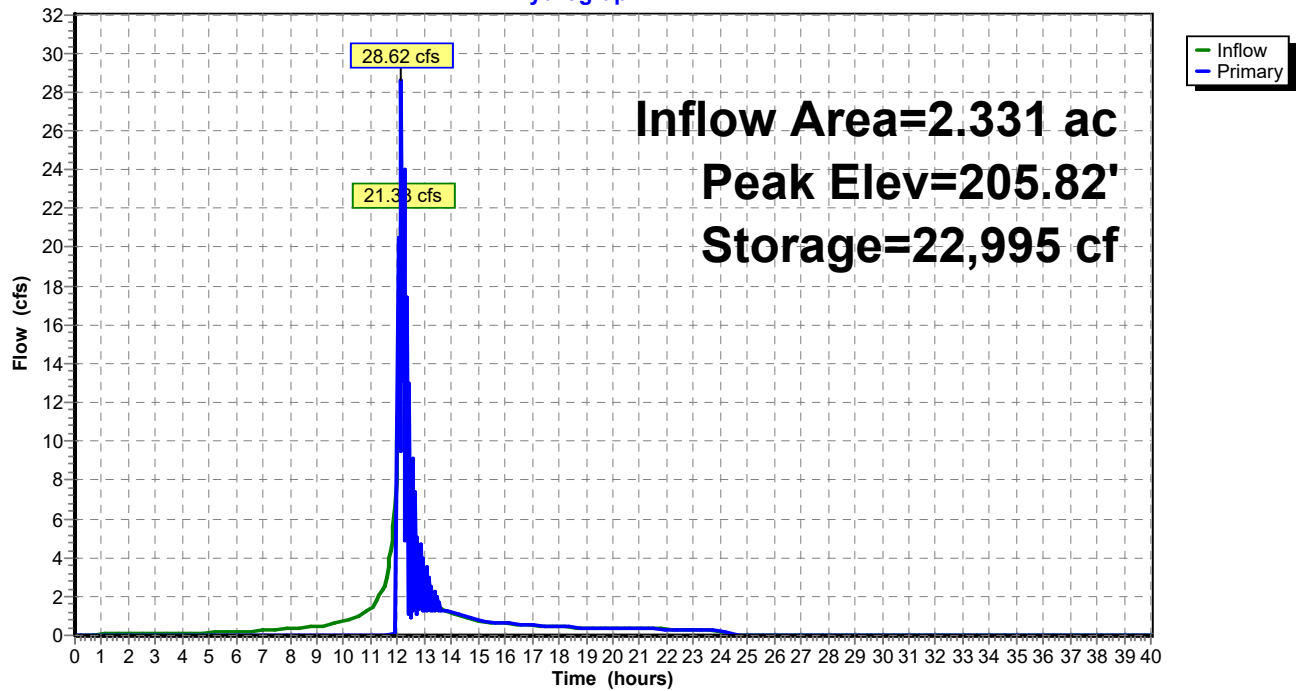
Device	Routing	Invert	Outlet Devices
#1	Primary	205.45'	50.0' long + 3.0 ' SideZ x 5.0' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 Coef. (English) 2.34 2.50 2.70 2.68 2.68 2.66 2.65 2.65 2.65 2.65 2.67 2.66 2.68 2.70 2.74 2.79 2.88

Primary OutFlow Max=27.59 cfs @ 12.15 hrs HW=205.81' (Free Discharge)

↑ **1=Broad-Crested Rectangular Weir**(Weir Controls 27.59 cfs @ 1.48 fps)

Pond B-4B: Basin #4B

Hydrograph



Stage-Discharge for Pond B-4B: Basin #4B

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
200.00	0.00	200.52	0.00	201.04	0.00	201.56	0.00
200.01	0.00	200.53	0.00	201.05	0.00	201.57	0.00
200.02	0.00	200.54	0.00	201.06	0.00	201.58	0.00
200.03	0.00	200.55	0.00	201.07	0.00	201.59	0.00
200.04	0.00	200.56	0.00	201.08	0.00	201.60	0.00
200.05	0.00	200.57	0.00	201.09	0.00	201.61	0.00
200.06	0.00	200.58	0.00	201.10	0.00	201.62	0.00
200.07	0.00	200.59	0.00	201.11	0.00	201.63	0.00
200.08	0.00	200.60	0.00	201.12	0.00	201.64	0.00
200.09	0.00	200.61	0.00	201.13	0.00	201.65	0.00
200.10	0.00	200.62	0.00	201.14	0.00	201.66	0.00
200.11	0.00	200.63	0.00	201.15	0.00	201.67	0.00
200.12	0.00	200.64	0.00	201.16	0.00	201.68	0.00
200.13	0.00	200.65	0.00	201.17	0.00	201.69	0.00
200.14	0.00	200.66	0.00	201.18	0.00	201.70	0.00
200.15	0.00	200.67	0.00	201.19	0.00	201.71	0.00
200.16	0.00	200.68	0.00	201.20	0.00	201.72	0.00
200.17	0.00	200.69	0.00	201.21	0.00	201.73	0.00
200.18	0.00	200.70	0.00	201.22	0.00	201.74	0.00
200.19	0.00	200.71	0.00	201.23	0.00	201.75	0.00
200.20	0.00	200.72	0.00	201.24	0.00	201.76	0.00
200.21	0.00	200.73	0.00	201.25	0.00	201.77	0.00
200.22	0.00	200.74	0.00	201.26	0.00	201.78	0.00
200.23	0.00	200.75	0.00	201.27	0.00	201.79	0.00
200.24	0.00	200.76	0.00	201.28	0.00	201.80	0.00
200.25	0.00	200.77	0.00	201.29	0.00	201.81	0.00
200.26	0.00	200.78	0.00	201.30	0.00	201.82	0.00
200.27	0.00	200.79	0.00	201.31	0.00	201.83	0.00
200.28	0.00	200.80	0.00	201.32	0.00	201.84	0.00
200.29	0.00	200.81	0.00	201.33	0.00	201.85	0.00
200.30	0.00	200.82	0.00	201.34	0.00	201.86	0.00
200.31	0.00	200.83	0.00	201.35	0.00	201.87	0.00
200.32	0.00	200.84	0.00	201.36	0.00	201.88	0.00
200.33	0.00	200.85	0.00	201.37	0.00	201.89	0.00
200.34	0.00	200.86	0.00	201.38	0.00	201.90	0.00
200.35	0.00	200.87	0.00	201.39	0.00	201.91	0.00
200.36	0.00	200.88	0.00	201.40	0.00	201.92	0.00
200.37	0.00	200.89	0.00	201.41	0.00	201.93	0.00
200.38	0.00	200.90	0.00	201.42	0.00	201.94	0.00
200.39	0.00	200.91	0.00	201.43	0.00	201.95	0.00
200.40	0.00	200.92	0.00	201.44	0.00	201.96	0.00
200.41	0.00	200.93	0.00	201.45	0.00	201.97	0.00
200.42	0.00	200.94	0.00	201.46	0.00	201.98	0.00
200.43	0.00	200.95	0.00	201.47	0.00	201.99	0.00
200.44	0.00	200.96	0.00	201.48	0.00	202.00	0.00
200.45	0.00	200.97	0.00	201.49	0.00	202.01	0.00
200.46	0.00	200.98	0.00	201.50	0.00	202.02	0.00
200.47	0.00	200.99	0.00	201.51	0.00	202.03	0.00
200.48	0.00	201.00	0.00	201.52	0.00	202.04	0.00
200.49	0.00	201.01	0.00	201.53	0.00	202.05	0.00
200.50	0.00	201.02	0.00	201.54	0.00	202.06	0.00
200.51	0.00	201.03	0.00	201.55	0.00	202.07	0.00

Stage-Discharge for Pond B-4B: Basin #4B (continued)

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
202.08	0.00	202.60	0.00	203.12	0.00	203.64	0.00
202.09	0.00	202.61	0.00	203.13	0.00	203.65	0.00
202.10	0.00	202.62	0.00	203.14	0.00	203.66	0.00
202.11	0.00	202.63	0.00	203.15	0.00	203.67	0.00
202.12	0.00	202.64	0.00	203.16	0.00	203.68	0.00
202.13	0.00	202.65	0.00	203.17	0.00	203.69	0.00
202.14	0.00	202.66	0.00	203.18	0.00	203.70	0.00
202.15	0.00	202.67	0.00	203.19	0.00	203.71	0.00
202.16	0.00	202.68	0.00	203.20	0.00	203.72	0.00
202.17	0.00	202.69	0.00	203.21	0.00	203.73	0.00
202.18	0.00	202.70	0.00	203.22	0.00	203.74	0.00
202.19	0.00	202.71	0.00	203.23	0.00	203.75	0.00
202.20	0.00	202.72	0.00	203.24	0.00	203.76	0.00
202.21	0.00	202.73	0.00	203.25	0.00	203.77	0.00
202.22	0.00	202.74	0.00	203.26	0.00	203.78	0.00
202.23	0.00	202.75	0.00	203.27	0.00	203.79	0.00
202.24	0.00	202.76	0.00	203.28	0.00	203.80	0.00
202.25	0.00	202.77	0.00	203.29	0.00	203.81	0.00
202.26	0.00	202.78	0.00	203.30	0.00	203.82	0.00
202.27	0.00	202.79	0.00	203.31	0.00	203.83	0.00
202.28	0.00	202.80	0.00	203.32	0.00	203.84	0.00
202.29	0.00	202.81	0.00	203.33	0.00	203.85	0.00
202.30	0.00	202.82	0.00	203.34	0.00	203.86	0.00
202.31	0.00	202.83	0.00	203.35	0.00	203.87	0.00
202.32	0.00	202.84	0.00	203.36	0.00	203.88	0.00
202.33	0.00	202.85	0.00	203.37	0.00	203.89	0.00
202.34	0.00	202.86	0.00	203.38	0.00	203.90	0.00
202.35	0.00	202.87	0.00	203.39	0.00	203.91	0.00
202.36	0.00	202.88	0.00	203.40	0.00	203.92	0.00
202.37	0.00	202.89	0.00	203.41	0.00	203.93	0.00
202.38	0.00	202.90	0.00	203.42	0.00	203.94	0.00
202.39	0.00	202.91	0.00	203.43	0.00	203.95	0.00
202.40	0.00	202.92	0.00	203.44	0.00	203.96	0.00
202.41	0.00	202.93	0.00	203.45	0.00	203.97	0.00
202.42	0.00	202.94	0.00	203.46	0.00	203.98	0.00
202.43	0.00	202.95	0.00	203.47	0.00	203.99	0.00
202.44	0.00	202.96	0.00	203.48	0.00	204.00	0.00
202.45	0.00	202.97	0.00	203.49	0.00	204.01	0.00
202.46	0.00	202.98	0.00	203.50	0.00	204.02	0.00
202.47	0.00	202.99	0.00	203.51	0.00	204.03	0.00
202.48	0.00	203.00	0.00	203.52	0.00	204.04	0.00
202.49	0.00	203.01	0.00	203.53	0.00	204.05	0.00
202.50	0.00	203.02	0.00	203.54	0.00	204.06	0.00
202.51	0.00	203.03	0.00	203.55	0.00	204.07	0.00
202.52	0.00	203.04	0.00	203.56	0.00	204.08	0.00
202.53	0.00	203.05	0.00	203.57	0.00	204.09	0.00
202.54	0.00	203.06	0.00	203.58	0.00	204.10	0.00
202.55	0.00	203.07	0.00	203.59	0.00	204.11	0.00
202.56	0.00	203.08	0.00	203.60	0.00	204.12	0.00
202.57	0.00	203.09	0.00	203.61	0.00	204.13	0.00
202.58	0.00	203.10	0.00	203.62	0.00	204.14	0.00
202.59	0.00	203.11	0.00	203.63	0.00	204.15	0.00

Stage-Discharge for Pond B-4B: Basin #4B (continued)

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
204.16	0.00	204.68	0.00	205.20	0.00	205.72	17.03
204.17	0.00	204.69	0.00	205.21	0.00	205.73	18.05
204.18	0.00	204.70	0.00	205.22	0.00	205.74	19.10
204.19	0.00	204.71	0.00	205.23	0.00	205.75	20.17
204.20	0.00	204.72	0.00	205.24	0.00	205.76	21.27
204.21	0.00	204.73	0.00	205.25	0.00	205.77	22.39
204.22	0.00	204.74	0.00	205.26	0.00	205.78	23.53
204.23	0.00	204.75	0.00	205.27	0.00	205.79	24.70
204.24	0.00	204.76	0.00	205.28	0.00	205.80	25.90
204.25	0.00	204.77	0.00	205.29	0.00	205.81	27.11
204.26	0.00	204.78	0.00	205.30	0.00	205.82	28.36
204.27	0.00	204.79	0.00	205.31	0.00	205.83	29.62
204.28	0.00	204.80	0.00	205.32	0.00		
204.29	0.00	204.81	0.00	205.33	0.00		
204.30	0.00	204.82	0.00	205.34	0.00		
204.31	0.00	204.83	0.00	205.35	0.00		
204.32	0.00	204.84	0.00	205.36	0.00		
204.33	0.00	204.85	0.00	205.37	0.00		
204.34	0.00	204.86	0.00	205.38	0.00		
204.35	0.00	204.87	0.00	205.39	0.00		
204.36	0.00	204.88	0.00	205.40	0.00		
204.37	0.00	204.89	0.00	205.41	0.00		
204.38	0.00	204.90	0.00	205.42	0.00		
204.39	0.00	204.91	0.00	205.43	0.00		
204.40	0.00	204.92	0.00	205.44	0.00		
204.41	0.00	204.93	0.00	205.45	0.00		
204.42	0.00	204.94	0.00	205.46	0.12		
204.43	0.00	204.95	0.00	205.47	0.33		
204.44	0.00	204.96	0.00	205.48	0.61		
204.45	0.00	204.97	0.00	205.49	0.94		
204.46	0.00	204.98	0.00	205.50	1.31		
204.47	0.00	204.99	0.00	205.51	1.72		
204.48	0.00	205.00	0.00	205.52	2.17		
204.49	0.00	205.01	0.00	205.53	2.66		
204.50	0.00	205.02	0.00	205.54	3.17		
204.51	0.00	205.03	0.00	205.55	3.72		
204.52	0.00	205.04	0.00	205.56	4.29		
204.53	0.00	205.05	0.00	205.57	4.89		
204.54	0.00	205.06	0.00	205.58	5.52		
204.55	0.00	205.07	0.00	205.59	6.17		
204.56	0.00	205.08	0.00	205.60	6.85		
204.57	0.00	205.09	0.00	205.61	7.55		
204.58	0.00	205.10	0.00	205.62	8.27		
204.59	0.00	205.11	0.00	205.63	9.01		
204.60	0.00	205.12	0.00	205.64	9.78		
204.61	0.00	205.13	0.00	205.65	10.57		
204.62	0.00	205.14	0.00	205.66	11.41		
204.63	0.00	205.15	0.00	205.67	12.28		
204.64	0.00	205.16	0.00	205.68	13.18		
204.65	0.00	205.17	0.00	205.69	14.11		
204.66	0.00	205.18	0.00	205.70	15.05		
204.67	0.00	205.19	0.00	205.71	16.03		

Stage-Area-Storage for Pond B-4B: Basin #4B

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
200.00	1,852	0	200.52	2,226	1,060
200.01	1,859	19	200.53	2,233	1,083
200.02	1,866	37	200.54	2,240	1,105
200.03	1,874	56	200.55	2,247	1,127
200.04	1,881	75	200.56	2,255	1,150
200.05	1,888	93	200.57	2,262	1,172
200.06	1,895	112	200.58	2,269	1,195
200.07	1,902	131	200.59	2,276	1,218
200.08	1,910	150	200.60	2,283	1,241
200.09	1,917	170	200.61	2,291	1,263
200.10	1,924	189	200.62	2,298	1,286
200.11	1,931	208	200.63	2,305	1,309
200.12	1,938	227	200.64	2,312	1,333
200.13	1,945	247	200.65	2,319	1,356
200.14	1,953	266	200.66	2,327	1,379
200.15	1,960	286	200.67	2,334	1,402
200.16	1,967	306	200.68	2,341	1,426
200.17	1,974	325	200.69	2,348	1,449
200.18	1,981	345	200.70	2,355	1,473
200.19	1,989	365	200.71	2,362	1,496
200.20	1,996	385	200.72	2,370	1,520
200.21	2,003	405	200.73	2,377	1,544
200.22	2,010	425	200.74	2,384	1,567
200.23	2,017	445	200.75	2,391	1,591
200.24	2,025	465	200.76	2,398	1,615
200.25	2,032	485	200.77	2,406	1,639
200.26	2,039	506	200.78	2,413	1,663
200.27	2,046	526	200.79	2,420	1,687
200.28	2,053	547	200.80	2,427	1,712
200.29	2,061	567	200.81	2,434	1,736
200.30	2,068	588	200.82	2,442	1,760
200.31	2,075	609	200.83	2,449	1,785
200.32	2,082	629	200.84	2,456	1,809
200.33	2,089	650	200.85	2,463	1,834
200.34	2,096	671	200.86	2,470	1,859
200.35	2,104	692	200.87	2,478	1,883
200.36	2,111	713	200.88	2,485	1,908
200.37	2,118	734	200.89	2,492	1,933
200.38	2,125	756	200.90	2,499	1,958
200.39	2,132	777	200.91	2,506	1,983
200.40	2,140	798	200.92	2,513	2,008
200.41	2,147	820	200.93	2,521	2,033
200.42	2,154	841	200.94	2,528	2,059
200.43	2,161	863	200.95	2,535	2,084
200.44	2,168	884	200.96	2,542	2,109
200.45	2,176	906	200.97	2,549	2,135
200.46	2,183	928	200.98	2,557	2,160
200.47	2,190	950	200.99	2,564	2,186
200.48	2,197	972	201.00	2,571	2,212
200.49	2,204	994	201.01	2,579	2,237
200.50	2,212	1,016	201.02	2,587	2,263
200.51	2,219	1,038	201.03	2,595	2,289

Stage-Area-Storage for Pond B-4B: Basin #4B (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
201.04	2,604	2,315	201.56	3,026	3,779
201.05	2,612	2,341	201.57	3,034	3,809
201.06	2,620	2,367	201.58	3,043	3,839
201.07	2,628	2,393	201.59	3,051	3,870
201.08	2,636	2,420	201.60	3,059	3,900
201.09	2,644	2,446	201.61	3,067	3,931
201.10	2,652	2,473	201.62	3,075	3,962
201.11	2,660	2,499	201.63	3,083	3,993
201.12	2,669	2,526	201.64	3,091	4,023
201.13	2,677	2,553	201.65	3,099	4,054
201.14	2,685	2,579	201.66	3,108	4,085
201.15	2,693	2,606	201.67	3,116	4,117
201.16	2,701	2,633	201.68	3,124	4,148
201.17	2,709	2,660	201.69	3,132	4,179
201.18	2,717	2,687	201.70	3,140	4,210
201.19	2,725	2,715	201.71	3,148	4,242
201.20	2,734	2,742	201.72	3,156	4,273
201.21	2,742	2,769	201.73	3,164	4,305
201.22	2,750	2,797	201.74	3,173	4,337
201.23	2,758	2,824	201.75	3,181	4,368
201.24	2,766	2,852	201.76	3,189	4,400
201.25	2,774	2,880	201.77	3,197	4,432
201.26	2,782	2,907	201.78	3,205	4,464
201.27	2,791	2,935	201.79	3,213	4,496
201.28	2,799	2,963	201.80	3,221	4,528
201.29	2,807	2,991	201.81	3,230	4,561
201.30	2,815	3,019	201.82	3,238	4,593
201.31	2,823	3,048	201.83	3,246	4,625
201.32	2,831	3,076	201.84	3,254	4,658
201.33	2,839	3,104	201.85	3,262	4,691
201.34	2,847	3,133	201.86	3,270	4,723
201.35	2,856	3,161	201.87	3,278	4,756
201.36	2,864	3,190	201.88	3,286	4,789
201.37	2,872	3,218	201.89	3,295	4,822
201.38	2,880	3,247	201.90	3,303	4,855
201.39	2,888	3,276	201.91	3,311	4,888
201.40	2,896	3,305	201.92	3,319	4,921
201.41	2,904	3,334	201.93	3,327	4,954
201.42	2,912	3,363	201.94	3,335	4,987
201.43	2,921	3,392	201.95	3,343	5,021
201.44	2,929	3,421	201.96	3,351	5,054
201.45	2,937	3,451	201.97	3,360	5,088
201.46	2,945	3,480	201.98	3,368	5,121
201.47	2,953	3,510	201.99	3,376	5,155
201.48	2,961	3,539	202.00	3,384	5,189
201.49	2,969	3,569	202.01	3,393	5,223
201.50	2,978	3,599	202.02	3,402	5,257
201.51	2,986	3,628	202.03	3,411	5,291
201.52	2,994	3,658	202.04	3,420	5,325
201.53	3,002	3,688	202.05	3,429	5,359
201.54	3,010	3,718	202.06	3,438	5,394
201.55	3,018	3,749	202.07	3,448	5,428

Stage-Area-Storage for Pond B-4B: Basin #4B (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
202.08	3,457	5,463	202.60	3,929	7,383
202.09	3,466	5,497	202.61	3,938	7,422
202.10	3,475	5,532	202.62	3,947	7,462
202.11	3,484	5,567	202.63	3,956	7,501
202.12	3,493	5,602	202.64	3,965	7,541
202.13	3,502	5,637	202.65	3,974	7,580
202.14	3,511	5,672	202.66	3,983	7,620
202.15	3,520	5,707	202.67	3,992	7,660
202.16	3,529	5,742	202.68	4,001	7,700
202.17	3,538	5,777	202.69	4,011	7,740
202.18	3,547	5,813	202.70	4,020	7,780
202.19	3,557	5,848	202.71	4,029	7,821
202.20	3,566	5,884	202.72	4,038	7,861
202.21	3,575	5,920	202.73	4,047	7,901
202.22	3,584	5,955	202.74	4,056	7,942
202.23	3,593	5,991	202.75	4,065	7,982
202.24	3,602	6,027	202.76	4,074	8,023
202.25	3,611	6,063	202.77	4,083	8,064
202.26	3,620	6,100	202.78	4,092	8,105
202.27	3,629	6,136	202.79	4,101	8,146
202.28	3,638	6,172	202.80	4,110	8,187
202.29	3,647	6,209	202.81	4,119	8,228
202.30	3,656	6,245	202.82	4,129	8,269
202.31	3,665	6,282	202.83	4,138	8,310
202.32	3,675	6,318	202.84	4,147	8,352
202.33	3,684	6,355	202.85	4,156	8,393
202.34	3,693	6,392	202.86	4,165	8,435
202.35	3,702	6,429	202.87	4,174	8,477
202.36	3,711	6,466	202.88	4,183	8,518
202.37	3,720	6,503	202.89	4,192	8,560
202.38	3,729	6,540	202.90	4,201	8,602
202.39	3,738	6,578	202.91	4,210	8,644
202.40	3,747	6,615	202.92	4,219	8,687
202.41	3,756	6,653	202.93	4,228	8,729
202.42	3,765	6,690	202.94	4,238	8,771
202.43	3,774	6,728	202.95	4,247	8,814
202.44	3,784	6,766	202.96	4,256	8,856
202.45	3,793	6,804	202.97	4,265	8,899
202.46	3,802	6,842	202.98	4,274	8,941
202.47	3,811	6,880	202.99	4,283	8,984
202.48	3,820	6,918	203.00	4,292	9,027
202.49	3,829	6,956	203.01	4,302	9,070
202.50	3,838	6,995	203.02	4,312	9,113
202.51	3,847	7,033	203.03	4,322	9,156
202.52	3,856	7,071	203.04	4,332	9,199
202.53	3,865	7,110	203.05	4,342	9,243
202.54	3,874	7,149	203.06	4,352	9,286
202.55	3,883	7,188	203.07	4,362	9,330
202.56	3,892	7,226	203.08	4,372	9,374
202.57	3,902	7,265	203.09	4,382	9,417
202.58	3,911	7,304	203.10	4,392	9,461
202.59	3,920	7,344	203.11	4,402	9,505

Stage-Area-Storage for Pond B-4B: Basin #4B (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
203.12	4,412	9,549	203.64	4,933	11,979
203.13	4,422	9,593	203.65	4,943	12,028
203.14	4,432	9,638	203.66	4,953	12,078
203.15	4,442	9,682	203.67	4,963	12,128
203.16	4,452	9,727	203.68	4,973	12,177
203.17	4,462	9,771	203.69	4,983	12,227
203.18	4,472	9,816	203.70	4,993	12,277
203.19	4,482	9,861	203.71	5,003	12,327
203.20	4,492	9,905	203.72	5,013	12,377
203.21	4,502	9,950	203.73	5,023	12,427
203.22	4,512	9,995	203.74	5,033	12,477
203.23	4,522	10,041	203.75	5,044	12,528
203.24	4,532	10,086	203.76	5,054	12,578
203.25	4,543	10,131	203.77	5,064	12,629
203.26	4,553	10,177	203.78	5,074	12,680
203.27	4,563	10,222	203.79	5,084	12,730
203.28	4,573	10,268	203.80	5,094	12,781
203.29	4,583	10,314	203.81	5,104	12,832
203.30	4,593	10,360	203.82	5,114	12,883
203.31	4,603	10,406	203.83	5,124	12,934
203.32	4,613	10,452	203.84	5,134	12,986
203.33	4,623	10,498	203.85	5,144	13,037
203.34	4,633	10,544	203.86	5,154	13,089
203.35	4,643	10,591	203.87	5,164	13,140
203.36	4,653	10,637	203.88	5,174	13,192
203.37	4,663	10,684	203.89	5,184	13,244
203.38	4,673	10,730	203.90	5,194	13,296
203.39	4,683	10,777	203.91	5,204	13,348
203.40	4,693	10,824	203.92	5,214	13,400
203.41	4,703	10,871	203.93	5,224	13,452
203.42	4,713	10,918	203.94	5,234	13,504
203.43	4,723	10,965	203.95	5,244	13,557
203.44	4,733	11,012	203.96	5,254	13,609
203.45	4,743	11,060	203.97	5,264	13,662
203.46	4,753	11,107	203.98	5,274	13,714
203.47	4,763	11,155	203.99	5,284	13,767
203.48	4,773	11,203	204.00	5,294	13,820
203.49	4,783	11,250	204.01	5,305	13,873
203.50	4,793	11,298	204.02	5,316	13,926
203.51	4,803	11,346	204.03	5,327	13,979
203.52	4,813	11,394	204.04	5,338	14,033
203.53	4,823	11,442	204.05	5,349	14,086
203.54	4,833	11,491	204.06	5,360	14,140
203.55	4,843	11,539	204.07	5,371	14,193
203.56	4,853	11,588	204.08	5,382	14,247
203.57	4,863	11,636	204.09	5,393	14,301
203.58	4,873	11,685	204.10	5,404	14,355
203.59	4,883	11,734	204.11	5,415	14,409
203.60	4,893	11,783	204.12	5,426	14,463
203.61	4,903	11,832	204.13	5,437	14,518
203.62	4,913	11,881	204.14	5,448	14,572
203.63	4,923	11,930	204.15	5,459	14,626

Stage-Area-Storage for Pond B-4B: Basin #4B (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
204.16	5,470	14,681	204.68	6,041	17,674
204.17	5,481	14,736	204.69	6,052	17,734
204.18	5,492	14,791	204.70	6,063	17,795
204.19	5,503	14,846	204.71	6,074	17,856
204.20	5,514	14,901	204.72	6,085	17,917
204.21	5,525	14,956	204.73	6,096	17,977
204.22	5,536	15,011	204.74	6,107	18,038
204.23	5,547	15,067	204.75	6,118	18,100
204.24	5,558	15,122	204.76	6,129	18,161
204.25	5,569	15,178	204.77	6,140	18,222
204.26	5,580	15,234	204.78	6,151	18,284
204.27	5,591	15,289	204.79	6,162	18,345
204.28	5,602	15,345	204.80	6,173	18,407
204.29	5,613	15,401	204.81	6,184	18,469
204.30	5,624	15,458	204.82	6,195	18,531
204.31	5,635	15,514	204.83	6,206	18,593
204.32	5,646	15,570	204.84	6,217	18,655
204.33	5,657	15,627	204.85	6,228	18,717
204.34	5,668	15,683	204.86	6,239	18,779
204.35	5,679	15,740	204.87	6,250	18,842
204.36	5,690	15,797	204.88	6,261	18,904
204.37	5,701	15,854	204.89	6,272	18,967
204.38	5,712	15,911	204.90	6,283	19,030
204.39	5,723	15,968	204.91	6,294	19,093
204.40	5,734	16,026	204.92	6,305	19,156
204.41	5,745	16,083	204.93	6,316	19,219
204.42	5,756	16,140	204.94	6,327	19,282
204.43	5,767	16,198	204.95	6,338	19,345
204.44	5,778	16,256	204.96	6,349	19,409
204.45	5,789	16,314	204.97	6,360	19,472
204.46	5,800	16,372	204.98	6,371	19,536
204.47	5,811	16,430	204.99	6,382	19,600
204.48	5,822	16,488	205.00	6,393	19,664
204.49	5,833	16,546	205.01	6,404	19,727
204.50	5,844	16,604	205.02	6,415	19,792
204.51	5,854	16,663	205.03	6,425	19,856
204.52	5,865	16,721	205.04	6,436	19,920
204.53	5,876	16,780	205.05	6,447	19,985
204.54	5,887	16,839	205.06	6,458	20,049
204.55	5,898	16,898	205.07	6,469	20,114
204.56	5,909	16,957	205.08	6,480	20,178
204.57	5,920	17,016	205.09	6,490	20,243
204.58	5,931	17,075	205.10	6,501	20,308
204.59	5,942	17,135	205.11	6,512	20,373
204.60	5,953	17,194	205.12	6,523	20,438
204.61	5,964	17,254	205.13	6,534	20,504
204.62	5,975	17,314	205.14	6,544	20,569
204.63	5,986	17,373	205.15	6,555	20,635
204.64	5,997	17,433	205.16	6,566	20,700
204.65	6,008	17,493	205.17	6,577	20,766
204.66	6,019	17,553	205.18	6,588	20,832
204.67	6,030	17,614	205.19	6,599	20,898

Stage-Area-Storage for Pond B-4B: Basin #4B (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
205.20	6,609	20,964	205.72	6,934	22,995
205.21	6,620	21,030	205.73	6,934	22,995
205.22	6,631	21,096	205.74	6,934	22,995
205.23	6,642	21,163	205.75	6,934	22,995
205.24	6,653	21,229	205.76	6,934	22,995
205.25	6,664	21,296	205.77	6,934	22,995
205.26	6,674	21,362	205.78	6,934	22,995
205.27	6,685	21,429	205.79	6,934	22,995
205.28	6,696	21,496	205.80	6,934	22,995
205.29	6,707	21,563	205.81	6,934	22,995
205.30	6,718	21,630	205.82	6,934	22,995
205.31	6,728	21,697	205.83	6,934	22,995
205.32	6,739	21,765			
205.33	6,750	21,832			
205.34	6,761	21,900			
205.35	6,772	21,967			
205.36	6,783	22,035			
205.37	6,793	22,103			
205.38	6,804	22,171			
205.39	6,815	22,239			
205.40	6,826	22,307			
205.41	6,837	22,376			
205.42	6,847	22,444			
205.43	6,858	22,513			
205.44	6,869	22,581			
205.45	6,880	22,650			
205.46	6,891	22,719			
205.47	6,902	22,788			
205.48	6,912	22,857			
205.49	6,923	22,926			
205.50	6,934	22,995			
205.51	6,934	22,995			
205.52	6,934	22,995			
205.53	6,934	22,995			
205.54	6,934	22,995			
205.55	6,934	22,995			
205.56	6,934	22,995			
205.57	6,934	22,995			
205.58	6,934	22,995			
205.59	6,934	22,995			
205.60	6,934	22,995			
205.61	6,934	22,995			
205.62	6,934	22,995			
205.63	6,934	22,995			
205.64	6,934	22,995			
205.65	6,934	22,995			
205.66	6,934	22,995			
205.67	6,934	22,995			
205.68	6,934	22,995			
205.69	6,934	22,995			
205.70	6,934	22,995			
205.71	6,934	22,995			

Summary for Pond B-5: Basin #5

Inflow Area = 5.341 ac, 32.20% Impervious, Inflow Depth = 6.66" for Future 100 yr event
 Inflow = 51.38 cfs @ 12.16 hrs, Volume= 2.962 af
 Outflow = 16.28 cfs @ 12.43 hrs, Volume= 2.784 af, Atten= 68%, Lag= 16.3 min
 Primary = 16.28 cfs @ 12.43 hrs, Volume= 2.784 af
 Routed to Link PDA-1 : Proposed Drainage Area #1

Routing by Stor-Ind method, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 Peak Elev= 203.06' @ 12.43 hrs Surf.Area= 15,340 sf Storage= 41,169 cf

Plug-Flow detention time= 144.4 min calculated for 2.784 af (94% of inflow)
 Center-of-Mass det. time= 112.1 min (958.8 - 846.7)

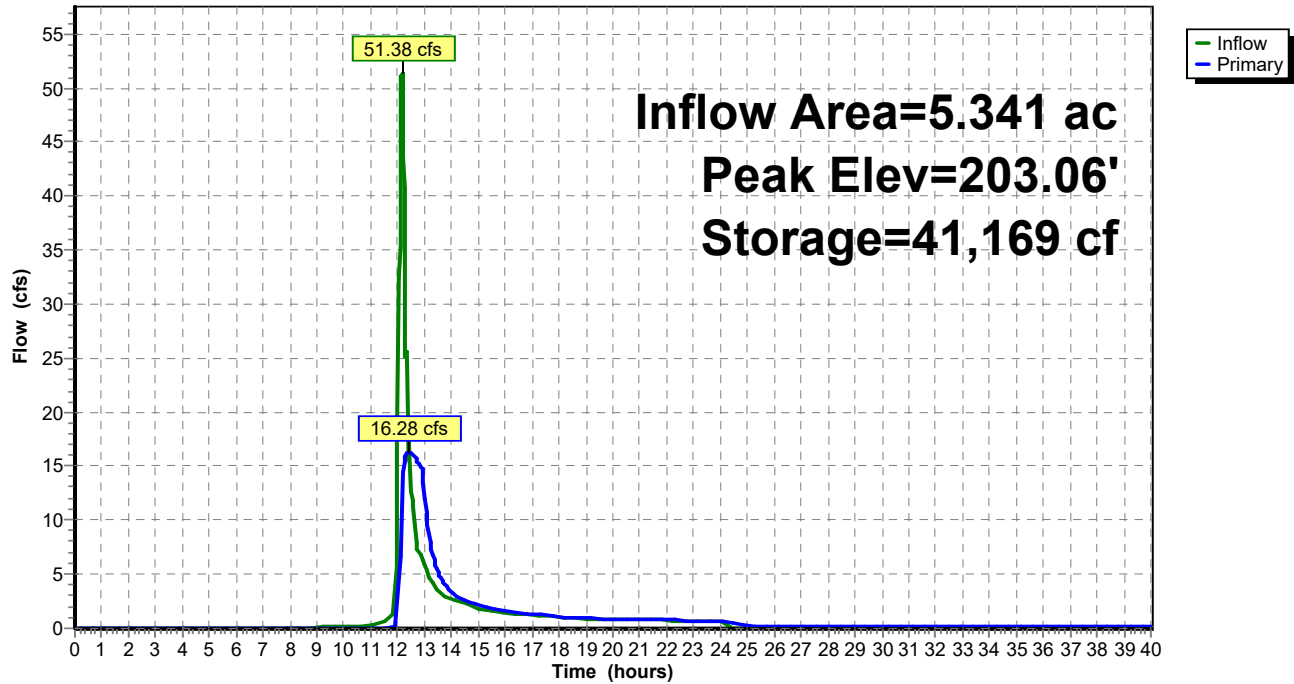
Volume	Invert	Avail.Storage	Storage Description
#1	200.00'	91,976 cf	Custom Stage Data (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
200.00	11,631	0	0
201.00	12,798	12,215	12,215
202.00	14,009	13,404	25,618
203.00	15,262	14,636	40,254
204.00	16,558	15,910	56,164
205.00	17,896	17,227	73,391
206.00	19,275	18,586	91,976

Device	Routing	Invert	Outlet Devices
#1	Primary	198.65'	18.0" Round Culvert L= 70.0' Ke= 0.500 Inlet / Outlet Invert= 198.65' / 196.00' S= 0.0379 '/' Cc= 0.900 n= 0.013, Flow Area= 1.77 sf
#2	Device 1	200.02'	2.5" Vert. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#3	Device 1	201.25'	4.0' long Sharp-Crested Rectangular Weir 2 End Contraction(s)
#4	Primary	205.00'	50.0' long + 3.0 '/' SideZ x 5.0' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 Coef. (English) 2.34 2.50 2.70 2.68 2.68 2.66 2.65 2.65 2.65 2.65 2.67 2.66 2.68 2.70 2.74 2.79 2.88

Primary OutFlow Max=16.27 cfs @ 12.43 hrs HW=203.06' (Free Discharge)

1=Culvert (Inlet Controls 16.27 cfs @ 9.21 fps)
 2=Orifice/Grate (Passes < 0.28 cfs potential flow)
 3=Sharp-Crested Rectangular Weir (Passes < 28.92 cfs potential flow)
 4=Broad-Crested Rectangular Weir (Controls 0.00 cfs)

Pond B-5: Basin #5**Hydrograph**

Stage-Discharge for Pond B-5: Basin #5

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
200.00	0.00	200.52	0.10	201.04	0.16	201.56	2.42
200.01	0.00	200.53	0.10	201.05	0.16	201.57	2.53
200.02	0.00	200.54	0.11	201.06	0.16	201.58	2.64
200.03	0.00	200.55	0.11	201.07	0.16	201.59	2.75
200.04	0.00	200.56	0.11	201.08	0.16	201.60	2.86
200.05	0.00	200.57	0.11	201.09	0.16	201.61	2.97
200.06	0.00	200.58	0.11	201.10	0.16	201.62	3.09
200.07	0.00	200.59	0.11	201.11	0.16	201.63	3.21
200.08	0.01	200.60	0.11	201.12	0.16	201.64	3.33
200.09	0.01	200.61	0.11	201.13	0.16	201.65	3.45
200.10	0.01	200.62	0.12	201.14	0.17	201.66	3.57
200.11	0.01	200.63	0.12	201.15	0.17	201.67	3.69
200.12	0.02	200.64	0.12	201.16	0.17	201.68	3.81
200.13	0.02	200.65	0.12	201.17	0.17	201.69	3.94
200.14	0.02	200.66	0.12	201.18	0.17	201.70	4.07
200.15	0.03	200.67	0.12	201.19	0.17	201.71	4.19
200.16	0.03	200.68	0.12	201.20	0.17	201.72	4.32
200.17	0.03	200.69	0.12	201.21	0.17	201.73	4.45
200.18	0.04	200.70	0.12	201.22	0.17	201.74	4.59
200.19	0.04	200.71	0.13	201.23	0.17	201.75	4.72
200.20	0.05	200.72	0.13	201.24	0.17	201.76	4.85
200.21	0.05	200.73	0.13	201.25	0.17	201.77	4.99
200.22	0.05	200.74	0.13	201.26	0.19	201.78	5.12
200.23	0.05	200.75	0.13	201.27	0.21	201.79	5.26
200.24	0.06	200.76	0.13	201.28	0.24	201.80	5.40
200.25	0.06	200.77	0.13	201.29	0.28	201.81	5.54
200.26	0.06	200.78	0.13	201.30	0.32	201.82	5.68
200.27	0.06	200.79	0.13	201.31	0.37	201.83	5.82
200.28	0.06	200.80	0.13	201.32	0.42	201.84	5.97
200.29	0.07	200.81	0.14	201.33	0.48	201.85	6.11
200.30	0.07	200.82	0.14	201.34	0.53	201.86	6.26
200.31	0.07	200.83	0.14	201.35	0.59	201.87	6.40
200.32	0.07	200.84	0.14	201.36	0.66	201.88	6.55
200.33	0.07	200.85	0.14	201.37	0.72	201.89	6.70
200.34	0.08	200.86	0.14	201.38	0.79	201.90	6.85
200.35	0.08	200.87	0.14	201.39	0.87	201.91	7.00
200.36	0.08	200.88	0.14	201.40	0.94	201.92	7.15
200.37	0.08	200.89	0.14	201.41	1.02	201.93	7.31
200.38	0.08	200.90	0.14	201.42	1.10	201.94	7.46
200.39	0.08	200.91	0.15	201.43	1.18	201.95	7.61
200.40	0.09	200.92	0.15	201.44	1.26	201.96	7.77
200.41	0.09	200.93	0.15	201.45	1.35	201.97	7.93
200.42	0.09	200.94	0.15	201.46	1.44	201.98	8.08
200.43	0.09	200.95	0.15	201.47	1.53	201.99	8.24
200.44	0.09	200.96	0.15	201.48	1.62	202.00	8.40
200.45	0.09	200.97	0.15	201.49	1.71	202.01	8.56
200.46	0.10	200.98	0.15	201.50	1.81	202.02	8.72
200.47	0.10	200.99	0.15	201.51	1.90	202.03	8.89
200.48	0.10	201.00	0.15	201.52	2.00	202.04	9.05
200.49	0.10	201.01	0.15	201.53	2.11	202.05	9.21
200.50	0.10	201.02	0.16	201.54	2.21	202.06	9.38
200.51	0.10	201.03	0.16	201.55	2.31	202.07	9.54

Stage-Discharge for Pond B-5: Basin #5 (continued)

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
202.08	9.71	202.60	15.22	203.12	16.41	203.64	17.52
202.09	9.88	202.61	15.24	203.13	16.43	203.65	17.54
202.10	10.05	202.62	15.27	203.14	16.46	203.66	17.56
202.11	10.21	202.63	15.29	203.15	16.48	203.67	17.58
202.12	10.38	202.64	15.32	203.16	16.50	203.68	17.60
202.13	10.56	202.65	15.34	203.17	16.52	203.69	17.62
202.14	10.73	202.66	15.36	203.18	16.54	203.70	17.64
202.15	10.90	202.67	15.39	203.19	16.56	203.71	17.66
202.16	11.07	202.68	15.41	203.20	16.59	203.72	17.69
202.17	11.25	202.69	15.43	203.21	16.61	203.73	17.71
202.18	11.42	202.70	15.46	203.22	16.63	203.74	17.73
202.19	11.60	202.71	15.48	203.23	16.65	203.75	17.75
202.20	11.77	202.72	15.50	203.24	16.67	203.76	17.77
202.21	11.95	202.73	15.53	203.25	16.70	203.77	17.79
202.22	12.13	202.74	15.55	203.26	16.72	203.78	17.81
202.23	12.31	202.75	15.57	203.27	16.74	203.79	17.83
202.24	12.49	202.76	15.60	203.28	16.76	203.80	17.85
202.25	12.67	202.77	15.62	203.29	16.78	203.81	17.87
202.26	12.85	202.78	15.64	203.30	16.80	203.82	17.89
202.27	13.03	202.79	15.67	203.31	16.82	203.83	17.91
202.28	13.21	202.80	15.69	203.32	16.85	203.84	17.93
202.29	13.39	202.81	15.71	203.33	16.87	203.85	17.95
202.30	13.58	202.82	15.74	203.34	16.89	203.86	17.97
202.31	13.76	202.83	15.76	203.35	16.91	203.87	17.99
202.32	13.95	202.84	15.78	203.36	16.93	203.88	18.01
202.33	14.13	202.85	15.80	203.37	16.95	203.89	18.03
202.34	14.32	202.86	15.83	203.38	16.97	203.90	18.05
202.35	14.51	202.87	15.85	203.39	17.00	203.91	18.07
202.36	14.64	202.88	15.87	203.40	17.02	203.92	18.09
202.37	14.66	202.89	15.90	203.41	17.04	203.93	18.11
202.38	14.69	202.90	15.92	203.42	17.06	203.94	18.13
202.39	14.71	202.91	15.94	203.43	17.08	203.95	18.15
202.40	14.74	202.92	15.96	203.44	17.10	203.96	18.17
202.41	14.76	202.93	15.99	203.45	17.12	203.97	18.19
202.42	14.79	202.94	16.01	203.46	17.14	203.98	18.21
202.43	14.81	202.95	16.03	203.47	17.17	203.99	18.23
202.44	14.84	202.96	16.05	203.48	17.19	204.00	18.25
202.45	14.86	202.97	16.08	203.49	17.21	204.01	18.27
202.46	14.88	202.98	16.10	203.50	17.23	204.02	18.29
202.47	14.91	202.99	16.12	203.51	17.25	204.03	18.31
202.48	14.93	203.00	16.14	203.52	17.27	204.04	18.33
202.49	14.96	203.01	16.17	203.53	17.29	204.05	18.35
202.50	14.98	203.02	16.19	203.54	17.31	204.06	18.37
202.51	15.01	203.03	16.21	203.55	17.33	204.07	18.39
202.52	15.03	203.04	16.23	203.56	17.35	204.08	18.41
202.53	15.05	203.05	16.26	203.57	17.38	204.09	18.43
202.54	15.08	203.06	16.28	203.58	17.40	204.10	18.45
202.55	15.10	203.07	16.30	203.59	17.42	204.11	18.47
202.56	15.13	203.08	16.32	203.60	17.44	204.12	18.49
202.57	15.15	203.09	16.34	203.61	17.46	204.13	18.51
202.58	15.17	203.10	16.37	203.62	17.48	204.14	18.52
202.59	15.20	203.11	16.39	203.63	17.50	204.15	18.54

Stage-Discharge for Pond B-5: Basin #5 (continued)

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
204.16	18.56	204.68	19.55	205.20	31.06	205.72	106.34
204.17	18.58	204.69	19.57	205.21	31.92	205.73	108.14
204.18	18.60	204.70	19.59	205.22	32.81	205.74	109.95
204.19	18.62	204.71	19.61	205.23	33.73	205.75	111.78
204.20	18.64	204.72	19.63	205.24	34.67	205.76	113.62
204.21	18.66	204.73	19.64	205.25	35.63	205.77	115.47
204.22	18.68	204.74	19.66	205.26	36.62	205.78	117.33
204.23	18.70	204.75	19.68	205.27	37.64	205.79	119.20
204.24	18.72	204.76	19.70	205.28	38.68	205.80	121.09
204.25	18.74	204.77	19.72	205.29	39.75	205.81	123.03
204.26	18.76	204.78	19.74	205.30	40.84	205.82	124.98
204.27	18.78	204.79	19.75	205.31	41.95	205.83	126.94
204.28	18.80	204.80	19.77	205.32	43.09	205.84	128.92
204.29	18.82	204.81	19.79	205.33	44.25	205.85	130.90
204.30	18.83	204.82	19.81	205.34	45.44	205.86	132.91
204.31	18.85	204.83	19.83	205.35	46.65	205.87	134.92
204.32	18.87	204.84	19.85	205.36	47.89	205.88	136.95
204.33	18.89	204.85	19.86	205.37	49.15	205.89	138.99
204.34	18.91	204.86	19.88	205.38	50.43	205.90	141.05
204.35	18.93	204.87	19.90	205.39	51.74	205.91	143.11
204.36	18.95	204.88	19.92	205.40	53.07	205.92	145.19
204.37	18.97	204.89	19.94	205.41	54.46	205.93	147.29
204.38	18.99	204.90	19.95	205.42	55.86	205.94	149.39
204.39	19.01	204.91	19.97	205.43	57.30	205.95	151.51
204.40	19.03	204.92	19.99	205.44	58.76	205.96	153.64
204.41	19.05	204.93	20.01	205.45	60.25	205.97	155.79
204.42	19.06	204.94	20.03	205.46	61.76	205.98	157.94
204.43	19.08	204.95	20.05	205.47	63.30	205.99	160.11
204.44	19.10	204.96	20.06	205.48	64.87	206.00	162.29
204.45	19.12	204.97	20.08	205.49	66.46		
204.46	19.14	204.98	20.10	205.50	68.08		
204.47	19.16	204.99	20.12	205.51	69.73		
204.48	19.18	205.00	20.14	205.52	71.40		
204.49	19.20	205.01	20.27	205.53	73.10		
204.50	19.22	205.02	20.50	205.54	74.82		
204.51	19.23	205.03	20.80	205.55	76.57		
204.52	19.25	205.04	21.14	205.56	78.35		
204.53	19.27	205.05	21.54	205.57	80.16		
204.54	19.29	205.06	21.97	205.58	81.99		
204.55	19.31	205.07	22.44	205.59	83.85		
204.56	19.33	205.08	22.94	205.60	85.74		
204.57	19.35	205.09	23.47	205.61	87.38		
204.58	19.37	205.10	24.03	205.62	89.04		
204.59	19.38	205.11	24.62	205.63	90.71		
204.60	19.40	205.12	25.24	205.64	92.39		
204.61	19.42	205.13	25.89	205.65	94.09		
204.62	19.44	205.14	26.56	205.66	95.80		
204.63	19.46	205.15	27.25	205.67	97.53		
204.64	19.48	205.16	27.97	205.68	99.26		
204.65	19.50	205.17	28.71	205.69	101.01		
204.66	19.51	205.18	29.47	205.70	102.78		
204.67	19.53	205.19	30.25	205.71	104.55		

Stage-Area-Storage for Pond B-5: Basin #5

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
200.00	11,631	0	200.52	12,238	6,206
200.01	11,643	116	200.53	12,250	6,328
200.02	11,654	233	200.54	12,261	6,451
200.03	11,666	349	200.55	12,273	6,574
200.04	11,678	466	200.56	12,285	6,696
200.05	11,689	583	200.57	12,296	6,819
200.06	11,701	700	200.58	12,308	6,942
200.07	11,713	817	200.59	12,320	7,065
200.08	11,724	934	200.60	12,331	7,189
200.09	11,736	1,052	200.61	12,343	7,312
200.10	11,748	1,169	200.62	12,355	7,436
200.11	11,759	1,286	200.63	12,366	7,559
200.12	11,771	1,404	200.64	12,378	7,683
200.13	11,783	1,522	200.65	12,390	7,807
200.14	11,794	1,640	200.66	12,401	7,931
200.15	11,806	1,758	200.67	12,413	8,055
200.16	11,818	1,876	200.68	12,425	8,179
200.17	11,829	1,994	200.69	12,436	8,303
200.18	11,841	2,112	200.70	12,448	8,428
200.19	11,853	2,231	200.71	12,460	8,552
200.20	11,864	2,350	200.72	12,471	8,677
200.21	11,876	2,468	200.73	12,483	8,802
200.22	11,888	2,587	200.74	12,495	8,926
200.23	11,899	2,706	200.75	12,506	9,051
200.24	11,911	2,825	200.76	12,518	9,177
200.25	11,923	2,944	200.77	12,530	9,302
200.26	11,934	3,064	200.78	12,541	9,427
200.27	11,946	3,183	200.79	12,553	9,553
200.28	11,958	3,302	200.80	12,565	9,678
200.29	11,969	3,422	200.81	12,576	9,804
200.30	11,981	3,542	200.82	12,588	9,930
200.31	11,993	3,662	200.83	12,600	10,056
200.32	12,004	3,782	200.84	12,611	10,182
200.33	12,016	3,902	200.85	12,623	10,308
200.34	12,028	4,022	200.86	12,635	10,434
200.35	12,039	4,142	200.87	12,646	10,561
200.36	12,051	4,263	200.88	12,658	10,687
200.37	12,063	4,383	200.89	12,670	10,814
200.38	12,074	4,504	200.90	12,681	10,941
200.39	12,086	4,625	200.91	12,693	11,067
200.40	12,098	4,746	200.92	12,705	11,194
200.41	12,109	4,867	200.93	12,716	11,321
200.42	12,121	4,988	200.94	12,728	11,449
200.43	12,133	5,109	200.95	12,740	11,576
200.44	12,144	5,231	200.96	12,751	11,704
200.45	12,156	5,352	200.97	12,763	11,831
200.46	12,168	5,474	200.98	12,775	11,959
200.47	12,179	5,595	200.99	12,786	12,087
200.48	12,191	5,717	201.00	12,798	12,215
200.49	12,203	5,839	201.01	12,810	12,343
200.50	12,215	5,961	201.02	12,822	12,471
200.51	12,226	6,084	201.03	12,834	12,599

Stage-Area-Storage for Pond B-5: Basin #5 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
201.04	12,846	12,727	201.56	13,476	19,571
201.05	12,859	12,856	201.57	13,488	19,706
201.06	12,871	12,985	201.58	13,500	19,841
201.07	12,883	13,113	201.59	13,512	19,976
201.08	12,895	13,242	201.60	13,525	20,111
201.09	12,907	13,371	201.61	13,537	20,247
201.10	12,919	13,500	201.62	13,549	20,382
201.11	12,931	13,630	201.63	13,561	20,518
201.12	12,943	13,759	201.64	13,573	20,653
201.13	12,955	13,888	201.65	13,585	20,789
201.14	12,968	14,018	201.66	13,597	20,925
201.15	12,980	14,148	201.67	13,609	21,061
201.16	12,992	14,278	201.68	13,621	21,197
201.17	13,004	14,408	201.69	13,634	21,333
201.18	13,016	14,538	201.70	13,646	21,470
201.19	13,028	14,668	201.71	13,658	21,606
201.20	13,040	14,798	201.72	13,670	21,743
201.21	13,052	14,929	201.73	13,682	21,880
201.22	13,064	15,059	201.74	13,694	22,017
201.23	13,077	15,190	201.75	13,706	22,154
201.24	13,089	15,321	201.76	13,718	22,291
201.25	13,101	15,452	201.77	13,730	22,428
201.26	13,113	15,583	201.78	13,743	22,565
201.27	13,125	15,714	201.79	13,755	22,703
201.28	13,137	15,845	201.80	13,767	22,840
201.29	13,149	15,977	201.81	13,779	22,978
201.30	13,161	16,108	201.82	13,791	23,116
201.31	13,173	16,240	201.83	13,803	23,254
201.32	13,186	16,372	201.84	13,815	23,392
201.33	13,198	16,504	201.85	13,827	23,530
201.34	13,210	16,636	201.86	13,839	23,669
201.35	13,222	16,768	201.87	13,852	23,807
201.36	13,234	16,900	201.88	13,864	23,946
201.37	13,246	17,033	201.89	13,876	24,084
201.38	13,258	17,165	201.90	13,888	24,223
201.39	13,270	17,298	201.91	13,900	24,362
201.40	13,282	17,431	201.92	13,912	24,501
201.41	13,295	17,563	201.93	13,924	24,640
201.42	13,307	17,696	201.94	13,936	24,780
201.43	13,319	17,830	201.95	13,948	24,919
201.44	13,331	17,963	201.96	13,961	25,059
201.45	13,343	18,096	201.97	13,973	25,198
201.46	13,355	18,230	201.98	13,985	25,338
201.47	13,367	18,363	201.99	13,997	25,478
201.48	13,379	18,497	202.00	14,009	25,618
201.49	13,391	18,631	202.01	14,022	25,758
201.50	13,404	18,765	202.02	14,034	25,898
201.51	13,416	18,899	202.03	14,047	26,039
201.52	13,428	19,033	202.04	14,059	26,179
201.53	13,440	19,168	202.05	14,072	26,320
201.54	13,452	19,302	202.06	14,084	26,461
201.55	13,464	19,437	202.07	14,097	26,602

Stage-Area-Storage for Pond B-5: Basin #5 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
202.08	14,109	26,743	202.60	14,761	34,249
202.09	14,122	26,884	202.61	14,773	34,397
202.10	14,134	27,025	202.62	14,786	34,544
202.11	14,147	27,167	202.63	14,798	34,692
202.12	14,159	27,308	202.64	14,811	34,840
202.13	14,172	27,450	202.65	14,823	34,989
202.14	14,184	27,592	202.66	14,836	35,137
202.15	14,197	27,733	202.67	14,849	35,285
202.16	14,209	27,875	202.68	14,861	35,434
202.17	14,222	28,018	202.69	14,874	35,582
202.18	14,235	28,160	202.70	14,886	35,731
202.19	14,247	28,302	202.71	14,899	35,880
202.20	14,260	28,445	202.72	14,911	36,029
202.21	14,272	28,588	202.73	14,924	36,178
202.22	14,285	28,730	202.74	14,936	36,328
202.23	14,297	28,873	202.75	14,949	36,477
202.24	14,310	29,016	202.76	14,961	36,627
202.25	14,322	29,159	202.77	14,974	36,776
202.26	14,335	29,303	202.78	14,986	36,926
202.27	14,347	29,446	202.79	14,999	37,076
202.28	14,360	29,590	202.80	15,011	37,226
202.29	14,372	29,733	202.81	15,024	37,376
202.30	14,385	29,877	202.82	15,036	37,527
202.31	14,397	30,021	202.83	15,049	37,677
202.32	14,410	30,165	202.84	15,062	37,828
202.33	14,422	30,309	202.85	15,074	37,978
202.34	14,435	30,453	202.86	15,087	38,129
202.35	14,448	30,598	202.87	15,099	38,280
202.36	14,460	30,742	202.88	15,112	38,431
202.37	14,473	30,887	202.89	15,124	38,582
202.38	14,485	31,032	202.90	15,137	38,734
202.39	14,498	31,177	202.91	15,149	38,885
202.40	14,510	31,322	202.92	15,162	39,037
202.41	14,523	31,467	202.93	15,174	39,188
202.42	14,535	31,612	202.94	15,187	39,340
202.43	14,548	31,758	202.95	15,199	39,492
202.44	14,560	31,903	202.96	15,212	39,644
202.45	14,573	32,049	202.97	15,224	39,796
202.46	14,585	32,195	202.98	15,237	39,949
202.47	14,598	32,341	202.99	15,249	40,101
202.48	14,610	32,487	203.00	15,262	40,254
202.49	14,623	32,633	203.01	15,275	40,406
202.50	14,636	32,779	203.02	15,288	40,559
202.51	14,648	32,926	203.03	15,301	40,712
202.52	14,661	33,072	203.04	15,314	40,865
202.53	14,673	33,219	203.05	15,327	41,018
202.54	14,686	33,366	203.06	15,340	41,172
202.55	14,698	33,512	203.07	15,353	41,325
202.56	14,711	33,660	203.08	15,366	41,479
202.57	14,723	33,807	203.09	15,379	41,632
202.58	14,736	33,954	203.10	15,392	41,786
202.59	14,748	34,101	203.11	15,405	41,940

Stage-Area-Storage for Pond B-5: Basin #5 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
203.12	15,418	42,094	203.64	16,091	50,287
203.13	15,430	42,249	203.65	16,104	50,448
203.14	15,443	42,403	203.66	16,117	50,609
203.15	15,456	42,557	203.67	16,130	50,770
203.16	15,469	42,712	203.68	16,143	50,931
203.17	15,482	42,867	203.69	16,156	51,093
203.18	15,495	43,022	203.70	16,169	51,254
203.19	15,508	43,177	203.71	16,182	51,416
203.20	15,521	43,332	203.72	16,195	51,578
203.21	15,534	43,487	203.73	16,208	51,740
203.22	15,547	43,643	203.74	16,221	51,902
203.23	15,560	43,798	203.75	16,234	52,065
203.24	15,573	43,954	203.76	16,247	52,227
203.25	15,586	44,110	203.77	16,260	52,389
203.26	15,599	44,265	203.78	16,273	52,552
203.27	15,612	44,421	203.79	16,286	52,715
203.28	15,625	44,578	203.80	16,299	52,878
203.29	15,638	44,734	203.81	16,312	53,041
203.30	15,651	44,890	203.82	16,325	53,204
203.31	15,664	45,047	203.83	16,338	53,367
203.32	15,677	45,204	203.84	16,351	53,531
203.33	15,690	45,361	203.85	16,364	53,694
203.34	15,703	45,517	203.86	16,377	53,858
203.35	15,716	45,675	203.87	16,390	54,022
203.36	15,729	45,832	203.88	16,402	54,186
203.37	15,742	45,989	203.89	16,415	54,350
203.38	15,754	46,147	203.90	16,428	54,514
203.39	15,767	46,304	203.91	16,441	54,679
203.40	15,780	46,462	203.92	16,454	54,843
203.41	15,793	46,620	203.93	16,467	55,008
203.42	15,806	46,778	203.94	16,480	55,172
203.43	15,819	46,936	203.95	16,493	55,337
203.44	15,832	47,094	203.96	16,506	55,502
203.45	15,845	47,253	203.97	16,519	55,667
203.46	15,858	47,411	203.98	16,532	55,833
203.47	15,871	47,570	203.99	16,545	55,998
203.48	15,884	47,729	204.00	16,558	56,164
203.49	15,897	47,887	204.01	16,571	56,329
203.50	15,910	48,047	204.02	16,585	56,495
203.51	15,923	48,206	204.03	16,598	56,661
203.52	15,936	48,365	204.04	16,612	56,827
203.53	15,949	48,524	204.05	16,625	56,993
203.54	15,962	48,684	204.06	16,638	57,159
203.55	15,975	48,844	204.07	16,652	57,326
203.56	15,988	49,003	204.08	16,665	57,492
203.57	16,001	49,163	204.09	16,678	57,659
203.58	16,014	49,323	204.10	16,692	57,826
203.59	16,027	49,484	204.11	16,705	57,993
203.60	16,040	49,644	204.12	16,719	58,160
203.61	16,053	49,804	204.13	16,732	58,327
203.62	16,066	49,965	204.14	16,745	58,495
203.63	16,078	50,126	204.15	16,759	58,662

Stage-Area-Storage for Pond B-5: Basin #5 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
204.16	16,772	58,830	204.68	17,468	67,732
204.17	16,785	58,998	204.69	17,481	67,907
204.18	16,799	59,166	204.70	17,495	68,082
204.19	16,812	59,334	204.71	17,508	68,257
204.20	16,826	59,502	204.72	17,521	68,432
204.21	16,839	59,670	204.73	17,535	68,607
204.22	16,852	59,839	204.74	17,548	68,783
204.23	16,866	60,007	204.75	17,562	68,958
204.24	16,879	60,176	204.76	17,575	69,134
204.25	16,893	60,345	204.77	17,588	69,310
204.26	16,906	60,514	204.78	17,602	69,486
204.27	16,919	60,683	204.79	17,615	69,662
204.28	16,933	60,852	204.80	17,628	69,838
204.29	16,946	61,022	204.81	17,642	70,014
204.30	16,959	61,191	204.82	17,655	70,191
204.31	16,973	61,361	204.83	17,669	70,368
204.32	16,986	61,531	204.84	17,682	70,544
204.33	17,000	61,700	204.85	17,695	70,721
204.34	17,013	61,871	204.86	17,709	70,898
204.35	17,026	62,041	204.87	17,722	71,075
204.36	17,040	62,211	204.88	17,735	71,253
204.37	17,053	62,382	204.89	17,749	71,430
204.38	17,066	62,552	204.90	17,762	71,608
204.39	17,080	62,723	204.91	17,776	71,785
204.40	17,093	62,894	204.92	17,789	71,963
204.41	17,107	63,065	204.93	17,802	72,141
204.42	17,120	63,236	204.94	17,816	72,319
204.43	17,133	63,407	204.95	17,829	72,497
204.44	17,147	63,579	204.96	17,842	72,676
204.45	17,160	63,750	204.97	17,856	72,854
204.46	17,173	63,922	204.98	17,869	73,033
204.47	17,187	64,094	204.99	17,883	73,212
204.48	17,200	64,265	205.00	17,896	73,391
204.49	17,214	64,438	205.01	17,910	73,570
204.50	17,227	64,610	205.02	17,924	73,749
204.51	17,240	64,782	205.03	17,937	73,928
204.52	17,254	64,955	205.04	17,951	74,107
204.53	17,267	65,127	205.05	17,965	74,287
204.54	17,281	65,300	205.06	17,979	74,467
204.55	17,294	65,473	205.07	17,993	74,647
204.56	17,307	65,646	205.08	18,006	74,827
204.57	17,321	65,819	205.09	18,020	75,007
204.58	17,334	65,992	205.10	18,034	75,187
204.59	17,347	66,166	205.11	18,048	75,367
204.60	17,361	66,339	205.12	18,061	75,548
204.61	17,374	66,513	205.13	18,075	75,729
204.62	17,388	66,687	205.14	18,089	75,909
204.63	17,401	66,861	205.15	18,103	76,090
204.64	17,414	67,035	205.16	18,117	76,272
204.65	17,428	67,209	205.17	18,130	76,453
204.66	17,441	67,383	205.18	18,144	76,634
204.67	17,454	67,558	205.19	18,158	76,816

Stage-Area-Storage for Pond B-5: Basin #5 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
205.20	18,172	76,997	205.72	18,889	86,633
205.21	18,186	77,179	205.73	18,903	86,822
205.22	18,199	77,361	205.74	18,916	87,011
205.23	18,213	77,543	205.75	18,930	87,200
205.24	18,227	77,725	205.76	18,944	87,390
205.25	18,241	77,908	205.77	18,958	87,579
205.26	18,255	78,090	205.78	18,972	87,769
205.27	18,268	78,273	205.79	18,985	87,959
205.28	18,282	78,455	205.80	18,999	88,149
205.29	18,296	78,638	205.81	19,013	88,339
205.30	18,310	78,821	205.82	19,027	88,529
205.31	18,323	79,005	205.83	19,041	88,719
205.32	18,337	79,188	205.84	19,054	88,910
205.33	18,351	79,371	205.85	19,068	89,100
205.34	18,365	79,555	205.86	19,082	89,291
205.35	18,379	79,739	205.87	19,096	89,482
205.36	18,392	79,922	205.88	19,110	89,673
205.37	18,406	80,106	205.89	19,123	89,864
205.38	18,420	80,291	205.90	19,137	90,055
205.39	18,434	80,475	205.91	19,151	90,247
205.40	18,448	80,659	205.92	19,165	90,438
205.41	18,461	80,844	205.93	19,178	90,630
205.42	18,475	81,028	205.94	19,192	90,822
205.43	18,489	81,213	205.95	19,206	91,014
205.44	18,503	81,398	205.96	19,220	91,206
205.45	18,517	81,583	205.97	19,234	91,398
205.46	18,530	81,769	205.98	19,247	91,591
205.47	18,544	81,954	205.99	19,261	91,783
205.48	18,558	82,139	206.00	19,275	91,976
205.49	18,572	82,325			
205.50	18,586	82,511			
205.51	18,599	82,697			
205.52	18,613	82,883			
205.53	18,627	83,069			
205.54	18,641	83,255			
205.55	18,654	83,442			
205.56	18,668	83,628			
205.57	18,682	83,815			
205.58	18,696	84,002			
205.59	18,710	84,189			
205.60	18,723	84,376			
205.61	18,737	84,564			
205.62	18,751	84,751			
205.63	18,765	84,939			
205.64	18,779	85,126			
205.65	18,792	85,314			
205.66	18,806	85,502			
205.67	18,820	85,690			
205.68	18,834	85,879			
205.69	18,848	86,067			
205.70	18,861	86,256			
205.71	18,875	86,444			

Summary for Pond B-6: Basin #6

Inflow Area = 1.191 ac, 58.27% Impervious, Inflow Depth = 9.70" for Future 100 yr event
 Inflow = 11.37 cfs @ 12.17 hrs, Volume= 0.962 af
 Outflow = 8.93 cfs @ 12.25 hrs, Volume= 0.888 af, Atten= 21%, Lag= 4.9 min
 Primary = 8.93 cfs @ 12.25 hrs, Volume= 0.888 af
 Routed to Link PDA-1 : Proposed Drainage Area #1

Routing by Stor-Ind method, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 Peak Elev= 200.89' @ 12.25 hrs Surf.Area= 6,681 sf Storage= 11,364 cf

Plug-Flow detention time= 184.1 min calculated for 0.887 af (92% of inflow)
 Center-of-Mass det. time= 142.8 min (907.5 - 764.7)

Volume	Invert	Avail.Storage	Storage Description
#1	199.00'	35,769 cf	Custom Stage Data (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
199.00	5,389	0	0
200.00	6,060	5,725	5,725
201.00	6,761	6,411	12,135
202.00	7,490	7,126	19,261
203.00	8,247	7,869	27,129
204.00	9,032	8,640	35,769

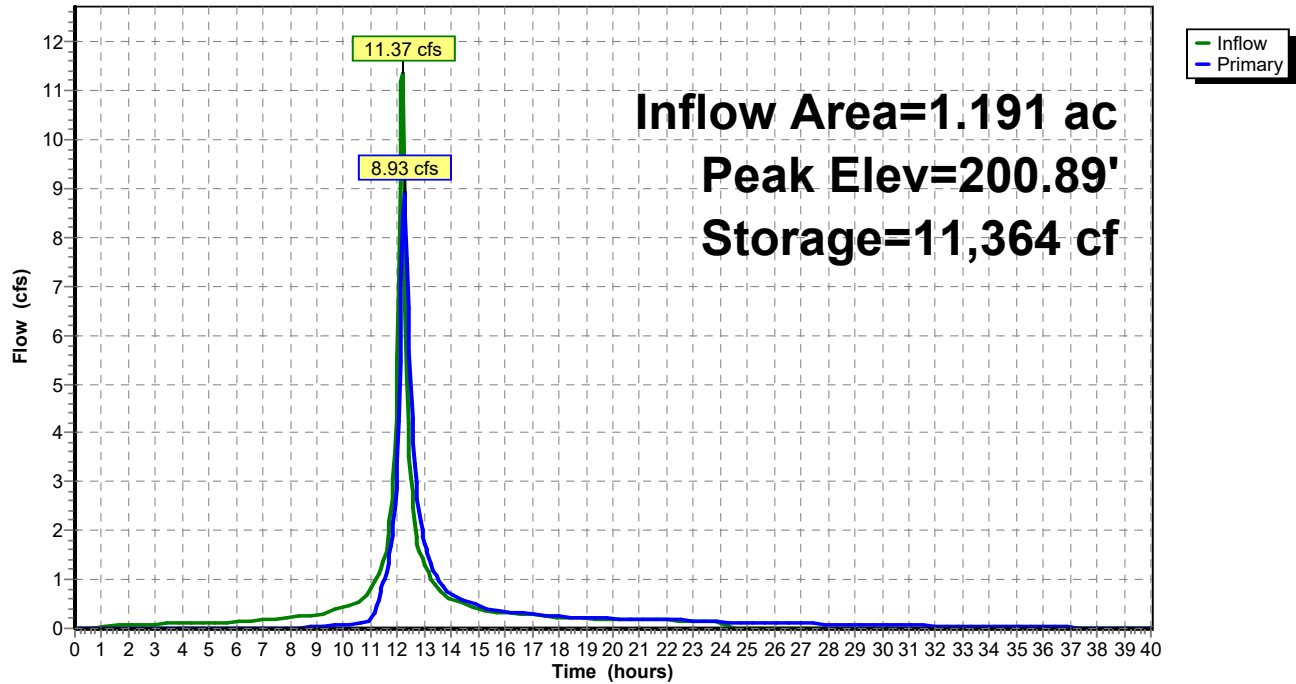
Device	Routing	Invert	Outlet Devices
#1	Primary	197.65'	18.0" Round Culvert L= 627.0' Ke= 0.500 Inlet / Outlet Invert= 197.65' / 194.00' S= 0.0058 '/' Cc= 0.900 n= 0.013, Flow Area= 1.77 sf
#2	Device 1	199.50'	2.5" Vert. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#3	Device 1	200.10'	4.0' long Sharp-Crested Rectangular Weir 2 End Contraction(s)
#4	Primary	200.89'	50.0' long + 3.0 '/' SideZ x 5.0' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 Coef. (English) 2.34 2.50 2.70 2.68 2.68 2.66 2.65 2.65 2.65 2.65 2.67 2.66 2.68 2.70 2.74 2.79 2.88

Primary OutFlow Max=8.92 cfs @ 12.25 hrs HW=200.88' (Free Discharge)

1=Culvert (Passes 8.92 cfs of 9.14 cfs potential flow)
 2=Orifice/Grate (Orifice Controls 0.19 cfs @ 5.45 fps)
 3=Sharp-Crested Rectangular Weir (Weir Controls 8.74 cfs @ 2.90 fps)
 4=Broad-Crested Rectangular Weir (Controls 0.00 cfs)

Pond B-6: Basin #6

Hydrograph



Stage-Discharge for Pond B-6: Basin #6

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
199.00	0.00	199.52	0.00	200.04	0.11	200.56	4.15
199.01	0.00	199.53	0.00	200.05	0.11	200.57	4.28
199.02	0.00	199.54	0.00	200.06	0.11	200.58	4.41
199.03	0.00	199.55	0.00	200.07	0.11	200.59	4.54
199.04	0.00	199.56	0.01	200.08	0.11	200.60	4.67
199.05	0.00	199.57	0.01	200.09	0.11	200.61	4.81
199.06	0.00	199.58	0.01	200.10	0.12	200.62	4.94
199.07	0.00	199.59	0.01	200.11	0.13	200.63	5.08
199.08	0.00	199.60	0.02	200.12	0.15	200.64	5.22
199.09	0.00	199.61	0.02	200.13	0.19	200.65	5.36
199.10	0.00	199.62	0.02	200.14	0.22	200.66	5.50
199.11	0.00	199.63	0.03	200.15	0.27	200.67	5.64
199.12	0.00	199.64	0.03	200.16	0.31	200.68	5.78
199.13	0.00	199.65	0.03	200.17	0.36	200.69	5.92
199.14	0.00	199.66	0.04	200.18	0.42	200.70	6.07
199.15	0.00	199.67	0.04	200.19	0.48	200.71	6.21
199.16	0.00	199.68	0.05	200.20	0.54	200.72	6.36
199.17	0.00	199.69	0.05	200.21	0.60	200.73	6.51
199.18	0.00	199.70	0.05	200.22	0.67	200.74	6.66
199.19	0.00	199.71	0.05	200.23	0.74	200.75	6.81
199.20	0.00	199.72	0.06	200.24	0.81	200.76	6.96
199.21	0.00	199.73	0.06	200.25	0.89	200.77	7.11
199.22	0.00	199.74	0.06	200.26	0.96	200.78	7.26
199.23	0.00	199.75	0.06	200.27	1.04	200.79	7.42
199.24	0.00	199.76	0.06	200.28	1.12	200.80	7.57
199.25	0.00	199.77	0.07	200.29	1.21	200.81	7.73
199.26	0.00	199.78	0.07	200.30	1.30	200.82	7.88
199.27	0.00	199.79	0.07	200.31	1.38	200.83	8.04
199.28	0.00	199.80	0.07	200.32	1.47	200.84	8.20
199.29	0.00	199.81	0.07	200.33	1.57	200.85	8.36
199.30	0.00	199.82	0.08	200.34	1.66	200.86	8.52
199.31	0.00	199.83	0.08	200.35	1.76	200.87	8.68
199.32	0.00	199.84	0.08	200.36	1.85	200.88	8.84
199.33	0.00	199.85	0.08	200.37	1.95	200.89	9.01
199.34	0.00	199.86	0.08	200.38	2.06	200.90	9.27
199.35	0.00	199.87	0.08	200.39	2.16	200.91	9.49
199.36	0.00	199.88	0.09	200.40	2.26	200.92	9.78
199.37	0.00	199.89	0.09	200.41	2.37	200.93	10.11
199.38	0.00	199.90	0.09	200.42	2.48	200.94	10.50
199.39	0.00	199.91	0.09	200.43	2.59	200.95	10.92
199.40	0.00	199.92	0.09	200.44	2.70	200.96	11.38
199.41	0.00	199.93	0.09	200.45	2.81	200.97	11.87
199.42	0.00	199.94	0.10	200.46	2.93	200.98	12.39
199.43	0.00	199.95	0.10	200.47	3.04	200.99	12.95
199.44	0.00	199.96	0.10	200.48	3.16	201.00	13.53
199.45	0.00	199.97	0.10	200.49	3.28	201.01	14.14
199.46	0.00	199.98	0.10	200.50	3.40	201.02	14.77
199.47	0.00	199.99	0.10	200.51	3.52	201.03	15.43
199.48	0.00	200.00	0.10	200.52	3.64	201.04	16.12
199.49	0.00	200.01	0.10	200.53	3.77	201.05	16.82
199.50	0.00	200.02	0.11	200.54	3.89	201.06	17.55
199.51	0.00	200.03	0.11	200.55	4.02	201.07	18.31

Stage-Discharge for Pond B-6: Basin #6 (continued)

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
201.08	19.08	201.60	92.90	202.12	202.17	202.64	343.03
201.09	19.88	201.61	94.68	202.13	204.57	202.65	346.04
201.10	20.73	201.62	96.47	202.14	206.99	202.66	349.06
201.11	21.61	201.63	98.28	202.15	209.42	202.67	352.09
201.12	22.52	201.64	100.10	202.16	211.85	202.68	355.14
201.13	23.45	201.65	101.92	202.17	214.30	202.69	358.19
201.14	24.41	201.66	103.77	202.18	216.76	202.70	361.25
201.15	25.39	201.67	105.62	202.19	219.23	202.71	364.32
201.16	26.39	201.68	107.49	202.20	221.71	202.72	367.41
201.17	27.43	201.69	109.36	202.21	224.20	202.73	370.50
201.18	28.48	201.70	111.29	202.22	226.70	202.74	373.61
201.19	29.56	201.71	113.23	202.23	229.21	202.75	376.73
201.20	30.67	201.72	115.19	202.24	231.73	202.76	379.85
201.21	31.80	201.73	117.15	202.25	234.27	202.77	382.99
201.22	32.95	201.74	119.13	202.26	236.81	202.78	386.14
201.23	34.13	201.75	121.13	202.27	239.36	202.79	389.29
201.24	35.33	201.76	123.13	202.28	241.92	202.80	392.46
201.25	36.56	201.77	125.15	202.29	244.50	202.81	395.64
201.26	37.81	201.78	127.19	202.30	247.13	202.82	398.83
201.27	39.08	201.79	129.23	202.31	249.77	202.83	402.03
201.28	40.38	201.80	131.29	202.32	252.42	202.84	405.24
201.29	41.71	201.81	133.36	202.33	255.08	202.85	408.46
201.30	43.08	201.82	135.44	202.34	257.75	202.86	411.69
201.31	44.48	201.83	137.54	202.35	260.43	202.87	414.94
201.32	45.91	201.84	139.65	202.36	263.13	202.88	418.19
201.33	47.36	201.85	141.77	202.37	265.84	202.89	421.45
201.34	48.84	201.86	143.91	202.38	268.55	202.90	424.79
201.35	50.34	201.87	146.06	202.39	271.28	202.91	428.13
201.36	51.87	201.88	148.21	202.40	274.02	202.92	431.49
201.37	53.43	201.89	150.39	202.41	276.77	202.93	434.86
201.38	55.01	201.90	152.52	202.42	279.53	202.94	438.24
201.39	56.62	201.91	154.66	202.43	282.30	202.95	441.63
201.40	58.26	201.92	156.81	202.44	285.09	202.96	445.04
201.41	59.92	201.93	158.98	202.45	287.88	202.97	448.45
201.42	61.61	201.94	161.15	202.46	290.69	202.98	451.88
201.43	63.33	201.95	163.34	202.47	293.50	202.99	455.32
201.44	65.07	201.96	165.53	202.48	296.33	203.00	458.76
201.45	66.84	201.97	167.74	202.49	299.17	203.01	462.22
201.46	68.64	201.98	169.96	202.50	302.02	203.02	465.70
201.47	70.46	201.99	172.18	202.51	304.88	203.03	469.18
201.48	72.31	202.00	174.42	202.52	307.75	203.04	472.67
201.49	74.19	202.01	176.67	202.53	310.63	203.05	476.18
201.50	75.82	202.02	178.93	202.54	313.52	203.06	479.70
201.51	77.47	202.03	181.19	202.55	316.42	203.07	483.22
201.52	79.13	202.04	183.47	202.56	319.34	203.08	486.76
201.53	80.81	202.05	185.76	202.57	322.26	203.09	490.31
201.54	82.50	202.06	188.06	202.58	325.20	203.10	493.88
201.55	84.20	202.07	190.37	202.59	328.14	203.11	497.45
201.56	85.91	202.08	192.68	202.60	331.10	203.12	501.04
201.57	87.64	202.09	195.01	202.61	334.07	203.13	504.63
201.58	89.38	202.10	197.39	202.62	337.04	203.14	508.24
201.59	91.14	202.11	199.77	202.63	340.03	203.15	511.86

Stage-Discharge for Pond B-6: Basin #6 (continued)

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
203.16	515.49	203.68	715.19
203.17	519.13	203.69	719.23
203.18	522.78	203.70	723.28
203.19	526.45	203.71	727.34
203.20	530.12	203.72	731.41
203.21	533.81	203.73	735.49
203.22	537.50	203.74	739.58
203.23	541.21	203.75	743.67
203.24	544.93	203.76	747.78
203.25	548.67	203.77	751.90
203.26	552.41	203.78	756.02
203.27	556.16	203.79	760.15
203.28	559.93	203.80	764.30
203.29	563.70	203.81	768.45
203.30	567.49	203.82	772.61
203.31	571.29	203.83	776.79
203.32	575.10	203.84	780.97
203.33	578.92	203.85	785.16
203.34	582.76	203.86	789.36
203.35	586.60	203.87	793.57
203.36	590.46	203.88	797.78
203.37	594.32	203.89	802.01
203.38	598.20	203.90	806.43
203.39	602.09	203.91	810.86
203.40	605.86	203.92	815.29
203.41	609.64	203.93	819.74
203.42	613.42	203.94	824.20
203.43	617.22	203.95	828.68
203.44	621.02	203.96	833.16
203.45	624.84	203.97	837.65
203.46	628.66	203.98	842.16
203.47	632.49	203.99	846.68
203.48	636.34	204.00	851.20
203.49	640.19		
203.50	644.05		
203.51	647.92		
203.52	651.81		
203.53	655.70		
203.54	659.60		
203.55	663.51		
203.56	667.42		
203.57	671.35		
203.58	675.29		
203.59	679.24		
203.60	683.20		
203.61	687.16		
203.62	691.14		
203.63	695.12		
203.64	699.12		
203.65	703.12		
203.66	707.13		
203.67	711.16		

Stage-Area-Storage for Pond B-6: Basin #6

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
199.00	5,389	0	199.52	5,738	2,893
199.01	5,396	54	199.53	5,745	2,950
199.02	5,402	108	199.54	5,751	3,008
199.03	5,409	162	199.55	5,758	3,065
199.04	5,416	216	199.56	5,765	3,123
199.05	5,423	270	199.57	5,771	3,181
199.06	5,429	325	199.58	5,778	3,238
199.07	5,436	379	199.59	5,785	3,296
199.08	5,443	433	199.60	5,792	3,354
199.09	5,449	488	199.61	5,798	3,412
199.10	5,456	542	199.62	5,805	3,470
199.11	5,463	597	199.63	5,812	3,528
199.12	5,470	652	199.64	5,818	3,586
199.13	5,476	706	199.65	5,825	3,645
199.14	5,483	761	199.66	5,832	3,703
199.15	5,490	816	199.67	5,839	3,761
199.16	5,496	871	199.68	5,845	3,820
199.17	5,503	926	199.69	5,852	3,878
199.18	5,510	981	199.70	5,859	3,937
199.19	5,516	1,036	199.71	5,865	3,995
199.20	5,523	1,091	199.72	5,872	4,054
199.21	5,530	1,146	199.73	5,879	4,113
199.22	5,537	1,202	199.74	5,886	4,172
199.23	5,543	1,257	199.75	5,892	4,230
199.24	5,550	1,313	199.76	5,899	4,289
199.25	5,557	1,368	199.77	5,906	4,348
199.26	5,563	1,424	199.78	5,912	4,408
199.27	5,570	1,479	199.79	5,919	4,467
199.28	5,577	1,535	199.80	5,926	4,526
199.29	5,584	1,591	199.81	5,933	4,585
199.30	5,590	1,647	199.82	5,939	4,645
199.31	5,597	1,703	199.83	5,946	4,704
199.32	5,604	1,759	199.84	5,953	4,763
199.33	5,610	1,815	199.85	5,959	4,823
199.34	5,617	1,871	199.86	5,966	4,883
199.35	5,624	1,927	199.87	5,973	4,942
199.36	5,631	1,984	199.88	5,979	5,002
199.37	5,637	2,040	199.89	5,986	5,062
199.38	5,644	2,096	199.90	5,993	5,122
199.39	5,651	2,153	199.91	6,000	5,182
199.40	5,657	2,209	199.92	6,006	5,242
199.41	5,664	2,266	199.93	6,013	5,302
199.42	5,671	2,323	199.94	6,020	5,362
199.43	5,678	2,379	199.95	6,026	5,422
199.44	5,684	2,436	199.96	6,033	5,483
199.45	5,691	2,493	199.97	6,040	5,543
199.46	5,698	2,550	199.98	6,047	5,603
199.47	5,704	2,607	199.99	6,053	5,664
199.48	5,711	2,664	200.00	6,060	5,725
199.49	5,718	2,721	200.01	6,067	5,785
199.50	5,725	2,778	200.02	6,074	5,846
199.51	5,731	2,836	200.03	6,081	5,907

Stage-Area-Storage for Pond B-6: Basin #6 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
200.04	6,088	5,967	200.56	6,453	9,228
200.05	6,095	6,028	200.57	6,460	9,293
200.06	6,102	6,089	200.58	6,467	9,357
200.07	6,109	6,150	200.59	6,474	9,422
200.08	6,116	6,212	200.60	6,481	9,487
200.09	6,123	6,273	200.61	6,488	9,552
200.10	6,130	6,334	200.62	6,495	9,616
200.11	6,137	6,395	200.63	6,502	9,681
200.12	6,144	6,457	200.64	6,509	9,746
200.13	6,151	6,518	200.65	6,516	9,812
200.14	6,158	6,580	200.66	6,523	9,877
200.15	6,165	6,641	200.67	6,530	9,942
200.16	6,172	6,703	200.68	6,537	10,007
200.17	6,179	6,765	200.69	6,544	10,073
200.18	6,186	6,827	200.70	6,551	10,138
200.19	6,193	6,889	200.71	6,558	10,204
200.20	6,200	6,951	200.72	6,565	10,269
200.21	6,207	7,013	200.73	6,572	10,335
200.22	6,214	7,075	200.74	6,579	10,401
200.23	6,221	7,137	200.75	6,586	10,467
200.24	6,228	7,199	200.76	6,593	10,533
200.25	6,235	7,261	200.77	6,600	10,599
200.26	6,242	7,324	200.78	6,607	10,665
200.27	6,249	7,386	200.79	6,614	10,731
200.28	6,256	7,449	200.80	6,621	10,797
200.29	6,263	7,511	200.81	6,628	10,863
200.30	6,270	7,574	200.82	6,635	10,929
200.31	6,277	7,637	200.83	6,642	10,996
200.32	6,284	7,700	200.84	6,649	11,062
200.33	6,291	7,762	200.85	6,656	11,129
200.34	6,298	7,825	200.86	6,663	11,195
200.35	6,305	7,888	200.87	6,670	11,262
200.36	6,312	7,952	200.88	6,677	11,329
200.37	6,319	8,015	200.89	6,684	11,396
200.38	6,326	8,078	200.90	6,691	11,462
200.39	6,333	8,141	200.91	6,698	11,529
200.40	6,340	8,205	200.92	6,705	11,596
200.41	6,347	8,268	200.93	6,712	11,663
200.42	6,354	8,332	200.94	6,719	11,731
200.43	6,361	8,395	200.95	6,726	11,798
200.44	6,368	8,459	200.96	6,733	11,865
200.45	6,375	8,522	200.97	6,740	11,932
200.46	6,382	8,586	200.98	6,747	12,000
200.47	6,389	8,650	200.99	6,754	12,067
200.48	6,396	8,714	201.00	6,761	12,135
200.49	6,403	8,778	201.01	6,768	12,203
200.50	6,411	8,842	201.02	6,776	12,270
200.51	6,418	8,906	201.03	6,783	12,338
200.52	6,425	8,970	201.04	6,790	12,406
200.53	6,432	9,035	201.05	6,797	12,474
200.54	6,439	9,099	201.06	6,805	12,542
200.55	6,446	9,164	201.07	6,812	12,610

Stage-Area-Storage for Pond B-6: Basin #6 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
201.08	6,819	12,678	201.60	7,198	16,323
201.09	6,827	12,746	201.61	7,206	16,395
201.10	6,834	12,815	201.62	7,213	16,467
201.11	6,841	12,883	201.63	7,220	16,539
201.12	6,848	12,952	201.64	7,228	16,611
201.13	6,856	13,020	201.65	7,235	16,684
201.14	6,863	13,089	201.66	7,242	16,756
201.15	6,870	13,157	201.67	7,249	16,828
201.16	6,878	13,226	201.68	7,257	16,901
201.17	6,885	13,295	201.69	7,264	16,974
201.18	6,892	13,364	201.70	7,271	17,046
201.19	6,900	13,433	201.71	7,279	17,119
201.20	6,907	13,502	201.72	7,286	17,192
201.21	6,914	13,571	201.73	7,293	17,265
201.22	6,921	13,640	201.74	7,300	17,338
201.23	6,929	13,709	201.75	7,308	17,411
201.24	6,936	13,779	201.76	7,315	17,484
201.25	6,943	13,848	201.77	7,322	17,557
201.26	6,951	13,918	201.78	7,330	17,630
201.27	6,958	13,987	201.79	7,337	17,704
201.28	6,965	14,057	201.80	7,344	17,777
201.29	6,972	14,126	201.81	7,351	17,851
201.30	6,980	14,196	201.82	7,359	17,924
201.31	6,987	14,266	201.83	7,366	17,998
201.32	6,994	14,336	201.84	7,373	18,071
201.33	7,002	14,406	201.85	7,381	18,145
201.34	7,009	14,476	201.86	7,388	18,219
201.35	7,016	14,546	201.87	7,395	18,293
201.36	7,023	14,616	201.88	7,403	18,367
201.37	7,031	14,686	201.89	7,410	18,441
201.38	7,038	14,757	201.90	7,417	18,515
201.39	7,045	14,827	201.91	7,424	18,589
201.40	7,053	14,898	201.92	7,432	18,664
201.41	7,060	14,968	201.93	7,439	18,738
201.42	7,067	15,039	201.94	7,446	18,812
201.43	7,074	15,110	201.95	7,454	18,887
201.44	7,082	15,180	201.96	7,461	18,961
201.45	7,089	15,251	201.97	7,468	19,036
201.46	7,096	15,322	201.98	7,475	19,111
201.47	7,104	15,393	201.99	7,483	19,186
201.48	7,111	15,464	202.00	7,490	19,261
201.49	7,118	15,535	202.01	7,498	19,335
201.50	7,126	15,607	202.02	7,505	19,410
201.51	7,133	15,678	202.03	7,513	19,486
201.52	7,140	15,749	202.04	7,520	19,561
201.53	7,147	15,821	202.05	7,528	19,636
201.54	7,155	15,892	202.06	7,535	19,711
201.55	7,162	15,964	202.07	7,543	19,787
201.56	7,169	16,035	202.08	7,551	19,862
201.57	7,177	16,107	202.09	7,558	19,938
201.58	7,184	16,179	202.10	7,566	20,013
201.59	7,191	16,251	202.11	7,573	20,089

Stage-Area-Storage for Pond B-6: Basin #6 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
202.12	7,581	20,165	202.64	7,974	24,209
202.13	7,588	20,241	202.65	7,982	24,289
202.14	7,596	20,317	202.66	7,990	24,369
202.15	7,604	20,393	202.67	7,997	24,449
202.16	7,611	20,469	202.68	8,005	24,529
202.17	7,619	20,545	202.69	8,012	24,609
202.18	7,626	20,621	202.70	8,020	24,689
202.19	7,634	20,697	202.71	8,027	24,769
202.20	7,641	20,774	202.72	8,035	24,850
202.21	7,649	20,850	202.73	8,043	24,930
202.22	7,657	20,927	202.74	8,050	25,010
202.23	7,664	21,003	202.75	8,058	25,091
202.24	7,672	21,080	202.76	8,065	25,172
202.25	7,679	21,157	202.77	8,073	25,252
202.26	7,687	21,233	202.78	8,080	25,333
202.27	7,694	21,310	202.79	8,088	25,414
202.28	7,702	21,387	202.80	8,096	25,495
202.29	7,710	21,464	202.81	8,103	25,576
202.30	7,717	21,542	202.82	8,111	25,657
202.31	7,725	21,619	202.83	8,118	25,738
202.32	7,732	21,696	202.84	8,126	25,819
202.33	7,740	21,773	202.85	8,133	25,900
202.34	7,747	21,851	202.86	8,141	25,982
202.35	7,755	21,928	202.87	8,149	26,063
202.36	7,763	22,006	202.88	8,156	26,145
202.37	7,770	22,084	202.89	8,164	26,226
202.38	7,778	22,161	202.90	8,171	26,308
202.39	7,785	22,239	202.91	8,179	26,390
202.40	7,793	22,317	202.92	8,186	26,472
202.41	7,800	22,395	202.93	8,194	26,554
202.42	7,808	22,473	202.94	8,202	26,636
202.43	7,816	22,551	202.95	8,209	26,718
202.44	7,823	22,629	202.96	8,217	26,800
202.45	7,831	22,708	202.97	8,224	26,882
202.46	7,838	22,786	202.98	8,232	26,964
202.47	7,846	22,864	202.99	8,239	27,047
202.48	7,853	22,943	203.00	8,247	27,129
202.49	7,861	23,021	203.01	8,255	27,212
202.50	7,869	23,100	203.02	8,263	27,294
202.51	7,876	23,179	203.03	8,271	27,377
202.52	7,884	23,258	203.04	8,278	27,460
202.53	7,891	23,337	203.05	8,286	27,542
202.54	7,899	23,415	203.06	8,294	27,625
202.55	7,906	23,494	203.07	8,302	27,708
202.56	7,914	23,574	203.08	8,310	27,791
202.57	7,921	23,653	203.09	8,318	27,874
202.58	7,929	23,732	203.10	8,325	27,958
202.59	7,937	23,811	203.11	8,333	28,041
202.60	7,944	23,891	203.12	8,341	28,124
202.61	7,952	23,970	203.13	8,349	28,208
202.62	7,959	24,050	203.14	8,357	28,291
202.63	7,967	24,129	203.15	8,365	28,375

Stage-Area-Storage for Pond B-6: Basin #6 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
203.16	8,373	28,459	203.68	8,781	32,918
203.17	8,380	28,542	203.69	8,789	33,006
203.18	8,388	28,626	203.70	8,796	33,094
203.19	8,396	28,710	203.71	8,804	33,182
203.20	8,404	28,794	203.72	8,812	33,270
203.21	8,412	28,878	203.73	8,820	33,358
203.22	8,420	28,962	203.74	8,828	33,447
203.23	8,428	29,047	203.75	8,836	33,535
203.24	8,435	29,131	203.76	8,844	33,623
203.25	8,443	29,215	203.77	8,851	33,712
203.26	8,451	29,300	203.78	8,859	33,800
203.27	8,459	29,384	203.79	8,867	33,889
203.28	8,467	29,469	203.80	8,875	33,978
203.29	8,475	29,554	203.81	8,883	34,067
203.30	8,483	29,638	203.82	8,891	34,155
203.31	8,490	29,723	203.83	8,899	34,244
203.32	8,498	29,808	203.84	8,906	34,333
203.33	8,506	29,893	203.85	8,914	34,423
203.34	8,514	29,978	203.86	8,922	34,512
203.35	8,522	30,064	203.87	8,930	34,601
203.36	8,530	30,149	203.88	8,938	34,690
203.37	8,537	30,234	203.89	8,946	34,780
203.38	8,545	30,320	203.90	8,954	34,869
203.39	8,553	30,405	203.91	8,961	34,959
203.40	8,561	30,491	203.92	8,969	35,048
203.41	8,569	30,576	203.93	8,977	35,138
203.42	8,577	30,662	203.94	8,985	35,228
203.43	8,585	30,748	203.95	8,993	35,318
203.44	8,592	30,834	203.96	9,001	35,408
203.45	8,600	30,920	203.97	9,008	35,498
203.46	8,608	31,006	203.98	9,016	35,588
203.47	8,616	31,092	203.99	9,024	35,678
203.48	8,624	31,178	204.00	9,032	35,769
203.49	8,632	31,264			
203.50	8,640	31,351			
203.51	8,647	31,437			
203.52	8,655	31,524			
203.53	8,663	31,610			
203.54	8,671	31,697			
203.55	8,679	31,784			
203.56	8,687	31,870			
203.57	8,694	31,957			
203.58	8,702	32,044			
203.59	8,710	32,131			
203.60	8,718	32,218			
203.61	8,726	32,306			
203.62	8,734	32,393			
203.63	8,742	32,480			
203.64	8,749	32,568			
203.65	8,757	32,655			
203.66	8,765	32,743			
203.67	8,773	32,831			

Summary for Pond B-7: Basin #7

Inflow Area = 1.564 ac, 62.85% Impervious, Inflow Depth = 9.84" for Future 100 yr event
 Inflow = 15.05 cfs @ 12.17 hrs, Volume= 1.282 af
 Outflow = 11.80 cfs @ 12.26 hrs, Volume= 1.196 af, Atten= 22%, Lag= 5.2 min
 Primary = 11.80 cfs @ 12.26 hrs, Volume= 1.196 af
 Routed to Link PDA-1 : Proposed Drainage Area #1

Routing by Stor-Ind method, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 Peak Elev= 208.93' @ 12.26 hrs Surf.Area= 8,359 sf Storage= 15,953 cf

Plug-Flow detention time= 201.0 min calculated for 1.196 af (93% of inflow)
 Center-of-Mass det. time= 162.8 min (924.6 - 761.8)

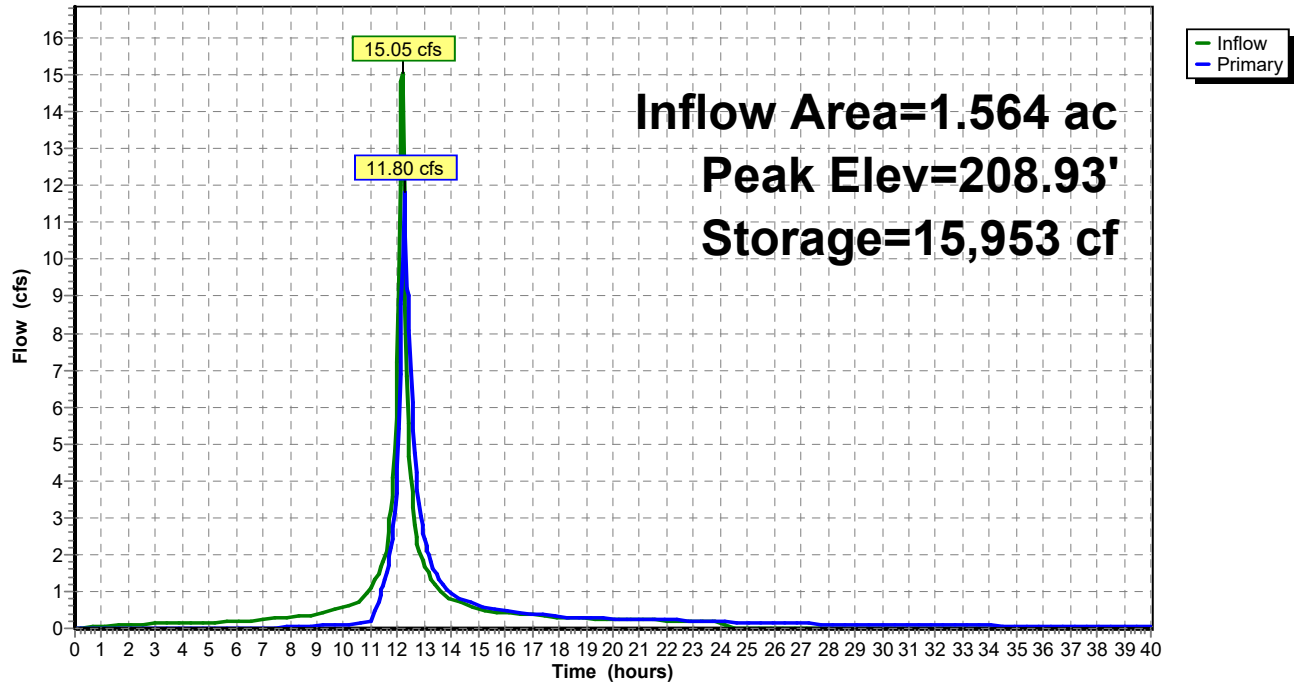
Volume	Invert	Avail.Storage	Storage Description
#1	206.47'	35,530 cf	Custom Stage Data (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
206.47	0	0	0
207.00	6,419	1,701	1,701
208.00	7,395	6,907	8,608
209.00	8,429	7,912	16,520
210.00	9,484	8,957	25,477
211.00	10,623	10,054	35,530

Device	Routing	Invert	Outlet Devices
#1	Primary	206.47'	18.0" Round Culvert L= 94.0' Ke= 0.500 Inlet / Outlet Invert= 206.47' / 206.00' S= 0.0050 '/' Cc= 0.900 n= 0.013, Flow Area= 1.77 sf
#2	Device 1	207.17'	2.5" Vert. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#3	Device 1	207.99'	4.0' long Sharp-Crested Rectangular Weir 2 End Contraction(s)
#4	Primary	208.86'	50.0' long + 3.0 '/' SideZ x 5.0' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 Coef. (English) 2.34 2.50 2.70 2.68 2.68 2.66 2.65 2.65 2.65 2.65 2.67 2.66 2.68 2.70 2.74 2.79 2.88

Primary OutFlow Max=11.54 cfs @ 12.26 hrs HW=208.93' (Free Discharge)

1=Culvert (Barrel Controls 9.45 cfs @ 5.35 fps)
 2=Orifice/Grate (Passes < 0.21 cfs potential flow)
 3=Sharp-Crested Rectangular Weir (Passes < 11.33 cfs potential flow)
 4=Broad-Crested Rectangular Weir (Weir Controls 2.10 cfs @ 0.61 fps)

Pond B-7: Basin #7**Hydrograph**

Stage-Discharge for Pond B-7: Basin #7

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
206.47	0.00	206.99	0.00	207.51	0.08	208.03	0.25
206.48	0.00	207.00	0.00	207.52	0.08	208.04	0.29
206.49	0.00	207.01	0.00	207.53	0.08	208.05	0.34
206.50	0.00	207.02	0.00	207.54	0.08	208.06	0.39
206.51	0.00	207.03	0.00	207.55	0.09	208.07	0.44
206.52	0.00	207.04	0.00	207.56	0.09	208.08	0.50
206.53	0.00	207.05	0.00	207.57	0.09	208.09	0.56
206.54	0.00	207.06	0.00	207.58	0.09	208.10	0.62
206.55	0.00	207.07	0.00	207.59	0.09	208.11	0.69
206.56	0.00	207.08	0.00	207.60	0.09	208.12	0.76
206.57	0.00	207.09	0.00	207.61	0.10	208.13	0.83
206.58	0.00	207.10	0.00	207.62	0.10	208.14	0.91
206.59	0.00	207.11	0.00	207.63	0.10	208.15	0.98
206.60	0.00	207.12	0.00	207.64	0.10	208.16	1.06
206.61	0.00	207.13	0.00	207.65	0.10	208.17	1.15
206.62	0.00	207.14	0.00	207.66	0.10	208.18	1.23
206.63	0.00	207.15	0.00	207.67	0.10	208.19	1.32
206.64	0.00	207.16	0.00	207.68	0.10	208.20	1.40
206.65	0.00	207.17	0.00	207.69	0.11	208.21	1.49
206.66	0.00	207.18	0.00	207.70	0.11	208.22	1.59
206.67	0.00	207.19	0.00	207.71	0.11	208.23	1.68
206.68	0.00	207.20	0.00	207.72	0.11	208.24	1.78
206.69	0.00	207.21	0.00	207.73	0.11	208.25	1.87
206.70	0.00	207.22	0.00	207.74	0.11	208.26	1.97
206.71	0.00	207.23	0.01	207.75	0.11	208.27	2.07
206.72	0.00	207.24	0.01	207.76	0.11	208.28	2.18
206.73	0.00	207.25	0.01	207.77	0.12	208.29	2.28
206.74	0.00	207.26	0.01	207.78	0.12	208.30	2.39
206.75	0.00	207.27	0.02	207.79	0.12	208.31	2.50
206.76	0.00	207.28	0.02	207.80	0.12	208.32	2.61
206.77	0.00	207.29	0.02	207.81	0.12	208.33	2.72
206.78	0.00	207.30	0.03	207.82	0.12	208.34	2.83
206.79	0.00	207.31	0.03	207.83	0.12	208.35	2.94
206.80	0.00	207.32	0.03	207.84	0.12	208.36	3.06
206.81	0.00	207.33	0.04	207.85	0.12	208.37	3.18
206.82	0.00	207.34	0.04	207.86	0.13	208.38	3.30
206.83	0.00	207.35	0.05	207.87	0.13	208.39	3.42
206.84	0.00	207.36	0.05	207.88	0.13	208.40	3.54
206.85	0.00	207.37	0.05	207.89	0.13	208.41	3.66
206.86	0.00	207.38	0.05	207.90	0.13	208.42	3.78
206.87	0.00	207.39	0.06	207.91	0.13	208.43	3.91
206.88	0.00	207.40	0.06	207.92	0.13	208.44	4.04
206.89	0.00	207.41	0.06	207.93	0.13	208.45	4.16
206.90	0.00	207.42	0.06	207.94	0.13	208.46	4.29
206.91	0.00	207.43	0.06	207.95	0.13	208.47	4.42
206.92	0.00	207.44	0.07	207.96	0.14	208.48	4.56
206.93	0.00	207.45	0.07	207.97	0.14	208.49	4.69
206.94	0.00	207.46	0.07	207.98	0.14	208.50	4.82
206.95	0.00	207.47	0.07	207.99	0.14	208.51	4.96
206.96	0.00	207.48	0.07	208.00	0.15	208.52	5.10
206.97	0.00	207.49	0.08	208.01	0.18	208.53	5.23
206.98	0.00	207.50	0.08	208.02	0.21	208.54	5.37

Stage-Discharge for Pond B-7: Basin #7 (continued)

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
208.55	5.51	209.07	21.32	209.59	98.16	210.11	209.61
208.56	5.65	209.08	22.22	209.60	99.98	210.12	212.05
208.57	5.80	209.09	23.15	209.61	101.82	210.13	214.51
208.58	5.94	209.10	24.10	209.62	103.67	210.14	216.97
208.59	6.08	209.11	25.08	209.63	105.53	210.15	219.45
208.60	6.23	209.12	26.09	209.64	107.40	210.16	221.94
208.61	6.38	209.13	27.12	209.65	109.28	210.17	224.43
208.62	6.52	209.14	28.17	209.66	111.18	210.18	226.94
208.63	6.67	209.15	29.25	209.67	113.13	210.19	229.46
208.64	6.82	209.16	30.35	209.68	115.09	210.20	231.98
208.65	6.97	209.17	31.48	209.69	117.06	210.21	234.52
208.66	7.13	209.18	32.63	209.70	119.05	210.22	237.07
208.67	7.28	209.19	33.81	209.71	121.05	210.23	239.63
208.68	7.43	209.20	35.01	209.72	123.06	210.24	242.20
208.69	7.59	209.21	36.23	209.73	125.08	210.25	244.78
208.70	7.74	209.22	37.48	209.74	127.12	210.26	247.37
208.71	7.90	209.23	38.75	209.75	129.17	210.27	250.01
208.72	8.06	209.24	40.05	209.76	131.24	210.28	252.67
208.73	8.22	209.25	41.37	209.77	133.31	210.29	255.33
208.74	8.38	209.26	42.72	209.78	135.40	210.30	258.01
208.75	8.54	209.27	44.11	209.79	137.50	210.31	260.70
208.76	8.70	209.28	45.53	209.80	139.62	210.32	263.40
208.77	8.86	209.29	46.98	209.81	141.75	210.33	266.11
208.78	8.94	209.30	48.45	209.82	143.89	210.34	268.83
208.79	8.98	209.31	49.95	209.83	146.04	210.35	271.57
208.80	9.01	209.32	51.48	209.84	148.21	210.36	274.31
208.81	9.05	209.33	53.03	209.85	150.38	210.37	277.07
208.82	9.08	209.34	54.61	209.86	152.57	210.38	279.83
208.83	9.12	209.35	56.21	209.87	154.72	210.39	282.61
208.84	9.15	209.36	57.84	209.88	156.88	210.40	285.40
208.85	9.18	209.37	59.50	209.89	159.06	210.41	288.20
208.86	9.22	209.38	61.19	209.90	161.24	210.42	291.01
208.87	9.37	209.39	62.90	209.91	163.43	210.43	293.83
208.88	9.62	209.40	64.63	209.92	165.63	210.44	296.66
208.89	9.93	209.41	66.40	209.93	167.84	210.45	299.50
208.90	10.29	209.42	68.19	209.94	170.07	210.46	302.35
208.91	10.70	209.43	70.00	209.95	172.30	210.47	305.22
208.92	11.14	209.44	71.85	209.96	174.55	210.48	308.09
208.93	11.63	209.45	73.72	209.97	176.80	210.49	310.98
208.94	12.14	209.46	75.61	209.98	179.07	210.50	313.88
208.95	12.69	209.47	77.27	209.99	181.34	210.51	316.78
208.96	13.27	209.48	78.94	210.00	183.63	210.52	319.70
208.97	13.87	209.49	80.62	210.01	185.92	210.53	322.63
208.98	14.51	209.50	82.32	210.02	188.23	210.54	325.57
208.99	15.17	209.51	84.02	210.03	190.54	210.55	328.52
209.00	15.85	209.52	85.75	210.04	192.87	210.56	331.48
209.01	16.56	209.53	87.48	210.05	195.20	210.57	334.45
209.02	17.29	209.54	89.23	210.06	197.55	210.58	337.44
209.03	18.04	209.55	90.99	210.07	199.94	210.59	340.43
209.04	18.82	209.56	92.76	210.08	202.34	210.60	343.43
209.05	19.62	209.57	94.55	210.09	204.75	210.61	346.45
209.06	20.44	209.58	96.35	210.10	207.18	210.62	349.47

Stage-Discharge for Pond B-7: Basin #7 (continued)

Elevation (feet)	Primary (cfs)
210.63	352.51
210.64	355.55
210.65	358.61
210.66	361.68
210.67	364.76
210.68	367.84
210.69	370.94
210.70	374.05
210.71	377.17
210.72	380.30
210.73	383.45
210.74	386.60
210.75	389.76
210.76	392.93
210.77	396.12
210.78	399.31
210.79	402.51
210.80	405.73
210.81	408.95
210.82	412.19
210.83	415.43
210.84	418.69
210.85	421.96
210.86	425.23
210.87	428.58
210.88	431.94
210.89	435.32
210.90	438.70
210.91	442.09
210.92	445.50
210.93	448.92
210.94	452.35
210.95	455.79
210.96	459.24
210.97	462.70
210.98	466.18
210.99	469.66
211.00	473.16

Stage-Area-Storage for Pond B-7: Basin #7

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
206.47	0	0	206.99	6,298	1,637
206.48	121	1	207.00	6,419	1,701
206.49	242	2	207.01	6,429	1,765
206.50	363	5	207.02	6,439	1,830
206.51	484	10	207.03	6,448	1,894
206.52	606	15	207.04	6,458	1,959
206.53	727	22	207.05	6,468	2,023
206.54	848	30	207.06	6,478	2,088
206.55	969	39	207.07	6,487	2,153
206.56	1,090	49	207.08	6,497	2,218
206.57	1,211	61	207.09	6,507	2,283
206.58	1,332	73	207.10	6,517	2,348
206.59	1,453	87	207.11	6,526	2,413
206.60	1,574	102	207.12	6,536	2,478
206.61	1,696	119	207.13	6,546	2,544
206.62	1,817	136	207.14	6,556	2,609
206.63	1,938	155	207.15	6,565	2,675
206.64	2,059	175	207.16	6,575	2,741
206.65	2,180	196	207.17	6,585	2,806
206.66	2,301	219	207.18	6,595	2,872
206.67	2,422	242	207.19	6,604	2,938
206.68	2,543	267	207.20	6,614	3,004
206.69	2,664	293	207.21	6,624	3,071
206.70	2,786	320	207.22	6,634	3,137
206.71	2,907	349	207.23	6,643	3,203
206.72	3,028	378	207.24	6,653	3,270
206.73	3,149	409	207.25	6,663	3,336
206.74	3,270	441	207.26	6,673	3,403
206.75	3,391	475	207.27	6,683	3,470
206.76	3,512	509	207.28	6,692	3,537
206.77	3,633	545	207.29	6,702	3,604
206.78	3,755	582	207.30	6,712	3,671
206.79	3,876	620	207.31	6,722	3,738
206.80	3,997	659	207.32	6,731	3,805
206.81	4,118	700	207.33	6,741	3,872
206.82	4,239	742	207.34	6,751	3,940
206.83	4,360	785	207.35	6,761	4,007
206.84	4,481	829	207.36	6,770	4,075
206.85	4,602	874	207.37	6,780	4,143
206.86	4,723	921	207.38	6,790	4,211
206.87	4,845	969	207.39	6,800	4,279
206.88	4,966	1,018	207.40	6,809	4,347
206.89	5,087	1,068	207.41	6,819	4,415
206.90	5,208	1,120	207.42	6,829	4,483
206.91	5,329	1,172	207.43	6,839	4,551
206.92	5,450	1,226	207.44	6,848	4,620
206.93	5,571	1,281	207.45	6,858	4,688
206.94	5,692	1,338	207.46	6,868	4,757
206.95	5,813	1,395	207.47	6,878	4,826
206.96	5,935	1,454	207.48	6,887	4,895
206.97	6,056	1,514	207.49	6,897	4,964
206.98	6,177	1,575	207.50	6,907	5,033

Stage-Area-Storage for Pond B-7: Basin #7 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
207.51	6,917	5,102	208.03	7,426	8,830
207.52	6,927	5,171	208.04	7,436	8,905
207.53	6,936	5,240	208.05	7,447	8,979
207.54	6,946	5,310	208.06	7,457	9,054
207.55	6,956	5,379	208.07	7,467	9,128
207.56	6,966	5,449	208.08	7,478	9,203
207.57	6,975	5,518	208.09	7,488	9,278
207.58	6,985	5,588	208.10	7,498	9,353
207.59	6,995	5,658	208.11	7,509	9,428
207.60	7,005	5,728	208.12	7,519	9,503
207.61	7,014	5,798	208.13	7,529	9,578
207.62	7,024	5,868	208.14	7,540	9,653
207.63	7,034	5,939	208.15	7,550	9,729
207.64	7,044	6,009	208.16	7,560	9,804
207.65	7,053	6,080	208.17	7,571	9,880
207.66	7,063	6,150	208.18	7,581	9,956
207.67	7,073	6,221	208.19	7,591	10,032
207.68	7,083	6,292	208.20	7,602	10,108
207.69	7,092	6,362	208.21	7,612	10,184
207.70	7,102	6,433	208.22	7,622	10,260
207.71	7,112	6,505	208.23	7,633	10,336
207.72	7,122	6,576	208.24	7,643	10,413
207.73	7,131	6,647	208.25	7,654	10,489
207.74	7,141	6,718	208.26	7,664	10,566
207.75	7,151	6,790	208.27	7,674	10,642
207.76	7,161	6,861	208.28	7,685	10,719
207.77	7,171	6,933	208.29	7,695	10,796
207.78	7,180	7,005	208.30	7,705	10,873
207.79	7,190	7,077	208.31	7,716	10,950
207.80	7,200	7,149	208.32	7,726	11,027
207.81	7,210	7,221	208.33	7,736	11,105
207.82	7,219	7,293	208.34	7,747	11,182
207.83	7,229	7,365	208.35	7,757	11,260
207.84	7,239	7,437	208.36	7,767	11,337
207.85	7,249	7,510	208.37	7,778	11,415
207.86	7,258	7,582	208.38	7,788	11,493
207.87	7,268	7,655	208.39	7,798	11,571
207.88	7,278	7,728	208.40	7,809	11,649
207.89	7,288	7,800	208.41	7,819	11,727
207.90	7,297	7,873	208.42	7,829	11,805
207.91	7,307	7,946	208.43	7,840	11,883
207.92	7,317	8,020	208.44	7,850	11,962
207.93	7,327	8,093	208.45	7,860	12,040
207.94	7,336	8,166	208.46	7,871	12,119
207.95	7,346	8,240	208.47	7,881	12,198
207.96	7,356	8,313	208.48	7,891	12,277
207.97	7,366	8,387	208.49	7,902	12,356
207.98	7,375	8,460	208.50	7,912	12,435
207.99	7,385	8,534	208.51	7,922	12,514
208.00	7,395	8,608	208.52	7,933	12,593
208.01	7,405	8,682	208.53	7,943	12,673
208.02	7,416	8,756	208.54	7,953	12,752

Stage-Area-Storage for Pond B-7: Basin #7 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
208.55	7,964	12,832	209.07	8,503	17,113
208.56	7,974	12,911	209.08	8,513	17,198
208.57	7,984	12,991	209.09	8,524	17,283
208.58	7,995	13,071	209.10	8,534	17,368
208.59	8,005	13,151	209.11	8,545	17,454
208.60	8,015	13,231	209.12	8,556	17,539
208.61	8,026	13,311	209.13	8,566	17,625
208.62	8,036	13,392	209.14	8,577	17,710
208.63	8,046	13,472	209.15	8,587	17,796
208.64	8,057	13,553	209.16	8,598	17,882
208.65	8,067	13,633	209.17	8,608	17,968
208.66	8,077	13,714	209.18	8,619	18,054
208.67	8,088	13,795	209.19	8,629	18,141
208.68	8,098	13,876	209.20	8,640	18,227
208.69	8,108	13,957	209.21	8,651	18,313
208.70	8,119	14,038	209.22	8,661	18,400
208.71	8,129	14,119	209.23	8,672	18,487
208.72	8,139	14,200	209.24	8,682	18,573
208.73	8,150	14,282	209.25	8,693	18,660
208.74	8,160	14,363	209.26	8,703	18,747
208.75	8,171	14,445	209.27	8,714	18,834
208.76	8,181	14,527	209.28	8,724	18,922
208.77	8,191	14,609	209.29	8,735	19,009
208.78	8,202	14,691	209.30	8,746	19,096
208.79	8,212	14,773	209.31	8,756	19,184
208.80	8,222	14,855	209.32	8,767	19,271
208.81	8,233	14,937	209.33	8,777	19,359
208.82	8,243	15,020	209.34	8,788	19,447
208.83	8,253	15,102	209.35	8,798	19,535
208.84	8,264	15,185	209.36	8,809	19,623
208.85	8,274	15,267	209.37	8,819	19,711
208.86	8,284	15,350	209.38	8,830	19,799
208.87	8,295	15,433	209.39	8,840	19,888
208.88	8,305	15,516	209.40	8,851	19,976
208.89	8,315	15,599	209.41	8,862	20,065
208.90	8,326	15,682	209.42	8,872	20,153
208.91	8,336	15,766	209.43	8,883	20,242
208.92	8,346	15,849	209.44	8,893	20,331
208.93	8,357	15,933	209.45	8,904	20,420
208.94	8,367	16,016	209.46	8,914	20,509
208.95	8,377	16,100	209.47	8,925	20,598
208.96	8,388	16,184	209.48	8,935	20,687
208.97	8,398	16,268	209.49	8,946	20,777
208.98	8,408	16,352	209.50	8,957	20,866
208.99	8,419	16,436	209.51	8,967	20,956
209.00	8,429	16,520	209.52	8,978	21,046
209.01	8,440	16,604	209.53	8,988	21,136
209.02	8,450	16,689	209.54	8,999	21,226
209.03	8,461	16,773	209.55	9,009	21,316
209.04	8,471	16,858	209.56	9,020	21,406
209.05	8,482	16,943	209.57	9,030	21,496
209.06	8,492	17,028	209.58	9,041	21,586

Stage-Area-Storage for Pond B-7: Basin #7 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
209.59	9,051	21,677	210.11	9,609	26,527
209.60	9,062	21,767	210.12	9,621	26,623
209.61	9,073	21,858	210.13	9,632	26,719
209.62	9,083	21,949	210.14	9,643	26,815
209.63	9,094	22,040	210.15	9,655	26,912
209.64	9,104	22,131	210.16	9,666	27,009
209.65	9,115	22,222	210.17	9,678	27,105
209.66	9,125	22,313	210.18	9,689	27,202
209.67	9,136	22,404	210.19	9,700	27,299
209.68	9,146	22,496	210.20	9,712	27,396
209.69	9,157	22,587	210.21	9,723	27,493
209.70	9,167	22,679	210.22	9,735	27,591
209.71	9,178	22,771	210.23	9,746	27,688
209.72	9,189	22,862	210.24	9,757	27,785
209.73	9,199	22,954	210.25	9,769	27,883
209.74	9,210	23,046	210.26	9,780	27,981
209.75	9,220	23,139	210.27	9,792	28,079
209.76	9,231	23,231	210.28	9,803	28,177
209.77	9,241	23,323	210.29	9,814	28,275
209.78	9,252	23,416	210.30	9,826	28,373
209.79	9,262	23,508	210.31	9,837	28,471
209.80	9,273	23,601	210.32	9,848	28,570
209.81	9,284	23,694	210.33	9,860	28,668
209.82	9,294	23,787	210.34	9,871	28,767
209.83	9,305	23,879	210.35	9,883	28,866
209.84	9,315	23,973	210.36	9,894	28,965
209.85	9,326	24,066	210.37	9,905	29,064
209.86	9,336	24,159	210.38	9,917	29,163
209.87	9,347	24,253	210.39	9,928	29,262
209.88	9,357	24,346	210.40	9,940	29,361
209.89	9,368	24,440	210.41	9,951	29,461
209.90	9,379	24,533	210.42	9,962	29,560
209.91	9,389	24,627	210.43	9,974	29,660
209.92	9,400	24,721	210.44	9,985	29,760
209.93	9,410	24,815	210.45	9,997	29,860
209.94	9,421	24,909	210.46	10,008	29,960
209.95	9,431	25,004	210.47	10,019	30,060
209.96	9,442	25,098	210.48	10,031	30,160
209.97	9,452	25,192	210.49	10,042	30,260
209.98	9,463	25,287	210.50	10,054	30,361
209.99	9,473	25,382	210.51	10,065	30,462
210.00	9,484	25,477	210.52	10,076	30,562
210.01	9,495	25,571	210.53	10,088	30,663
210.02	9,507	25,666	210.54	10,099	30,764
210.03	9,518	25,762	210.55	10,110	30,865
210.04	9,530	25,857	210.56	10,122	30,966
210.05	9,541	25,952	210.57	10,133	31,067
210.06	9,552	26,048	210.58	10,145	31,169
210.07	9,564	26,143	210.59	10,156	31,270
210.08	9,575	26,239	210.60	10,167	31,372
210.09	9,587	26,335	210.61	10,179	31,474
210.10	9,598	26,431	210.62	10,190	31,576

Stage-Area-Storage for Pond B-7: Basin #7 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
210.63	10,202	31,677
210.64	10,213	31,780
210.65	10,224	31,882
210.66	10,236	31,984
210.67	10,247	32,086
210.68	10,259	32,189
210.69	10,270	32,292
210.70	10,281	32,394
210.71	10,293	32,497
210.72	10,304	32,600
210.73	10,315	32,703
210.74	10,327	32,807
210.75	10,338	32,910
210.76	10,350	33,013
210.77	10,361	33,117
210.78	10,372	33,221
210.79	10,384	33,324
210.80	10,395	33,428
210.81	10,407	33,532
210.82	10,418	33,636
210.83	10,429	33,741
210.84	10,441	33,845
210.85	10,452	33,949
210.86	10,464	34,054
210.87	10,475	34,159
210.88	10,486	34,263
210.89	10,498	34,368
210.90	10,509	34,473
210.91	10,520	34,579
210.92	10,532	34,684
210.93	10,543	34,789
210.94	10,555	34,895
210.95	10,566	35,000
210.96	10,577	35,106
210.97	10,589	35,212
210.98	10,600	35,318
210.99	10,612	35,424
211.00	10,623	35,530

Summary for Pond B-8: Basin #8

Inflow Area = 2.090 ac, 23.06% Impervious, Inflow Depth = 8.61" for Future 100 yr event
 Inflow = 18.67 cfs @ 12.17 hrs, Volume= 1.499 af
 Outflow = 10.15 cfs @ 12.32 hrs, Volume= 1.364 af, Atten= 46%, Lag= 8.9 min
 Primary = 10.15 cfs @ 12.32 hrs, Volume= 1.364 af
 Routed to Link PDA-1 : Proposed Drainage Area #1

Routing by Stor-Ind method, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 Peak Elev= 180.70' @ 12.32 hrs Surf.Area= 14,987 sf Storage= 24,010 cf

Plug-Flow detention time= 208.6 min calculated for 1.362 af (91% of inflow)
 Center-of-Mass det. time= 162.6 min (952.1 - 789.5)

Volume	Invert	Avail.Storage	Storage Description
#1	179.00'	44,379 cf	Custom Stage Data (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
179.00	13,283	0	0
180.00	14,274	13,779	13,779
181.00	15,293	14,784	28,562
182.00	16,341	15,817	44,379

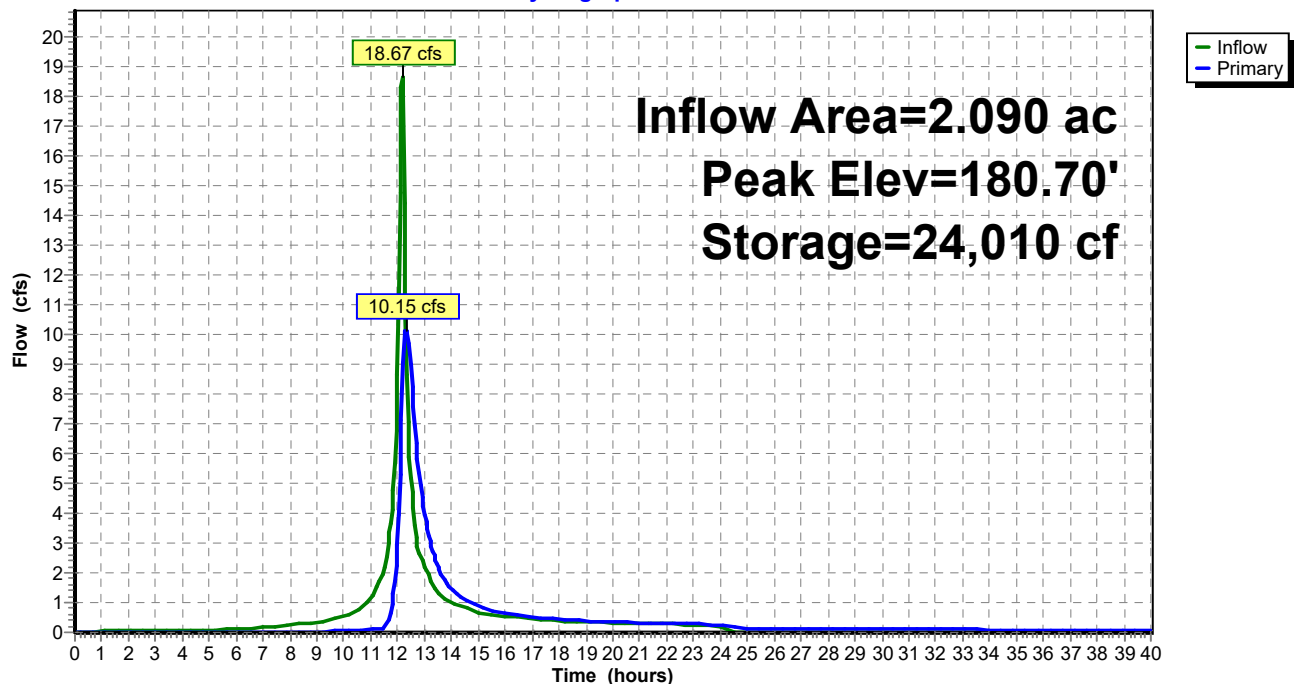
Device	Routing	Invert	Outlet Devices
#1	Primary	178.23'	18.0" Round Culvert L= 46.0' Ke= 0.500 Inlet / Outlet Invert= 178.23' / 178.00' S= 0.0050 '/' Cc= 0.900 n= 0.013, Flow Area= 1.77 sf
#2	Device 1	179.17'	2.5" Vert. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#3	Device 1	179.79'	4.0' long Sharp-Crested Rectangular Weir 2 End Contraction(s)
#4	Primary	180.83'	50.0' long + 3.0 ' SideZ x 5.0' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 Coef. (English) 2.34 2.50 2.70 2.68 2.68 2.66 2.65 2.65 2.65 2.65 2.67 2.66 2.68 2.70 2.74 2.79 2.88

Primary OutFlow Max=10.13 cfs @ 12.32 hrs HW=180.70' (Free Discharge)

1=Culvert (Barrel Controls 10.13 cfs @ 5.73 fps)
 2=Orifice/Grate (Passes < 0.20 cfs potential flow)
 3=Sharp-Crested Rectangular Weir(Passes < 10.75 cfs potential flow)
 4=Broad-Crested Rectangular Weir(Controls 0.00 cfs)

Pond B-8: Basin #8

Hydrograph



Stage-Discharge for Pond B-8: Basin #8

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
179.00	0.00	179.52	0.08	180.04	1.76	180.56	8.68
179.01	0.00	179.53	0.08	180.05	1.86	180.57	8.85
179.02	0.00	179.54	0.08	180.06	1.96	180.58	9.01
179.03	0.00	179.55	0.09	180.07	2.06	180.59	9.17
179.04	0.00	179.56	0.09	180.08	2.16	180.60	9.34
179.05	0.00	179.57	0.09	180.09	2.27	180.61	9.50
179.06	0.00	179.58	0.09	180.10	2.37	180.62	9.67
179.07	0.00	179.59	0.09	180.11	2.48	180.63	9.84
179.08	0.00	179.60	0.09	180.12	2.59	180.64	9.90
179.09	0.00	179.61	0.10	180.13	2.70	180.65	9.94
179.10	0.00	179.62	0.10	180.14	2.81	180.66	9.98
179.11	0.00	179.63	0.10	180.15	2.93	180.67	10.03
179.12	0.00	179.64	0.10	180.16	3.04	180.68	10.07
179.13	0.00	179.65	0.10	180.17	3.16	180.69	10.11
179.14	0.00	179.66	0.10	180.18	3.28	180.70	10.15
179.15	0.00	179.67	0.10	180.19	3.40	180.71	10.19
179.16	0.00	179.68	0.10	180.20	3.52	180.72	10.24
179.17	0.00	179.69	0.11	180.21	3.64	180.73	10.28
179.18	0.00	179.70	0.11	180.22	3.77	180.74	10.32
179.19	0.00	179.71	0.11	180.23	3.89	180.75	10.36
179.20	0.00	179.72	0.11	180.24	4.02	180.76	10.40
179.21	0.00	179.73	0.11	180.25	4.15	180.77	10.44
179.22	0.00	179.74	0.11	180.26	4.28	180.78	10.49
179.23	0.01	179.75	0.11	180.27	4.41	180.79	10.53
179.24	0.01	179.76	0.11	180.28	4.54	180.80	10.57
179.25	0.01	179.77	0.12	180.29	4.67	180.81	10.61
179.26	0.01	179.78	0.12	180.30	4.81	180.82	10.65
179.27	0.02	179.79	0.12	180.31	4.94	180.83	10.69
179.28	0.02	179.80	0.13	180.32	5.08	180.84	10.85
179.29	0.02	179.81	0.16	180.33	5.22	180.85	11.10
179.30	0.03	179.82	0.19	180.34	5.36	180.86	11.42
179.31	0.03	179.83	0.23	180.35	5.50	180.87	11.79
179.32	0.03	179.84	0.27	180.36	5.64	180.88	12.20
179.33	0.04	179.85	0.32	180.37	5.78	180.89	12.65
179.34	0.04	179.86	0.37	180.38	5.93	180.90	13.14
179.35	0.05	179.87	0.42	180.39	6.07	180.91	13.66
179.36	0.05	179.88	0.48	180.40	6.22	180.92	14.22
179.37	0.05	179.89	0.54	180.41	6.36	180.93	14.80
179.38	0.05	179.90	0.60	180.42	6.51	180.94	15.41
179.39	0.06	179.91	0.67	180.43	6.66	180.95	16.05
179.40	0.06	179.92	0.74	180.44	6.81	180.96	16.72
179.41	0.06	179.93	0.81	180.45	6.96	180.97	17.41
179.42	0.06	179.94	0.89	180.46	7.11	180.98	18.12
179.43	0.06	179.95	0.97	180.47	7.26	180.99	18.86
179.44	0.07	179.96	1.04	180.48	7.42	181.00	19.62
179.45	0.07	179.97	1.13	180.49	7.57	181.01	20.40
179.46	0.07	179.98	1.21	180.50	7.73	181.02	21.20
179.47	0.07	179.99	1.30	180.51	7.89	181.03	22.03
179.48	0.07	180.00	1.39	180.52	8.04	181.04	22.91
179.49	0.08	180.01	1.48	180.53	8.20	181.05	23.82
179.50	0.08	180.02	1.57	180.54	8.36	181.06	24.76
179.51	0.08	180.03	1.66	180.55	8.52	181.07	25.72

Stage-Discharge for Pond B-8: Basin #8 (continued)

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
181.08	26.70	181.60	107.42
181.09	27.71	181.61	109.30
181.10	28.75	181.62	111.19
181.11	29.81	181.63	113.09
181.12	30.89	181.64	115.04
181.13	32.00	181.65	117.01
181.14	33.13	181.66	118.98
181.15	34.29	181.67	120.98
181.16	35.47	181.68	122.98
181.17	36.68	181.69	125.00
181.18	37.91	181.70	127.03
181.19	39.16	181.71	129.07
181.20	40.44	181.72	131.13
181.21	41.74	181.73	133.19
181.22	43.07	181.74	135.28
181.23	44.42	181.75	137.37
181.24	45.82	181.76	139.48
181.25	47.25	181.77	141.60
181.26	48.70	181.78	143.73
181.27	50.18	181.79	145.87
181.28	51.68	181.80	148.03
181.29	53.22	181.81	150.20
181.30	54.77	181.82	152.38
181.31	56.36	181.83	154.58
181.32	57.97	181.84	156.73
181.33	59.60	181.85	158.90
181.34	61.27	181.86	161.07
181.35	62.95	181.87	163.26
181.36	64.67	181.88	165.46
181.37	66.41	181.89	167.66
181.38	68.18	181.90	169.88
181.39	69.98	181.91	172.11
181.40	71.80	181.92	174.35
181.41	73.65	181.93	176.60
181.42	75.52	181.94	178.86
181.43	77.42	181.95	181.13
181.44	79.09	181.96	183.41
181.45	80.76	181.97	185.70
181.46	82.45	181.98	188.00
181.47	84.15	181.99	190.31
181.48	85.86	182.00	192.63
181.49	87.59		
181.50	89.33		
181.51	91.08		
181.52	92.84		
181.53	94.62		
181.54	96.41		
181.55	98.22		
181.56	100.03		
181.57	101.86		
181.58	103.70		
181.59	105.56		

Stage-Area-Storage for Pond B-8: Basin #8

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
179.00	13,283	0	179.52	13,798	7,041
179.01	13,293	133	179.53	13,808	7,179
179.02	13,303	266	179.54	13,818	7,317
179.03	13,313	399	179.55	13,828	7,456
179.04	13,323	532	179.56	13,838	7,594
179.05	13,333	665	179.57	13,848	7,732
179.06	13,342	799	179.58	13,858	7,871
179.07	13,352	932	179.59	13,868	8,009
179.08	13,362	1,066	179.60	13,878	8,148
179.09	13,372	1,199	179.61	13,888	8,287
179.10	13,382	1,333	179.62	13,897	8,426
179.11	13,392	1,467	179.63	13,907	8,565
179.12	13,402	1,601	179.64	13,917	8,704
179.13	13,412	1,735	179.65	13,927	8,843
179.14	13,422	1,869	179.66	13,937	8,983
179.15	13,432	2,004	179.67	13,947	9,122
179.16	13,442	2,138	179.68	13,957	9,262
179.17	13,451	2,272	179.69	13,967	9,401
179.18	13,461	2,407	179.70	13,977	9,541
179.19	13,471	2,542	179.71	13,987	9,681
179.20	13,481	2,676	179.72	13,997	9,821
179.21	13,491	2,811	179.73	14,006	9,961
179.22	13,501	2,946	179.74	14,016	10,101
179.23	13,511	3,081	179.75	14,026	10,241
179.24	13,521	3,216	179.76	14,036	10,381
179.25	13,531	3,352	179.77	14,046	10,522
179.26	13,541	3,487	179.78	14,056	10,662
179.27	13,551	3,623	179.79	14,066	10,803
179.28	13,560	3,758	179.80	14,076	10,944
179.29	13,570	3,894	179.81	14,086	11,084
179.30	13,580	4,029	179.82	14,096	11,225
179.31	13,590	4,165	179.83	14,106	11,366
179.32	13,600	4,301	179.84	14,115	11,507
179.33	13,610	4,437	179.85	14,125	11,649
179.34	13,620	4,573	179.86	14,135	11,790
179.35	13,630	4,710	179.87	14,145	11,931
179.36	13,640	4,846	179.88	14,155	12,073
179.37	13,650	4,983	179.89	14,165	12,214
179.38	13,660	5,119	179.90	14,175	12,356
179.39	13,669	5,256	179.91	14,185	12,498
179.40	13,679	5,392	179.92	14,195	12,640
179.41	13,689	5,529	179.93	14,205	12,782
179.42	13,699	5,666	179.94	14,215	12,924
179.43	13,709	5,803	179.95	14,224	13,066
179.44	13,719	5,940	179.96	14,234	13,208
179.45	13,729	6,078	179.97	14,244	13,351
179.46	13,739	6,215	179.98	14,254	13,493
179.47	13,749	6,352	179.99	14,264	13,636
179.48	13,759	6,490	180.00	14,274	13,779
179.49	13,769	6,628	180.01	14,284	13,921
179.50	13,779	6,765	180.02	14,294	14,064
179.51	13,788	6,903	180.03	14,305	14,207

Stage-Area-Storage for Pond B-8: Basin #8 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
180.04	14,315	14,350	180.56	14,845	21,932
180.05	14,325	14,493	180.57	14,855	22,080
180.06	14,335	14,637	180.58	14,865	22,229
180.07	14,345	14,780	180.59	14,875	22,378
180.08	14,356	14,924	180.60	14,885	22,526
180.09	14,366	15,067	180.61	14,896	22,675
180.10	14,376	15,211	180.62	14,906	22,824
180.11	14,386	15,355	180.63	14,916	22,973
180.12	14,396	15,499	180.64	14,926	23,123
180.13	14,406	15,643	180.65	14,936	23,272
180.14	14,417	15,787	180.66	14,947	23,421
180.15	14,427	15,931	180.67	14,957	23,571
180.16	14,437	16,075	180.68	14,967	23,720
180.17	14,447	16,220	180.69	14,977	23,870
180.18	14,457	16,364	180.70	14,987	24,020
180.19	14,468	16,509	180.71	14,997	24,170
180.20	14,478	16,654	180.72	15,008	24,320
180.21	14,488	16,799	180.73	15,018	24,470
180.22	14,498	16,943	180.74	15,028	24,620
180.23	14,508	17,088	180.75	15,038	24,771
180.24	14,519	17,234	180.76	15,048	24,921
180.25	14,529	17,379	180.77	15,059	25,072
180.26	14,539	17,524	180.78	15,069	25,222
180.27	14,549	17,670	180.79	15,079	25,373
180.28	14,559	17,815	180.80	15,089	25,524
180.29	14,570	17,961	180.81	15,099	25,675
180.30	14,580	18,107	180.82	15,110	25,826
180.31	14,590	18,252	180.83	15,120	25,977
180.32	14,600	18,398	180.84	15,130	26,128
180.33	14,610	18,544	180.85	15,140	26,280
180.34	14,620	18,691	180.86	15,150	26,431
180.35	14,631	18,837	180.87	15,161	26,583
180.36	14,641	18,983	180.88	15,171	26,734
180.37	14,651	19,130	180.89	15,181	26,886
180.38	14,661	19,276	180.90	15,191	27,038
180.39	14,671	19,423	180.91	15,201	27,190
180.40	14,682	19,570	180.92	15,211	27,342
180.41	14,692	19,716	180.93	15,222	27,494
180.42	14,702	19,863	180.94	15,232	27,646
180.43	14,712	20,011	180.95	15,242	27,799
180.44	14,722	20,158	180.96	15,252	27,951
180.45	14,733	20,305	180.97	15,262	28,104
180.46	14,743	20,452	180.98	15,273	28,256
180.47	14,753	20,600	180.99	15,283	28,409
180.48	14,763	20,747	181.00	15,293	28,562
180.49	14,773	20,895	181.01	15,303	28,715
180.50	14,784	21,043	181.02	15,314	28,868
180.51	14,794	21,191	181.03	15,324	29,021
180.52	14,804	21,339	181.04	15,335	29,175
180.53	14,814	21,487	181.05	15,345	29,328
180.54	14,824	21,635	181.06	15,356	29,481
180.55	14,834	21,783	181.07	15,366	29,635

Stage-Area-Storage for Pond B-8: Basin #8 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
181.08	15,377	29,789	181.60	15,922	37,926
181.09	15,387	29,943	181.61	15,932	38,086
181.10	15,398	30,097	181.62	15,943	38,245
181.11	15,408	30,251	181.63	15,953	38,405
181.12	15,419	30,405	181.64	15,964	38,564
181.13	15,429	30,559	181.65	15,974	38,724
181.14	15,440	30,713	181.66	15,985	38,884
181.15	15,450	30,868	181.67	15,995	39,044
181.16	15,461	31,022	181.68	16,006	39,204
181.17	15,471	31,177	181.69	16,016	39,364
181.18	15,482	31,332	181.70	16,027	39,524
181.19	15,492	31,487	181.71	16,037	39,684
181.20	15,503	31,642	181.72	16,048	39,845
181.21	15,513	31,797	181.73	16,058	40,005
181.22	15,524	31,952	181.74	16,069	40,166
181.23	15,534	32,107	181.75	16,079	40,327
181.24	15,545	32,263	181.76	16,089	40,487
181.25	15,555	32,418	181.77	16,100	40,648
181.26	15,565	32,574	181.78	16,110	40,809
181.27	15,576	32,729	181.79	16,121	40,970
181.28	15,586	32,885	181.80	16,131	41,132
181.29	15,597	33,041	181.81	16,142	41,293
181.30	15,607	33,197	181.82	16,152	41,455
181.31	15,618	33,353	181.83	16,163	41,616
181.32	15,628	33,509	181.84	16,173	41,778
181.33	15,639	33,666	181.85	16,184	41,940
181.34	15,649	33,822	181.86	16,194	42,102
181.35	15,660	33,979	181.87	16,205	42,264
181.36	15,670	34,135	181.88	16,215	42,426
181.37	15,681	34,292	181.89	16,226	42,588
181.38	15,691	34,449	181.90	16,236	42,750
181.39	15,702	34,606	181.91	16,247	42,913
181.40	15,712	34,763	181.92	16,257	43,075
181.41	15,723	34,920	181.93	16,268	43,238
181.42	15,733	35,077	181.94	16,278	43,400
181.43	15,744	35,235	181.95	16,289	43,563
181.44	15,754	35,392	181.96	16,299	43,726
181.45	15,765	35,550	181.97	16,310	43,889
181.46	15,775	35,708	181.98	16,320	44,052
181.47	15,786	35,865	181.99	16,331	44,216
181.48	15,796	36,023	182.00	16,341	44,379
181.49	15,807	36,181			
181.50	15,817	36,340			
181.51	15,827	36,498			
181.52	15,838	36,656			
181.53	15,848	36,814			
181.54	15,859	36,973			
181.55	15,869	37,132			
181.56	15,880	37,290			
181.57	15,890	37,449			
181.58	15,901	37,608			
181.59	15,911	37,767			

Summary for Pond B-9: Basin #9

Inflow Area = 1.503 ac, 52.63% Impervious, Inflow Depth = 9.52" for Future 100 yr event
 Inflow = 14.20 cfs @ 12.17 hrs, Volume= 1.193 af
 Outflow = 8.82 cfs @ 12.29 hrs, Volume= 1.063 af, Atten= 38%, Lag= 7.5 min
 Primary = 8.82 cfs @ 12.29 hrs, Volume= 1.063 af
 Routed to Link PDA-1 : Proposed Drainage Area #1

Routing by Stor-Ind method, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 Peak Elev= 180.71' @ 12.29 hrs Surf.Area= 12,414 sf Storage= 19,753 cf

Plug-Flow detention time= 247.4 min calculated for 1.062 af (89% of inflow)
 Center-of-Mass det. time= 193.6 min (961.9 - 768.3)

Volume	Invert	Avail.Storage	Storage Description
#1	179.00'	36,641 cf	Custom Stage Data (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
179.00	10,720	0	0
180.00	11,700	11,210	11,210
181.00	12,708	12,204	23,414
182.00	13,745	13,227	36,641

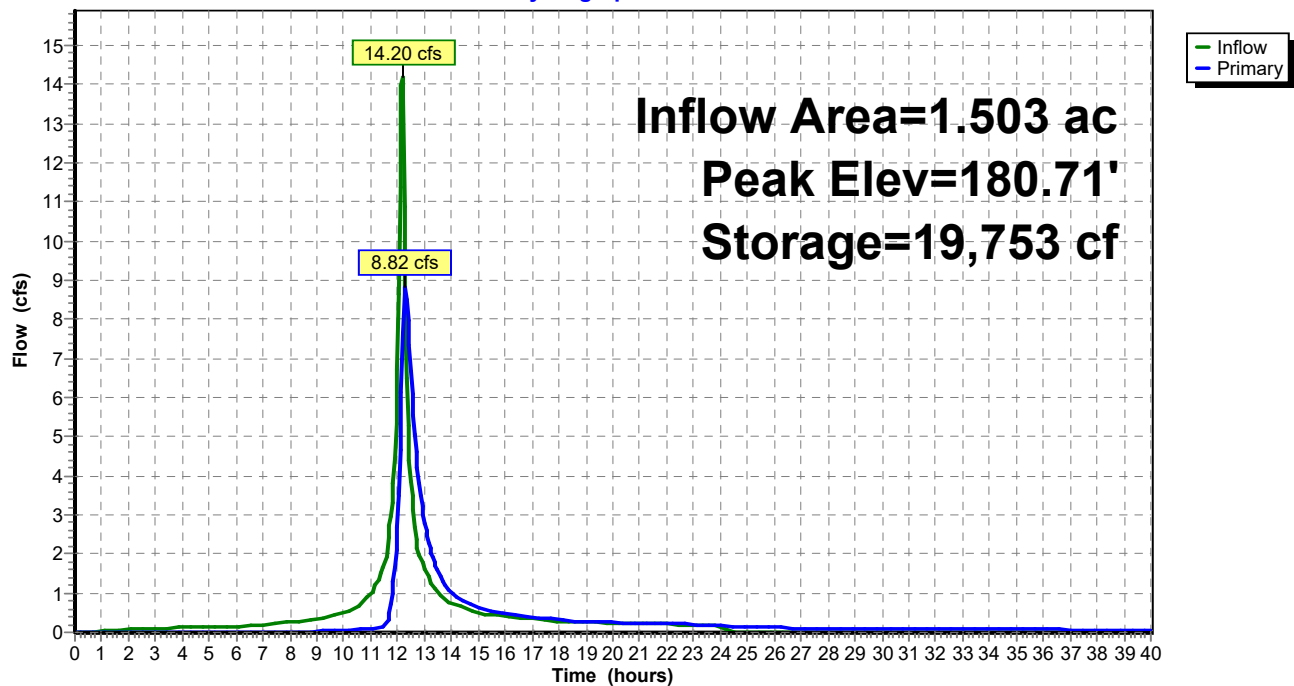
Device	Routing	Invert	Outlet Devices
#1	Primary	178.23'	18.0" Round Culvert L= 45.0' Ke= 0.500 Inlet / Outlet Invert= 178.23' / 178.00' S= 0.0051 '/' Cc= 0.900 n= 0.013, Flow Area= 1.77 sf
#2	Device 1	179.30'	2.5" Vert. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#3	Device 1	179.93'	4.0' long Sharp-Crested Rectangular Weir 2 End Contraction(s)
#4	Primary	181.95'	50.0' long + 3.0 '/' SideZ x 5.0' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 Coef. (English) 2.34 2.50 2.70 2.68 2.68 2.66 2.65 2.65 2.65 2.65 2.67 2.66 2.68 2.70 2.74 2.79 2.88

Primary OutFlow Max=8.80 cfs @ 12.29 hrs HW=180.71' (Free Discharge)

1=Culvert (Passes 8.80 cfs of 10.22 cfs potential flow)
 2=Orifice/Grate (Orifice Controls 0.19 cfs @ 5.50 fps)
 3=Sharp-Crested Rectangular Weir (Weir Controls 8.61 cfs @ 2.88 fps)
 4=Broad-Crested Rectangular Weir (Controls 0.00 cfs)

Pond B-9: Basin #9

Hydrograph



Stage-Discharge for Pond B-9: Basin #9

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
179.00	0.00	179.52	0.06	180.04	0.61	180.56	6.51
179.01	0.00	179.53	0.06	180.05	0.67	180.57	6.66
179.02	0.00	179.54	0.06	180.06	0.74	180.58	6.81
179.03	0.00	179.55	0.06	180.07	0.81	180.59	6.96
179.04	0.00	179.56	0.06	180.08	0.89	180.60	7.11
179.05	0.00	179.57	0.07	180.09	0.97	180.61	7.27
179.06	0.00	179.58	0.07	180.10	1.05	180.62	7.42
179.07	0.00	179.59	0.07	180.11	1.13	180.63	7.57
179.08	0.00	179.60	0.07	180.12	1.21	180.64	7.73
179.09	0.00	179.61	0.07	180.13	1.30	180.65	7.89
179.10	0.00	179.62	0.08	180.14	1.39	180.66	8.04
179.11	0.00	179.63	0.08	180.15	1.48	180.67	8.20
179.12	0.00	179.64	0.08	180.16	1.57	180.68	8.36
179.13	0.00	179.65	0.08	180.17	1.66	180.69	8.52
179.14	0.00	179.66	0.08	180.18	1.76	180.70	8.68
179.15	0.00	179.67	0.08	180.19	1.86	180.71	8.85
179.16	0.00	179.68	0.09	180.20	1.96	180.72	9.01
179.17	0.00	179.69	0.09	180.21	2.06	180.73	9.17
179.18	0.00	179.70	0.09	180.22	2.16	180.74	9.34
179.19	0.00	179.71	0.09	180.23	2.27	180.75	9.50
179.20	0.00	179.72	0.09	180.24	2.37	180.76	9.67
179.21	0.00	179.73	0.09	180.25	2.48	180.77	9.84
179.22	0.00	179.74	0.10	180.26	2.59	180.78	10.01
179.23	0.00	179.75	0.10	180.27	2.70	180.79	10.18
179.24	0.00	179.76	0.10	180.28	2.81	180.80	10.35
179.25	0.00	179.77	0.10	180.29	2.93	180.81	10.52
179.26	0.00	179.78	0.10	180.30	3.04	180.82	10.69
179.27	0.00	179.79	0.10	180.31	3.16	180.83	10.73
179.28	0.00	179.80	0.10	180.32	3.28	180.84	10.77
179.29	0.00	179.81	0.10	180.33	3.40	180.85	10.81
179.30	0.00	179.82	0.11	180.34	3.52	180.86	10.85
179.31	0.00	179.83	0.11	180.35	3.65	180.87	10.89
179.32	0.00	179.84	0.11	180.36	3.77	180.88	10.93
179.33	0.00	179.85	0.11	180.37	3.89	180.89	10.97
179.34	0.00	179.86	0.11	180.38	4.02	180.90	11.01
179.35	0.00	179.87	0.11	180.39	4.15	180.91	11.05
179.36	0.01	179.88	0.11	180.40	4.28	180.92	11.09
179.37	0.01	179.89	0.11	180.41	4.41	180.93	11.13
179.38	0.01	179.90	0.12	180.42	4.54	180.94	11.17
179.39	0.01	179.91	0.12	180.43	4.68	180.95	11.20
179.40	0.02	179.92	0.12	180.44	4.81	180.96	11.24
179.41	0.02	179.93	0.12	180.45	4.95	180.97	11.28
179.42	0.02	179.94	0.13	180.46	5.08	180.98	11.32
179.43	0.03	179.95	0.16	180.47	5.22	180.99	11.36
179.44	0.03	179.96	0.19	180.48	5.36	181.00	11.40
179.45	0.03	179.97	0.23	180.49	5.50	181.01	11.43
179.46	0.04	179.98	0.27	180.50	5.64	181.02	11.47
179.47	0.04	179.99	0.32	180.51	5.78	181.03	11.51
179.48	0.05	180.00	0.37	180.52	5.93	181.04	11.55
179.49	0.05	180.01	0.42	180.53	6.07	181.05	11.58
179.50	0.05	180.02	0.48	180.54	6.22	181.06	11.62
179.51	0.05	180.03	0.54	180.55	6.36	181.07	11.66

Stage-Discharge for Pond B-9: Basin #9 (continued)

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
181.08	11.70	181.60	13.48
181.09	11.73	181.61	13.52
181.10	11.77	181.62	13.55
181.11	11.81	181.63	13.58
181.12	11.84	181.64	13.61
181.13	11.88	181.65	13.64
181.14	11.92	181.66	13.67
181.15	11.95	181.67	13.71
181.16	11.99	181.68	13.74
181.17	12.02	181.69	13.77
181.18	12.06	181.70	13.80
181.19	12.10	181.71	13.83
181.20	12.13	181.72	13.86
181.21	12.17	181.73	13.89
181.22	12.20	181.74	13.93
181.23	12.24	181.75	13.96
181.24	12.27	181.76	13.99
181.25	12.31	181.77	14.02
181.26	12.34	181.78	14.05
181.27	12.38	181.79	14.08
181.28	12.41	181.80	14.11
181.29	12.45	181.81	14.14
181.30	12.48	181.82	14.17
181.31	12.52	181.83	14.20
181.32	12.55	181.84	14.23
181.33	12.59	181.85	14.26
181.34	12.62	181.86	14.29
181.35	12.66	181.87	14.32
181.36	12.69	181.88	14.35
181.37	12.72	181.89	14.38
181.38	12.76	181.90	14.41
181.39	12.79	181.91	14.44
181.40	12.83	181.92	14.47
181.41	12.86	181.93	14.50
181.42	12.89	181.94	14.53
181.43	12.93	181.95	14.56
181.44	12.96	181.96	14.71
181.45	12.99	181.97	14.95
181.46	13.03	181.98	15.26
181.47	13.06	181.99	15.62
181.48	13.09	182.00	16.02
181.49	13.13		
181.50	13.16		
181.51	13.19		
181.52	13.22		
181.53	13.26		
181.54	13.29		
181.55	13.32		
181.56	13.35		
181.57	13.39		
181.58	13.42		
181.59	13.45		

Stage-Area-Storage for Pond B-9: Basin #9

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
179.00	10,720	0	179.52	11,230	5,707
179.01	10,730	107	179.53	11,239	5,819
179.02	10,740	215	179.54	11,249	5,932
179.03	10,749	322	179.55	11,259	6,044
179.04	10,759	430	179.56	11,269	6,157
179.05	10,769	537	179.57	11,279	6,270
179.06	10,779	645	179.58	11,288	6,382
179.07	10,789	753	179.59	11,298	6,495
179.08	10,798	861	179.60	11,308	6,608
179.09	10,808	969	179.61	11,318	6,722
179.10	10,818	1,077	179.62	11,328	6,835
179.11	10,828	1,185	179.63	11,337	6,948
179.12	10,838	1,293	179.64	11,347	7,062
179.13	10,847	1,402	179.65	11,357	7,175
179.14	10,857	1,510	179.66	11,367	7,289
179.15	10,867	1,619	179.67	11,377	7,402
179.16	10,877	1,728	179.68	11,386	7,516
179.17	10,887	1,837	179.69	11,396	7,630
179.18	10,896	1,945	179.70	11,406	7,744
179.19	10,906	2,054	179.71	11,416	7,858
179.20	10,916	2,164	179.72	11,426	7,972
179.21	10,926	2,273	179.73	11,435	8,087
179.22	10,936	2,382	179.74	11,445	8,201
179.23	10,945	2,492	179.75	11,455	8,316
179.24	10,955	2,601	179.76	11,465	8,430
179.25	10,965	2,711	179.77	11,475	8,545
179.26	10,975	2,820	179.78	11,484	8,660
179.27	10,985	2,930	179.79	11,494	8,775
179.28	10,994	3,040	179.80	11,504	8,890
179.29	11,004	3,150	179.81	11,514	9,005
179.30	11,014	3,260	179.82	11,524	9,120
179.31	11,024	3,370	179.83	11,533	9,235
179.32	11,034	3,481	179.84	11,543	9,351
179.33	11,043	3,591	179.85	11,553	9,466
179.34	11,053	3,701	179.86	11,563	9,582
179.35	11,063	3,812	179.87	11,573	9,697
179.36	11,073	3,923	179.88	11,582	9,813
179.37	11,083	4,033	179.89	11,592	9,929
179.38	11,092	4,144	179.90	11,602	10,045
179.39	11,102	4,255	179.91	11,612	10,161
179.40	11,112	4,366	179.92	11,622	10,277
179.41	11,122	4,478	179.93	11,631	10,393
179.42	11,132	4,589	179.94	11,641	10,510
179.43	11,141	4,700	179.95	11,651	10,626
179.44	11,151	4,812	179.96	11,661	10,743
179.45	11,161	4,923	179.97	11,671	10,859
179.46	11,171	5,035	179.98	11,680	10,976
179.47	11,181	5,147	179.99	11,690	11,093
179.48	11,190	5,258	180.00	11,700	11,210
179.49	11,200	5,370	180.01	11,710	11,327
179.50	11,210	5,483	180.02	11,720	11,444
179.51	11,220	5,595	180.03	11,730	11,561

Stage-Area-Storage for Pond B-9: Basin #9 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
180.04	11,740	11,679	180.56	12,264	17,920
180.05	11,750	11,796	180.57	12,275	18,043
180.06	11,760	11,914	180.58	12,285	18,166
180.07	11,771	12,031	180.59	12,295	18,288
180.08	11,781	12,149	180.60	12,305	18,411
180.09	11,791	12,267	180.61	12,315	18,535
180.10	11,801	12,385	180.62	12,325	18,658
180.11	11,811	12,503	180.63	12,335	18,781
180.12	11,821	12,621	180.64	12,345	18,904
180.13	11,831	12,740	180.65	12,355	19,028
180.14	11,841	12,858	180.66	12,365	19,152
180.15	11,851	12,976	180.67	12,375	19,275
180.16	11,861	13,095	180.68	12,385	19,399
180.17	11,871	13,214	180.69	12,396	19,523
180.18	11,881	13,332	180.70	12,406	19,647
180.19	11,892	13,451	180.71	12,416	19,771
180.20	11,902	13,570	180.72	12,426	19,895
180.21	11,912	13,689	180.73	12,436	20,020
180.22	11,922	13,808	180.74	12,446	20,144
180.23	11,932	13,928	180.75	12,456	20,269
180.24	11,942	14,047	180.76	12,466	20,393
180.25	11,952	14,167	180.77	12,476	20,518
180.26	11,962	14,286	180.78	12,486	20,643
180.27	11,972	14,406	180.79	12,496	20,768
180.28	11,982	14,526	180.80	12,506	20,893
180.29	11,992	14,645	180.81	12,516	21,018
180.30	12,002	14,765	180.82	12,527	21,143
180.31	12,012	14,885	180.83	12,537	21,268
180.32	12,023	15,006	180.84	12,547	21,394
180.33	12,033	15,126	180.85	12,557	21,519
180.34	12,043	15,246	180.86	12,567	21,645
180.35	12,053	15,367	180.87	12,577	21,770
180.36	12,063	15,487	180.88	12,587	21,896
180.37	12,073	15,608	180.89	12,597	22,022
180.38	12,083	15,729	180.90	12,607	22,148
180.39	12,093	15,850	180.91	12,617	22,274
180.40	12,103	15,971	180.92	12,627	22,401
180.41	12,113	16,092	180.93	12,637	22,527
180.42	12,123	16,213	180.94	12,648	22,653
180.43	12,133	16,334	180.95	12,658	22,780
180.44	12,144	16,456	180.96	12,668	22,906
180.45	12,154	16,577	180.97	12,678	23,033
180.46	12,164	16,699	180.98	12,688	23,160
180.47	12,174	16,820	180.99	12,698	23,287
180.48	12,184	16,942	181.00	12,708	23,414
180.49	12,194	17,064	181.01	12,718	23,541
180.50	12,204	17,186	181.02	12,729	23,668
180.51	12,214	17,308	181.03	12,739	23,796
180.52	12,224	17,430	181.04	12,749	23,923
180.53	12,234	17,553	181.05	12,760	24,051
180.54	12,244	17,675	181.06	12,770	24,178
180.55	12,254	17,797	181.07	12,781	24,306

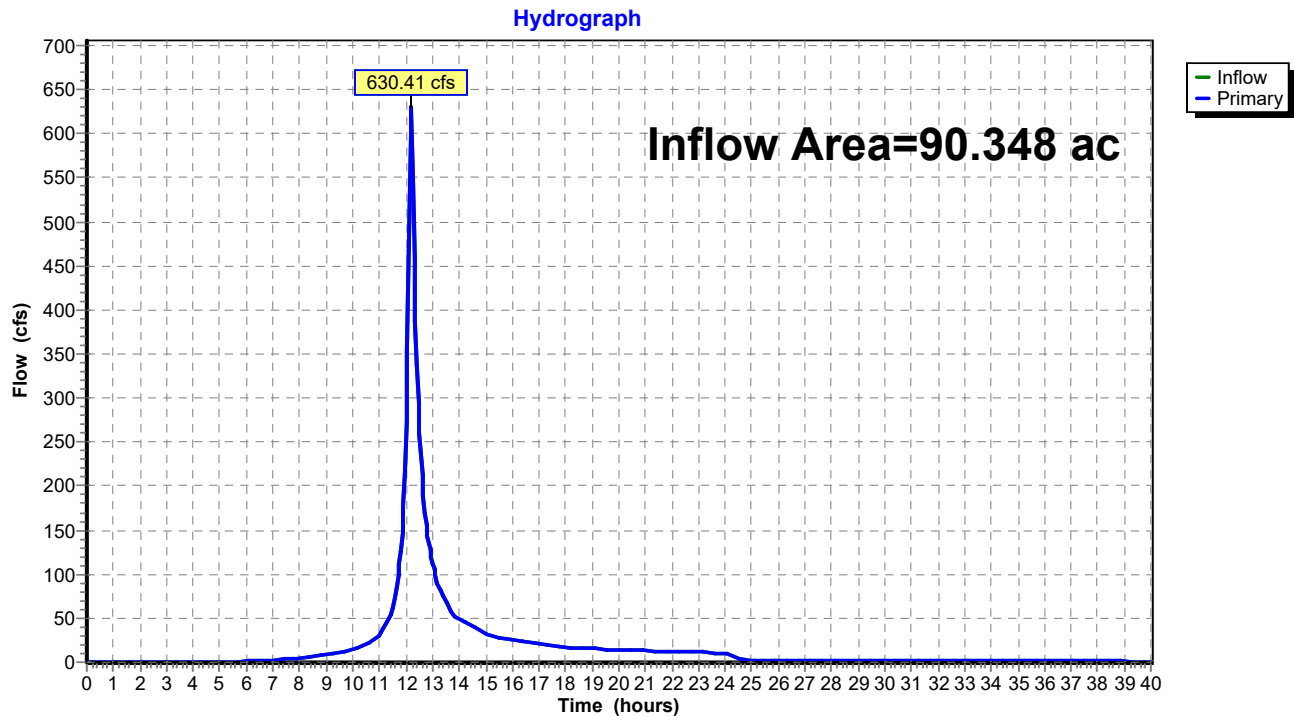
Stage-Area-Storage for Pond B-9: Basin #9 (continued)

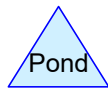
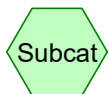
Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
181.08	12,791	24,434	181.60	13,330	31,225
181.09	12,801	24,562	181.61	13,341	31,359
181.10	12,812	24,690	181.62	13,351	31,492
181.11	12,822	24,818	181.63	13,361	31,626
181.12	12,832	24,946	181.64	13,372	31,759
181.13	12,843	25,075	181.65	13,382	31,893
181.14	12,853	25,203	181.66	13,392	32,027
181.15	12,864	25,332	181.67	13,403	32,161
181.16	12,874	25,461	181.68	13,413	32,295
181.17	12,884	25,589	181.69	13,424	32,429
181.18	12,895	25,718	181.70	13,434	32,564
181.19	12,905	25,847	181.71	13,444	32,698
181.20	12,915	25,976	181.72	13,455	32,833
181.21	12,926	26,106	181.73	13,465	32,967
181.22	12,936	26,235	181.74	13,475	33,102
181.23	12,947	26,364	181.75	13,486	33,237
181.24	12,957	26,494	181.76	13,496	33,372
181.25	12,967	26,623	181.77	13,506	33,507
181.26	12,978	26,753	181.78	13,517	33,642
181.27	12,988	26,883	181.79	13,527	33,777
181.28	12,998	27,013	181.80	13,538	33,912
181.29	13,009	27,143	181.81	13,548	34,048
181.30	13,019	27,273	181.82	13,558	34,183
181.31	13,029	27,403	181.83	13,569	34,319
181.32	13,040	27,534	181.84	13,579	34,455
181.33	13,050	27,664	181.85	13,589	34,590
181.34	13,061	27,795	181.86	13,600	34,726
181.35	13,071	27,925	181.87	13,610	34,862
181.36	13,081	28,056	181.88	13,621	34,999
181.37	13,092	28,187	181.89	13,631	35,135
181.38	13,102	28,318	181.90	13,641	35,271
181.39	13,112	28,449	181.91	13,652	35,408
181.40	13,123	28,580	181.92	13,662	35,544
181.41	13,133	28,711	181.93	13,672	35,681
181.42	13,144	28,843	181.94	13,683	35,818
181.43	13,154	28,974	181.95	13,693	35,955
181.44	13,164	29,106	181.96	13,704	36,092
181.45	13,175	29,238	181.97	13,714	36,229
181.46	13,185	29,369	181.98	13,724	36,366
181.47	13,195	29,501	181.99	13,735	36,503
181.48	13,206	29,633	182.00	13,745	36,641
181.49	13,216	29,765			
181.50	13,227	29,898			
181.51	13,237	30,030			
181.52	13,247	30,162			
181.53	13,258	30,295			
181.54	13,268	30,428			
181.55	13,278	30,560			
181.56	13,289	30,693			
181.57	13,299	30,826			
181.58	13,309	30,959			
181.59	13,320	31,092			

Summary for Link PDA-1: Proposed Drainage Area #1

Inflow Area = 90.348 ac, 16.68% Impervious, Inflow Depth > 7.89" for Future 100 yr event
Inflow = 630.41 cfs @ 12.19 hrs, Volume= 59.411 af
Primary = 630.41 cfs @ 12.19 hrs, Volume= 59.411 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs

Link PDA-1: Proposed Drainage Area #1



Routing Diagram for 2025-04-04 Proposed- 081391_2
 Prepared by Bowman Consulting Group, Printed 4/1/2025
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2025-04-04 Proposed- 081391_2

Prepared by Bowman Consulting Group

Printed 4/1/2025

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Area Listing (all nodes)

Area (acres)	CN	Description (subcatchment-numbers)
1.037	86	<50% Grass cover, Poor, HSG C (27P)
23.768	74	>75% Grass cover, Good, HSG C (18P, 19P, 20P, 21P, 22P, 23P, 24P, 25P, 26P, 28P, UPDA-2)
0.326	98	Concrete, HSC C (20I, 21I, 22I, 24I, 25I, 27I, 28I)
0.118	98	Concrete, HSG C (19I, 23I)
3.150	98	Pavement, HSG C (19I, 20I, 21I, 22I, 23I, 24I, 25I, 27I, 28I)
5.535	98	Roof, HSG C (18I, 19I, 20I, 21I, 22I, 24I, 25I, 26I, 27I, 28I)
33.934	81	TOTAL AREA

Summary for Subcatchment 18I: PDA-18 (impervious)

Runoff = 1.36 cfs @ 12.17 hrs, Volume= 0.117 af, Depth= 3.12"
 Routed to Pond B-18 : Basin #18

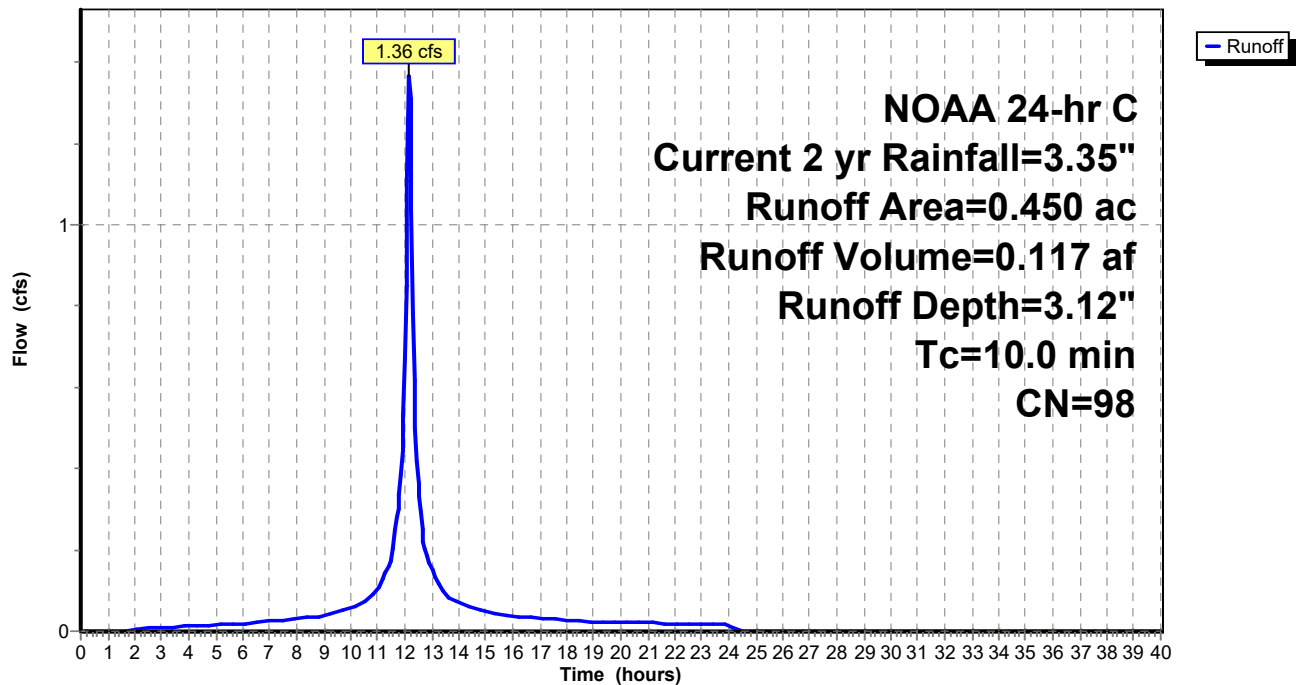
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 NOAA 24-hr C Current 2 yr Rainfall=3.35"

Area (ac)	CN	Description
* 0.000	98	Pavement, HSG C
* 0.450	98	Roof, HSG C
* 0.000	98	Concrete, HSG C
0.450	98	Weighted Average
0.450		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.0					Direct Entry,

Subcatchment 18I: PDA-18 (impervious)

Hydrograph



Summary for Subcatchment 18P: PDA-18 (pervious)

Runoff = 1.17 cfs @ 12.18 hrs, Volume= 0.091 af, Depth= 1.14"
 Routed to Pond B-18 : Basin #18

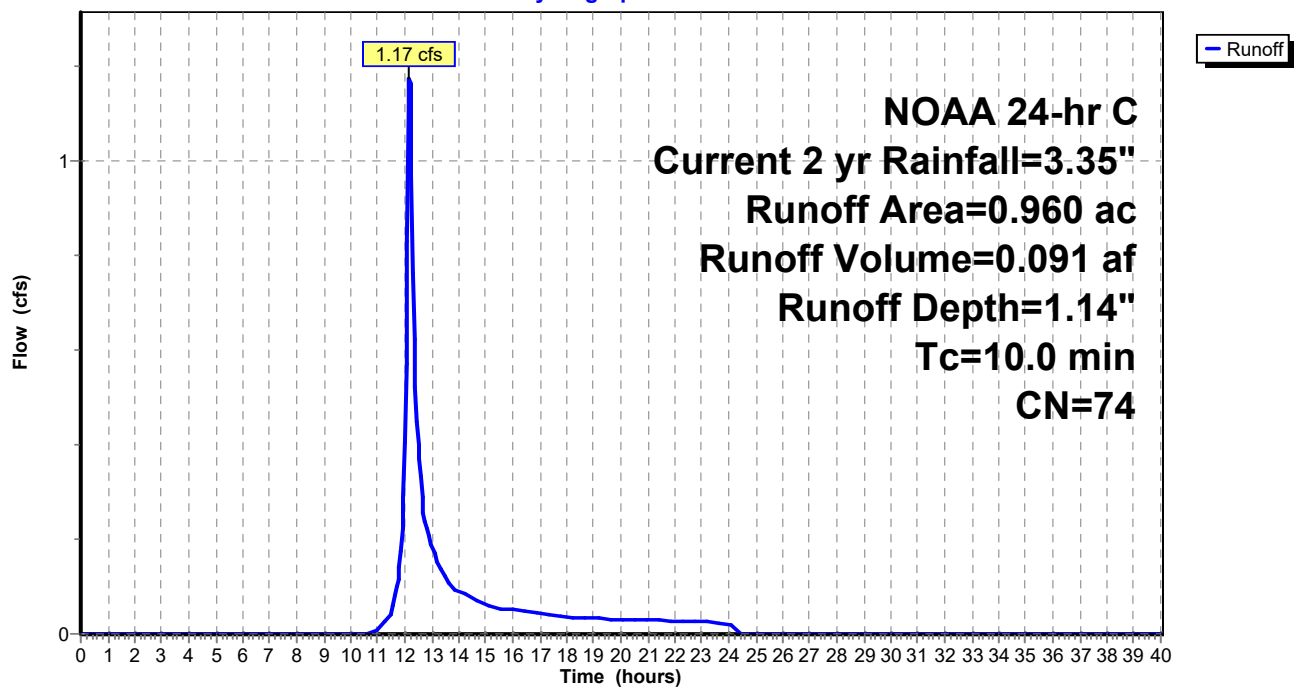
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 NOAA 24-hr C Current 2 yr Rainfall=3.35"

Area (ac)	CN	Description
0.960	74	>75% Grass cover, Good, HSG C
0.960		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.0					Direct Entry,

Subcatchment 18P: PDA-18 (pervious)

Hydrograph



Summary for Subcatchment 19I: PDA-19 (impervious)

Runoff = 1.81 cfs @ 12.17 hrs, Volume= 0.155 af, Depth= 3.12"
 Routed to Pond B-19 : Basin #19

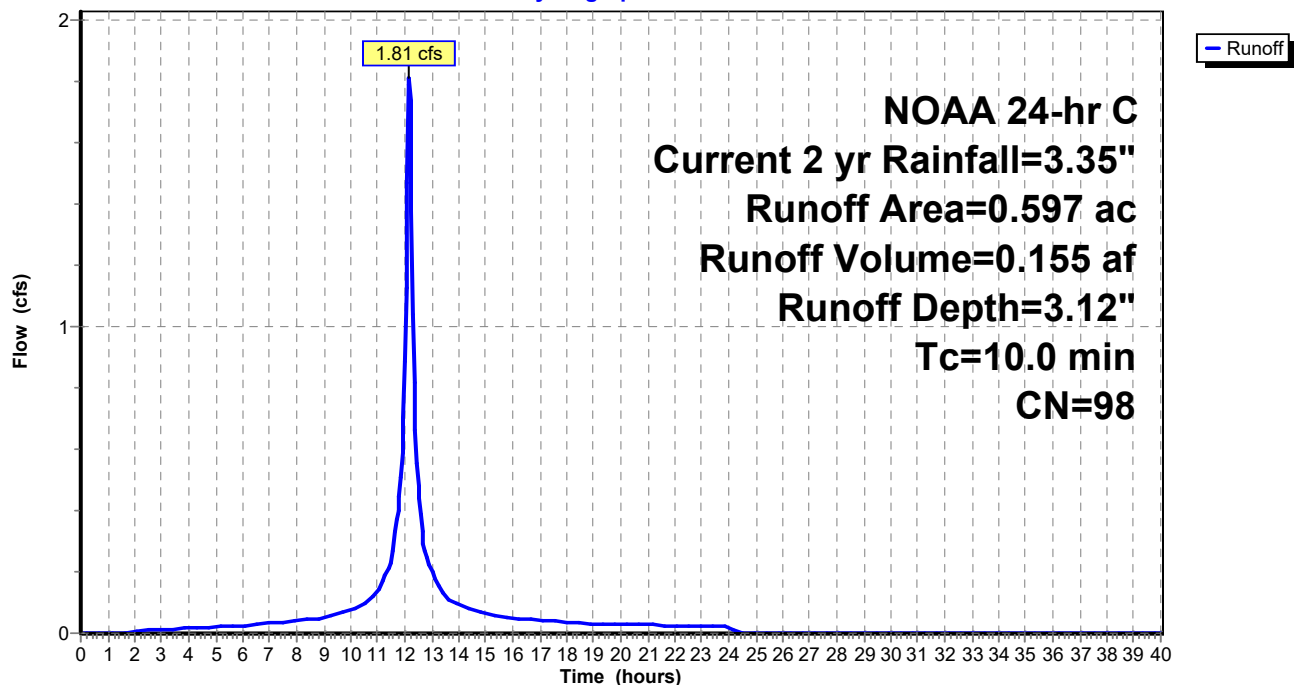
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 NOAA 24-hr C Current 2 yr Rainfall=3.35"

Area (ac)	CN	Description
* 0.132	98	Pavement, HSG C
* 0.450	98	Roof, HSG C
* 0.015	98	Concrete, HSG C
0.597	98	Weighted Average
0.597		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.0					Direct Entry,

Subcatchment 19I: PDA-19 (impervious)

Hydrograph



Summary for Subcatchment 19P: PDA-19 (pervious)

Runoff = 1.37 cfs @ 12.18 hrs, Volume= 0.106 af, Depth= 1.14"
 Routed to Pond B-19 : Basin #19

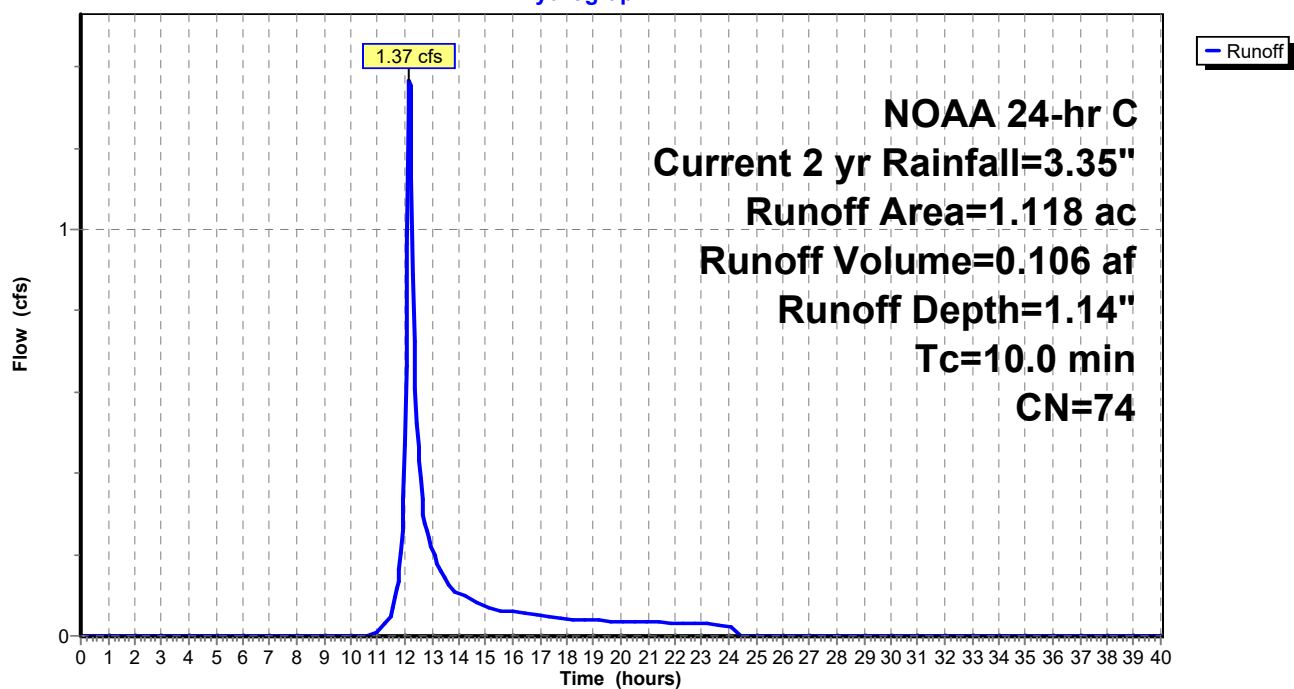
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 NOAA 24-hr C Current 2 yr Rainfall=3.35"

Area (ac)	CN	Description
1.118	74	>75% Grass cover, Good, HSG C
1.118		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.0					Direct Entry,

Subcatchment 19P: PDA-19 (pervious)

Hydrograph



Summary for Subcatchment 20I: PDA-20 (impervious)

Runoff = 3.42 cfs @ 12.17 hrs, Volume= 0.294 af, Depth= 3.12"
 Routed to Pond B-20 : Basin #20

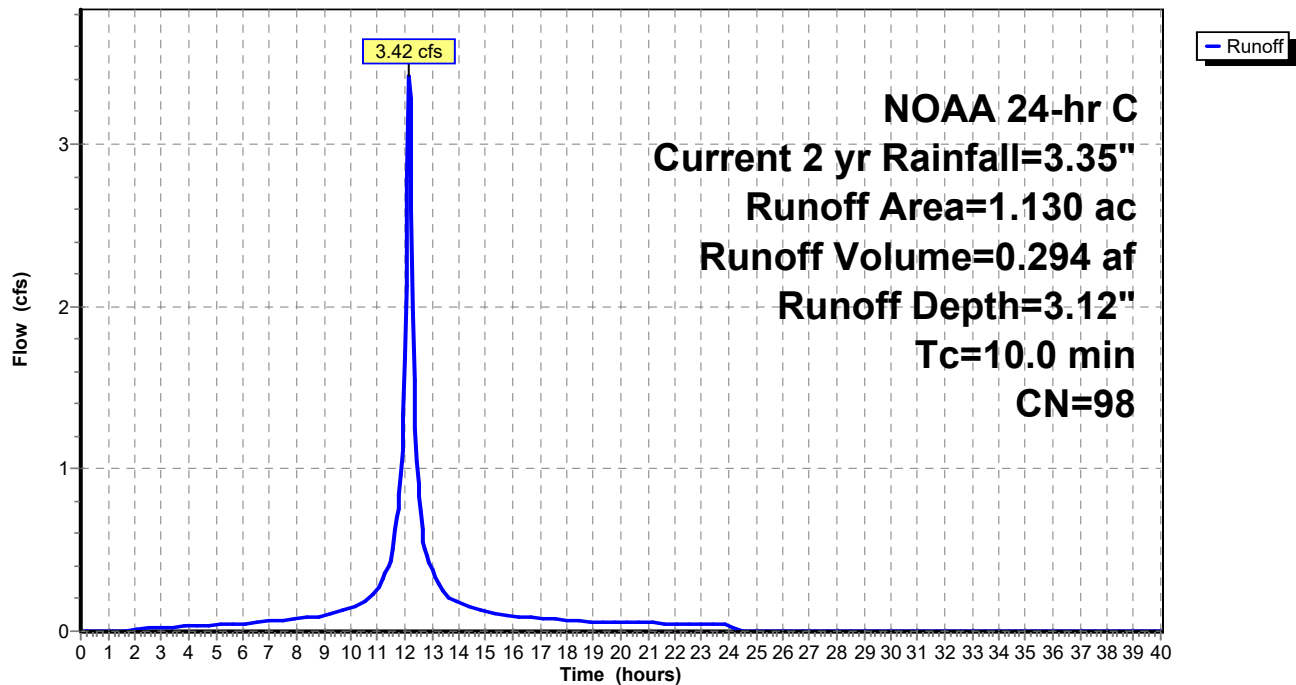
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 NOAA 24-hr C Current 2 yr Rainfall=3.35"

Area (ac)	CN	Description
* 0.572	98	Pavement, HSG C
* 0.450	98	Roof, HSG C
* 0.108	98	Concrete, HSC C
1.130	98	Weighted Average
1.130		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.0					Direct Entry,

Subcatchment 20I: PDA-20 (impervious)

Hydrograph



Summary for Subcatchment 20P: PDA-20 (pervious)

Runoff = 1.62 cfs @ 12.18 hrs, Volume= 0.125 af, Depth= 1.14"
 Routed to Pond B-20 : Basin #20

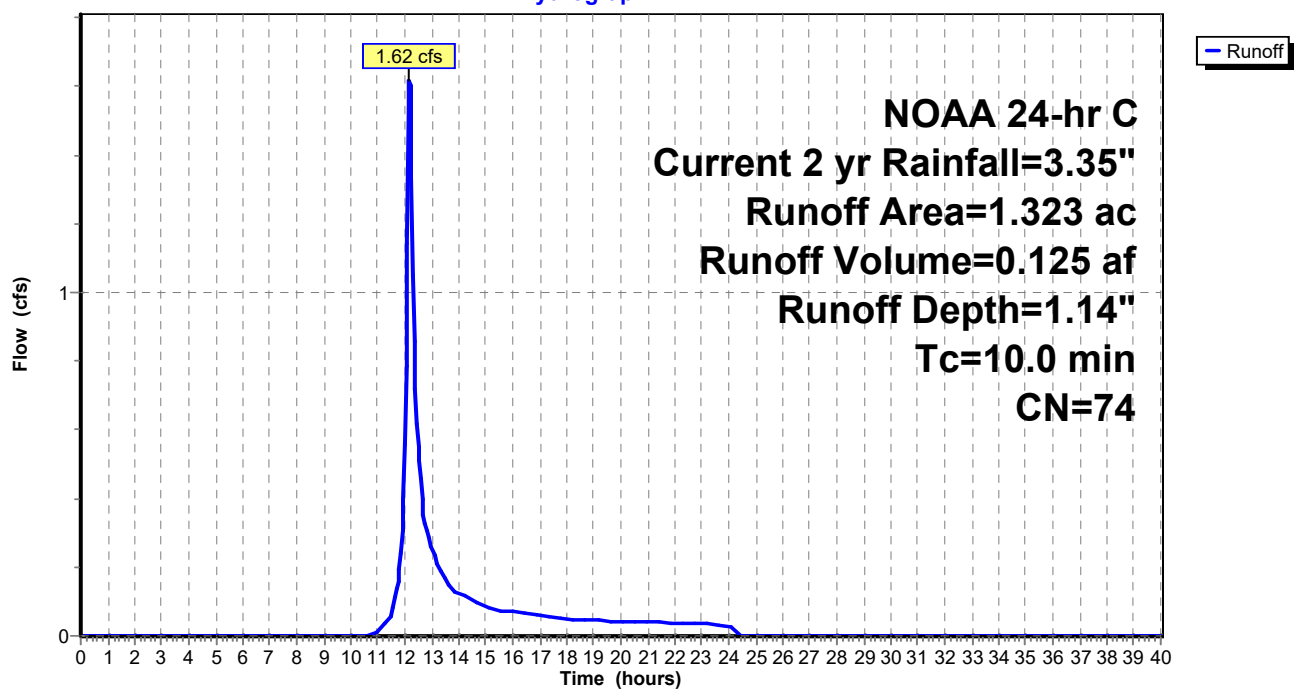
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 NOAA 24-hr C Current 2 yr Rainfall=3.35"

Area (ac)	CN	Description
1.323	74	>75% Grass cover, Good, HSG C
1.323		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.0					Direct Entry,

Subcatchment 20P: PDA-20 (pervious)

Hydrograph



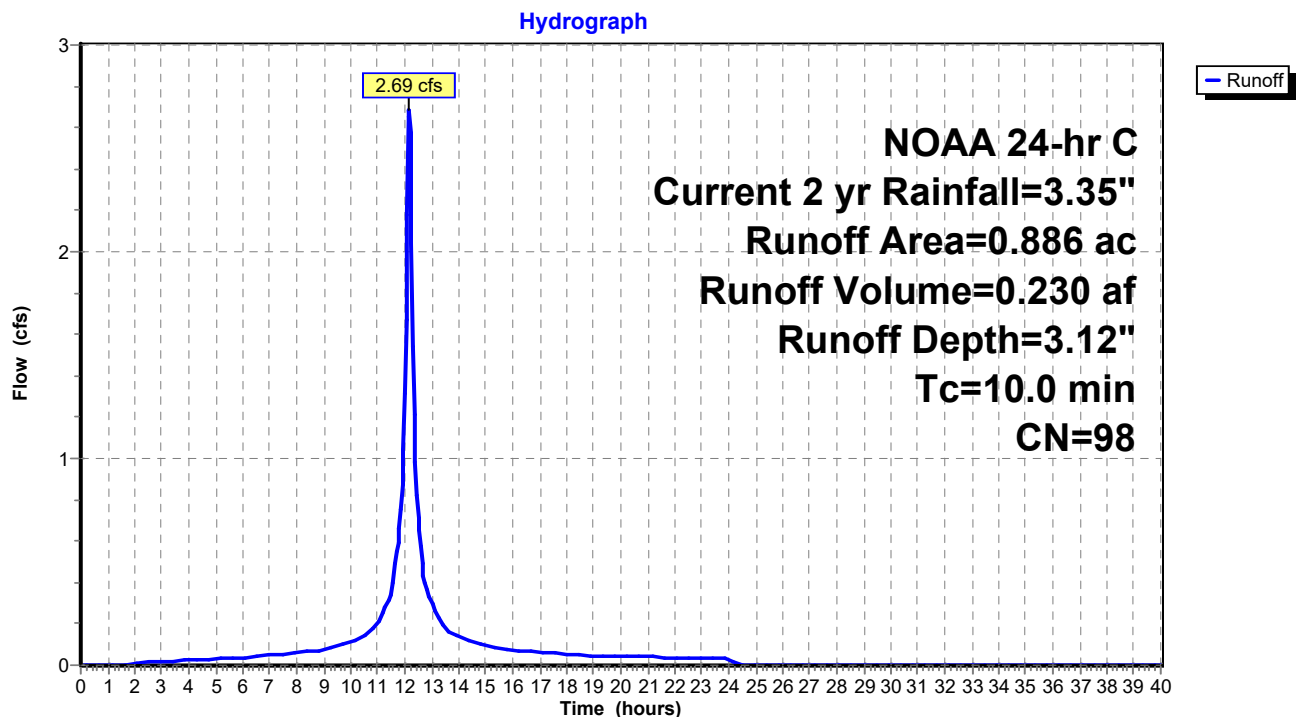
Summary for Subcatchment 21I: PDA-21 (impervious)

Runoff = 2.69 cfs @ 12.17 hrs, Volume= 0.230 af, Depth= 3.12"
 Routed to Pond B-21 : Basin #21

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 NOAA 24-hr C Current 2 yr Rainfall=3.35"

Area (ac)	CN	Description
* 0.511	98	Pavement, HSG C
* 0.321	98	Roof, HSG C
* 0.054	98	Concrete, HSC C
0.886	98	Weighted Average
0.886		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.0					Direct Entry,

Subcatchment 21I: PDA-21 (impervious)

Summary for Subcatchment 21P: PDA-21 (pervious)

Runoff = 1.97 cfs @ 12.18 hrs, Volume= 0.153 af, Depth= 1.14"
 Routed to Pond B-21 : Basin #21

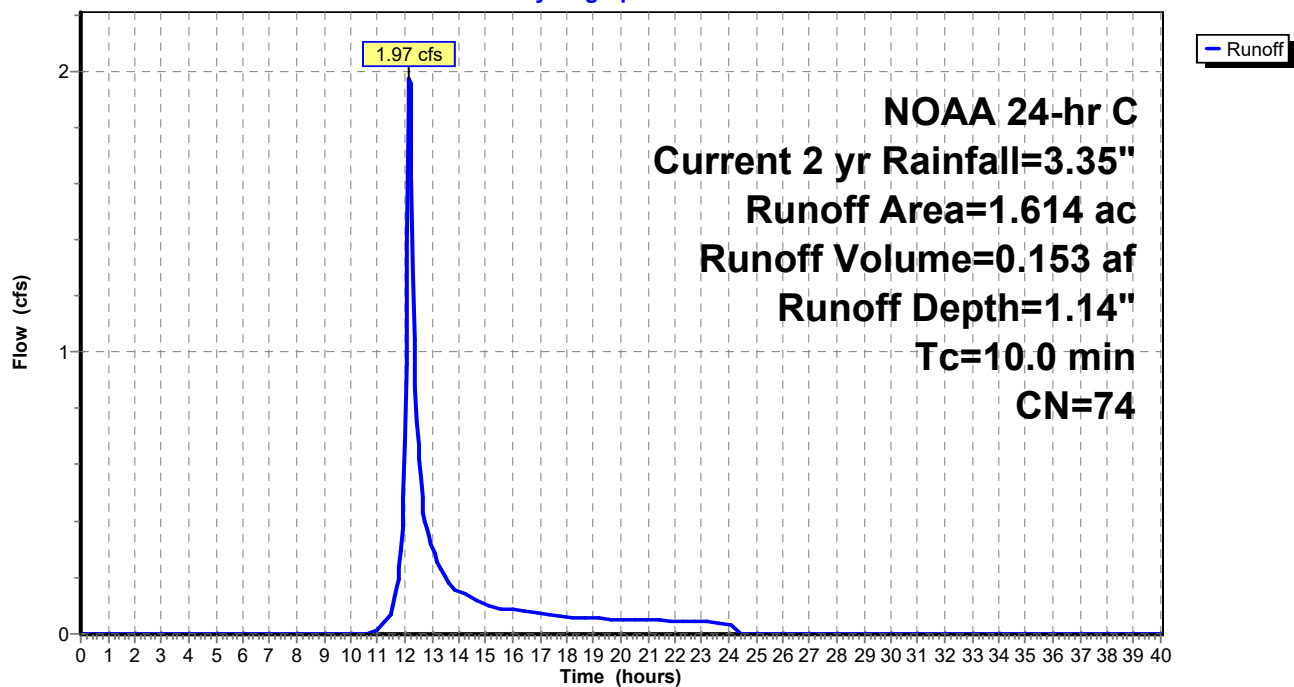
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 NOAA 24-hr C Current 2 yr Rainfall=3.35"

Area (ac)	CN	Description
1.614	74	>75% Grass cover, Good, HSG C
1.614		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.0					Direct Entry,

Subcatchment 21P: PDA-21 (pervious)

Hydrograph



Summary for Subcatchment 22I: PDA-22 (impervious)

Runoff = 2.46 cfs @ 12.17 hrs, Volume= 0.211 af, Depth= 3.12"
 Routed to Pond B-22 : Basin #22

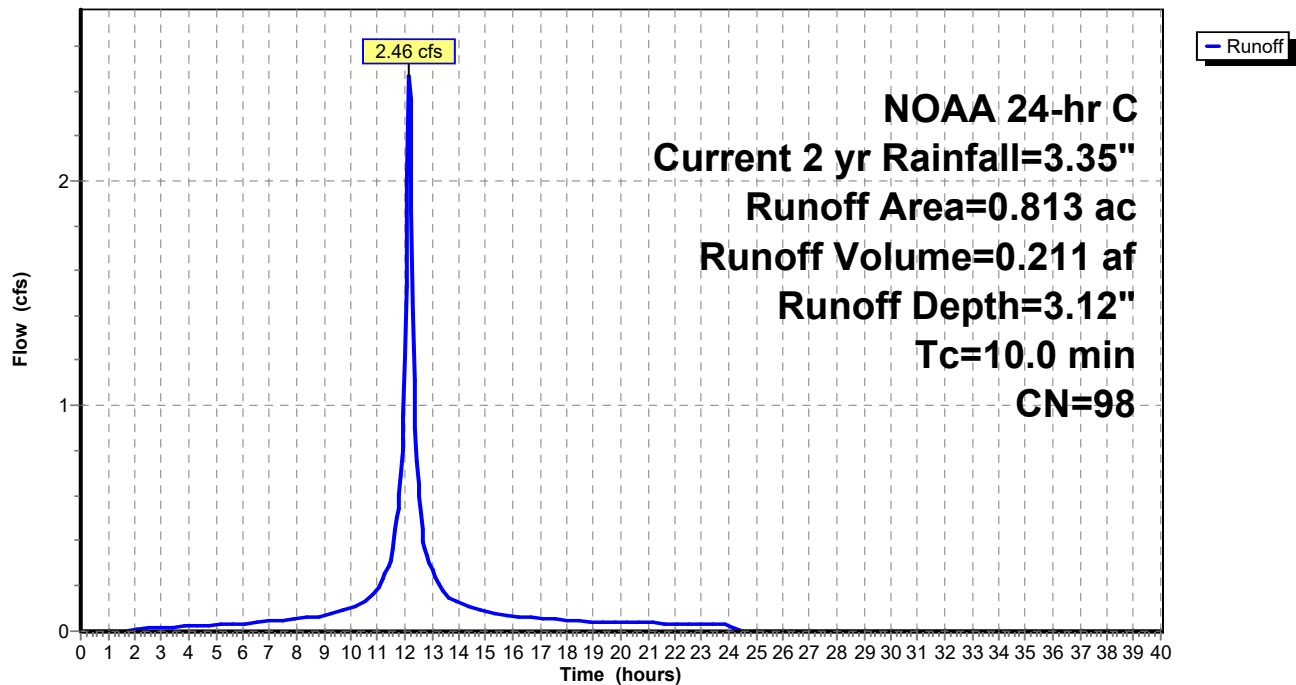
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 NOAA 24-hr C Current 2 yr Rainfall=3.35"

Area (ac)	CN	Description
* 0.083	98	Pavement, HSG C
* 0.707	98	Roof, HSG C
* 0.023	98	Concrete, HSC C
0.813	98	Weighted Average
0.813		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.0					Direct Entry,

Subcatchment 22I: PDA-22 (impervious)

Hydrograph



Summary for Subcatchment 22P: PDA-22 (pervious)

Runoff = 2.01 cfs @ 12.18 hrs, Volume= 0.156 af, Depth= 1.14"
 Routed to Pond B-22 : Basin #22

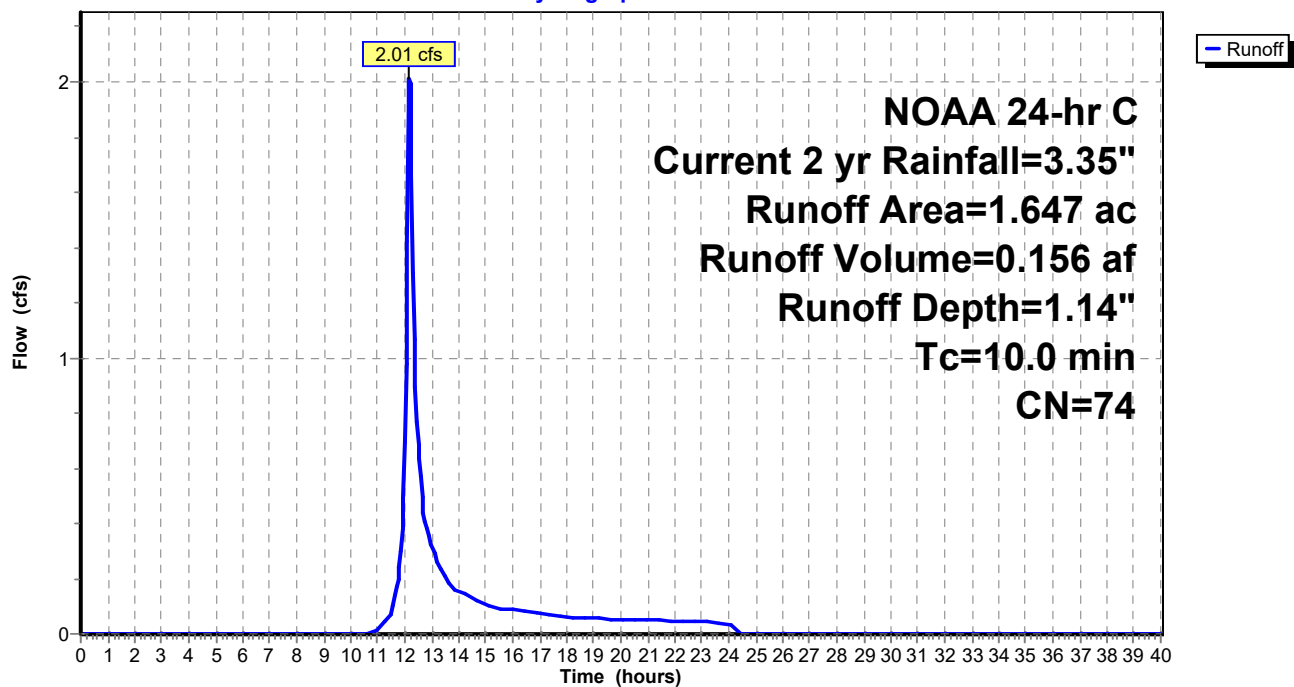
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 NOAA 24-hr C Current 2 yr Rainfall=3.35"

Area (ac)	CN	Description
1.647	74	>75% Grass cover, Good, HSG C
1.647		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.0					Direct Entry,

Subcatchment 22P: PDA-22 (pervious)

Hydrograph



Summary for Subcatchment 23I: PDA-23 (impervious)

Runoff = 2.49 cfs @ 12.17 hrs, Volume= 0.214 af, Depth= 3.12"
 Routed to Pond B-23 : Basin #23

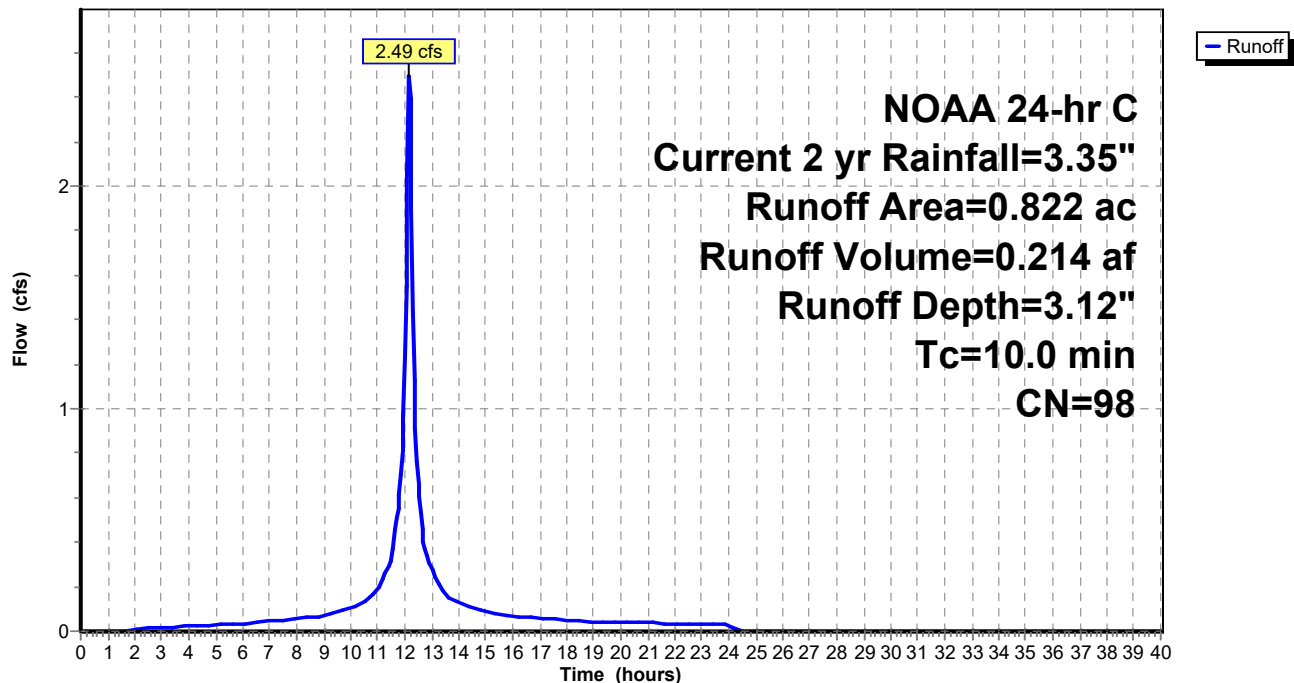
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 NOAA 24-hr C Current 2 yr Rainfall=3.35"

Area (ac)	CN	Description
* 0.719	98	Pavement, HSG C
* 0.103	98	Concrete, HSG C
0.000	98	Roofs, HSG C
0.822	98	Weighted Average
0.822		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.0					Direct Entry,

Subcatchment 23I: PDA-23 (impervious)

Hydrograph



Summary for Subcatchment 23P: PDA-23 (pervious)

Runoff = 1.99 cfs @ 12.18 hrs, Volume= 0.154 af, Depth= 1.14"
 Routed to Pond B-23 : Basin #23

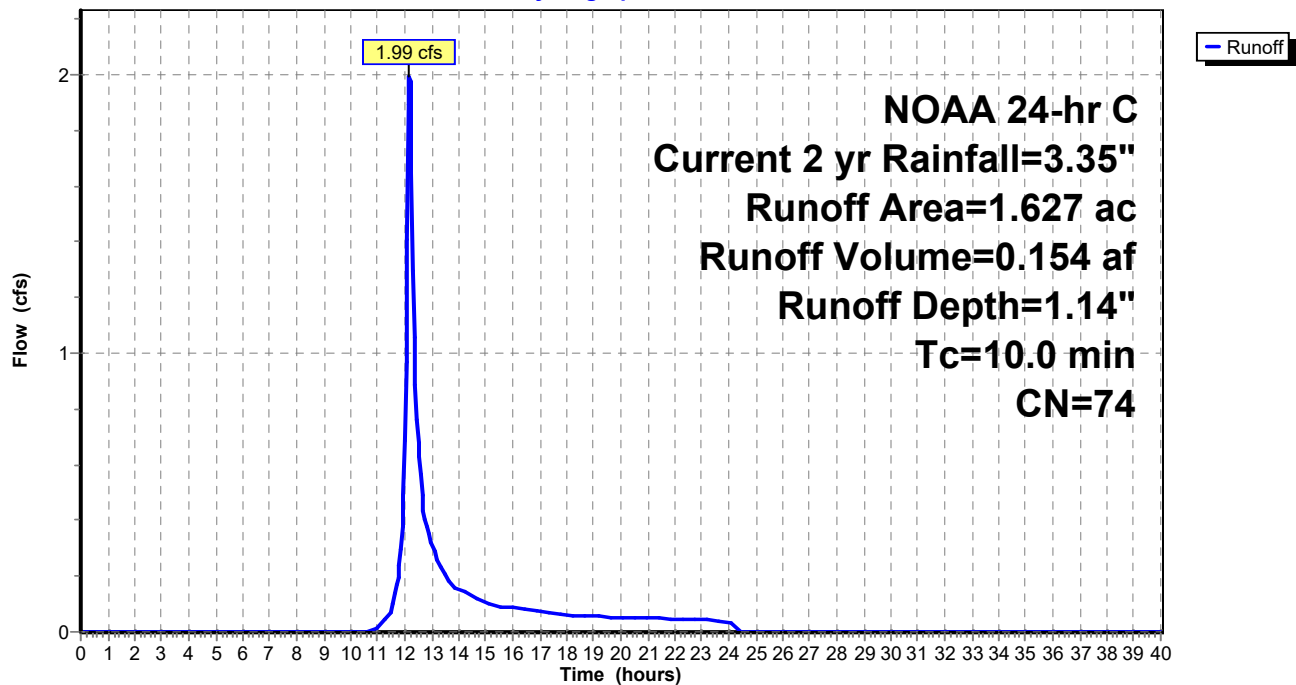
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 NOAA 24-hr C Current 2 yr Rainfall=3.35"

Area (ac)	CN	Description
1.627	74	>75% Grass cover, Good, HSG C
1.627		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.0					Direct Entry,

Subcatchment 23P: PDA-23 (pervious)

Hydrograph



Summary for Subcatchment 24I: PDA-24 (impervious)

Runoff = 2.73 cfs @ 12.17 hrs, Volume= 0.234 af, Depth= 3.12"
 Routed to Pond B-24 : Basin #24

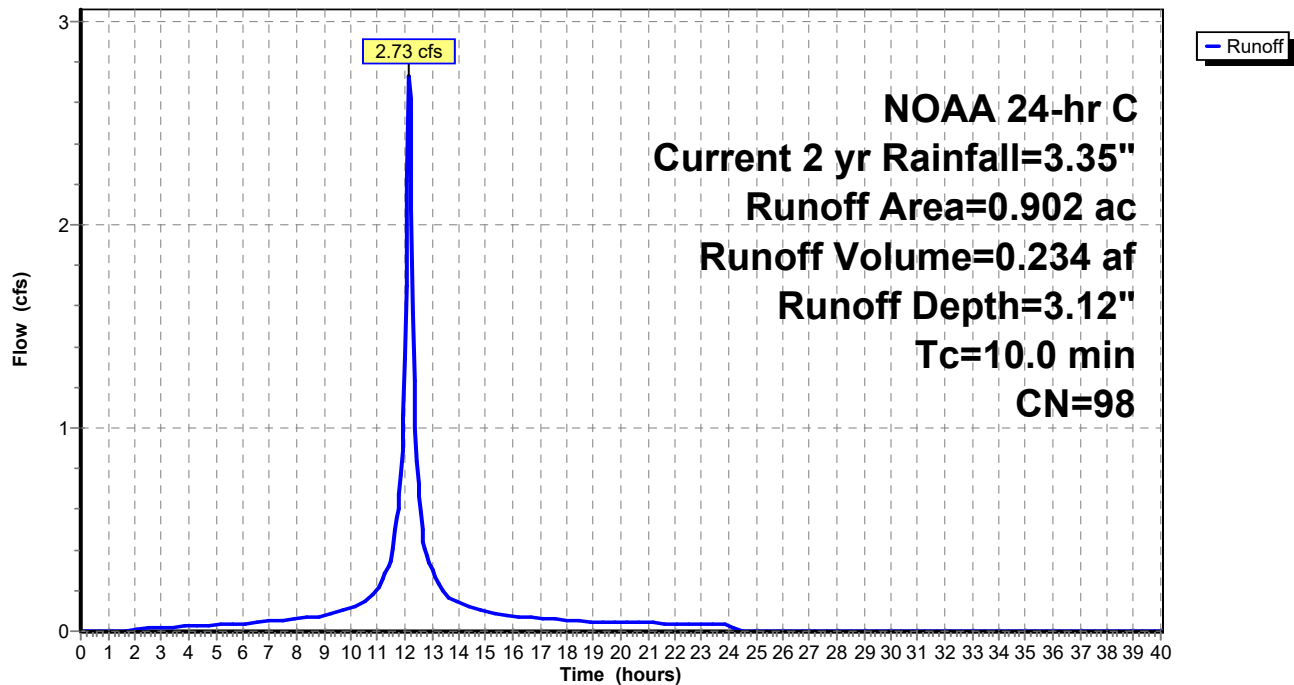
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 NOAA 24-hr C Current 2 yr Rainfall=3.35"

Area (ac)	CN	Description
* 0.277	98	Pavement, HSG C
* 0.579	98	Roof, HSG C
* 0.046	98	Concrete, HSC C
0.902	98	Weighted Average
0.902		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.0					Direct Entry,

Subcatchment 24I: PDA-24 (impervious)

Hydrograph



Summary for Subcatchment 24P: PDA-24 (pervious)

Runoff = 1.84 cfs @ 12.18 hrs, Volume= 0.143 af, Depth= 1.14"
 Routed to Pond B-24 : Basin #24

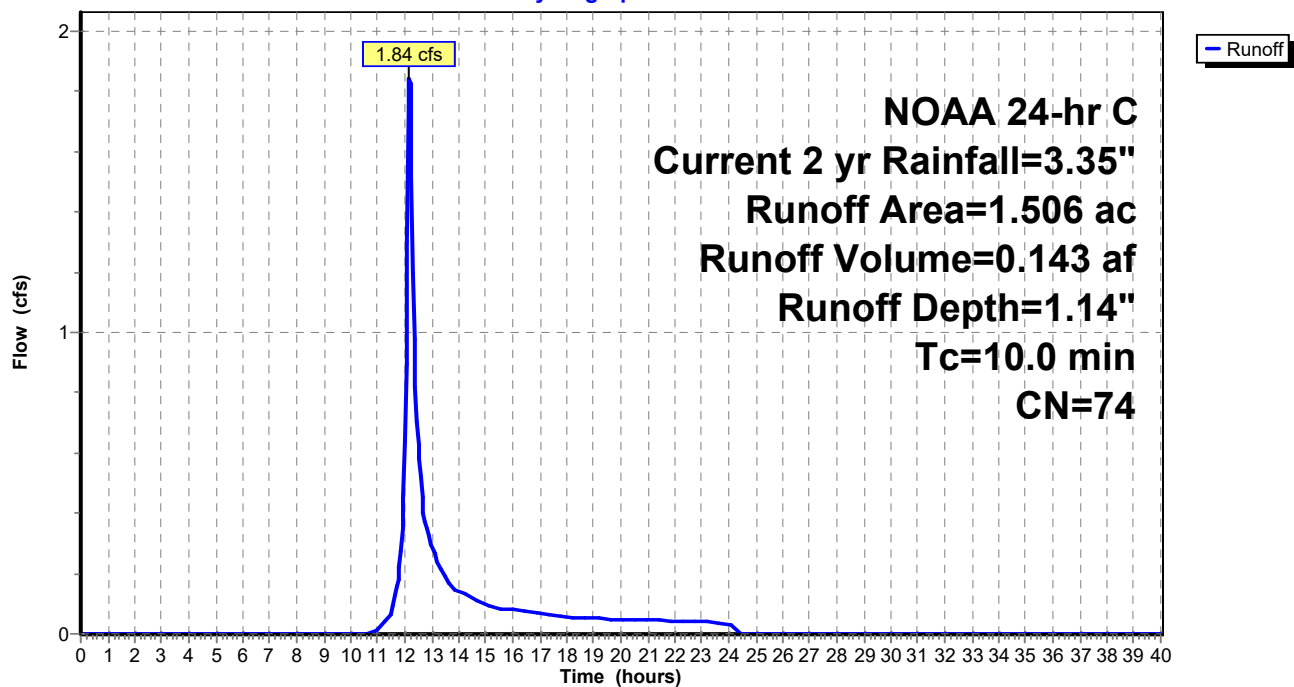
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 NOAA 24-hr C Current 2 yr Rainfall=3.35"

Area (ac)	CN	Description
1.506	74	>75% Grass cover, Good, HSG C
1.506		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.0					Direct Entry,

Subcatchment 24P: PDA-24 (pervious)

Hydrograph



Summary for Subcatchment 25I: PDA-25 (impervious)

Runoff = 2.65 cfs @ 12.17 hrs, Volume= 0.227 af, Depth= 3.12"
 Routed to Pond B-25 : Basin #25

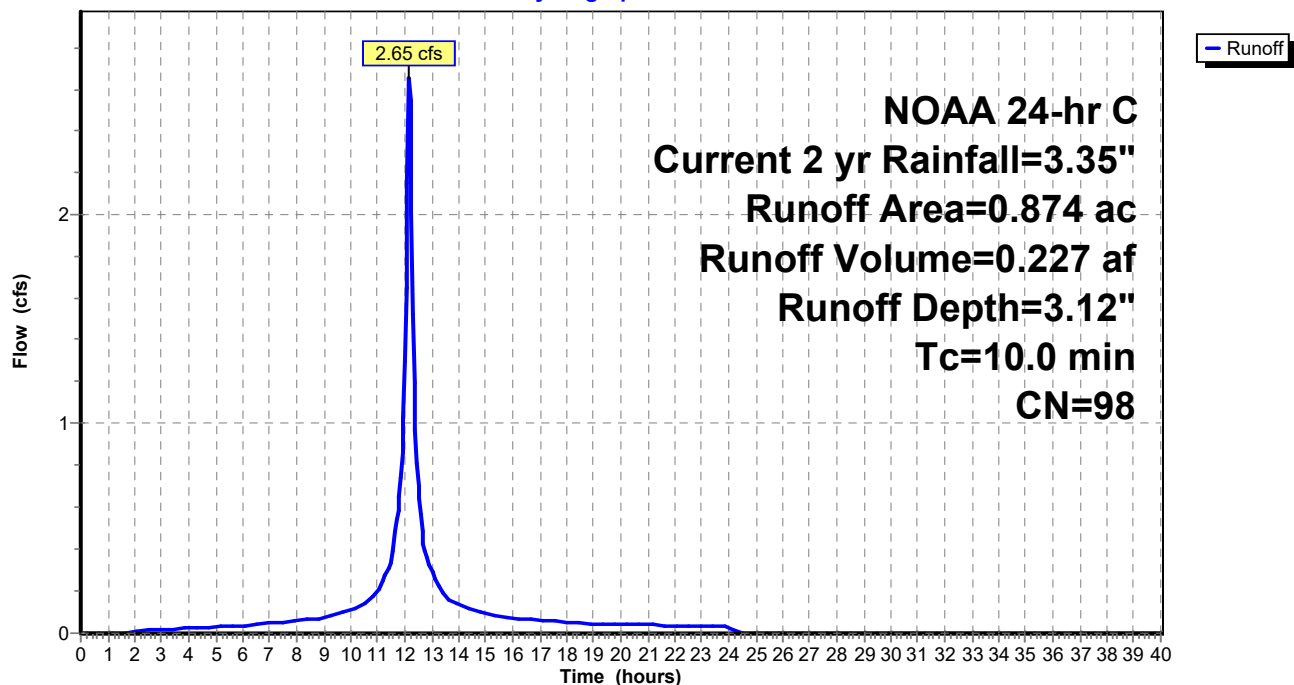
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 NOAA 24-hr C Current 2 yr Rainfall=3.35"

Area (ac)	CN	Description
* 0.388	98	Pavement, HSG C
* 0.450	98	Roof, HSG C
* 0.036	98	Concrete, HSC C
0.874	98	Weighted Average
0.874		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.0					Direct Entry,

Subcatchment 25I: PDA-25 (impervious)

Hydrograph



Summary for Subcatchment 25P: PDA-25 (pervious)

Runoff = 1.99 cfs @ 12.18 hrs, Volume= 0.154 af, Depth= 1.14"
 Routed to Pond B-25 : Basin #25

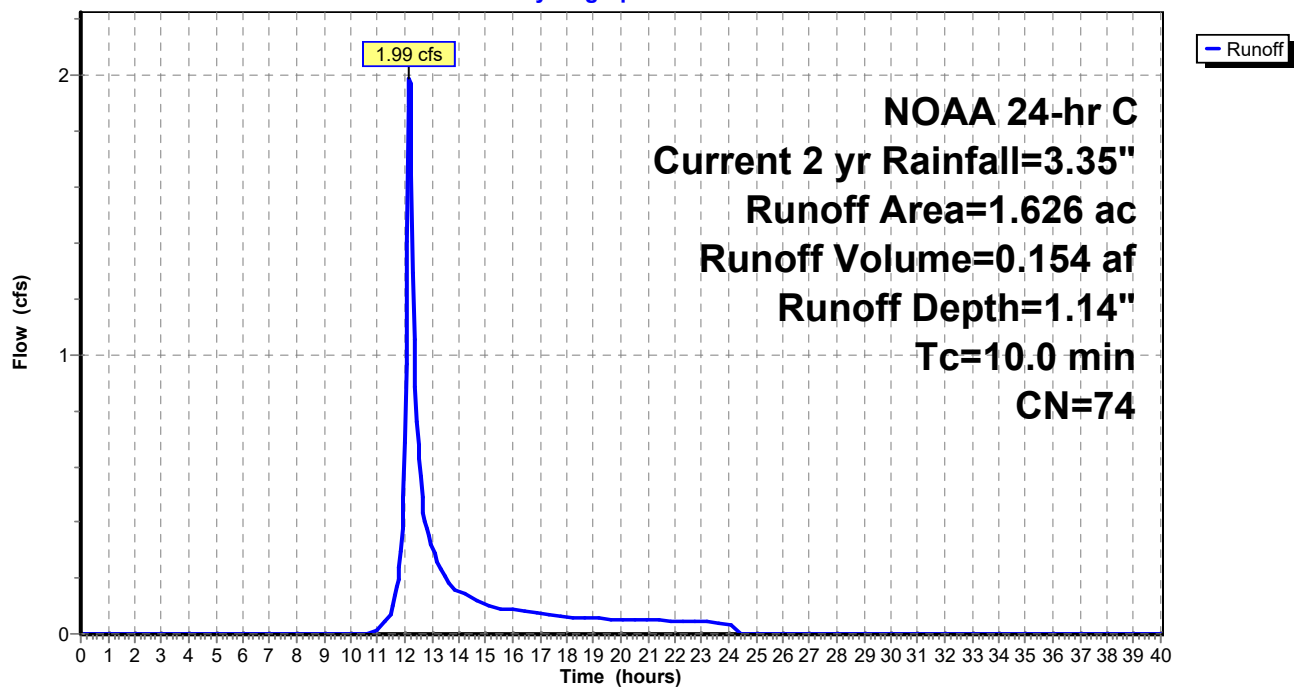
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 NOAA 24-hr C Current 2 yr Rainfall=3.35"

Area (ac)	CN	Description
1.626	74	>75% Grass cover, Good, HSG C
1.626		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.0					Direct Entry,

Subcatchment 25P: PDA-25 (pervious)

Hydrograph



Summary for Subcatchment 26I: PDA-26 (impervious)

Runoff = 2.86 cfs @ 12.17 hrs, Volume= 0.245 af, Depth= 3.12"
 Routed to Pond B-26 : Basin #26

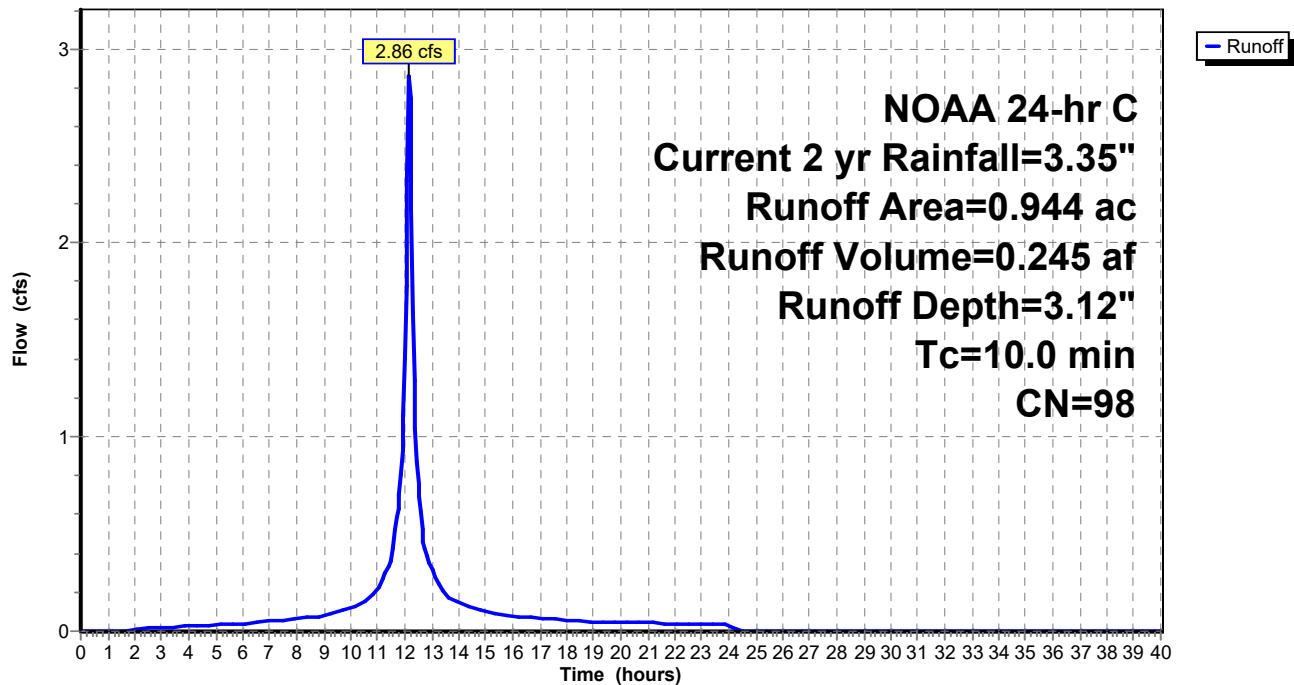
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 NOAA 24-hr C Current 2 yr Rainfall=3.35"

Area (ac)	CN	Description
* 0.000	98	Pavement, HSG C
* 0.944	98	Roof, HSG C
* 0.000	98	Concrete, HSC C
0.944	98	Weighted Average
0.944		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.0					Direct Entry,

Subcatchment 26I: PDA-26 (impervious)

Hydrograph



Summary for Subcatchment 26P: PDA-26 (pervious)

Runoff = 1.74 cfs @ 12.18 hrs, Volume= 0.135 af, Depth= 1.14"
 Routed to Pond B-26 : Basin #26

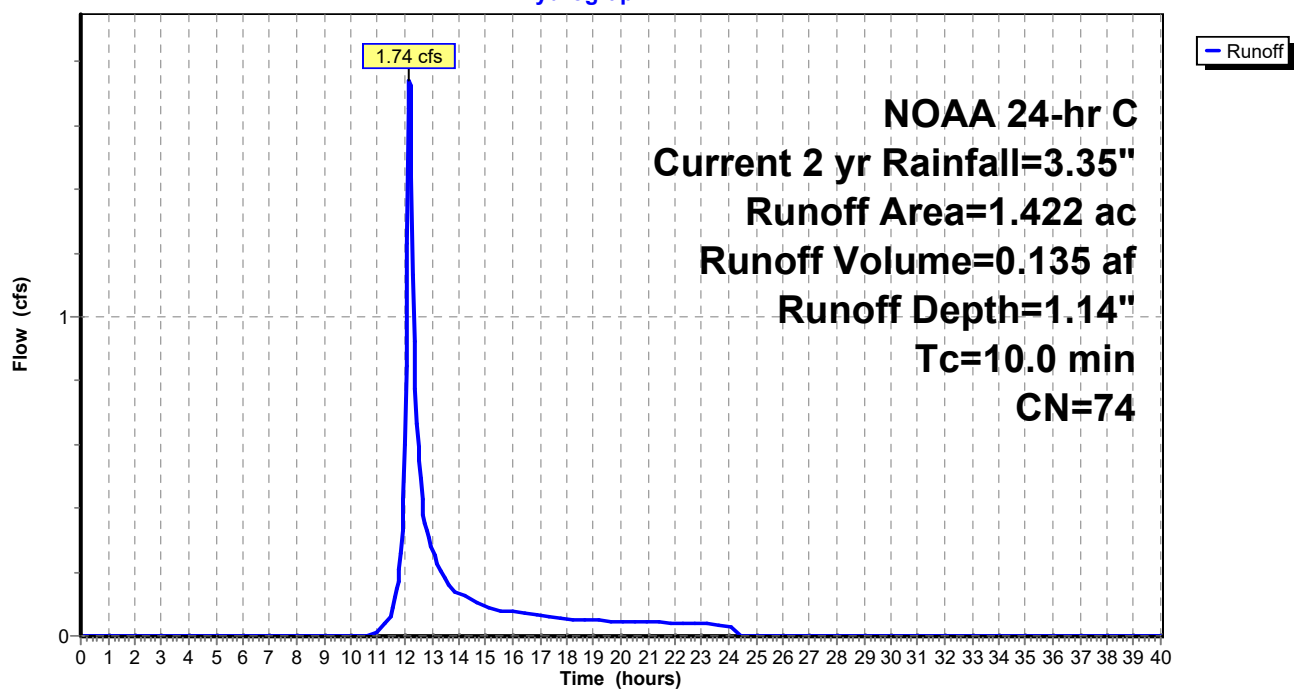
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 NOAA 24-hr C Current 2 yr Rainfall=3.35"

Area (ac)	CN	Description
1.422	74	>75% Grass cover, Good, HSG C
1.422		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.0					Direct Entry,

Subcatchment 26P: PDA-26 (pervious)

Hydrograph



Summary for Subcatchment 27I: PDA-27 (impervious)

Runoff = 2.72 cfs @ 12.17 hrs, Volume= 0.233 af, Depth= 3.12"
 Routed to Pond B-27 : Basin #27

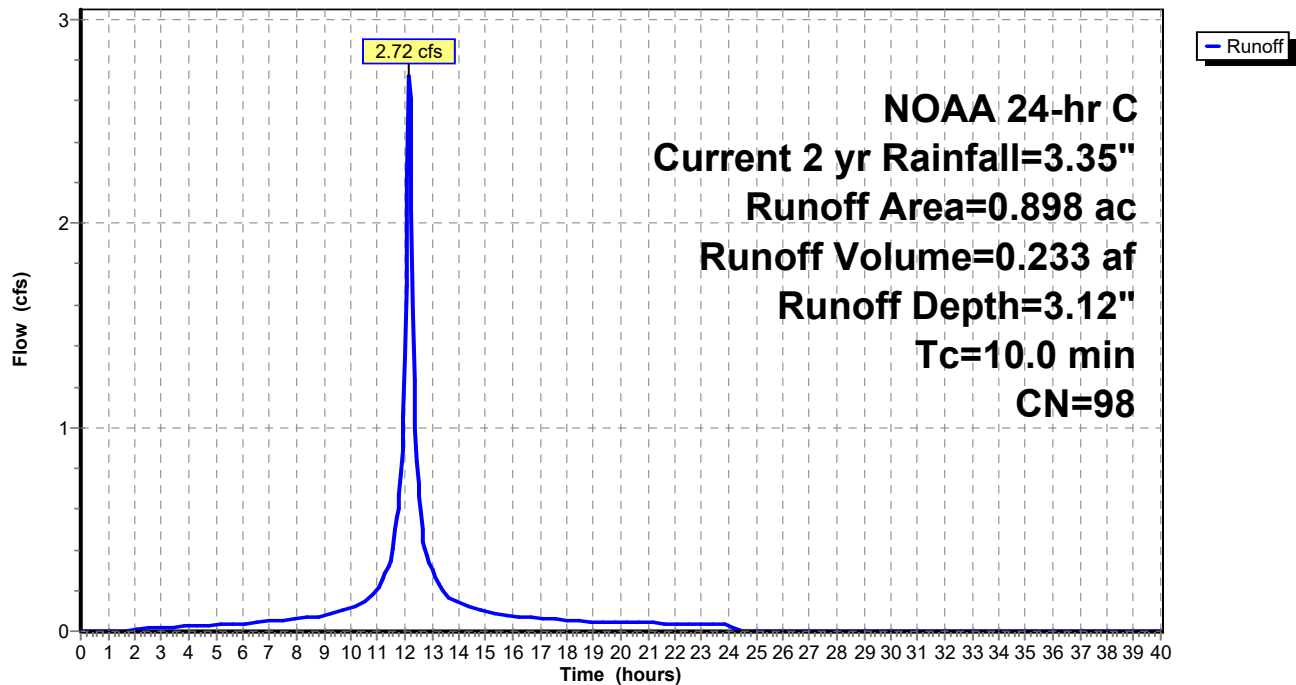
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 NOAA 24-hr C Current 2 yr Rainfall=3.35"

Area (ac)	CN	Description
* 0.233	98	Pavement, HSG C
* 0.643	98	Roof, HSG C
* 0.022	98	Concrete, HSC C
0.898	98	Weighted Average
0.898		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.0					Direct Entry,

Subcatchment 27I: PDA-27 (impervious)

Hydrograph



Summary for Subcatchment 27P: PDA-27 (pervious)

Runoff = 2.25 cfs @ 12.17 hrs, Volume= 0.170 af, Depth= 1.97"
 Routed to Pond B-27 : Basin #27

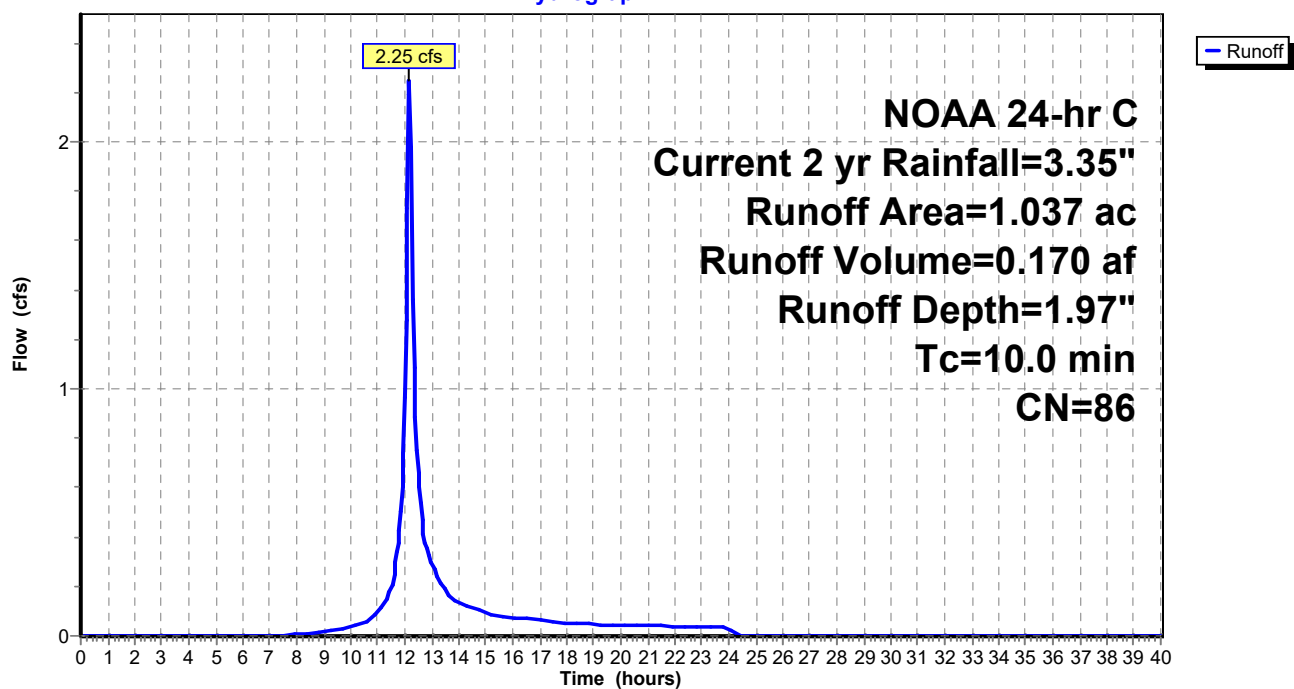
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 NOAA 24-hr C Current 2 yr Rainfall=3.35"

Area (ac)	CN	Description
1.037	86	<50% Grass cover, Poor, HSG C
1.037		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.0					Direct Entry,

Subcatchment 27P: PDA-27 (pervious)

Hydrograph



Summary for Subcatchment 28I: PDA-28 (impervious)

Runoff = 2.46 cfs @ 12.17 hrs, Volume= 0.211 af, Depth= 3.12"
 Routed to Pond B-28 : Basin #28

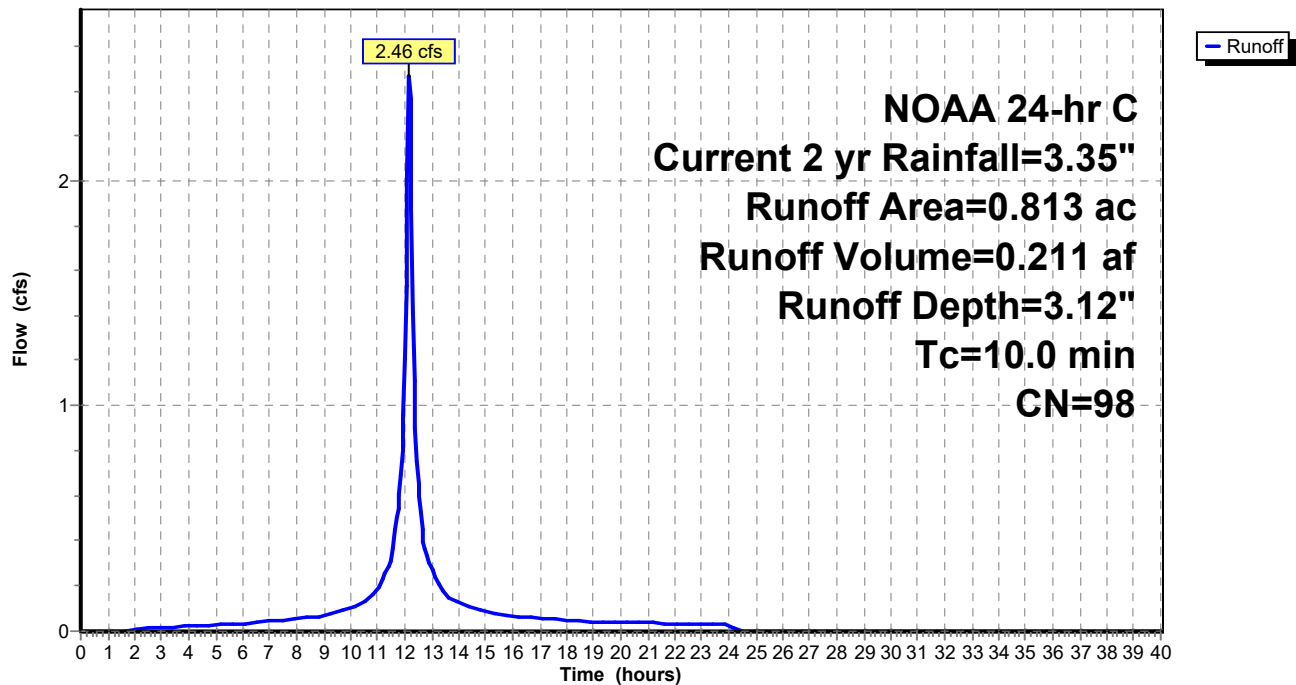
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 NOAA 24-hr C Current 2 yr Rainfall=3.35"

Area (ac)	CN	Description
* 0.235	98	Pavement, HSG C
* 0.541	98	Roof, HSG C
* 0.037	98	Concrete, HSC C
0.813	98	Weighted Average
0.813		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.0					Direct Entry,

Subcatchment 28I: PDA-28 (impervious)

Hydrograph



Summary for Subcatchment 28P: PDA-28 (pervious)

Runoff = 1.86 cfs @ 12.18 hrs, Volume= 0.144 af, Depth= 1.14"
 Routed to Pond B-28 : Basin #28

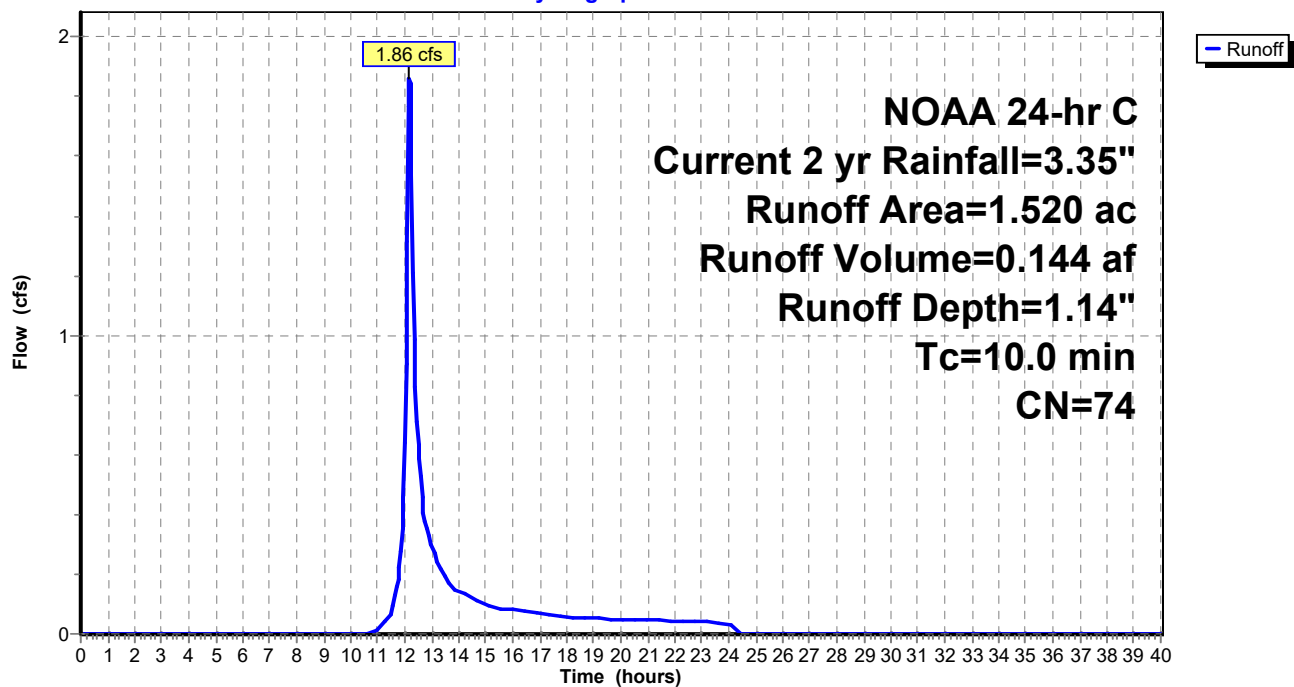
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 NOAA 24-hr C Current 2 yr Rainfall=3.35"

Area (ac)	CN	Description
1.520	74	>75% Grass cover, Good, HSG C
1.520		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.0					Direct Entry,

Subcatchment 28P: PDA-28 (pervious)

Hydrograph



Summary for Subcatchment UPDA-2: PDA-2 (undetained)

Runoff = 11.51 cfs @ 12.18 hrs, Volume= 0.892 af, Depth= 1.14"

Routed to Link PDA-2 : Proposed Drainage Area #2

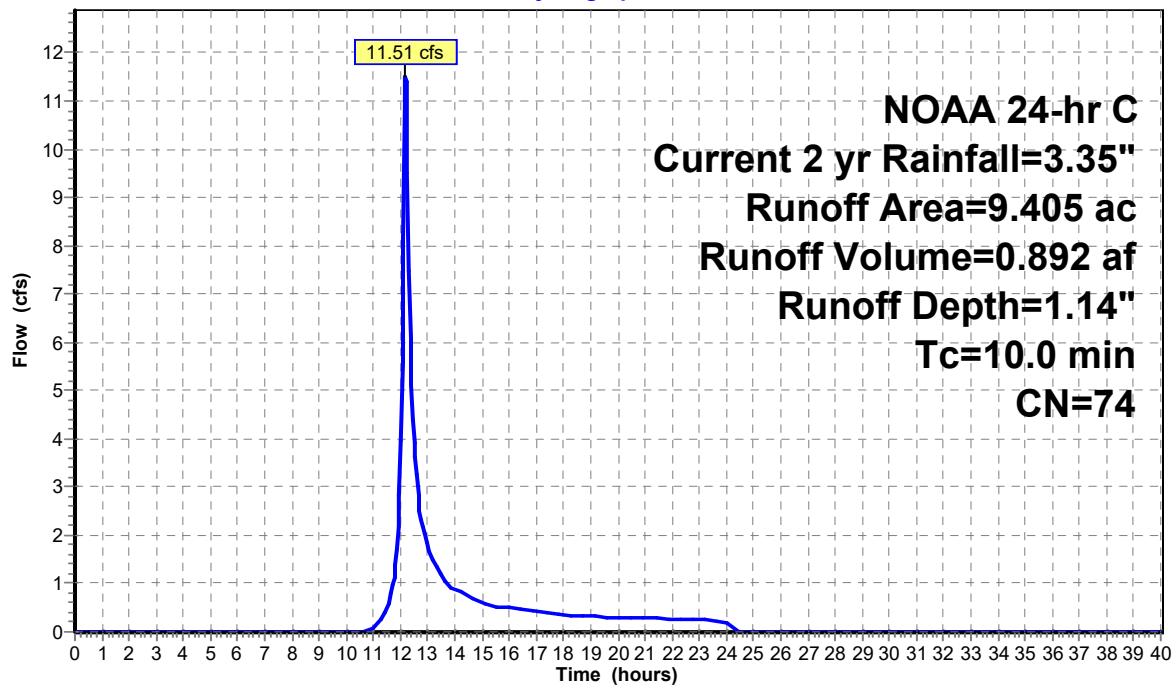
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 NOAA 24-hr C Current 2 yr Rainfall=3.35"

Area (ac)	CN	Description
9.405	74	>75% Grass cover, Good, HSG C
9.405		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.0					Direct Entry,

Subcatchment UPDA-2: PDA-2 (undetained)

Hydrograph



Summary for Pond B-18: Basin #18

Inflow Area = 1.410 ac, 31.91% Impervious, Inflow Depth = 1.77" for Current 2 yr event
 Inflow = 2.53 cfs @ 12.18 hrs, Volume= 0.208 af
 Outflow = 0.20 cfs @ 13.55 hrs, Volume= 0.163 af, Atten= 92%, Lag= 82.6 min
 Primary = 0.20 cfs @ 13.55 hrs, Volume= 0.163 af
 Routed to Link PDA-2 : Proposed Drainage Area #2

Routing by Stor-Ind method, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 Peak Elev= 188.87' @ 13.55 hrs Surf.Area= 2,548 sf Storage= 5,349 cf

Plug-Flow detention time= 358.3 min calculated for 0.163 af (78% of inflow)
 Center-of-Mass det. time= 270.7 min (1,077.5 - 806.8)

Volume	Invert	Avail.Storage	Storage Description
#1	185.65'	12,198 cf	Custom Stage Data (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
185.65	0	0	0
186.00	1,119	196	196
187.00	1,564	1,342	1,537
188.00	2,065	1,815	3,352
189.00	2,623	2,344	5,696
190.00	3,237	2,930	8,626
191.00	3,908	3,573	12,198

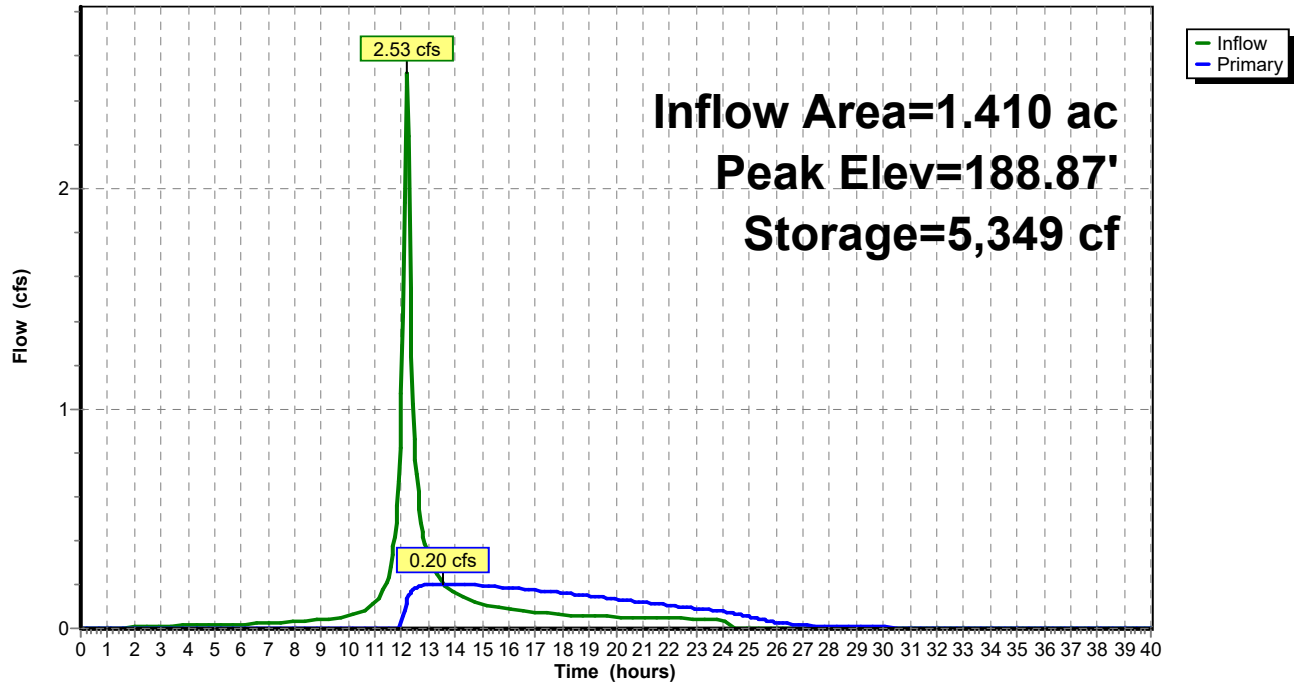
Device	Routing	Invert	Outlet Devices
#1	Primary	186.00'	15.0" Round Culvert L= 28.0' Ke= 0.500 Inlet / Outlet Invert= 186.00' / 185.86' S= 0.0050 ' / Cc= 0.900 n= 0.013, Flow Area= 1.23 sf
#2	Device 1	187.25'	2.5" Vert. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#3	Device 1	189.34'	4.0' long Sharp-Crested Rectangular Weir 2 End Contraction(s)
#4	Primary	190.95'	50.0' long + 3.0 ' / SideZ x 5.0' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 Coef. (English) 2.34 2.50 2.70 2.68 2.68 2.66 2.65 2.65 2.65 2.65 2.67 2.66 2.68 2.70 2.74 2.79 2.88

Primary OutFlow Max=0.20 cfs @ 13.55 hrs HW=188.87' (Free Discharge)

1=Culvert (Passes 0.20 cfs of 8.85 cfs potential flow)
 2=Orifice/Grate (Orifice Controls 0.20 cfs @ 5.92 fps)
 3=Sharp-Crested Rectangular Weir (Controls 0.00 cfs)
 4=Broad-Crested Rectangular Weir (Controls 0.00 cfs)

Pond B-18: Basin #18

Hydrograph



Stage-Discharge for Pond B-18: Basin #18

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
185.65	0.00	186.17	0.00	186.69	0.00	187.21	0.00
185.66	0.00	186.18	0.00	186.70	0.00	187.22	0.00
185.67	0.00	186.19	0.00	186.71	0.00	187.23	0.00
185.68	0.00	186.20	0.00	186.72	0.00	187.24	0.00
185.69	0.00	186.21	0.00	186.73	0.00	187.25	0.00
185.70	0.00	186.22	0.00	186.74	0.00	187.26	0.00
185.71	0.00	186.23	0.00	186.75	0.00	187.27	0.00
185.72	0.00	186.24	0.00	186.76	0.00	187.28	0.00
185.73	0.00	186.25	0.00	186.77	0.00	187.29	0.00
185.74	0.00	186.26	0.00	186.78	0.00	187.30	0.00
185.75	0.00	186.27	0.00	186.79	0.00	187.31	0.01
185.76	0.00	186.28	0.00	186.80	0.00	187.32	0.01
185.77	0.00	186.29	0.00	186.81	0.00	187.33	0.01
185.78	0.00	186.30	0.00	186.82	0.00	187.34	0.01
185.79	0.00	186.31	0.00	186.83	0.00	187.35	0.02
185.80	0.00	186.32	0.00	186.84	0.00	187.36	0.02
185.81	0.00	186.33	0.00	186.85	0.00	187.37	0.02
185.82	0.00	186.34	0.00	186.86	0.00	187.38	0.03
185.83	0.00	186.35	0.00	186.87	0.00	187.39	0.03
185.84	0.00	186.36	0.00	186.88	0.00	187.40	0.03
185.85	0.00	186.37	0.00	186.89	0.00	187.41	0.04
185.86	0.00	186.38	0.00	186.90	0.00	187.42	0.04
185.87	0.00	186.39	0.00	186.91	0.00	187.43	0.05
185.88	0.00	186.40	0.00	186.92	0.00	187.44	0.05
185.89	0.00	186.41	0.00	186.93	0.00	187.45	0.05
185.90	0.00	186.42	0.00	186.94	0.00	187.46	0.05
185.91	0.00	186.43	0.00	186.95	0.00	187.47	0.06
185.92	0.00	186.44	0.00	186.96	0.00	187.48	0.06
185.93	0.00	186.45	0.00	186.97	0.00	187.49	0.06
185.94	0.00	186.46	0.00	186.98	0.00	187.50	0.06
185.95	0.00	186.47	0.00	186.99	0.00	187.51	0.06
185.96	0.00	186.48	0.00	187.00	0.00	187.52	0.07
185.97	0.00	186.49	0.00	187.01	0.00	187.53	0.07
185.98	0.00	186.50	0.00	187.02	0.00	187.54	0.07
185.99	0.00	186.51	0.00	187.03	0.00	187.55	0.07
186.00	0.00	186.52	0.00	187.04	0.00	187.56	0.07
186.01	0.00	186.53	0.00	187.05	0.00	187.57	0.08
186.02	0.00	186.54	0.00	187.06	0.00	187.58	0.08
186.03	0.00	186.55	0.00	187.07	0.00	187.59	0.08
186.04	0.00	186.56	0.00	187.08	0.00	187.60	0.08
186.05	0.00	186.57	0.00	187.09	0.00	187.61	0.08
186.06	0.00	186.58	0.00	187.10	0.00	187.62	0.08
186.07	0.00	186.59	0.00	187.11	0.00	187.63	0.09
186.08	0.00	186.60	0.00	187.12	0.00	187.64	0.09
186.09	0.00	186.61	0.00	187.13	0.00	187.65	0.09
186.10	0.00	186.62	0.00	187.14	0.00	187.66	0.09
186.11	0.00	186.63	0.00	187.15	0.00	187.67	0.09
186.12	0.00	186.64	0.00	187.16	0.00	187.68	0.09
186.13	0.00	186.65	0.00	187.17	0.00	187.69	0.10
186.14	0.00	186.66	0.00	187.18	0.00	187.70	0.10
186.15	0.00	186.67	0.00	187.19	0.00	187.71	0.10
186.16	0.00	186.68	0.00	187.20	0.00	187.72	0.10

Stage-Discharge for Pond B-18: Basin #18 (continued)

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
187.73	0.10	188.25	0.16	188.77	0.20	189.29	0.23
187.74	0.10	188.26	0.16	188.78	0.20	189.30	0.23
187.75	0.10	188.27	0.16	188.79	0.20	189.31	0.23
187.76	0.10	188.28	0.16	188.80	0.20	189.32	0.23
187.77	0.11	188.29	0.16	188.81	0.20	189.33	0.23
187.78	0.11	188.30	0.16	188.82	0.20	189.34	0.23
187.79	0.11	188.31	0.16	188.83	0.20	189.35	0.24
187.80	0.11	188.32	0.16	188.84	0.20	189.36	0.27
187.81	0.11	188.33	0.16	188.85	0.20	189.37	0.30
187.82	0.11	188.34	0.16	188.86	0.20	189.38	0.34
187.83	0.11	188.35	0.16	188.87	0.20	189.39	0.38
187.84	0.11	188.36	0.16	188.88	0.20	189.40	0.43
187.85	0.12	188.37	0.17	188.89	0.20	189.41	0.48
187.86	0.12	188.38	0.17	188.90	0.20	189.42	0.53
187.87	0.12	188.39	0.17	188.91	0.20	189.43	0.59
187.88	0.12	188.40	0.17	188.92	0.21	189.44	0.65
187.89	0.12	188.41	0.17	188.93	0.21	189.45	0.71
187.90	0.12	188.42	0.17	188.94	0.21	189.46	0.78
187.91	0.12	188.43	0.17	188.95	0.21	189.47	0.85
187.92	0.12	188.44	0.17	188.96	0.21	189.48	0.92
187.93	0.12	188.45	0.17	188.97	0.21	189.49	0.99
187.94	0.13	188.46	0.17	188.98	0.21	189.50	1.07
187.95	0.13	188.47	0.17	188.99	0.21	189.51	1.15
187.96	0.13	188.48	0.17	189.00	0.21	189.52	1.23
187.97	0.13	188.49	0.17	189.01	0.21	189.53	1.32
187.98	0.13	188.50	0.18	189.02	0.21	189.54	1.40
187.99	0.13	188.51	0.18	189.03	0.21	189.55	1.49
188.00	0.13	188.52	0.18	189.04	0.21	189.56	1.58
188.01	0.13	188.53	0.18	189.05	0.21	189.57	1.67
188.02	0.13	188.54	0.18	189.06	0.21	189.58	1.76
188.03	0.13	188.55	0.18	189.07	0.22	189.59	1.86
188.04	0.14	188.56	0.18	189.08	0.22	189.60	1.96
188.05	0.14	188.57	0.18	189.09	0.22	189.61	2.06
188.06	0.14	188.58	0.18	189.10	0.22	189.62	2.16
188.07	0.14	188.59	0.18	189.11	0.22	189.63	2.26
188.08	0.14	188.60	0.18	189.12	0.22	189.64	2.37
188.09	0.14	188.61	0.18	189.13	0.22	189.65	2.47
188.10	0.14	188.62	0.18	189.14	0.22	189.66	2.58
188.11	0.14	188.63	0.19	189.15	0.22	189.67	2.69
188.12	0.14	188.64	0.19	189.16	0.22	189.68	2.80
188.13	0.14	188.65	0.19	189.17	0.22	189.69	2.91
188.14	0.15	188.66	0.19	189.18	0.22	189.70	3.03
188.15	0.15	188.67	0.19	189.19	0.22	189.71	3.14
188.16	0.15	188.68	0.19	189.20	0.22	189.72	3.26
188.17	0.15	188.69	0.19	189.21	0.22	189.73	3.38
188.18	0.15	188.70	0.19	189.22	0.22	189.74	3.50
188.19	0.15	188.71	0.19	189.23	0.22	189.75	3.62
188.20	0.15	188.72	0.19	189.24	0.23	189.76	3.74
188.21	0.15	188.73	0.19	189.25	0.23	189.77	3.86
188.22	0.15	188.74	0.19	189.26	0.23	189.78	3.99
188.23	0.15	188.75	0.19	189.27	0.23	189.79	4.12
188.24	0.15	188.76	0.19	189.28	0.23	189.80	4.24

Stage-Discharge for Pond B-18: Basin #18 (continued)

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
189.81	4.37	190.33	11.37	190.85	12.15
189.82	4.50	190.34	11.39	190.86	12.16
189.83	4.63	190.35	11.40	190.87	12.17
189.84	4.77	190.36	11.42	190.88	12.19
189.85	4.90	190.37	11.43	190.89	12.20
189.86	5.04	190.38	11.45	190.90	12.22
189.87	5.17	190.39	11.47	190.91	12.23
189.88	5.31	190.40	11.48	190.92	12.25
189.89	5.45	190.41	11.50	190.93	12.26
189.90	5.59	190.42	11.51	190.94	12.27
189.91	5.73	190.43	11.53	190.95	12.29
189.92	5.87	190.44	11.54	190.96	12.42
189.93	6.02	190.45	11.56	190.97	12.65
189.94	6.16	190.46	11.57	190.98	12.94
189.95	6.31	190.47	11.59	190.99	13.28
189.96	6.45	190.48	11.60	191.00	13.67
189.97	6.60	190.49	11.62		
189.98	6.75	190.50	11.63		
189.99	6.90	190.51	11.65		
190.00	7.05	190.52	11.66		
190.01	7.20	190.53	11.68		
190.02	7.35	190.54	11.69		
190.03	7.51	190.55	11.71		
190.04	7.66	190.56	11.72		
190.05	7.82	190.57	11.74		
190.06	7.97	190.58	11.75		
190.07	8.13	190.59	11.77		
190.08	8.29	190.60	11.78		
190.09	8.45	190.61	11.80		
190.10	8.61	190.62	11.81		
190.11	8.77	190.63	11.83		
190.12	8.93	190.64	11.84		
190.13	9.10	190.65	11.85		
190.14	9.26	190.66	11.87		
190.15	9.42	190.67	11.88		
190.16	9.59	190.68	11.90		
190.17	9.76	190.69	11.91		
190.18	9.92	190.70	11.93		
190.19	10.09	190.71	11.94		
190.20	10.26	190.72	11.96		
190.21	10.43	190.73	11.97		
190.22	10.60	190.74	11.99		
190.23	10.77	190.75	12.00		
190.24	10.94	190.76	12.02		
190.25	11.12	190.77	12.03		
190.26	11.27	190.78	12.04		
190.27	11.28	190.79	12.06		
190.28	11.30	190.80	12.07		
190.29	11.31	190.81	12.09		
190.30	11.33	190.82	12.10		
190.31	11.34	190.83	12.12		
190.32	11.36	190.84	12.13		

Stage-Area-Storage for Pond B-18: Basin #18

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
185.65	0	0	186.17	1,195	392
185.66	32	0	186.18	1,199	404
185.67	64	1	186.19	1,204	416
185.68	96	1	186.20	1,208	429
185.69	128	3	186.21	1,212	441
185.70	160	4	186.22	1,217	453
185.71	192	6	186.23	1,221	465
185.72	224	8	186.24	1,226	477
185.73	256	10	186.25	1,230	489
185.74	288	13	186.26	1,235	502
185.75	320	16	186.27	1,239	514
185.76	352	19	186.28	1,244	527
185.77	384	23	186.29	1,248	539
185.78	416	27	186.30	1,253	552
185.79	448	31	186.31	1,257	564
185.80	480	36	186.32	1,261	577
185.81	512	41	186.33	1,266	589
185.82	544	46	186.34	1,270	602
185.83	575	52	186.35	1,275	615
185.84	607	58	186.36	1,279	628
185.85	639	64	186.37	1,284	640
185.86	671	70	186.38	1,288	653
185.87	703	77	186.39	1,293	666
185.88	735	85	186.40	1,297	679
185.89	767	92	186.41	1,301	692
185.90	799	100	186.42	1,306	705
185.91	831	108	186.43	1,310	718
185.92	863	117	186.44	1,315	731
185.93	895	125	186.45	1,319	744
185.94	927	134	186.46	1,324	758
185.95	959	144	186.47	1,328	771
185.96	991	154	186.48	1,333	784
185.97	1,023	164	186.49	1,337	798
185.98	1,055	174	186.50	1,342	811
185.99	1,087	185	186.51	1,346	824
186.00	1,119	196	186.52	1,350	838
186.01	1,123	207	186.53	1,355	851
186.02	1,128	218	186.54	1,359	865
186.03	1,132	230	186.55	1,364	879
186.04	1,137	241	186.56	1,368	892
186.05	1,141	252	186.57	1,373	906
186.06	1,146	264	186.58	1,377	920
186.07	1,150	275	186.59	1,382	933
186.08	1,155	287	186.60	1,386	947
186.09	1,159	298	186.61	1,390	961
186.10	1,163	310	186.62	1,395	975
186.11	1,168	322	186.63	1,399	989
186.12	1,172	333	186.64	1,404	1,003
186.13	1,177	345	186.65	1,408	1,017
186.14	1,181	357	186.66	1,413	1,031
186.15	1,186	369	186.67	1,417	1,045
186.16	1,190	381	186.68	1,422	1,060

Stage-Area-Storage for Pond B-18: Basin #18 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
186.69	1,426	1,074	187.21	1,669	1,877
186.70	1,431	1,088	187.22	1,674	1,894
186.71	1,435	1,102	187.23	1,679	1,910
186.72	1,439	1,117	187.24	1,684	1,927
186.73	1,444	1,131	187.25	1,689	1,944
186.74	1,448	1,146	187.26	1,694	1,961
186.75	1,453	1,160	187.27	1,699	1,978
186.76	1,457	1,175	187.28	1,704	1,995
186.77	1,462	1,189	187.29	1,709	2,012
186.78	1,466	1,204	187.30	1,714	2,029
186.79	1,471	1,219	187.31	1,719	2,046
186.80	1,475	1,233	187.32	1,724	2,063
186.81	1,479	1,248	187.33	1,729	2,081
186.82	1,484	1,263	187.34	1,734	2,098
186.83	1,488	1,278	187.35	1,739	2,115
186.84	1,493	1,293	187.36	1,744	2,133
186.85	1,497	1,308	187.37	1,749	2,150
186.86	1,502	1,323	187.38	1,754	2,168
186.87	1,506	1,338	187.39	1,759	2,185
186.88	1,511	1,353	187.40	1,764	2,203
186.89	1,515	1,368	187.41	1,769	2,221
186.90	1,520	1,383	187.42	1,774	2,238
186.91	1,524	1,398	187.43	1,779	2,256
186.92	1,528	1,414	187.44	1,784	2,274
186.93	1,533	1,429	187.45	1,789	2,292
186.94	1,537	1,444	187.46	1,794	2,310
186.95	1,542	1,460	187.47	1,799	2,328
186.96	1,546	1,475	187.48	1,804	2,346
186.97	1,551	1,491	187.49	1,809	2,364
186.98	1,555	1,506	187.50	1,815	2,382
186.99	1,560	1,522	187.51	1,820	2,400
187.00	1,564	1,537	187.52	1,825	2,418
187.01	1,569	1,553	187.53	1,830	2,437
187.02	1,574	1,569	187.54	1,835	2,455
187.03	1,579	1,584	187.55	1,840	2,473
187.04	1,584	1,600	187.56	1,845	2,492
187.05	1,589	1,616	187.57	1,850	2,510
187.06	1,594	1,632	187.58	1,855	2,529
187.07	1,599	1,648	187.59	1,860	2,547
187.08	1,604	1,664	187.60	1,865	2,566
187.09	1,609	1,680	187.61	1,870	2,585
187.10	1,614	1,696	187.62	1,875	2,603
187.11	1,619	1,712	187.63	1,880	2,622
187.12	1,624	1,729	187.64	1,885	2,641
187.13	1,629	1,745	187.65	1,890	2,660
187.14	1,634	1,761	187.66	1,895	2,679
187.15	1,639	1,778	187.67	1,900	2,698
187.16	1,644	1,794	187.68	1,905	2,717
187.17	1,649	1,810	187.69	1,910	2,736
187.18	1,654	1,827	187.70	1,915	2,755
187.19	1,659	1,844	187.71	1,920	2,774
187.20	1,664	1,860	187.72	1,925	2,793

Stage-Area-Storage for Pond B-18: Basin #18 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
187.73	1,930	2,813	188.25	2,205	3,886
187.74	1,935	2,832	188.26	2,210	3,908
187.75	1,940	2,851	188.27	2,216	3,930
187.76	1,945	2,871	188.28	2,221	3,952
187.77	1,950	2,890	188.29	2,227	3,974
187.78	1,955	2,910	188.30	2,232	3,996
187.79	1,960	2,929	188.31	2,238	4,019
187.80	1,965	2,949	188.32	2,244	4,041
187.81	1,970	2,969	188.33	2,249	4,064
187.82	1,975	2,988	188.34	2,255	4,086
187.83	1,980	3,008	188.35	2,260	4,109
187.84	1,985	3,028	188.36	2,266	4,131
187.85	1,990	3,048	188.37	2,271	4,154
187.86	1,995	3,068	188.38	2,277	4,177
187.87	2,000	3,088	188.39	2,283	4,200
187.88	2,005	3,108	188.40	2,288	4,222
187.89	2,010	3,128	188.41	2,294	4,245
187.90	2,015	3,148	188.42	2,299	4,268
187.91	2,020	3,168	188.43	2,305	4,291
187.92	2,025	3,188	188.44	2,311	4,314
187.93	2,030	3,209	188.45	2,316	4,338
187.94	2,035	3,229	188.46	2,322	4,361
187.95	2,040	3,249	188.47	2,327	4,384
187.96	2,045	3,270	188.48	2,333	4,407
187.97	2,050	3,290	188.49	2,338	4,431
187.98	2,055	3,311	188.50	2,344	4,454
187.99	2,060	3,331	188.51	2,350	4,478
188.00	2,065	3,352	188.52	2,355	4,501
188.01	2,071	3,373	188.53	2,361	4,525
188.02	2,076	3,393	188.54	2,366	4,548
188.03	2,082	3,414	188.55	2,372	4,572
188.04	2,087	3,435	188.56	2,377	4,596
188.05	2,093	3,456	188.57	2,383	4,620
188.06	2,098	3,477	188.58	2,389	4,643
188.07	2,104	3,498	188.59	2,394	4,667
188.08	2,110	3,519	188.60	2,400	4,691
188.09	2,115	3,540	188.61	2,405	4,715
188.10	2,121	3,561	188.62	2,411	4,739
188.11	2,126	3,582	188.63	2,417	4,764
188.12	2,132	3,604	188.64	2,422	4,788
188.13	2,138	3,625	188.65	2,428	4,812
188.14	2,143	3,646	188.66	2,433	4,836
188.15	2,149	3,668	188.67	2,439	4,861
188.16	2,154	3,689	188.68	2,444	4,885
188.17	2,160	3,711	188.69	2,450	4,910
188.18	2,165	3,733	188.70	2,456	4,934
188.19	2,171	3,754	188.71	2,461	4,959
188.20	2,177	3,776	188.72	2,467	4,983
188.21	2,182	3,798	188.73	2,472	5,008
188.22	2,188	3,820	188.74	2,478	5,033
188.23	2,193	3,842	188.75	2,484	5,058
188.24	2,199	3,863	188.76	2,489	5,082

Stage-Area-Storage for Pond B-18: Basin #18 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
188.77	2,495	5,107	189.29	2,801	6,482
188.78	2,500	5,132	189.30	2,807	6,510
188.79	2,506	5,157	189.31	2,813	6,538
188.80	2,511	5,182	189.32	2,819	6,567
188.81	2,517	5,208	189.33	2,826	6,595
188.82	2,523	5,233	189.34	2,832	6,623
188.83	2,528	5,258	189.35	2,838	6,651
188.84	2,534	5,283	189.36	2,844	6,680
188.85	2,539	5,309	189.37	2,850	6,708
188.86	2,545	5,334	189.38	2,856	6,737
188.87	2,550	5,360	189.39	2,862	6,765
188.88	2,556	5,385	189.40	2,869	6,794
188.89	2,562	5,411	189.41	2,875	6,823
188.90	2,567	5,436	189.42	2,881	6,852
188.91	2,573	5,462	189.43	2,887	6,880
188.92	2,578	5,488	189.44	2,893	6,909
188.93	2,584	5,514	189.45	2,899	6,938
188.94	2,590	5,539	189.46	2,905	6,967
188.95	2,595	5,565	189.47	2,912	6,996
188.96	2,601	5,591	189.48	2,918	7,026
188.97	2,606	5,617	189.49	2,924	7,055
188.98	2,612	5,643	189.50	2,930	7,084
188.99	2,617	5,670	189.51	2,936	7,113
189.00	2,623	5,696	189.52	2,942	7,143
189.01	2,629	5,722	189.53	2,948	7,172
189.02	2,635	5,748	189.54	2,955	7,202
189.03	2,641	5,775	189.55	2,961	7,231
189.04	2,648	5,801	189.56	2,967	7,261
189.05	2,654	5,828	189.57	2,973	7,291
189.06	2,660	5,854	189.58	2,979	7,320
189.07	2,666	5,881	189.59	2,985	7,350
189.08	2,672	5,908	189.60	2,991	7,380
189.09	2,678	5,934	189.61	2,998	7,410
189.10	2,684	5,961	189.62	3,004	7,440
189.11	2,691	5,988	189.63	3,010	7,470
189.12	2,697	6,015	189.64	3,016	7,500
189.13	2,703	6,042	189.65	3,022	7,530
189.14	2,709	6,069	189.66	3,028	7,561
189.15	2,715	6,096	189.67	3,034	7,591
189.16	2,721	6,123	189.68	3,041	7,621
189.17	2,727	6,151	189.69	3,047	7,652
189.18	2,734	6,178	189.70	3,053	7,682
189.19	2,740	6,205	189.71	3,059	7,713
189.20	2,746	6,233	189.72	3,065	7,744
189.21	2,752	6,260	189.73	3,071	7,774
189.22	2,758	6,288	189.74	3,077	7,805
189.23	2,764	6,315	189.75	3,084	7,836
189.24	2,770	6,343	189.76	3,090	7,867
189.25	2,777	6,371	189.77	3,096	7,898
189.26	2,783	6,399	189.78	3,102	7,929
189.27	2,789	6,426	189.79	3,108	7,960
189.28	2,795	6,454	189.80	3,114	7,991

Stage-Area-Storage for Pond B-18: Basin #18 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
189.81	3,120	8,022	190.33	3,458	9,731
189.82	3,126	8,053	190.34	3,465	9,765
189.83	3,133	8,084	190.35	3,472	9,800
189.84	3,139	8,116	190.36	3,479	9,835
189.85	3,145	8,147	190.37	3,485	9,869
189.86	3,151	8,179	190.38	3,492	9,904
189.87	3,157	8,210	190.39	3,499	9,939
189.88	3,163	8,242	190.40	3,505	9,974
189.89	3,169	8,273	190.41	3,512	10,009
189.90	3,176	8,305	190.42	3,519	10,045
189.91	3,182	8,337	190.43	3,526	10,080
189.92	3,188	8,369	190.44	3,532	10,115
189.93	3,194	8,401	190.45	3,539	10,150
189.94	3,200	8,433	190.46	3,546	10,186
189.95	3,206	8,465	190.47	3,552	10,221
189.96	3,212	8,497	190.48	3,559	10,257
189.97	3,219	8,529	190.49	3,566	10,293
189.98	3,225	8,561	190.50	3,573	10,328
189.99	3,231	8,593	190.51	3,579	10,364
190.00	3,237	8,626	190.52	3,586	10,400
190.01	3,244	8,658	190.53	3,593	10,436
190.02	3,250	8,691	190.54	3,599	10,472
190.03	3,257	8,723	190.55	3,606	10,508
190.04	3,264	8,756	190.56	3,613	10,544
190.05	3,271	8,789	190.57	3,619	10,580
190.06	3,277	8,821	190.58	3,626	10,616
190.07	3,284	8,854	190.59	3,633	10,652
190.08	3,291	8,887	190.60	3,640	10,689
190.09	3,297	8,920	190.61	3,646	10,725
190.10	3,304	8,953	190.62	3,653	10,762
190.11	3,311	8,986	190.63	3,660	10,798
190.12	3,318	9,019	190.64	3,666	10,835
190.13	3,324	9,052	190.65	3,673	10,872
190.14	3,331	9,086	190.66	3,680	10,908
190.15	3,338	9,119	190.67	3,687	10,945
190.16	3,344	9,152	190.68	3,693	10,982
190.17	3,351	9,186	190.69	3,700	11,019
190.18	3,358	9,219	190.70	3,707	11,056
190.19	3,364	9,253	190.71	3,713	11,093
190.20	3,371	9,287	190.72	3,720	11,130
190.21	3,378	9,320	190.73	3,727	11,168
190.22	3,385	9,354	190.74	3,734	11,205
190.23	3,391	9,388	190.75	3,740	11,242
190.24	3,398	9,422	190.76	3,747	11,280
190.25	3,405	9,456	190.77	3,754	11,317
190.26	3,411	9,490	190.78	3,760	11,355
190.27	3,418	9,524	190.79	3,767	11,392
190.28	3,425	9,558	190.80	3,774	11,430
190.29	3,432	9,593	190.81	3,781	11,468
190.30	3,438	9,627	190.82	3,787	11,506
190.31	3,445	9,662	190.83	3,794	11,544
190.32	3,452	9,696	190.84	3,801	11,582

Stage-Area-Storage for Pond B-18: Basin #18 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
190.85	3,807	11,620
190.86	3,814	11,658
190.87	3,821	11,696
190.88	3,827	11,734
190.89	3,834	11,773
190.90	3,841	11,811
190.91	3,848	11,849
190.92	3,854	11,888
190.93	3,861	11,926
190.94	3,868	11,965
190.95	3,874	12,004
190.96	3,881	12,043
190.97	3,888	12,081
190.98	3,895	12,120
190.99	3,901	12,159
191.00	3,908	12,198

Summary for Pond B-19: Basin #19

Inflow Area = 1.715 ac, 34.81% Impervious, Inflow Depth = 1.83" for Current 2 yr event
 Inflow = 3.16 cfs @ 12.18 hrs, Volume= 0.261 af
 Outflow = 0.20 cfs @ 14.00 hrs, Volume= 0.201 af, Atten= 94%, Lag= 109.5 min
 Primary = 0.20 cfs @ 14.00 hrs, Volume= 0.201 af
 Routed to Link PDA-2 : Proposed Drainage Area #2

Routing by Stor-Ind method, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 Peak Elev= 197.53' @ 14.00 hrs Surf.Area= 3,486 sf Storage= 7,107 cf

Plug-Flow detention time= 449.5 min calculated for 0.201 af (77% of inflow)
 Center-of-Mass det. time= 359.4 min (1,162.8 - 803.4)

Volume	Invert	Avail.Storage	Storage Description
#1	194.65'	12,982 cf	Custom Stage Data (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
194.65	0	0	0
195.00	1,916	335	335
196.00	2,490	2,203	2,538
197.00	3,119	2,805	5,343
198.00	3,806	3,463	8,805
199.00	4,548	4,177	12,982

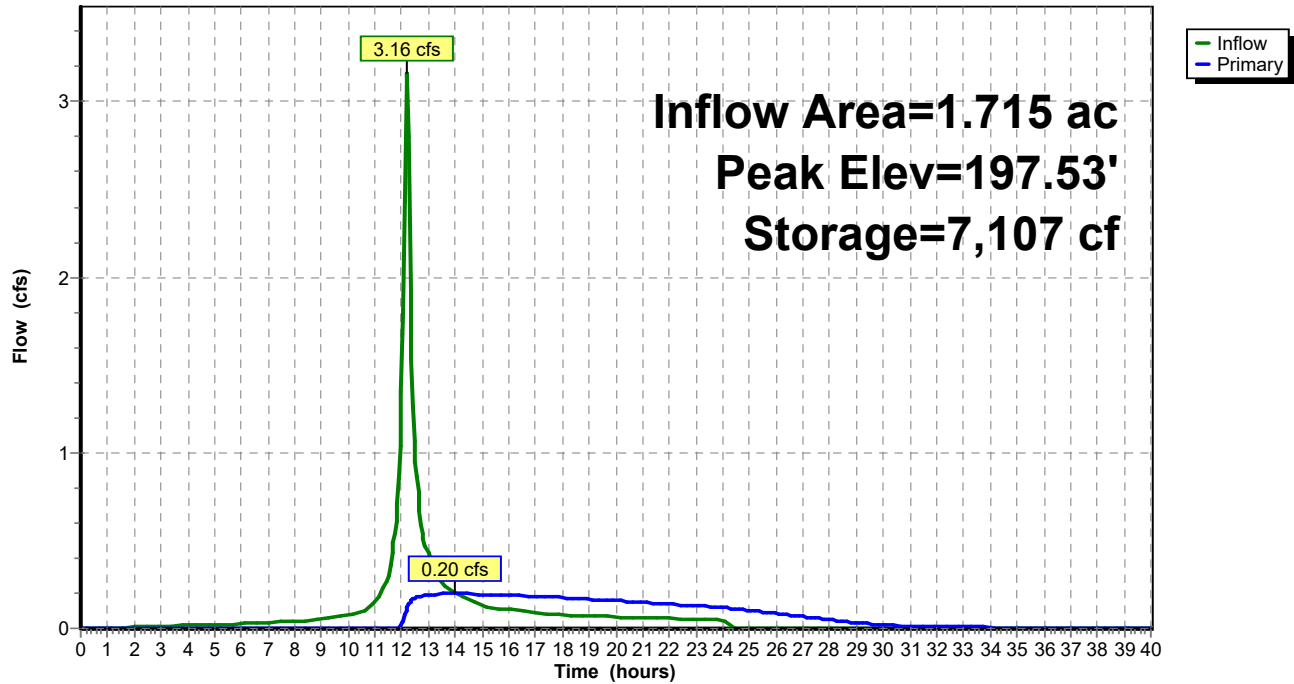
Device	Routing	Invert	Outlet Devices
#1	Primary	194.30'	18.0" Round Culvert L= 136.0' Ke= 0.500 Inlet / Outlet Invert= 194.30' / 185.86' S= 0.0621 ' / Cc= 0.900 n= 0.013, Flow Area= 1.77 sf
#2	Device 1	196.00'	2.5" Vert. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#3	Device 1	197.75'	4.0' long Sharp-Crested Rectangular Weir 2 End Contraction(s)
#4	Primary	198.95'	50.0' long + 3.0 ' / SideZ x 5.0' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 Coef. (English) 2.34 2.50 2.70 2.68 2.68 2.66 2.65 2.65 2.65 2.65 2.67 2.66 2.68 2.70 2.74 2.79 2.88

Primary OutFlow Max=0.20 cfs @ 14.00 hrs HW=197.53' (Free Discharge)

1=Culvert (Passes 0.20 cfs of 13.41 cfs potential flow)
 2=Orifice/Grate (Orifice Controls 0.20 cfs @ 5.76 fps)
 3=Sharp-Crested Rectangular Weir (Controls 0.00 cfs)
 4=Broad-Crested Rectangular Weir (Controls 0.00 cfs)

Pond B-19: Basin #19

Hydrograph



Stage-Discharge for Pond B-19: Basin #19

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
194.65	0.00	195.17	0.00	195.69	0.00	196.21	0.05
194.66	0.00	195.18	0.00	195.70	0.00	196.22	0.06
194.67	0.00	195.19	0.00	195.71	0.00	196.23	0.06
194.68	0.00	195.20	0.00	195.72	0.00	196.24	0.06
194.69	0.00	195.21	0.00	195.73	0.00	196.25	0.06
194.70	0.00	195.22	0.00	195.74	0.00	196.26	0.06
194.71	0.00	195.23	0.00	195.75	0.00	196.27	0.07
194.72	0.00	195.24	0.00	195.76	0.00	196.28	0.07
194.73	0.00	195.25	0.00	195.77	0.00	196.29	0.07
194.74	0.00	195.26	0.00	195.78	0.00	196.30	0.07
194.75	0.00	195.27	0.00	195.79	0.00	196.31	0.07
194.76	0.00	195.28	0.00	195.80	0.00	196.32	0.08
194.77	0.00	195.29	0.00	195.81	0.00	196.33	0.08
194.78	0.00	195.30	0.00	195.82	0.00	196.34	0.08
194.79	0.00	195.31	0.00	195.83	0.00	196.35	0.08
194.80	0.00	195.32	0.00	195.84	0.00	196.36	0.08
194.81	0.00	195.33	0.00	195.85	0.00	196.37	0.08
194.82	0.00	195.34	0.00	195.86	0.00	196.38	0.09
194.83	0.00	195.35	0.00	195.87	0.00	196.39	0.09
194.84	0.00	195.36	0.00	195.88	0.00	196.40	0.09
194.85	0.00	195.37	0.00	195.89	0.00	196.41	0.09
194.86	0.00	195.38	0.00	195.90	0.00	196.42	0.09
194.87	0.00	195.39	0.00	195.91	0.00	196.43	0.09
194.88	0.00	195.40	0.00	195.92	0.00	196.44	0.10
194.89	0.00	195.41	0.00	195.93	0.00	196.45	0.10
194.90	0.00	195.42	0.00	195.94	0.00	196.46	0.10
194.91	0.00	195.43	0.00	195.95	0.00	196.47	0.10
194.92	0.00	195.44	0.00	195.96	0.00	196.48	0.10
194.93	0.00	195.45	0.00	195.97	0.00	196.49	0.10
194.94	0.00	195.46	0.00	195.98	0.00	196.50	0.10
194.95	0.00	195.47	0.00	195.99	0.00	196.51	0.10
194.96	0.00	195.48	0.00	196.00	0.00	196.52	0.11
194.97	0.00	195.49	0.00	196.01	0.00	196.53	0.11
194.98	0.00	195.50	0.00	196.02	0.00	196.54	0.11
194.99	0.00	195.51	0.00	196.03	0.00	196.55	0.11
195.00	0.00	195.52	0.00	196.04	0.00	196.56	0.11
195.01	0.00	195.53	0.00	196.05	0.00	196.57	0.11
195.02	0.00	195.54	0.00	196.06	0.01	196.58	0.11
195.03	0.00	195.55	0.00	196.07	0.01	196.59	0.11
195.04	0.00	195.56	0.00	196.08	0.01	196.60	0.12
195.05	0.00	195.57	0.00	196.09	0.01	196.61	0.12
195.06	0.00	195.58	0.00	196.10	0.02	196.62	0.12
195.07	0.00	195.59	0.00	196.11	0.02	196.63	0.12
195.08	0.00	195.60	0.00	196.12	0.02	196.64	0.12
195.09	0.00	195.61	0.00	196.13	0.03	196.65	0.12
195.10	0.00	195.62	0.00	196.14	0.03	196.66	0.12
195.11	0.00	195.63	0.00	196.15	0.03	196.67	0.12
195.12	0.00	195.64	0.00	196.16	0.04	196.68	0.12
195.13	0.00	195.65	0.00	196.17	0.04	196.69	0.13
195.14	0.00	195.66	0.00	196.18	0.05	196.70	0.13
195.15	0.00	195.67	0.00	196.19	0.05	196.71	0.13
195.16	0.00	195.68	0.00	196.20	0.05	196.72	0.13

Stage-Discharge for Pond B-19: Basin #19 (continued)

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
196.73	0.13	197.25	0.18	197.77	0.25	198.29	5.29
196.74	0.13	197.26	0.18	197.78	0.28	198.30	5.43
196.75	0.13	197.27	0.18	197.79	0.32	198.31	5.57
196.76	0.13	197.28	0.18	197.80	0.36	198.32	5.71
196.77	0.13	197.29	0.18	197.81	0.41	198.33	5.85
196.78	0.13	197.30	0.18	197.82	0.46	198.34	6.00
196.79	0.14	197.31	0.18	197.83	0.51	198.35	6.14
196.80	0.14	197.32	0.18	197.84	0.57	198.36	6.29
196.81	0.14	197.33	0.18	197.85	0.63	198.37	6.43
196.82	0.14	197.34	0.18	197.86	0.69	198.38	6.58
196.83	0.14	197.35	0.18	197.87	0.76	198.39	6.73
196.84	0.14	197.36	0.18	197.88	0.83	198.40	6.88
196.85	0.14	197.37	0.18	197.89	0.90	198.41	7.03
196.86	0.14	197.38	0.19	197.90	0.97	198.42	7.18
196.87	0.14	197.39	0.19	197.91	1.05	198.43	7.34
196.88	0.14	197.40	0.19	197.92	1.13	198.44	7.49
196.89	0.15	197.41	0.19	197.93	1.21	198.45	7.64
196.90	0.15	197.42	0.19	197.94	1.30	198.46	7.80
196.91	0.15	197.43	0.19	197.95	1.38	198.47	7.96
196.92	0.15	197.44	0.19	197.96	1.47	198.48	8.11
196.93	0.15	197.45	0.19	197.97	1.56	198.49	8.27
196.94	0.15	197.46	0.19	197.98	1.65	198.50	8.43
196.95	0.15	197.47	0.19	197.99	1.74	198.51	8.59
196.96	0.15	197.48	0.19	198.00	1.84	198.52	8.75
196.97	0.15	197.49	0.19	198.01	1.94	198.53	8.91
196.98	0.15	197.50	0.19	198.02	2.04	198.54	9.08
196.99	0.15	197.51	0.19	198.03	2.14	198.55	9.24
197.00	0.16	197.52	0.20	198.04	2.24	198.56	9.41
197.01	0.16	197.53	0.20	198.05	2.35	198.57	9.57
197.02	0.16	197.54	0.20	198.06	2.45	198.58	9.74
197.03	0.16	197.55	0.20	198.07	2.56	198.59	9.91
197.04	0.16	197.56	0.20	198.08	2.67	198.60	10.07
197.05	0.16	197.57	0.20	198.09	2.78	198.61	10.24
197.06	0.16	197.58	0.20	198.10	2.89	198.62	10.41
197.07	0.16	197.59	0.20	198.11	3.01	198.63	10.58
197.08	0.16	197.60	0.20	198.12	3.12	198.64	10.75
197.09	0.16	197.61	0.20	198.13	3.24	198.65	10.93
197.10	0.16	197.62	0.20	198.14	3.36	198.66	11.10
197.11	0.16	197.63	0.20	198.15	3.48	198.67	11.27
197.12	0.17	197.64	0.20	198.16	3.60	198.68	11.45
197.13	0.17	197.65	0.20	198.17	3.72	198.69	11.62
197.14	0.17	197.66	0.20	198.18	3.85	198.70	11.80
197.15	0.17	197.67	0.21	198.19	3.97	198.71	11.98
197.16	0.17	197.68	0.21	198.20	4.10	198.72	12.16
197.17	0.17	197.69	0.21	198.21	4.23	198.73	12.33
197.18	0.17	197.70	0.21	198.22	4.35	198.74	12.51
197.19	0.17	197.71	0.21	198.23	4.48	198.75	12.69
197.20	0.17	197.72	0.21	198.24	4.62	198.76	12.87
197.21	0.17	197.73	0.21	198.25	4.75	198.77	13.06
197.22	0.17	197.74	0.21	198.26	4.88	198.78	13.24
197.23	0.17	197.75	0.21	198.27	5.02	198.79	13.42
197.24	0.17	197.76	0.22	198.28	5.16	198.80	13.60

Stage-Discharge for Pond B-19: Basin #19 (continued)

Elevation (feet)	Primary (cfs)
198.81	13.79
198.82	13.97
198.83	14.16
198.84	14.35
198.85	14.53
198.86	14.72
198.87	14.91
198.88	15.10
198.89	15.29
198.90	15.48
198.91	15.67
198.92	15.86
198.93	16.05
198.94	16.25
198.95	16.44
198.96	16.75
198.97	17.16
198.98	17.48
198.99	17.83
199.00	18.22

Stage-Area-Storage for Pond B-19: Basin #19

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
194.65	0	0	195.17	2,014	669
194.66	55	0	195.18	2,019	689
194.67	109	1	195.19	2,025	710
194.68	164	2	195.20	2,031	730
194.69	219	4	195.21	2,037	750
194.70	274	7	195.22	2,042	771
194.71	328	10	195.23	2,048	791
194.72	383	13	195.24	2,054	812
194.73	438	18	195.25	2,060	832
194.74	493	22	195.26	2,065	853
194.75	547	27	195.27	2,071	874
194.76	602	33	195.28	2,077	894
194.77	657	39	195.29	2,082	915
194.78	712	46	195.30	2,088	936
194.79	766	54	195.31	2,094	957
194.80	821	62	195.32	2,100	978
194.81	876	70	195.33	2,105	999
194.82	931	79	195.34	2,111	1,020
194.83	985	89	195.35	2,117	1,041
194.84	1,040	99	195.36	2,123	1,062
194.85	1,095	109	195.37	2,128	1,084
194.86	1,150	121	195.38	2,134	1,105
194.87	1,204	132	195.39	2,140	1,126
194.88	1,259	145	195.40	2,146	1,148
194.89	1,314	158	195.41	2,151	1,169
194.90	1,369	171	195.42	2,157	1,191
194.91	1,423	185	195.43	2,163	1,212
194.92	1,478	200	195.44	2,169	1,234
194.93	1,533	215	195.45	2,174	1,256
194.94	1,588	230	195.46	2,180	1,277
194.95	1,642	246	195.47	2,186	1,299
194.96	1,697	263	195.48	2,192	1,321
194.97	1,752	280	195.49	2,197	1,343
194.98	1,807	298	195.50	2,203	1,365
194.99	1,861	316	195.51	2,209	1,387
195.00	1,916	335	195.52	2,214	1,409
195.01	1,922	354	195.53	2,220	1,431
195.02	1,927	374	195.54	2,226	1,454
195.03	1,933	393	195.55	2,232	1,476
195.04	1,939	412	195.56	2,237	1,498
195.05	1,945	432	195.57	2,243	1,521
195.06	1,950	451	195.58	2,249	1,543
195.07	1,956	471	195.59	2,255	1,566
195.08	1,962	490	195.60	2,260	1,588
195.09	1,968	510	195.61	2,266	1,611
195.10	1,973	530	195.62	2,272	1,634
195.11	1,979	550	195.63	2,278	1,656
195.12	1,985	569	195.64	2,283	1,679
195.13	1,991	589	195.65	2,289	1,702
195.14	1,996	609	195.66	2,295	1,725
195.15	2,002	629	195.67	2,301	1,748
195.16	2,008	649	195.68	2,306	1,771

Stage-Area-Storage for Pond B-19: Basin #19 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
195.69	2,312	1,794	196.21	2,622	3,075
195.70	2,318	1,817	196.22	2,628	3,101
195.71	2,324	1,840	196.23	2,635	3,128
195.72	2,329	1,864	196.24	2,641	3,154
195.73	2,335	1,887	196.25	2,647	3,180
195.74	2,341	1,910	196.26	2,654	3,207
195.75	2,347	1,934	196.27	2,660	3,234
195.76	2,352	1,957	196.28	2,666	3,260
195.77	2,358	1,981	196.29	2,672	3,287
195.78	2,364	2,004	196.30	2,679	3,314
195.79	2,369	2,028	196.31	2,685	3,340
195.80	2,375	2,052	196.32	2,691	3,367
195.81	2,381	2,076	196.33	2,698	3,394
195.82	2,387	2,099	196.34	2,704	3,421
195.83	2,392	2,123	196.35	2,710	3,448
195.84	2,398	2,147	196.36	2,716	3,475
195.85	2,404	2,171	196.37	2,723	3,503
195.86	2,410	2,195	196.38	2,729	3,530
195.87	2,415	2,219	196.39	2,735	3,557
195.88	2,421	2,244	196.40	2,742	3,585
195.89	2,427	2,268	196.41	2,748	3,612
195.90	2,433	2,292	196.42	2,754	3,640
195.91	2,438	2,317	196.43	2,760	3,667
195.92	2,444	2,341	196.44	2,767	3,695
195.93	2,450	2,365	196.45	2,773	3,722
195.94	2,456	2,390	196.46	2,779	3,750
195.95	2,461	2,415	196.47	2,786	3,778
195.96	2,467	2,439	196.48	2,792	3,806
195.97	2,473	2,464	196.49	2,798	3,834
195.98	2,479	2,489	196.50	2,805	3,862
195.99	2,484	2,513	196.51	2,811	3,890
196.00	2,490	2,538	196.52	2,817	3,918
196.01	2,496	2,563	196.53	2,823	3,946
196.02	2,503	2,588	196.54	2,830	3,975
196.03	2,509	2,613	196.55	2,836	4,003
196.04	2,515	2,638	196.56	2,842	4,031
196.05	2,521	2,664	196.57	2,849	4,060
196.06	2,528	2,689	196.58	2,855	4,088
196.07	2,534	2,714	196.59	2,861	4,117
196.08	2,540	2,740	196.60	2,867	4,146
196.09	2,547	2,765	196.61	2,874	4,174
196.10	2,553	2,790	196.62	2,880	4,203
196.11	2,559	2,816	196.63	2,886	4,232
196.12	2,565	2,842	196.64	2,893	4,261
196.13	2,572	2,867	196.65	2,899	4,290
196.14	2,578	2,893	196.66	2,905	4,319
196.15	2,584	2,919	196.67	2,911	4,348
196.16	2,591	2,945	196.68	2,918	4,377
196.17	2,597	2,971	196.69	2,924	4,406
196.18	2,603	2,997	196.70	2,930	4,435
196.19	2,610	3,023	196.71	2,937	4,465
196.20	2,616	3,049	196.72	2,943	4,494

Stage-Area-Storage for Pond B-19: Basin #19 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
196.73	2,949	4,524	197.25	3,291	6,144
196.74	2,955	4,553	197.26	3,298	6,177
196.75	2,962	4,583	197.27	3,304	6,210
196.76	2,968	4,612	197.28	3,311	6,243
196.77	2,974	4,642	197.29	3,318	6,276
196.78	2,981	4,672	197.30	3,325	6,309
196.79	2,987	4,702	197.31	3,332	6,343
196.80	2,993	4,732	197.32	3,339	6,376
196.81	2,999	4,762	197.33	3,346	6,409
196.82	3,006	4,792	197.34	3,353	6,443
196.83	3,012	4,822	197.35	3,359	6,477
196.84	3,018	4,852	197.36	3,366	6,510
196.85	3,025	4,882	197.37	3,373	6,544
196.86	3,031	4,912	197.38	3,380	6,578
196.87	3,037	4,943	197.39	3,387	6,611
196.88	3,044	4,973	197.40	3,394	6,645
196.89	3,050	5,004	197.41	3,401	6,679
196.90	3,056	5,034	197.42	3,408	6,713
196.91	3,062	5,065	197.43	3,414	6,747
196.92	3,069	5,095	197.44	3,421	6,782
196.93	3,075	5,126	197.45	3,428	6,816
196.94	3,081	5,157	197.46	3,435	6,850
196.95	3,088	5,188	197.47	3,442	6,885
196.96	3,094	5,219	197.48	3,449	6,919
196.97	3,100	5,250	197.49	3,456	6,954
196.98	3,106	5,281	197.50	3,463	6,988
196.99	3,113	5,312	197.51	3,469	7,023
197.00	3,119	5,343	197.52	3,476	7,058
197.01	3,126	5,374	197.53	3,483	7,092
197.02	3,133	5,405	197.54	3,490	7,127
197.03	3,140	5,437	197.55	3,497	7,162
197.04	3,146	5,468	197.56	3,504	7,197
197.05	3,153	5,500	197.57	3,511	7,232
197.06	3,160	5,531	197.58	3,517	7,267
197.07	3,167	5,563	197.59	3,524	7,303
197.08	3,174	5,595	197.60	3,531	7,338
197.09	3,181	5,626	197.61	3,538	7,373
197.10	3,188	5,658	197.62	3,545	7,409
197.11	3,195	5,690	197.63	3,552	7,444
197.12	3,201	5,722	197.64	3,559	7,480
197.13	3,208	5,754	197.65	3,566	7,515
197.14	3,215	5,786	197.66	3,572	7,551
197.15	3,222	5,818	197.67	3,579	7,587
197.16	3,229	5,851	197.68	3,586	7,623
197.17	3,236	5,883	197.69	3,593	7,658
197.18	3,243	5,915	197.70	3,600	7,694
197.19	3,250	5,948	197.71	3,607	7,730
197.20	3,256	5,980	197.72	3,614	7,767
197.21	3,263	6,013	197.73	3,621	7,803
197.22	3,270	6,046	197.74	3,627	7,839
197.23	3,277	6,078	197.75	3,634	7,875
197.24	3,284	6,111	197.76	3,641	7,912

Stage-Area-Storage for Pond B-19: Basin #19 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
197.77	3,648	7,948	198.29	4,021	9,940
197.78	3,655	7,985	198.30	4,029	9,980
197.79	3,662	8,021	198.31	4,036	10,021
197.80	3,669	8,058	198.32	4,043	10,061
197.81	3,675	8,095	198.33	4,051	10,102
197.82	3,682	8,131	198.34	4,058	10,142
197.83	3,689	8,168	198.35	4,066	10,183
197.84	3,696	8,205	198.36	4,073	10,224
197.85	3,703	8,242	198.37	4,081	10,264
197.86	3,710	8,279	198.38	4,088	10,305
197.87	3,717	8,316	198.39	4,095	10,346
197.88	3,724	8,354	198.40	4,103	10,387
197.89	3,730	8,391	198.41	4,110	10,428
197.90	3,737	8,428	198.42	4,118	10,469
197.91	3,744	8,466	198.43	4,125	10,510
197.92	3,751	8,503	198.44	4,132	10,552
197.93	3,758	8,541	198.45	4,140	10,593
197.94	3,765	8,578	198.46	4,147	10,635
197.95	3,772	8,616	198.47	4,155	10,676
197.96	3,779	8,654	198.48	4,162	10,718
197.97	3,785	8,691	198.49	4,170	10,759
197.98	3,792	8,729	198.50	4,177	10,801
197.99	3,799	8,767	198.51	4,184	10,843
198.00	3,806	8,805	198.52	4,192	10,885
198.01	3,813	8,843	198.53	4,199	10,927
198.02	3,821	8,882	198.54	4,207	10,969
198.03	3,828	8,920	198.55	4,214	11,011
198.04	3,836	8,958	198.56	4,222	11,053
198.05	3,843	8,997	198.57	4,229	11,095
198.06	3,851	9,035	198.58	4,236	11,138
198.07	3,858	9,074	198.59	4,244	11,180
198.08	3,865	9,112	198.60	4,251	11,222
198.09	3,873	9,151	198.61	4,259	11,265
198.10	3,880	9,190	198.62	4,266	11,308
198.11	3,888	9,228	198.63	4,273	11,350
198.12	3,895	9,267	198.64	4,281	11,393
198.13	3,902	9,306	198.65	4,288	11,436
198.14	3,910	9,345	198.66	4,296	11,479
198.15	3,917	9,385	198.67	4,303	11,522
198.16	3,925	9,424	198.68	4,311	11,565
198.17	3,932	9,463	198.69	4,318	11,608
198.18	3,940	9,502	198.70	4,325	11,651
198.19	3,947	9,542	198.71	4,333	11,695
198.20	3,954	9,581	198.72	4,340	11,738
198.21	3,962	9,621	198.73	4,348	11,781
198.22	3,969	9,661	198.74	4,355	11,825
198.23	3,977	9,700	198.75	4,363	11,868
198.24	3,984	9,740	198.76	4,370	11,912
198.25	3,992	9,780	198.77	4,377	11,956
198.26	3,999	9,820	198.78	4,385	12,000
198.27	4,006	9,860	198.79	4,392	12,044
198.28	4,014	9,900	198.80	4,400	12,088

Stage-Area-Storage for Pond B-19: Basin #19 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
198.81	4,407	12,132
198.82	4,414	12,176
198.83	4,422	12,220
198.84	4,429	12,264
198.85	4,437	12,308
198.86	4,444	12,353
198.87	4,452	12,397
198.88	4,459	12,442
198.89	4,466	12,487
198.90	4,474	12,531
198.91	4,481	12,576
198.92	4,489	12,621
198.93	4,496	12,666
198.94	4,503	12,711
198.95	4,511	12,756
198.96	4,518	12,801
198.97	4,526	12,846
198.98	4,533	12,891
198.99	4,541	12,937
199.00	4,548	12,982

Summary for Pond B-20: Basin #20

Inflow Area = 2.453 ac, 46.07% Impervious, Inflow Depth = 2.05" for Current 2 yr event
 Inflow = 5.03 cfs @ 12.17 hrs, Volume= 0.419 af
 Outflow = 0.32 cfs @ 13.79 hrs, Volume= 0.293 af, Atten= 94%, Lag= 96.8 min
 Primary = 0.32 cfs @ 13.79 hrs, Volume= 0.293 af
 Routed to Link PDA-2 : Proposed Drainage Area #2

Routing by Stor-Ind method, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 Peak Elev= 152.80' @ 13.79 hrs Surf.Area= 7,352 sf Storage= 12,320 cf

Plug-Flow detention time= 664.5 min calculated for 0.293 af (70% of inflow)
 Center-of-Mass det. time= 561.6 min (1,353.7 - 792.1)

Volume	Invert	Avail.Storage	Storage Description
#1	150.87'	35,230 cf	Custom Stage Data (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
150.87	0	0	0
151.00	5,926	385	385
152.00	6,706	6,316	6,701
153.00	7,514	7,110	13,811
154.00	8,347	7,931	21,742
155.00	9,205	8,776	30,518
155.50	9,643	4,712	35,230

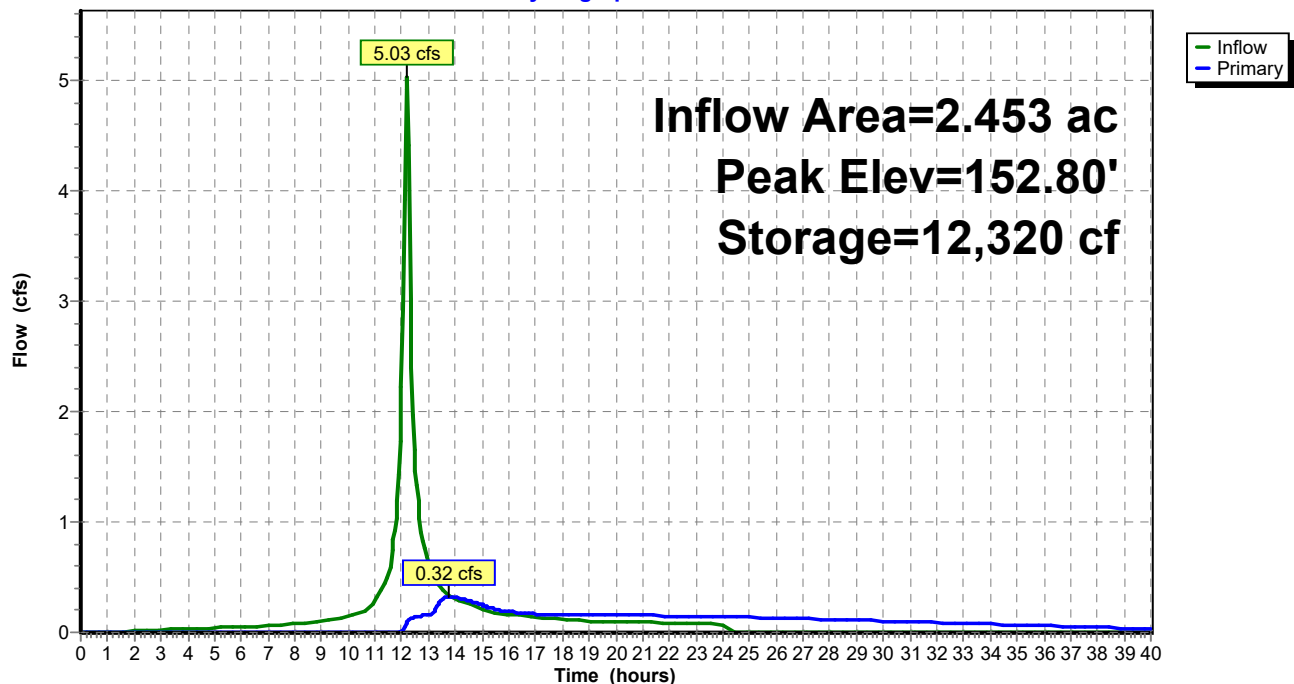
Device	Routing	Invert	Outlet Devices
#1	Primary	151.00'	18.0" Round Culvert L= 29.0' Ke= 0.500 Inlet / Outlet Invert= 151.00' / 150.71' S= 0.0100 '/' Cc= 0.900 n= 0.013, Flow Area= 1.77 sf
#2	Device 1	151.68'	2.5" Vert. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#3	Device 1	152.75'	4.0' long Sharp-Crested Rectangular Weir 2 End Contraction(s)
#4	Primary	154.32'	50.0' long + 3.0 '/' SideZ x 5.0' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 Coef. (English) 2.34 2.50 2.70 2.68 2.68 2.66 2.65 2.65 2.65 2.65 2.67 2.66 2.68 2.70 2.74 2.79 2.88

Primary OutFlow Max=0.31 cfs @ 13.79 hrs HW=152.80' (Free Discharge)

1=Culvert (Passes 0.31 cfs of 8.34 cfs potential flow)
 2=Orifice/Grate (Orifice Controls 0.17 cfs @ 4.85 fps)
 3=Sharp-Crested Rectangular Weir (Weir Controls 0.14 cfs @ 0.73 fps)
 4=Broad-Crested Rectangular Weir (Controls 0.00 cfs)

Pond B-20: Basin #20

Hydrograph



Stage-Discharge for Pond B-20: Basin #20

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
150.87	0.00	151.39	0.00	151.91	0.06	152.43	0.13
150.88	0.00	151.40	0.00	151.92	0.06	152.44	0.13
150.89	0.00	151.41	0.00	151.93	0.06	152.45	0.13
150.90	0.00	151.42	0.00	151.94	0.06	152.46	0.13
150.91	0.00	151.43	0.00	151.95	0.07	152.47	0.14
150.92	0.00	151.44	0.00	151.96	0.07	152.48	0.14
150.93	0.00	151.45	0.00	151.97	0.07	152.49	0.14
150.94	0.00	151.46	0.00	151.98	0.07	152.50	0.14
150.95	0.00	151.47	0.00	151.99	0.07	152.51	0.14
150.96	0.00	151.48	0.00	152.00	0.08	152.52	0.14
150.97	0.00	151.49	0.00	152.01	0.08	152.53	0.14
150.98	0.00	151.50	0.00	152.02	0.08	152.54	0.14
150.99	0.00	151.51	0.00	152.03	0.08	152.55	0.14
151.00	0.00	151.52	0.00	152.04	0.08	152.56	0.14
151.01	0.00	151.53	0.00	152.05	0.08	152.57	0.15
151.02	0.00	151.54	0.00	152.06	0.09	152.58	0.15
151.03	0.00	151.55	0.00	152.07	0.09	152.59	0.15
151.04	0.00	151.56	0.00	152.08	0.09	152.60	0.15
151.05	0.00	151.57	0.00	152.09	0.09	152.61	0.15
151.06	0.00	151.58	0.00	152.10	0.09	152.62	0.15
151.07	0.00	151.59	0.00	152.11	0.09	152.63	0.15
151.08	0.00	151.60	0.00	152.12	0.10	152.64	0.15
151.09	0.00	151.61	0.00	152.13	0.10	152.65	0.15
151.10	0.00	151.62	0.00	152.14	0.10	152.66	0.15
151.11	0.00	151.63	0.00	152.15	0.10	152.67	0.15
151.12	0.00	151.64	0.00	152.16	0.10	152.68	0.16
151.13	0.00	151.65	0.00	152.17	0.10	152.69	0.16
151.14	0.00	151.66	0.00	152.18	0.10	152.70	0.16
151.15	0.00	151.67	0.00	152.19	0.10	152.71	0.16
151.16	0.00	151.68	0.00	152.20	0.11	152.72	0.16
151.17	0.00	151.69	0.00	152.21	0.11	152.73	0.16
151.18	0.00	151.70	0.00	152.22	0.11	152.74	0.16
151.19	0.00	151.71	0.00	152.23	0.11	152.75	0.16
151.20	0.00	151.72	0.00	152.24	0.11	152.76	0.18
151.21	0.00	151.73	0.00	152.25	0.11	152.77	0.20
151.22	0.00	151.74	0.01	152.26	0.11	152.78	0.23
151.23	0.00	151.75	0.01	152.27	0.11	152.79	0.27
151.24	0.00	151.76	0.01	152.28	0.12	152.80	0.31
151.25	0.00	151.77	0.01	152.29	0.12	152.81	0.36
151.26	0.00	151.78	0.02	152.30	0.12	152.82	0.41
151.27	0.00	151.79	0.02	152.31	0.12	152.83	0.46
151.28	0.00	151.80	0.02	152.32	0.12	152.84	0.52
151.29	0.00	151.81	0.03	152.33	0.12	152.85	0.58
151.30	0.00	151.82	0.03	152.34	0.12	152.86	0.64
151.31	0.00	151.83	0.03	152.35	0.12	152.87	0.71
151.32	0.00	151.84	0.04	152.36	0.12	152.88	0.78
151.33	0.00	151.85	0.04	152.37	0.13	152.89	0.85
151.34	0.00	151.86	0.05	152.38	0.13	152.90	0.93
151.35	0.00	151.87	0.05	152.39	0.13	152.91	1.00
151.36	0.00	151.88	0.05	152.40	0.13	152.92	1.08
151.37	0.00	151.89	0.05	152.41	0.13	152.93	1.17
151.38	0.00	151.90	0.06	152.42	0.13	152.94	1.25

Stage-Discharge for Pond B-20: Basin #20 (continued)

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
152.95	1.34	153.47	7.92	153.99	12.73	154.51	23.91
152.96	1.42	153.48	8.07	154.00	12.76	154.52	24.73
152.97	1.51	153.49	8.23	154.01	12.79	154.53	25.60
152.98	1.61	153.50	8.39	154.02	12.82	154.54	26.50
152.99	1.70	153.51	8.55	154.03	12.85	154.55	27.42
153.00	1.80	153.52	8.71	154.04	12.88	154.56	28.37
153.01	1.89	153.53	8.88	154.05	12.90	154.57	29.34
153.02	1.99	153.54	9.04	154.06	12.93	154.58	30.34
153.03	2.09	153.55	9.20	154.07	12.96	154.59	31.36
153.04	2.20	153.56	9.37	154.08	12.99	154.60	32.41
153.05	2.30	153.57	9.53	154.09	13.02	154.61	33.49
153.06	2.41	153.58	9.70	154.10	13.04	154.62	34.58
153.07	2.52	153.59	9.87	154.11	13.07	154.63	35.71
153.08	2.63	153.60	10.04	154.12	13.10	154.64	36.85
153.09	2.74	153.61	10.20	154.13	13.13	154.65	38.02
153.10	2.85	153.62	10.37	154.14	13.15	154.66	39.22
153.11	2.96	153.63	10.55	154.15	13.18	154.67	40.44
153.12	3.08	153.64	10.72	154.16	13.21	154.68	41.68
153.13	3.20	153.65	10.89	154.17	13.24	154.69	42.95
153.14	3.31	153.66	11.06	154.18	13.26	154.70	44.24
153.15	3.43	153.67	11.24	154.19	13.29	154.71	45.55
153.16	3.56	153.68	11.41	154.20	13.32	154.72	46.89
153.17	3.68	153.69	11.59	154.21	13.35	154.73	48.28
153.18	3.80	153.70	11.76	154.22	13.37	154.74	49.70
153.19	3.93	153.71	11.91	154.23	13.40	154.75	51.14
153.20	4.05	153.72	11.94	154.24	13.43	154.76	52.61
153.21	4.18	153.73	11.97	154.25	13.45	154.77	54.11
153.22	4.31	153.74	12.00	154.26	13.48	154.78	55.63
153.23	4.44	153.75	12.03	154.27	13.51	154.79	57.17
153.24	4.57	153.76	12.06	154.28	13.53	154.80	58.75
153.25	4.71	153.77	12.09	154.29	13.56	154.81	60.35
153.26	4.84	153.78	12.12	154.30	13.59	154.82	61.97
153.27	4.98	153.79	12.15	154.31	13.61	154.83	63.63
153.28	5.11	153.80	12.18	154.32	13.64	154.84	65.31
153.29	5.25	153.81	12.21	154.33	13.78	154.85	67.01
153.30	5.39	153.82	12.24	154.34	14.02	154.86	68.74
153.31	5.53	153.83	12.27	154.35	14.33	154.87	70.50
153.32	5.67	153.84	12.30	154.36	14.68	154.88	72.29
153.33	5.81	153.85	12.33	154.37	15.08	154.89	74.10
153.34	5.96	153.86	12.36	154.38	15.52	154.90	75.94
153.35	6.10	153.87	12.39	154.39	16.00	154.91	77.81
153.36	6.25	153.88	12.42	154.40	16.51	154.92	79.70
153.37	6.39	153.89	12.45	154.41	17.05	154.93	81.35
153.38	6.54	153.90	12.48	154.42	17.62	154.94	83.01
153.39	6.69	153.91	12.51	154.43	18.22	154.95	84.69
153.40	6.84	153.92	12.53	154.44	18.85	154.96	86.38
153.41	6.99	153.93	12.56	154.45	19.50	154.97	88.09
153.42	7.14	153.94	12.59	154.46	20.18	154.98	89.80
153.43	7.30	153.95	12.62	154.47	20.88	154.99	91.54
153.44	7.45	153.96	12.65	154.48	21.60	155.00	93.28
153.45	7.60	153.97	12.68	154.49	22.35	155.01	95.04
153.46	7.76	153.98	12.71	154.50	23.12	155.02	96.80

Stage-Discharge for Pond B-20: Basin #20 (continued)

Elevation (feet)	Primary (cfs)
155.03	98.59
155.04	100.38
155.05	102.19
155.06	104.01
155.07	105.84
155.08	107.69
155.09	109.54
155.10	111.41
155.11	113.29
155.12	115.18
155.13	117.13
155.14	119.08
155.15	121.05
155.16	123.03
155.17	125.03
155.18	127.04
155.19	129.06
155.20	131.10
155.21	133.14
155.22	135.20
155.23	137.28
155.24	139.36
155.25	141.46
155.26	143.57
155.27	145.70
155.28	147.84
155.29	149.99
155.30	152.15
155.31	154.32
155.32	156.51
155.33	158.66
155.34	160.81
155.35	162.98
155.36	165.16
155.37	167.35
155.38	169.55
155.39	171.76
155.40	173.98
155.41	176.21
155.42	178.45
155.43	180.70
155.44	182.96
155.45	185.24
155.46	187.52
155.47	189.81
155.48	192.11
155.49	194.43
155.50	196.75

Stage-Area-Storage for Pond B-20: Basin #20

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
150.87	0	0	151.39	6,230	2,756
150.88	456	2	151.40	6,238	2,818
150.89	912	9	151.41	6,246	2,880
150.90	1,368	21	151.42	6,254	2,943
150.91	1,823	36	151.43	6,261	3,005
150.92	2,279	57	151.44	6,269	3,068
150.93	2,735	82	151.45	6,277	3,131
150.94	3,191	112	151.46	6,285	3,194
150.95	3,647	146	151.47	6,293	3,257
150.96	4,103	185	151.48	6,300	3,320
150.97	4,558	228	151.49	6,308	3,383
150.98	5,014	276	151.50	6,316	3,446
150.99	5,470	328	151.51	6,324	3,509
151.00	5,926	385	151.52	6,332	3,572
151.01	5,934	444	151.53	6,339	3,636
151.02	5,942	504	151.54	6,347	3,699
151.03	5,949	563	151.55	6,355	3,762
151.04	5,957	623	151.56	6,363	3,826
151.05	5,965	682	151.57	6,371	3,890
151.06	5,973	742	151.58	6,378	3,953
151.07	5,981	802	151.59	6,386	4,017
151.08	5,988	862	151.60	6,394	4,081
151.09	5,996	922	151.61	6,402	4,145
151.10	6,004	982	151.62	6,410	4,209
151.11	6,012	1,042	151.63	6,417	4,273
151.12	6,020	1,102	151.64	6,425	4,338
151.13	6,027	1,162	151.65	6,433	4,402
151.14	6,035	1,222	151.66	6,441	4,466
151.15	6,043	1,283	151.67	6,449	4,531
151.16	6,051	1,343	151.68	6,456	4,595
151.17	6,059	1,404	151.69	6,464	4,660
151.18	6,066	1,465	151.70	6,472	4,724
151.19	6,074	1,525	151.71	6,480	4,789
151.20	6,082	1,586	151.72	6,488	4,854
151.21	6,090	1,647	151.73	6,495	4,919
151.22	6,098	1,708	151.74	6,503	4,984
151.23	6,105	1,769	151.75	6,511	5,049
151.24	6,113	1,830	151.76	6,519	5,114
151.25	6,121	1,891	151.77	6,527	5,179
151.26	6,129	1,952	151.78	6,534	5,245
151.27	6,137	2,014	151.79	6,542	5,310
151.28	6,144	2,075	151.80	6,550	5,376
151.29	6,152	2,137	151.81	6,558	5,441
151.30	6,160	2,198	151.82	6,566	5,507
151.31	6,168	2,260	151.83	6,573	5,572
151.32	6,176	2,321	151.84	6,581	5,638
151.33	6,183	2,383	151.85	6,589	5,704
151.34	6,191	2,445	151.86	6,597	5,770
151.35	6,199	2,507	151.87	6,605	5,836
151.36	6,207	2,569	151.88	6,612	5,902
151.37	6,215	2,631	151.89	6,620	5,968
151.38	6,222	2,693	151.90	6,628	6,034

Stage-Area-Storage for Pond B-20: Basin #20 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
151.91	6,636	6,101	152.43	7,053	9,659
151.92	6,644	6,167	152.44	7,062	9,730
151.93	6,651	6,234	152.45	7,070	9,801
151.94	6,659	6,300	152.46	7,078	9,871
151.95	6,667	6,367	152.47	7,086	9,942
151.96	6,675	6,434	152.48	7,094	10,013
151.97	6,683	6,500	152.49	7,102	10,084
151.98	6,690	6,567	152.50	7,110	10,155
151.99	6,698	6,634	152.51	7,118	10,226
152.00	6,706	6,701	152.52	7,126	10,298
152.01	6,714	6,768	152.53	7,134	10,369
152.02	6,722	6,835	152.54	7,142	10,440
152.03	6,730	6,903	152.55	7,150	10,512
152.04	6,738	6,970	152.56	7,158	10,583
152.05	6,746	7,038	152.57	7,167	10,655
152.06	6,754	7,105	152.58	7,175	10,727
152.07	6,763	7,173	152.59	7,183	10,798
152.08	6,771	7,240	152.60	7,191	10,870
152.09	6,779	7,308	152.61	7,199	10,942
152.10	6,787	7,376	152.62	7,207	11,014
152.11	6,795	7,444	152.63	7,215	11,086
152.12	6,803	7,512	152.64	7,223	11,159
152.13	6,811	7,580	152.65	7,231	11,231
152.14	6,819	7,648	152.66	7,239	11,303
152.15	6,827	7,716	152.67	7,247	11,376
152.16	6,835	7,784	152.68	7,255	11,448
152.17	6,843	7,853	152.69	7,264	11,521
152.18	6,851	7,921	152.70	7,272	11,593
152.19	6,860	7,990	152.71	7,280	11,666
152.20	6,868	8,059	152.72	7,288	11,739
152.21	6,876	8,127	152.73	7,296	11,812
152.22	6,884	8,196	152.74	7,304	11,885
152.23	6,892	8,265	152.75	7,312	11,958
152.24	6,900	8,334	152.76	7,320	12,031
152.25	6,908	8,403	152.77	7,328	12,104
152.26	6,916	8,472	152.78	7,336	12,178
152.27	6,924	8,541	152.79	7,344	12,251
152.28	6,932	8,611	152.80	7,352	12,325
152.29	6,940	8,680	152.81	7,360	12,398
152.30	6,948	8,749	152.82	7,369	12,472
152.31	6,956	8,819	152.83	7,377	12,545
152.32	6,965	8,888	152.84	7,385	12,619
152.33	6,973	8,958	152.85	7,393	12,693
152.34	6,981	9,028	152.86	7,401	12,767
152.35	6,989	9,098	152.87	7,409	12,841
152.36	6,997	9,168	152.88	7,417	12,915
152.37	7,005	9,238	152.89	7,425	12,990
152.38	7,013	9,308	152.90	7,433	13,064
152.39	7,021	9,378	152.91	7,441	13,138
152.40	7,029	9,448	152.92	7,449	13,213
152.41	7,037	9,519	152.93	7,457	13,287
152.42	7,045	9,589	152.94	7,466	13,362

Stage-Area-Storage for Pond B-20: Basin #20 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
152.95	7,474	13,437	153.47	7,906	17,435
152.96	7,482	13,511	153.48	7,914	17,514
152.97	7,490	13,586	153.49	7,922	17,593
152.98	7,498	13,661	153.50	7,931	17,672
152.99	7,506	13,736	153.51	7,939	17,752
153.00	7,514	13,811	153.52	7,947	17,831
153.01	7,522	13,886	153.53	7,955	17,911
153.02	7,531	13,962	153.54	7,964	17,990
153.03	7,539	14,037	153.55	7,972	18,070
153.04	7,547	14,112	153.56	7,980	18,150
153.05	7,556	14,188	153.57	7,989	18,229
153.06	7,564	14,264	153.58	7,997	18,309
153.07	7,572	14,339	153.59	8,005	18,389
153.08	7,581	14,415	153.60	8,014	18,470
153.09	7,589	14,491	153.61	8,022	18,550
153.10	7,597	14,567	153.62	8,030	18,630
153.11	7,606	14,643	153.63	8,039	18,710
153.12	7,614	14,719	153.64	8,047	18,791
153.13	7,622	14,795	153.65	8,055	18,871
153.14	7,631	14,871	153.66	8,064	18,952
153.15	7,639	14,948	153.67	8,072	19,033
153.16	7,647	15,024	153.68	8,080	19,113
153.17	7,656	15,101	153.69	8,089	19,194
153.18	7,664	15,177	153.70	8,097	19,275
153.19	7,672	15,254	153.71	8,105	19,356
153.20	7,681	15,331	153.72	8,114	19,437
153.21	7,689	15,407	153.73	8,122	19,518
153.22	7,697	15,484	153.74	8,130	19,600
153.23	7,706	15,561	153.75	8,139	19,681
153.24	7,714	15,639	153.76	8,147	19,762
153.25	7,722	15,716	153.77	8,155	19,844
153.26	7,731	15,793	153.78	8,164	19,926
153.27	7,739	15,870	153.79	8,172	20,007
153.28	7,747	15,948	153.80	8,180	20,089
153.29	7,756	16,025	153.81	8,189	20,171
153.30	7,764	16,103	153.82	8,197	20,253
153.31	7,772	16,181	153.83	8,205	20,335
153.32	7,781	16,258	153.84	8,214	20,417
153.33	7,789	16,336	153.85	8,222	20,499
153.34	7,797	16,414	153.86	8,230	20,581
153.35	7,806	16,492	153.87	8,239	20,664
153.36	7,814	16,570	153.88	8,247	20,746
153.37	7,822	16,648	153.89	8,255	20,829
153.38	7,831	16,727	153.90	8,264	20,911
153.39	7,839	16,805	153.91	8,272	20,994
153.40	7,847	16,883	153.92	8,280	21,077
153.41	7,856	16,962	153.93	8,289	21,159
153.42	7,864	17,041	153.94	8,297	21,242
153.43	7,872	17,119	153.95	8,305	21,325
153.44	7,881	17,198	153.96	8,314	21,408
153.45	7,889	17,277	153.97	8,322	21,492
153.46	7,897	17,356	153.98	8,330	21,575

Stage-Area-Storage for Pond B-20: Basin #20 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
153.99	8,339	21,658	154.51	8,785	26,110
154.00	8,347	21,742	154.52	8,793	26,198
154.01	8,356	21,825	154.53	8,802	26,286
154.02	8,364	21,909	154.54	8,810	26,374
154.03	8,373	21,992	154.55	8,819	26,462
154.04	8,381	22,076	154.56	8,827	26,551
154.05	8,390	22,160	154.57	8,836	26,639
154.06	8,398	22,244	154.58	8,845	26,727
154.07	8,407	22,328	154.59	8,853	26,816
154.08	8,416	22,412	154.60	8,862	26,904
154.09	8,424	22,496	154.61	8,870	26,993
154.10	8,433	22,581	154.62	8,879	27,082
154.11	8,441	22,665	154.63	8,888	27,171
154.12	8,450	22,750	154.64	8,896	27,259
154.13	8,459	22,834	154.65	8,905	27,348
154.14	8,467	22,919	154.66	8,913	27,438
154.15	8,476	23,003	154.67	8,922	27,527
154.16	8,484	23,088	154.68	8,930	27,616
154.17	8,493	23,173	154.69	8,939	27,705
154.18	8,501	23,258	154.70	8,948	27,795
154.19	8,510	23,343	154.71	8,956	27,884
154.20	8,519	23,428	154.72	8,965	27,974
154.21	8,527	23,513	154.73	8,973	28,064
154.22	8,536	23,599	154.74	8,982	28,153
154.23	8,544	23,684	154.75	8,991	28,243
154.24	8,553	23,770	154.76	8,999	28,333
154.25	8,562	23,855	154.77	9,008	28,423
154.26	8,570	23,941	154.78	9,016	28,513
154.27	8,579	24,027	154.79	9,025	28,604
154.28	8,587	24,112	154.80	9,033	28,694
154.29	8,596	24,198	154.81	9,042	28,784
154.30	8,604	24,284	154.82	9,051	28,875
154.31	8,613	24,370	154.83	9,059	28,965
154.32	8,622	24,457	154.84	9,068	29,056
154.33	8,630	24,543	154.85	9,076	29,147
154.34	8,639	24,629	154.86	9,085	29,237
154.35	8,647	24,716	154.87	9,093	29,328
154.36	8,656	24,802	154.88	9,102	29,419
154.37	8,664	24,889	154.89	9,111	29,510
154.38	8,673	24,975	154.90	9,119	29,601
154.39	8,682	25,062	154.91	9,128	29,693
154.40	8,690	25,149	154.92	9,136	29,784
154.41	8,699	25,236	154.93	9,145	29,875
154.42	8,707	25,323	154.94	9,154	29,967
154.43	8,716	25,410	154.95	9,162	30,059
154.44	8,725	25,497	154.96	9,171	30,150
154.45	8,733	25,585	154.97	9,179	30,242
154.46	8,742	25,672	154.98	9,188	30,334
154.47	8,750	25,760	154.99	9,196	30,426
154.48	8,759	25,847	155.00	9,205	30,518
154.49	8,767	25,935	155.01	9,214	30,610
154.50	8,776	26,022	155.02	9,223	30,702

Stage-Area-Storage for Pond B-20: Basin #20 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
155.03	9,231	30,794
155.04	9,240	30,887
155.05	9,249	30,979
155.06	9,258	31,072
155.07	9,266	31,164
155.08	9,275	31,257
155.09	9,284	31,350
155.10	9,293	31,443
155.11	9,301	31,536
155.12	9,310	31,629
155.13	9,319	31,722
155.14	9,328	31,815
155.15	9,336	31,908
155.16	9,345	32,002
155.17	9,354	32,095
155.18	9,363	32,189
155.19	9,371	32,282
155.20	9,380	32,376
155.21	9,389	32,470
155.22	9,398	32,564
155.23	9,406	32,658
155.24	9,415	32,752
155.25	9,424	32,846
155.26	9,433	32,941
155.27	9,442	33,035
155.28	9,450	33,129
155.29	9,459	33,224
155.30	9,468	33,319
155.31	9,477	33,413
155.32	9,485	33,508
155.33	9,494	33,603
155.34	9,503	33,698
155.35	9,512	33,793
155.36	9,520	33,888
155.37	9,529	33,984
155.38	9,538	34,079
155.39	9,547	34,174
155.40	9,555	34,270
155.41	9,564	34,365
155.42	9,573	34,461
155.43	9,582	34,557
155.44	9,590	34,653
155.45	9,599	34,749
155.46	9,608	34,845
155.47	9,617	34,941
155.48	9,625	35,037
155.49	9,634	35,133
155.50	9,643	35,230

Summary for Pond B-21: Basin #21

Inflow Area = 2.500 ac, 35.44% Impervious, Inflow Depth = 1.84" for Current 2 yr event
 Inflow = 4.64 cfs @ 12.18 hrs, Volume= 0.383 af
 Outflow = 0.18 cfs @ 15.27 hrs, Volume= 0.282 af, Atten= 96%, Lag= 185.8 min
 Primary = 0.18 cfs @ 15.27 hrs, Volume= 0.282 af
 Routed to Link PDA-2 : Proposed Drainage Area #2

Routing by Stor-Ind method, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 Peak Elev= 151.95' @ 15.27 hrs Surf.Area= 6,708 sf Storage= 11,461 cf

Plug-Flow detention time= 676.7 min calculated for 0.281 af (73% of inflow)
 Center-of-Mass det. time= 579.2 min (1,381.9 - 802.7)

Volume	Invert	Avail.Storage	Storage Description
#1	149.90'	42,109 cf	Custom Stage Data (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
149.90	0	0	0
150.00	4,848	242	242
151.00	5,776	5,312	5,554
152.00	6,761	6,269	11,823
153.00	7,802	7,282	19,104
154.00	8,900	8,351	27,455
155.00	10,054	9,477	36,932
155.50	10,653	5,177	42,109

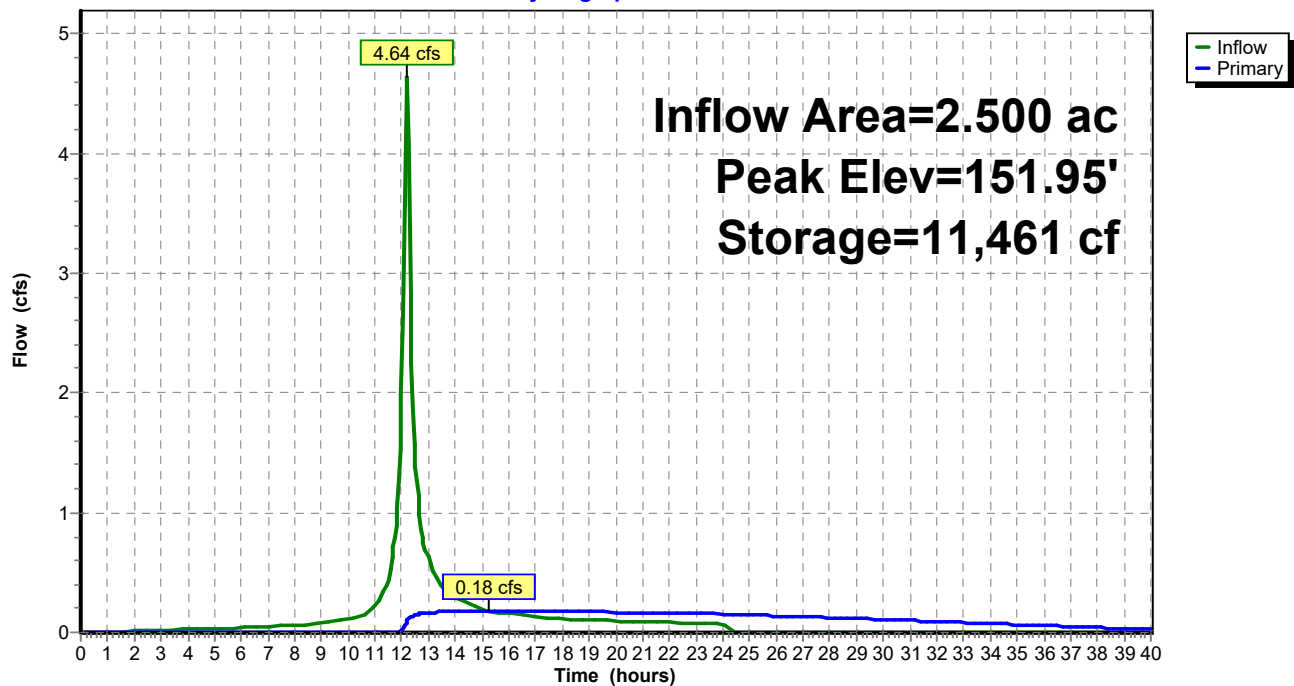
Device	Routing	Invert	Outlet Devices
#1	Primary	149.30'	18.0" Round Culvert L= 24.0' Ke= 0.500 Inlet / Outlet Invert= 149.30' / 148.32' S= 0.0408 '/' Cc= 0.900 n= 0.013, Flow Area= 1.77 sf
#2	Device 1	150.68'	2.5" Vert. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#3	Device 1	152.33'	4.0' long Sharp-Crested Rectangular Weir 2 End Contraction(s)
#4	Primary	154.16'	50.0' long + 3.0 ' SideZ x 5.0' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 Coef. (English) 2.34 2.50 2.70 2.68 2.68 2.66 2.65 2.65 2.65 2.65 2.67 2.66 2.68 2.70 2.74 2.79 2.88

Primary OutFlow Max=0.18 cfs @ 15.27 hrs HW=151.95' (Free Discharge)

1=Culvert (Passes 0.18 cfs of 11.72 cfs potential flow)
 2=Orifice/Grate (Orifice Controls 0.18 cfs @ 5.19 fps)
 3=Sharp-Crested Rectangular Weir(Controls 0.00 cfs)
 4=Broad-Crested Rectangular Weir(Controls 0.00 cfs)

Pond B-21: Basin #21

Hydrograph



Stage-Discharge for Pond B-21: Basin #21

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
149.90	0.00	150.42	0.00	150.94	0.06	151.46	0.13
149.91	0.00	150.43	0.00	150.95	0.07	151.47	0.14
149.92	0.00	150.44	0.00	150.96	0.07	151.48	0.14
149.93	0.00	150.45	0.00	150.97	0.07	151.49	0.14
149.94	0.00	150.46	0.00	150.98	0.07	151.50	0.14
149.95	0.00	150.47	0.00	150.99	0.07	151.51	0.14
149.96	0.00	150.48	0.00	151.00	0.08	151.52	0.14
149.97	0.00	150.49	0.00	151.01	0.08	151.53	0.14
149.98	0.00	150.50	0.00	151.02	0.08	151.54	0.14
149.99	0.00	150.51	0.00	151.03	0.08	151.55	0.14
150.00	0.00	150.52	0.00	151.04	0.08	151.56	0.14
150.01	0.00	150.53	0.00	151.05	0.08	151.57	0.15
150.02	0.00	150.54	0.00	151.06	0.09	151.58	0.15
150.03	0.00	150.55	0.00	151.07	0.09	151.59	0.15
150.04	0.00	150.56	0.00	151.08	0.09	151.60	0.15
150.05	0.00	150.57	0.00	151.09	0.09	151.61	0.15
150.06	0.00	150.58	0.00	151.10	0.09	151.62	0.15
150.07	0.00	150.59	0.00	151.11	0.09	151.63	0.15
150.08	0.00	150.60	0.00	151.12	0.10	151.64	0.15
150.09	0.00	150.61	0.00	151.13	0.10	151.65	0.15
150.10	0.00	150.62	0.00	151.14	0.10	151.66	0.15
150.11	0.00	150.63	0.00	151.15	0.10	151.67	0.15
150.12	0.00	150.64	0.00	151.16	0.10	151.68	0.16
150.13	0.00	150.65	0.00	151.17	0.10	151.69	0.16
150.14	0.00	150.66	0.00	151.18	0.10	151.70	0.16
150.15	0.00	150.67	0.00	151.19	0.10	151.71	0.16
150.16	0.00	150.68	0.00	151.20	0.11	151.72	0.16
150.17	0.00	150.69	0.00	151.21	0.11	151.73	0.16
150.18	0.00	150.70	0.00	151.22	0.11	151.74	0.16
150.19	0.00	150.71	0.00	151.23	0.11	151.75	0.16
150.20	0.00	150.72	0.00	151.24	0.11	151.76	0.16
150.21	0.00	150.73	0.00	151.25	0.11	151.77	0.16
150.22	0.00	150.74	0.01	151.26	0.11	151.78	0.16
150.23	0.00	150.75	0.01	151.27	0.11	151.79	0.16
150.24	0.00	150.76	0.01	151.28	0.12	151.80	0.17
150.25	0.00	150.77	0.01	151.29	0.12	151.81	0.17
150.26	0.00	150.78	0.02	151.30	0.12	151.82	0.17
150.27	0.00	150.79	0.02	151.31	0.12	151.83	0.17
150.28	0.00	150.80	0.02	151.32	0.12	151.84	0.17
150.29	0.00	150.81	0.03	151.33	0.12	151.85	0.17
150.30	0.00	150.82	0.03	151.34	0.12	151.86	0.17
150.31	0.00	150.83	0.03	151.35	0.12	151.87	0.17
150.32	0.00	150.84	0.04	151.36	0.12	151.88	0.17
150.33	0.00	150.85	0.04	151.37	0.13	151.89	0.17
150.34	0.00	150.86	0.05	151.38	0.13	151.90	0.17
150.35	0.00	150.87	0.05	151.39	0.13	151.91	0.17
150.36	0.00	150.88	0.05	151.40	0.13	151.92	0.17
150.37	0.00	150.89	0.05	151.41	0.13	151.93	0.18
150.38	0.00	150.90	0.06	151.42	0.13	151.94	0.18
150.39	0.00	150.91	0.06	151.43	0.13	151.95	0.18
150.40	0.00	150.92	0.06	151.44	0.13	151.96	0.18
150.41	0.00	150.93	0.06	151.45	0.13	151.97	0.18

Stage-Discharge for Pond B-21: Basin #21 (continued)

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
151.98	0.18	152.50	1.12	153.02	7.48	153.54	15.90
151.99	0.18	152.51	1.21	153.03	7.64	153.55	15.92
152.00	0.18	152.52	1.29	153.04	7.79	153.56	15.94
152.01	0.18	152.53	1.38	153.05	7.95	153.57	15.96
152.02	0.18	152.54	1.46	153.06	8.11	153.58	15.99
152.03	0.18	152.55	1.55	153.07	8.27	153.59	16.01
152.04	0.18	152.56	1.64	153.08	8.43	153.60	16.03
152.05	0.18	152.57	1.74	153.09	8.59	153.61	16.05
152.06	0.19	152.58	1.83	153.10	8.75	153.62	16.08
152.07	0.19	152.59	1.93	153.11	8.91	153.63	16.10
152.08	0.19	152.60	2.03	153.12	9.07	153.64	16.12
152.09	0.19	152.61	2.13	153.13	9.24	153.65	16.14
152.10	0.19	152.62	2.24	153.14	9.40	153.66	16.17
152.11	0.19	152.63	2.34	153.15	9.57	153.67	16.19
152.12	0.19	152.64	2.45	153.16	9.73	153.68	16.21
152.13	0.19	152.65	2.55	153.17	9.90	153.69	16.23
152.14	0.19	152.66	2.66	153.18	10.07	153.70	16.26
152.15	0.19	152.67	2.77	153.19	10.24	153.71	16.28
152.16	0.19	152.68	2.89	153.20	10.41	153.72	16.30
152.17	0.19	152.69	3.00	153.21	10.58	153.73	16.32
152.18	0.19	152.70	3.12	153.22	10.75	153.74	16.34
152.19	0.19	152.71	3.23	153.23	10.92	153.75	16.37
152.20	0.20	152.72	3.35	153.24	11.10	153.76	16.39
152.21	0.20	152.73	3.47	153.25	11.27	153.77	16.41
152.22	0.20	152.74	3.59	153.26	11.44	153.78	16.43
152.23	0.20	152.75	3.72	153.27	11.62	153.79	16.46
152.24	0.20	152.76	3.84	153.28	11.80	153.80	16.48
152.25	0.20	152.77	3.96	153.29	11.97	153.81	16.50
152.26	0.20	152.78	4.09	153.30	12.15	153.82	16.52
152.27	0.20	152.79	4.22	153.31	12.33	153.83	16.54
152.28	0.20	152.80	4.35	153.32	12.51	153.84	16.56
152.29	0.20	152.81	4.48	153.33	12.69	153.85	16.59
152.30	0.20	152.82	4.61	153.34	12.87	153.86	16.61
152.31	0.20	152.83	4.74	153.35	13.05	153.87	16.63
152.32	0.20	152.84	4.88	153.36	13.23	153.88	16.65
152.33	0.20	152.85	5.01	153.37	13.42	153.89	16.67
152.34	0.22	152.86	5.15	153.38	13.60	153.90	16.70
152.35	0.24	152.87	5.29	153.39	13.78	153.91	16.72
152.36	0.27	152.88	5.43	153.40	13.97	153.92	16.74
152.37	0.31	152.89	5.57	153.41	14.15	153.93	16.76
152.38	0.35	152.90	5.71	153.42	14.34	153.94	16.78
152.39	0.40	152.91	5.85	153.43	14.53	153.95	16.80
152.40	0.45	152.92	5.99	153.44	14.72	153.96	16.82
152.41	0.50	152.93	6.14	153.45	14.90	153.97	16.85
152.42	0.56	152.94	6.28	153.46	15.09	153.98	16.87
152.43	0.62	152.95	6.43	153.47	15.28	153.99	16.89
152.44	0.69	152.96	6.58	153.48	15.47	154.00	16.91
152.45	0.75	152.97	6.73	153.49	15.66	154.01	16.93
152.46	0.82	152.98	6.87	153.50	15.80	154.02	16.95
152.47	0.89	152.99	7.03	153.51	15.83	154.03	16.97
152.48	0.97	153.00	7.18	153.52	15.85	154.04	17.00
152.49	1.04	153.01	7.33	153.53	15.87	154.05	17.02

Stage-Discharge for Pond B-21: Basin #21 (continued)

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
154.06	17.04	154.58	53.10	155.10	146.75
154.07	17.06	154.59	54.54	155.11	148.87
154.08	17.08	154.60	56.00	155.12	151.01
154.09	17.10	154.61	57.49	155.13	153.15
154.10	17.12	154.62	59.01	155.14	155.31
154.11	17.14	154.63	60.55	155.15	157.48
154.12	17.17	154.64	62.12	155.16	159.67
154.13	17.19	154.65	63.71	155.17	161.81
154.14	17.21	154.66	65.33	155.18	163.96
154.15	17.23	154.67	66.98	155.19	166.13
154.16	17.25	154.68	68.66	155.20	168.30
154.17	17.39	154.69	70.36	155.21	170.49
154.18	17.62	154.70	72.09	155.22	172.68
154.19	17.92	154.71	73.84	155.23	174.89
154.20	18.27	154.72	75.62	155.24	177.11
154.21	18.67	154.73	77.43	155.25	179.33
154.22	19.10	154.74	79.26	155.26	181.57
154.23	19.57	154.75	81.13	155.27	183.82
154.24	20.07	154.76	83.02	155.28	186.08
154.25	20.61	154.77	84.66	155.29	188.35
154.26	21.18	154.78	86.32	155.30	190.63
154.27	21.77	154.79	88.00	155.31	192.91
154.28	22.39	154.80	89.68	155.32	195.21
154.29	23.04	154.81	91.38	155.33	197.52
154.30	23.71	154.82	93.10	155.34	199.84
154.31	24.41	154.83	94.82	155.35	202.17
154.32	25.13	154.84	96.56	155.36	204.51
154.33	25.87	154.85	98.31	155.37	206.89
154.34	26.64	154.86	100.08	155.38	209.29
154.35	27.42	154.87	101.86	155.39	211.70
154.36	28.23	154.88	103.65	155.40	214.11
154.37	29.10	154.89	105.45	155.41	216.54
154.38	29.99	154.90	107.27	155.42	218.98
154.39	30.91	154.91	109.09	155.43	221.43
154.40	31.85	154.92	110.94	155.44	223.89
154.41	32.82	154.93	112.79	155.45	226.35
154.42	33.81	154.94	114.65	155.46	228.83
154.43	34.83	154.95	116.53	155.47	231.33
154.44	35.88	154.96	118.42	155.48	233.83
154.45	36.94	154.97	120.36	155.49	236.34
154.46	38.04	154.98	122.31	155.50	238.86
154.47	39.15	154.99	124.27		
154.48	40.30	155.00	126.25		
154.49	41.46	155.01	128.24		
154.50	42.65	155.02	130.25		
154.51	43.87	155.03	132.27		
154.52	45.10	155.04	134.30		
154.53	46.37	155.05	136.34		
154.54	47.65	155.06	138.40		
154.55	48.96	155.07	140.47		
154.56	50.30	155.08	142.55		
154.57	51.69	155.09	144.65		

Stage-Area-Storage for Pond B-21: Basin #21

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
149.90	0	0	150.42	5,238	2,360
149.91	485	2	150.43	5,247	2,413
149.92	970	10	150.44	5,256	2,465
149.93	1,454	22	150.45	5,266	2,518
149.94	1,939	39	150.46	5,275	2,571
149.95	2,424	61	150.47	5,284	2,623
149.96	2,909	87	150.48	5,293	2,676
149.97	3,394	119	150.49	5,303	2,729
149.98	3,878	155	150.50	5,312	2,782
149.99	4,363	196	150.51	5,321	2,836
150.00	4,848	242	150.52	5,331	2,889
150.01	4,857	291	150.53	5,340	2,942
150.02	4,867	340	150.54	5,349	2,996
150.03	4,876	388	150.55	5,358	3,049
150.04	4,885	437	150.56	5,368	3,103
150.05	4,894	486	150.57	5,377	3,157
150.06	4,904	535	150.58	5,386	3,210
150.07	4,913	584	150.59	5,396	3,264
150.08	4,922	633	150.60	5,405	3,318
150.09	4,932	682	150.61	5,414	3,372
150.10	4,941	732	150.62	5,423	3,427
150.11	4,950	781	150.63	5,433	3,481
150.12	4,959	831	150.64	5,442	3,535
150.13	4,969	880	150.65	5,451	3,590
150.14	4,978	930	150.66	5,460	3,644
150.15	4,987	980	150.67	5,470	3,699
150.16	4,996	1,030	150.68	5,479	3,754
150.17	5,006	1,080	150.69	5,488	3,808
150.18	5,015	1,130	150.70	5,498	3,863
150.19	5,024	1,180	150.71	5,507	3,918
150.20	5,034	1,231	150.72	5,516	3,973
150.21	5,043	1,281	150.73	5,525	4,029
150.22	5,052	1,331	150.74	5,535	4,084
150.23	5,061	1,382	150.75	5,544	4,139
150.24	5,071	1,433	150.76	5,553	4,195
150.25	5,080	1,483	150.77	5,563	4,250
150.26	5,089	1,534	150.78	5,572	4,306
150.27	5,099	1,585	150.79	5,581	4,362
150.28	5,108	1,636	150.80	5,590	4,418
150.29	5,117	1,687	150.81	5,600	4,474
150.30	5,126	1,739	150.82	5,609	4,530
150.31	5,136	1,790	150.83	5,618	4,586
150.32	5,145	1,841	150.84	5,628	4,642
150.33	5,154	1,893	150.85	5,637	4,698
150.34	5,164	1,944	150.86	5,646	4,755
150.35	5,173	1,996	150.87	5,655	4,811
150.36	5,182	2,048	150.88	5,665	4,868
150.37	5,191	2,100	150.89	5,674	4,925
150.38	5,201	2,152	150.90	5,683	4,981
150.39	5,210	2,204	150.91	5,692	5,038
150.40	5,219	2,256	150.92	5,702	5,095
150.41	5,228	2,308	150.93	5,711	5,152

Stage-Area-Storage for Pond B-21: Basin #21 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
150.94	5,720	5,210	151.46	6,229	8,316
150.95	5,730	5,267	151.47	6,239	8,378
150.96	5,739	5,324	151.48	6,249	8,440
150.97	5,748	5,382	151.49	6,259	8,503
150.98	5,757	5,439	151.50	6,269	8,566
150.99	5,767	5,497	151.51	6,278	8,628
151.00	5,776	5,554	151.52	6,288	8,691
151.01	5,786	5,612	151.53	6,298	8,754
151.02	5,796	5,670	151.54	6,308	8,817
151.03	5,806	5,728	151.55	6,318	8,880
151.04	5,815	5,786	151.56	6,328	8,943
151.05	5,825	5,844	151.57	6,337	9,007
151.06	5,835	5,903	151.58	6,347	9,070
151.07	5,845	5,961	151.59	6,357	9,134
151.08	5,855	6,020	151.60	6,367	9,197
151.09	5,865	6,078	151.61	6,377	9,261
151.10	5,874	6,137	151.62	6,387	9,325
151.11	5,884	6,196	151.63	6,397	9,389
151.12	5,894	6,255	151.64	6,406	9,453
151.13	5,904	6,314	151.65	6,416	9,517
151.14	5,914	6,373	151.66	6,426	9,581
151.15	5,924	6,432	151.67	6,436	9,645
151.16	5,934	6,491	151.68	6,446	9,710
151.17	5,943	6,551	151.69	6,456	9,774
151.18	5,953	6,610	151.70	6,466	9,839
151.19	5,963	6,670	151.71	6,475	9,904
151.20	5,973	6,729	151.72	6,485	9,968
151.21	5,983	6,789	151.73	6,495	10,033
151.22	5,993	6,849	151.74	6,505	10,098
151.23	6,003	6,909	151.75	6,515	10,163
151.24	6,012	6,969	151.76	6,525	10,229
151.25	6,022	7,029	151.77	6,534	10,294
151.26	6,032	7,089	151.78	6,544	10,359
151.27	6,042	7,150	151.79	6,554	10,425
151.28	6,052	7,210	151.80	6,564	10,490
151.29	6,062	7,271	151.81	6,574	10,556
151.30	6,072	7,332	151.82	6,584	10,622
151.31	6,081	7,392	151.83	6,594	10,688
151.32	6,091	7,453	151.84	6,603	10,754
151.33	6,101	7,514	151.85	6,613	10,820
151.34	6,111	7,575	151.86	6,623	10,886
151.35	6,121	7,636	151.87	6,633	10,952
151.36	6,131	7,698	151.88	6,643	11,019
151.37	6,140	7,759	151.89	6,653	11,085
151.38	6,150	7,820	151.90	6,663	11,152
151.39	6,160	7,882	151.91	6,672	11,218
151.40	6,170	7,944	151.92	6,682	11,285
151.41	6,180	8,005	151.93	6,692	11,352
151.42	6,190	8,067	151.94	6,702	11,419
151.43	6,200	8,129	151.95	6,712	11,486
151.44	6,209	8,191	151.96	6,722	11,553
151.45	6,219	8,253	151.97	6,731	11,621

Stage-Area-Storage for Pond B-21: Basin #21 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
151.98	6,741	11,688	152.50	7,282	15,334
151.99	6,751	11,755	152.51	7,292	15,406
152.00	6,761	11,823	152.52	7,302	15,479
152.01	6,771	11,891	152.53	7,313	15,552
152.02	6,782	11,958	152.54	7,323	15,626
152.03	6,792	12,026	152.55	7,334	15,699
152.04	6,803	12,094	152.56	7,344	15,772
152.05	6,813	12,162	152.57	7,354	15,846
152.06	6,823	12,230	152.58	7,365	15,919
152.07	6,834	12,299	152.59	7,375	15,993
152.08	6,844	12,367	152.60	7,386	16,067
152.09	6,855	12,436	152.61	7,396	16,141
152.10	6,865	12,504	152.62	7,406	16,215
152.11	6,876	12,573	152.63	7,417	16,289
152.12	6,886	12,642	152.64	7,427	16,363
152.13	6,896	12,711	152.65	7,438	16,437
152.14	6,907	12,780	152.66	7,448	16,512
152.15	6,917	12,849	152.67	7,458	16,586
152.16	6,928	12,918	152.68	7,469	16,661
152.17	6,938	12,987	152.69	7,479	16,736
152.18	6,948	13,057	152.70	7,490	16,811
152.19	6,959	13,126	152.71	7,500	16,886
152.20	6,969	13,196	152.72	7,511	16,961
152.21	6,980	13,266	152.73	7,521	17,036
152.22	6,990	13,336	152.74	7,531	17,111
152.23	7,000	13,405	152.75	7,542	17,186
152.24	7,011	13,476	152.76	7,552	17,262
152.25	7,021	13,546	152.77	7,563	17,337
152.26	7,032	13,616	152.78	7,573	17,413
152.27	7,042	13,686	152.79	7,583	17,489
152.28	7,052	13,757	152.80	7,594	17,565
152.29	7,063	13,827	152.81	7,604	17,641
152.30	7,073	13,898	152.82	7,615	17,717
152.31	7,084	13,969	152.83	7,625	17,793
152.32	7,094	14,040	152.84	7,635	17,869
152.33	7,105	14,111	152.85	7,646	17,946
152.34	7,115	14,182	152.86	7,656	18,022
152.35	7,125	14,253	152.87	7,667	18,099
152.36	7,136	14,324	152.88	7,677	18,176
152.37	7,146	14,396	152.89	7,687	18,252
152.38	7,157	14,467	152.90	7,698	18,329
152.39	7,167	14,539	152.91	7,708	18,406
152.40	7,177	14,611	152.92	7,719	18,484
152.41	7,188	14,682	152.93	7,729	18,561
152.42	7,198	14,754	152.94	7,740	18,638
152.43	7,209	14,826	152.95	7,750	18,716
152.44	7,219	14,899	152.96	7,760	18,793
152.45	7,229	14,971	152.97	7,771	18,871
152.46	7,240	15,043	152.98	7,781	18,949
152.47	7,250	15,116	152.99	7,792	19,026
152.48	7,261	15,188	153.00	7,802	19,104
152.49	7,271	15,261	153.01	7,813	19,182

Stage-Area-Storage for Pond B-21: Basin #21 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
153.02	7,824	19,261	153.54	8,395	23,478
153.03	7,835	19,339	153.55	8,406	23,562
153.04	7,846	19,417	153.56	8,417	23,646
153.05	7,857	19,496	153.57	8,428	23,730
153.06	7,868	19,574	153.58	8,439	23,814
153.07	7,879	19,653	153.59	8,450	23,899
153.08	7,890	19,732	153.60	8,461	23,983
153.09	7,901	19,811	153.61	8,472	24,068
153.10	7,912	19,890	153.62	8,483	24,153
153.11	7,923	19,969	153.63	8,494	24,238
153.12	7,934	20,049	153.64	8,505	24,323
153.13	7,945	20,128	153.65	8,516	24,408
153.14	7,956	20,207	153.66	8,527	24,493
153.15	7,967	20,287	153.67	8,538	24,578
153.16	7,978	20,367	153.68	8,549	24,664
153.17	7,989	20,447	153.69	8,560	24,749
153.18	8,000	20,527	153.70	8,571	24,835
153.19	8,011	20,607	153.71	8,582	24,921
153.20	8,022	20,687	153.72	8,593	25,006
153.21	8,033	20,767	153.73	8,604	25,092
153.22	8,044	20,847	153.74	8,615	25,179
153.23	8,055	20,928	153.75	8,626	25,265
153.24	8,066	21,009	153.76	8,636	25,351
153.25	8,077	21,089	153.77	8,647	25,437
153.26	8,087	21,170	153.78	8,658	25,524
153.27	8,098	21,251	153.79	8,669	25,611
153.28	8,109	21,332	153.80	8,680	25,697
153.29	8,120	21,413	153.81	8,691	25,784
153.30	8,131	21,494	153.82	8,702	25,871
153.31	8,142	21,576	153.83	8,713	25,958
153.32	8,153	21,657	153.84	8,724	26,045
153.33	8,164	21,739	153.85	8,735	26,133
153.34	8,175	21,821	153.86	8,746	26,220
153.35	8,186	21,902	153.87	8,757	26,308
153.36	8,197	21,984	153.88	8,768	26,395
153.37	8,208	22,066	153.89	8,779	26,483
153.38	8,219	22,148	153.90	8,790	26,571
153.39	8,230	22,231	153.91	8,801	26,659
153.40	8,241	22,313	153.92	8,812	26,747
153.41	8,252	22,396	153.93	8,823	26,835
153.42	8,263	22,478	153.94	8,834	26,923
153.43	8,274	22,561	153.95	8,845	27,012
153.44	8,285	22,644	153.96	8,856	27,100
153.45	8,296	22,726	153.97	8,867	27,189
153.46	8,307	22,809	153.98	8,878	27,278
153.47	8,318	22,893	153.99	8,889	27,366
153.48	8,329	22,976	154.00	8,900	27,455
153.49	8,340	23,059	154.01	8,912	27,544
153.50	8,351	23,143	154.02	8,923	27,634
153.51	8,362	23,226	154.03	8,935	27,723
153.52	8,373	23,310	154.04	8,946	27,812
153.53	8,384	23,394	154.05	8,958	27,902

Stage-Area-Storage for Pond B-21: Basin #21 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
154.06	8,969	27,991	154.58	9,569	32,812
154.07	8,981	28,081	154.59	9,581	32,907
154.08	8,992	28,171	154.60	9,592	33,003
154.09	9,004	28,261	154.61	9,604	33,099
154.10	9,015	28,351	154.62	9,615	33,195
154.11	9,027	28,441	154.63	9,627	33,291
154.12	9,038	28,532	154.64	9,639	33,388
154.13	9,050	28,622	154.65	9,650	33,484
154.14	9,062	28,713	154.66	9,662	33,581
154.15	9,073	28,803	154.67	9,673	33,677
154.16	9,085	28,894	154.68	9,685	33,774
154.17	9,096	28,985	154.69	9,696	33,871
154.18	9,108	29,076	154.70	9,708	33,968
154.19	9,119	29,167	154.71	9,719	34,065
154.20	9,131	29,258	154.72	9,731	34,163
154.21	9,142	29,350	154.73	9,742	34,260
154.22	9,154	29,441	154.74	9,754	34,357
154.23	9,165	29,533	154.75	9,766	34,455
154.24	9,177	29,625	154.76	9,777	34,553
154.25	9,189	29,716	154.77	9,789	34,651
154.26	9,200	29,808	154.78	9,800	34,748
154.27	9,212	29,900	154.79	9,812	34,847
154.28	9,223	29,993	154.80	9,823	34,945
154.29	9,235	30,085	154.81	9,835	35,043
154.30	9,246	30,177	154.82	9,846	35,141
154.31	9,258	30,270	154.83	9,858	35,240
154.32	9,269	30,362	154.84	9,869	35,339
154.33	9,281	30,455	154.85	9,881	35,437
154.34	9,292	30,548	154.86	9,892	35,536
154.35	9,304	30,641	154.87	9,904	35,635
154.36	9,315	30,734	154.88	9,916	35,734
154.37	9,327	30,827	154.89	9,927	35,833
154.38	9,339	30,921	154.90	9,939	35,933
154.39	9,350	31,014	154.91	9,950	36,032
154.40	9,362	31,108	154.92	9,962	36,132
154.41	9,373	31,201	154.93	9,973	36,231
154.42	9,385	31,295	154.94	9,985	36,331
154.43	9,396	31,389	154.95	9,996	36,431
154.44	9,408	31,483	154.96	10,008	36,531
154.45	9,419	31,577	154.97	10,019	36,631
154.46	9,431	31,671	154.98	10,031	36,732
154.47	9,442	31,766	154.99	10,042	36,832
154.48	9,454	31,860	155.00	10,054	36,932
154.49	9,465	31,955	155.01	10,066	37,033
154.50	9,477	32,050	155.02	10,078	37,134
154.51	9,489	32,144	155.03	10,090	37,235
154.52	9,500	32,239	155.04	10,102	37,336
154.53	9,512	32,334	155.05	10,114	37,437
154.54	9,523	32,430	155.06	10,126	37,538
154.55	9,535	32,525	155.07	10,138	37,639
154.56	9,546	32,620	155.08	10,150	37,741
154.57	9,558	32,716	155.09	10,162	37,842

Stage-Area-Storage for Pond B-21: Basin #21 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
155.10	10,174	37,944
155.11	10,186	38,046
155.12	10,198	38,148
155.13	10,210	38,250
155.14	10,222	38,352
155.15	10,234	38,454
155.16	10,246	38,556
155.17	10,258	38,659
155.18	10,270	38,762
155.19	10,282	38,864
155.20	10,294	38,967
155.21	10,306	39,070
155.22	10,318	39,173
155.23	10,330	39,277
155.24	10,342	39,380
155.25	10,354	39,483
155.26	10,365	39,587
155.27	10,377	39,691
155.28	10,389	39,794
155.29	10,401	39,898
155.30	10,413	40,003
155.31	10,425	40,107
155.32	10,437	40,211
155.33	10,449	40,315
155.34	10,461	40,420
155.35	10,473	40,525
155.36	10,485	40,629
155.37	10,497	40,734
155.38	10,509	40,839
155.39	10,521	40,945
155.40	10,533	41,050
155.41	10,545	41,155
155.42	10,557	41,261
155.43	10,569	41,366
155.44	10,581	41,472
155.45	10,593	41,578
155.46	10,605	41,684
155.47	10,617	41,790
155.48	10,629	41,896
155.49	10,641	42,003
155.50	10,653	42,109

Summary for Pond B-22: Basin #22

Inflow Area = 2.460 ac, 33.05% Impervious, Inflow Depth = 1.79" for Current 2 yr event
 Inflow = 4.46 cfs @ 12.18 hrs, Volume= 0.367 af
 Outflow = 0.16 cfs @ 15.94 hrs, Volume= 0.262 af, Atten= 97%, Lag= 225.8 min
 Primary = 0.16 cfs @ 15.94 hrs, Volume= 0.262 af
 Routed to Link PDA-2 : Proposed Drainage Area #2

Routing by Stor-Ind method, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 Peak Elev= 149.16' @ 15.94 hrs Surf.Area= 8,105 sf Storage= 11,124 cf

Plug-Flow detention time= 711.4 min calculated for 0.262 af (71% of inflow)
 Center-of-Mass det. time= 608.8 min (1,414.3 - 805.4)

Volume	Invert	Avail.Storage	Storage Description
#1	147.30'	50,528 cf	Custom Stage Data (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
147.30	0	0	0
148.00	6,928	2,425	2,425
149.00	7,937	7,433	9,857
150.00	9,003	8,470	18,327
151.00	10,125	9,564	27,891
152.00	11,304	10,715	38,606
153.00	12,540	11,922	50,528

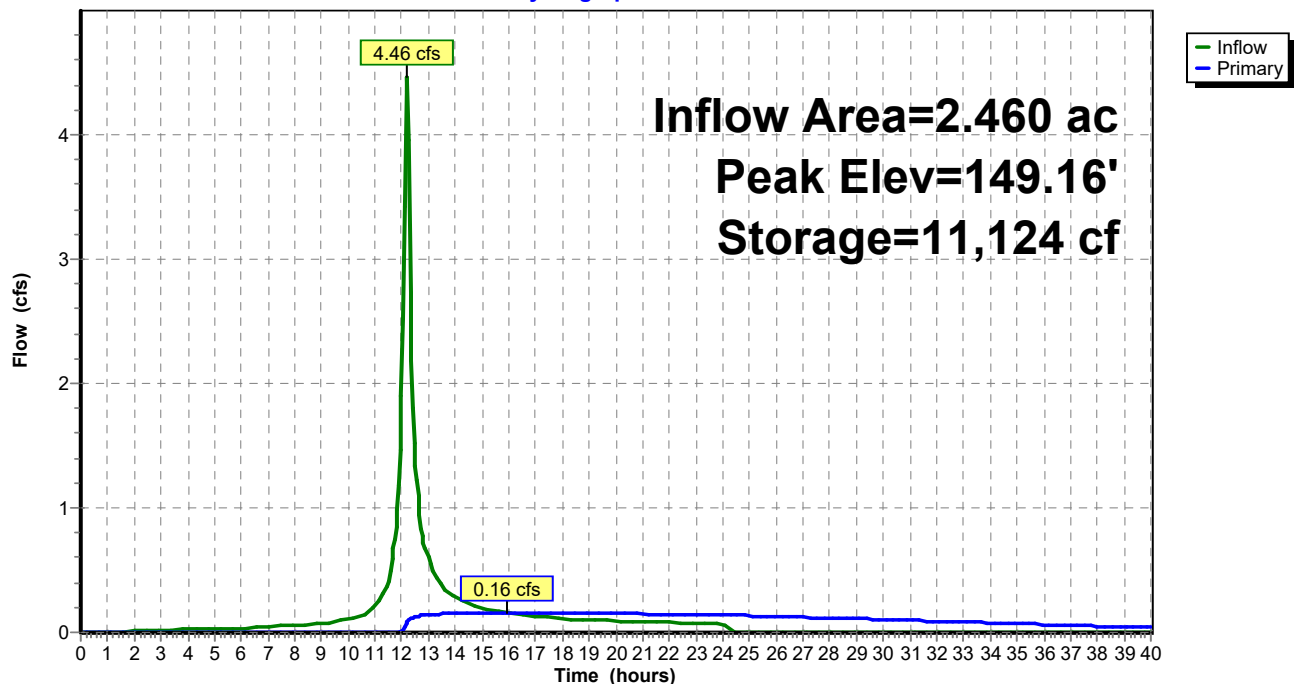
Device	Routing	Invert	Outlet Devices
#1	Primary	147.30'	18.0" Round Culvert L= 24.0' Ke= 0.500 Inlet / Outlet Invert= 147.30' / 146.20' S= 0.0458 '/' Cc= 0.900 n= 0.013, Flow Area= 1.77 sf
#2	Device 1	148.15'	2.5" Vert. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#3	Device 1	149.47'	4.0' long Sharp-Crested Rectangular Weir 2 End Contraction(s)
#4	Primary	152.95'	50.0' long + 3.0 '/' SideZ x 5.0' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 Coef. (English) 2.34 2.50 2.70 2.68 2.68 2.66 2.65 2.65 2.65 2.65 2.67 2.66 2.68 2.70 2.74 2.79 2.88

Primary OutFlow Max=0.16 cfs @ 15.94 hrs HW=149.16' (Free Discharge)

1=Culvert (Passes 0.16 cfs of 8.96 cfs potential flow)
 2=Orifice/Grate (Orifice Controls 0.16 cfs @ 4.58 fps)
 3=Sharp-Crested Rectangular Weir(Controls 0.00 cfs)
 4=Broad-Crested Rectangular Weir(Controls 0.00 cfs)

Pond B-22: Basin #22

Hydrograph



Stage-Discharge for Pond B-22: Basin #22

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
147.30	0.00	147.82	0.00	148.34	0.05	148.86	0.13
147.31	0.00	147.83	0.00	148.35	0.05	148.87	0.13
147.32	0.00	147.84	0.00	148.36	0.05	148.88	0.13
147.33	0.00	147.85	0.00	148.37	0.06	148.89	0.13
147.34	0.00	147.86	0.00	148.38	0.06	148.90	0.13
147.35	0.00	147.87	0.00	148.39	0.06	148.91	0.13
147.36	0.00	147.88	0.00	148.40	0.06	148.92	0.13
147.37	0.00	147.89	0.00	148.41	0.06	148.93	0.13
147.38	0.00	147.90	0.00	148.42	0.07	148.94	0.14
147.39	0.00	147.91	0.00	148.43	0.07	148.95	0.14
147.40	0.00	147.92	0.00	148.44	0.07	148.96	0.14
147.41	0.00	147.93	0.00	148.45	0.07	148.97	0.14
147.42	0.00	147.94	0.00	148.46	0.07	148.98	0.14
147.43	0.00	147.95	0.00	148.47	0.08	148.99	0.14
147.44	0.00	147.96	0.00	148.48	0.08	149.00	0.14
147.45	0.00	147.97	0.00	148.49	0.08	149.01	0.14
147.46	0.00	147.98	0.00	148.50	0.08	149.02	0.14
147.47	0.00	147.99	0.00	148.51	0.08	149.03	0.14
147.48	0.00	148.00	0.00	148.52	0.08	149.04	0.15
147.49	0.00	148.01	0.00	148.53	0.09	149.05	0.15
147.50	0.00	148.02	0.00	148.54	0.09	149.06	0.15
147.51	0.00	148.03	0.00	148.55	0.09	149.07	0.15
147.52	0.00	148.04	0.00	148.56	0.09	149.08	0.15
147.53	0.00	148.05	0.00	148.57	0.09	149.09	0.15
147.54	0.00	148.06	0.00	148.58	0.09	149.10	0.15
147.55	0.00	148.07	0.00	148.59	0.10	149.11	0.15
147.56	0.00	148.08	0.00	148.60	0.10	149.12	0.15
147.57	0.00	148.09	0.00	148.61	0.10	149.13	0.15
147.58	0.00	148.10	0.00	148.62	0.10	149.14	0.15
147.59	0.00	148.11	0.00	148.63	0.10	149.15	0.16
147.60	0.00	148.12	0.00	148.64	0.10	149.16	0.16
147.61	0.00	148.13	0.00	148.65	0.10	149.17	0.16
147.62	0.00	148.14	0.00	148.66	0.10	149.18	0.16
147.63	0.00	148.15	0.00	148.67	0.11	149.19	0.16
147.64	0.00	148.16	0.00	148.68	0.11	149.20	0.16
147.65	0.00	148.17	0.00	148.69	0.11	149.21	0.16
147.66	0.00	148.18	0.00	148.70	0.11	149.22	0.16
147.67	0.00	148.19	0.00	148.71	0.11	149.23	0.16
147.68	0.00	148.20	0.00	148.72	0.11	149.24	0.16
147.69	0.00	148.21	0.01	148.73	0.11	149.25	0.16
147.70	0.00	148.22	0.01	148.74	0.11	149.26	0.16
147.71	0.00	148.23	0.01	148.75	0.12	149.27	0.17
147.72	0.00	148.24	0.01	148.76	0.12	149.28	0.17
147.73	0.00	148.25	0.02	148.77	0.12	149.29	0.17
147.74	0.00	148.26	0.02	148.78	0.12	149.30	0.17
147.75	0.00	148.27	0.02	148.79	0.12	149.31	0.17
147.76	0.00	148.28	0.03	148.80	0.12	149.32	0.17
147.77	0.00	148.29	0.03	148.81	0.12	149.33	0.17
147.78	0.00	148.30	0.03	148.82	0.12	149.34	0.17
147.79	0.00	148.31	0.04	148.83	0.12	149.35	0.17
147.80	0.00	148.32	0.04	148.84	0.13	149.36	0.17
147.81	0.00	148.33	0.05	148.85	0.13	149.37	0.17

Stage-Discharge for Pond B-22: Basin #22 (continued)

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
149.38	0.17	149.90	3.82	150.42	11.78	150.94	14.46
149.39	0.17	149.91	3.94	150.43	11.95	150.95	14.49
149.40	0.18	149.92	4.07	150.44	12.13	150.96	14.51
149.41	0.18	149.93	4.20	150.45	12.31	150.97	14.54
149.42	0.18	149.94	4.33	150.46	12.49	150.98	14.56
149.43	0.18	149.95	4.46	150.47	12.67	150.99	14.59
149.44	0.18	149.96	4.59	150.48	12.85	151.00	14.61
149.45	0.18	149.97	4.72	150.49	13.03	151.01	14.64
149.46	0.18	149.98	4.86	150.50	13.21	151.02	14.66
149.47	0.18	149.99	4.99	150.51	13.35	151.03	14.69
149.48	0.19	150.00	5.13	150.52	13.37	151.04	14.71
149.49	0.22	150.01	5.27	150.53	13.40	151.05	14.74
149.50	0.25	150.02	5.41	150.54	13.43	151.06	14.76
149.51	0.29	150.03	5.55	150.55	13.45	151.07	14.79
149.52	0.33	150.04	5.69	150.56	13.48	151.08	14.81
149.53	0.38	150.05	5.83	150.57	13.51	151.09	14.84
149.54	0.43	150.06	5.97	150.58	13.53	151.10	14.86
149.55	0.48	150.07	6.12	150.59	13.56	151.11	14.88
149.56	0.54	150.08	6.26	150.60	13.59	151.12	14.91
149.57	0.60	150.09	6.41	150.61	13.61	151.13	14.93
149.58	0.66	150.10	6.56	150.62	13.64	151.14	14.96
149.59	0.73	150.11	6.71	150.63	13.67	151.15	14.98
149.60	0.80	150.12	6.86	150.64	13.69	151.16	15.01
149.61	0.87	150.13	7.01	150.65	13.72	151.17	15.03
149.62	0.95	150.14	7.16	150.66	13.75	151.18	15.05
149.63	1.02	150.15	7.31	150.67	13.77	151.19	15.08
149.64	1.10	150.16	7.46	150.68	13.80	151.20	15.10
149.65	1.18	150.17	7.62	150.69	13.83	151.21	15.13
149.66	1.27	150.18	7.78	150.70	13.85	151.22	15.15
149.67	1.35	150.19	7.93	150.71	13.88	151.23	15.17
149.68	1.44	150.20	8.09	150.72	13.90	151.24	15.20
149.69	1.53	150.21	8.25	150.73	13.93	151.25	15.22
149.70	1.62	150.22	8.41	150.74	13.96	151.26	15.24
149.71	1.72	150.23	8.57	150.75	13.98	151.27	15.27
149.72	1.81	150.24	8.73	150.76	14.01	151.28	15.29
149.73	1.91	150.25	8.89	150.77	14.03	151.29	15.32
149.74	2.01	150.26	9.05	150.78	14.06	151.30	15.34
149.75	2.11	150.27	9.22	150.79	14.08	151.31	15.36
149.76	2.21	150.28	9.38	150.80	14.11	151.32	15.39
149.77	2.32	150.29	9.55	150.81	14.14	151.33	15.41
149.78	2.43	150.30	9.71	150.82	14.16	151.34	15.43
149.79	2.53	150.31	9.88	150.83	14.19	151.35	15.46
149.80	2.64	150.32	10.05	150.84	14.21	151.36	15.48
149.81	2.75	150.33	10.22	150.85	14.24	151.37	15.50
149.82	2.87	150.34	10.39	150.86	14.26	151.38	15.53
149.83	2.98	150.35	10.56	150.87	14.29	151.39	15.55
149.84	3.10	150.36	10.73	150.88	14.31	151.40	15.57
149.85	3.21	150.37	10.90	150.89	14.34	151.41	15.60
149.86	3.33	150.38	11.08	150.90	14.36	151.42	15.62
149.87	3.45	150.39	11.25	150.91	14.39	151.43	15.64
149.88	3.57	150.40	11.43	150.92	14.41	151.44	15.67
149.89	3.70	150.41	11.60	150.93	14.44	151.45	15.69

Stage-Discharge for Pond B-22: Basin #22 (continued)

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
151.46	15.71	151.98	16.87	152.50	17.95
151.47	15.74	151.99	16.89	152.51	17.97
151.48	15.76	152.00	16.91	152.52	17.99
151.49	15.78	152.01	16.93	152.53	18.01
151.50	15.80	152.02	16.95	152.54	18.03
151.51	15.83	152.03	16.97	152.55	18.05
151.52	15.85	152.04	17.00	152.56	18.07
151.53	15.87	152.05	17.02	152.57	18.09
151.54	15.90	152.06	17.04	152.58	18.11
151.55	15.92	152.07	17.06	152.59	18.13
151.56	15.94	152.08	17.08	152.60	18.15
151.57	15.96	152.09	17.10	152.61	18.17
151.58	15.99	152.10	17.12	152.62	18.19
151.59	16.01	152.11	17.14	152.63	18.21
151.60	16.03	152.12	17.17	152.64	18.23
151.61	16.05	152.13	17.19	152.65	18.25
151.62	16.08	152.14	17.21	152.66	18.27
151.63	16.10	152.15	17.23	152.67	18.29
151.64	16.12	152.16	17.25	152.68	18.31
151.65	16.14	152.17	17.27	152.69	18.33
151.66	16.17	152.18	17.29	152.70	18.35
151.67	16.19	152.19	17.31	152.71	18.37
151.68	16.21	152.20	17.33	152.72	18.39
151.69	16.23	152.21	17.35	152.73	18.41
151.70	16.26	152.22	17.38	152.74	18.43
151.71	16.28	152.23	17.40	152.75	18.45
151.72	16.30	152.24	17.42	152.76	18.47
151.73	16.32	152.25	17.44	152.77	18.49
151.74	16.34	152.26	17.46	152.78	18.51
151.75	16.37	152.27	17.48	152.79	18.52
151.76	16.39	152.28	17.50	152.80	18.54
151.77	16.41	152.29	17.52	152.81	18.56
151.78	16.43	152.30	17.54	152.82	18.58
151.79	16.46	152.31	17.56	152.83	18.60
151.80	16.48	152.32	17.58	152.84	18.62
151.81	16.50	152.33	17.60	152.85	18.64
151.82	16.52	152.34	17.62	152.86	18.66
151.83	16.54	152.35	17.64	152.87	18.68
151.84	16.56	152.36	17.66	152.88	18.70
151.85	16.59	152.37	17.69	152.89	18.72
151.86	16.61	152.38	17.71	152.90	18.74
151.87	16.63	152.39	17.73	152.91	18.76
151.88	16.65	152.40	17.75	152.92	18.78
151.89	16.67	152.41	17.77	152.93	18.80
151.90	16.70	152.42	17.79	152.94	18.82
151.91	16.72	152.43	17.81	152.95	18.83
151.92	16.74	152.44	17.83	152.96	18.97
151.93	16.76	152.45	17.85	152.97	19.20
151.94	16.78	152.46	17.87	152.98	19.50
151.95	16.80	152.47	17.89	152.99	19.85
151.96	16.82	152.48	17.91	153.00	20.24
151.97	16.85	152.49	17.93		

Stage-Area-Storage for Pond B-22: Basin #22

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
147.30	0	0	147.82	5,147	1,338
147.31	99	0	147.83	5,245	1,390
147.32	198	2	147.84	5,344	1,443
147.33	297	4	147.85	5,443	1,497
147.34	396	8	147.86	5,542	1,552
147.35	495	12	147.87	5,641	1,608
147.36	594	18	147.88	5,740	1,665
147.37	693	24	147.89	5,839	1,723
147.38	792	32	147.90	5,938	1,781
147.39	891	40	147.91	6,037	1,841
147.40	990	49	147.92	6,136	1,902
147.41	1,089	60	147.93	6,235	1,964
147.42	1,188	71	147.94	6,334	2,027
147.43	1,287	84	147.95	6,433	2,091
147.44	1,386	97	147.96	6,532	2,156
147.45	1,485	111	147.97	6,631	2,221
147.46	1,584	127	147.98	6,730	2,288
147.47	1,683	143	147.99	6,829	2,356
147.48	1,781	160	148.00	6,928	2,425
147.49	1,880	179	148.01	6,938	2,494
147.50	1,979	198	148.02	6,948	2,564
147.51	2,078	218	148.03	6,958	2,633
147.52	2,177	240	148.04	6,968	2,703
147.53	2,276	262	148.05	6,978	2,772
147.54	2,375	285	148.06	6,989	2,842
147.55	2,474	309	148.07	6,999	2,912
147.56	2,573	335	148.08	7,009	2,982
147.57	2,672	361	148.09	7,019	3,052
147.58	2,771	388	148.10	7,029	3,123
147.59	2,870	416	148.11	7,039	3,193
147.60	2,969	445	148.12	7,049	3,263
147.61	3,068	476	148.13	7,059	3,334
147.62	3,167	507	148.14	7,069	3,405
147.63	3,266	539	148.15	7,079	3,475
147.64	3,365	572	148.16	7,089	3,546
147.65	3,464	606	148.17	7,100	3,617
147.66	3,563	641	148.18	7,110	3,688
147.67	3,662	677	148.19	7,120	3,759
147.68	3,761	715	148.20	7,130	3,831
147.69	3,860	753	148.21	7,140	3,902
147.70	3,959	792	148.22	7,150	3,973
147.71	4,058	832	148.23	7,160	4,045
147.72	4,157	873	148.24	7,170	4,117
147.73	4,256	915	148.25	7,180	4,188
147.74	4,355	958	148.26	7,190	4,260
147.75	4,454	1,002	148.27	7,200	4,332
147.76	4,553	1,047	148.28	7,211	4,404
147.77	4,652	1,093	148.29	7,221	4,476
147.78	4,751	1,140	148.30	7,231	4,549
147.79	4,850	1,188	148.31	7,241	4,621
147.80	4,949	1,237	148.32	7,251	4,693
147.81	5,048	1,287	148.33	7,261	4,766

Stage-Area-Storage for Pond B-22: Basin #22 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
148.34	7,271	4,839	148.86	7,796	8,756
148.35	7,281	4,911	148.87	7,806	8,834
148.36	7,291	4,984	148.88	7,816	8,912
148.37	7,301	5,057	148.89	7,826	8,990
148.38	7,311	5,130	148.90	7,836	9,069
148.39	7,322	5,203	148.91	7,846	9,147
148.40	7,332	5,277	148.92	7,856	9,226
148.41	7,342	5,350	148.93	7,866	9,304
148.42	7,352	5,424	148.94	7,876	9,383
148.43	7,362	5,497	148.95	7,887	9,462
148.44	7,372	5,571	148.96	7,897	9,541
148.45	7,382	5,645	148.97	7,907	9,620
148.46	7,392	5,718	148.98	7,917	9,699
148.47	7,402	5,792	148.99	7,927	9,778
148.48	7,412	5,866	149.00	7,937	9,857
148.49	7,422	5,941	149.01	7,948	9,937
148.50	7,433	6,015	149.02	7,958	10,016
148.51	7,443	6,089	149.03	7,969	10,096
148.52	7,453	6,164	149.04	7,980	10,176
148.53	7,463	6,238	149.05	7,990	10,255
148.54	7,473	6,313	149.06	8,001	10,335
148.55	7,483	6,388	149.07	8,012	10,416
148.56	7,493	6,463	149.08	8,022	10,496
148.57	7,503	6,538	149.09	8,033	10,576
148.58	7,513	6,613	149.10	8,044	10,656
148.59	7,523	6,688	149.11	8,054	10,737
148.60	7,533	6,763	149.12	8,065	10,817
148.61	7,543	6,839	149.13	8,076	10,898
148.62	7,554	6,914	149.14	8,086	10,979
148.63	7,564	6,990	149.15	8,097	11,060
148.64	7,574	7,065	149.16	8,108	11,141
148.65	7,584	7,141	149.17	8,118	11,222
148.66	7,594	7,217	149.18	8,129	11,303
148.67	7,604	7,293	149.19	8,140	11,385
148.68	7,614	7,369	149.20	8,150	11,466
148.69	7,624	7,445	149.21	8,161	11,548
148.70	7,634	7,522	149.22	8,172	11,629
148.71	7,644	7,598	149.23	8,182	11,711
148.72	7,654	7,674	149.24	8,193	11,793
148.73	7,665	7,751	149.25	8,204	11,875
148.74	7,675	7,828	149.26	8,214	11,957
148.75	7,685	7,905	149.27	8,225	12,039
148.76	7,695	7,981	149.28	8,235	12,121
148.77	7,705	8,058	149.29	8,246	12,204
148.78	7,715	8,136	149.30	8,257	12,286
148.79	7,725	8,213	149.31	8,267	12,369
148.80	7,735	8,290	149.32	8,278	12,452
148.81	7,745	8,367	149.33	8,289	12,535
148.82	7,755	8,445	149.34	8,299	12,617
148.83	7,765	8,523	149.35	8,310	12,701
148.84	7,776	8,600	149.36	8,321	12,784
148.85	7,786	8,678	149.37	8,331	12,867

Stage-Area-Storage for Pond B-22: Basin #22 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
149.38	8,342	12,950	149.90	8,896	17,432
149.39	8,353	13,034	149.91	8,907	17,521
149.40	8,363	13,117	149.92	8,918	17,610
149.41	8,374	13,201	149.93	8,928	17,700
149.42	8,385	13,285	149.94	8,939	17,789
149.43	8,395	13,369	149.95	8,950	17,878
149.44	8,406	13,453	149.96	8,960	17,968
149.45	8,417	13,537	149.97	8,971	18,058
149.46	8,427	13,621	149.98	8,982	18,147
149.47	8,438	13,705	149.99	8,992	18,237
149.48	8,449	13,790	150.00	9,003	18,327
149.49	8,459	13,874	150.01	9,014	18,417
149.50	8,470	13,959	150.02	9,025	18,508
149.51	8,481	14,044	150.03	9,037	18,598
149.52	8,491	14,129	150.04	9,048	18,688
149.53	8,502	14,214	150.05	9,059	18,779
149.54	8,513	14,299	150.06	9,070	18,869
149.55	8,523	14,384	150.07	9,082	18,960
149.56	8,534	14,469	150.08	9,093	19,051
149.57	8,545	14,555	150.09	9,104	19,142
149.58	8,555	14,640	150.10	9,115	19,233
149.59	8,566	14,726	150.11	9,126	19,324
149.60	8,577	14,811	150.12	9,138	19,416
149.61	8,587	14,897	150.13	9,149	19,507
149.62	8,598	14,983	150.14	9,160	19,599
149.63	8,609	15,069	150.15	9,171	19,690
149.64	8,619	15,155	150.16	9,183	19,782
149.65	8,630	15,242	150.17	9,194	19,874
149.66	8,641	15,328	150.18	9,205	19,966
149.67	8,651	15,414	150.19	9,216	20,058
149.68	8,662	15,501	150.20	9,227	20,150
149.69	8,673	15,588	150.21	9,239	20,243
149.70	8,683	15,674	150.22	9,250	20,335
149.71	8,694	15,761	150.23	9,261	20,428
149.72	8,705	15,848	150.24	9,272	20,520
149.73	8,715	15,935	150.25	9,284	20,613
149.74	8,726	16,023	150.26	9,295	20,706
149.75	8,737	16,110	150.27	9,306	20,799
149.76	8,747	16,197	150.28	9,317	20,892
149.77	8,758	16,285	150.29	9,328	20,985
149.78	8,768	16,372	150.30	9,340	21,079
149.79	8,779	16,460	150.31	9,351	21,172
149.80	8,790	16,548	150.32	9,362	21,266
149.81	8,800	16,636	150.33	9,373	21,359
149.82	8,811	16,724	150.34	9,384	21,453
149.83	8,822	16,812	150.35	9,396	21,547
149.84	8,832	16,900	150.36	9,407	21,641
149.85	8,843	16,989	150.37	9,418	21,735
149.86	8,854	17,077	150.38	9,429	21,829
149.87	8,864	17,166	150.39	9,441	21,924
149.88	8,875	17,255	150.40	9,452	22,018
149.89	8,886	17,343	150.41	9,463	22,113

Stage-Area-Storage for Pond B-22: Basin #22 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
150.42	9,474	22,208	150.94	10,058	27,286
150.43	9,485	22,302	150.95	10,069	27,386
150.44	9,497	22,397	150.96	10,080	27,487
150.45	9,508	22,492	150.97	10,091	27,588
150.46	9,519	22,587	150.98	10,103	27,689
150.47	9,530	22,683	150.99	10,114	27,790
150.48	9,542	22,778	151.00	10,125	27,891
150.49	9,553	22,873	151.01	10,137	27,993
150.50	9,564	22,969	151.02	10,149	28,094
150.51	9,575	23,065	151.03	10,160	28,196
150.52	9,586	23,161	151.04	10,172	28,297
150.53	9,598	23,256	151.05	10,184	28,399
150.54	9,609	23,353	151.06	10,196	28,501
150.55	9,620	23,449	151.07	10,208	28,603
150.56	9,631	23,545	151.08	10,219	28,705
150.57	9,643	23,641	151.09	10,231	28,807
150.58	9,654	23,738	151.10	10,243	28,910
150.59	9,665	23,834	151.11	10,255	29,012
150.60	9,676	23,931	151.12	10,266	29,115
150.61	9,687	24,028	151.13	10,278	29,218
150.62	9,699	24,125	151.14	10,290	29,320
150.63	9,710	24,222	151.15	10,302	29,423
150.64	9,721	24,319	151.16	10,314	29,526
150.65	9,732	24,416	151.17	10,325	29,630
150.66	9,744	24,514	151.18	10,337	29,733
150.67	9,755	24,611	151.19	10,349	29,836
150.68	9,766	24,709	151.20	10,361	29,940
150.69	9,777	24,806	151.21	10,373	30,044
150.70	9,788	24,904	151.22	10,384	30,147
150.71	9,800	25,002	151.23	10,396	30,251
150.72	9,811	25,100	151.24	10,408	30,355
150.73	9,822	25,198	151.25	10,420	30,459
150.74	9,833	25,297	151.26	10,432	30,564
150.75	9,845	25,395	151.27	10,443	30,668
150.76	9,856	25,494	151.28	10,455	30,773
150.77	9,867	25,592	151.29	10,467	30,877
150.78	9,878	25,691	151.30	10,479	30,982
150.79	9,889	25,790	151.31	10,490	31,087
150.80	9,901	25,889	151.32	10,502	31,192
150.81	9,912	25,988	151.33	10,514	31,297
150.82	9,923	26,087	151.34	10,526	31,402
150.83	9,934	26,186	151.35	10,538	31,507
150.84	9,945	26,286	151.36	10,549	31,613
150.85	9,957	26,385	151.37	10,561	31,718
150.86	9,968	26,485	151.38	10,573	31,824
150.87	9,979	26,585	151.39	10,585	31,930
150.88	9,990	26,684	151.40	10,597	32,036
150.89	10,002	26,784	151.41	10,608	32,142
150.90	10,013	26,884	151.42	10,620	32,248
150.91	10,024	26,985	151.43	10,632	32,354
150.92	10,035	27,085	151.44	10,644	32,460
150.93	10,046	27,185	151.45	10,656	32,567

Stage-Area-Storage for Pond B-22: Basin #22 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
151.46	10,667	32,674	151.98	11,280	38,380
151.47	10,679	32,780	151.99	11,292	38,493
151.48	10,691	32,887	152.00	11,304	38,606
151.49	10,703	32,994	152.01	11,316	38,719
151.50	10,715	33,101	152.02	11,329	38,832
151.51	10,726	33,208	152.03	11,341	38,945
151.52	10,738	33,316	152.04	11,353	39,059
151.53	10,750	33,423	152.05	11,366	39,173
151.54	10,762	33,531	152.06	11,378	39,286
151.55	10,773	33,638	152.07	11,391	39,400
151.56	10,785	33,746	152.08	11,403	39,514
151.57	10,797	33,854	152.09	11,415	39,628
151.58	10,809	33,962	152.10	11,428	39,742
151.59	10,821	34,070	152.11	11,440	39,857
151.60	10,832	34,179	152.12	11,452	39,971
151.61	10,844	34,287	152.13	11,465	40,086
151.62	10,856	34,395	152.14	11,477	40,200
151.63	10,868	34,504	152.15	11,489	40,315
151.64	10,880	34,613	152.16	11,502	40,430
151.65	10,891	34,722	152.17	11,514	40,545
151.66	10,903	34,831	152.18	11,526	40,661
151.67	10,915	34,940	152.19	11,539	40,776
151.68	10,927	35,049	152.20	11,551	40,891
151.69	10,939	35,158	152.21	11,564	41,007
151.70	10,950	35,268	152.22	11,576	41,123
151.71	10,962	35,377	152.23	11,588	41,238
151.72	10,974	35,487	152.24	11,601	41,354
151.73	10,986	35,597	152.25	11,613	41,470
151.74	10,997	35,707	152.26	11,625	41,587
151.75	11,009	35,817	152.27	11,638	41,703
151.76	11,021	35,927	152.28	11,650	41,819
151.77	11,033	36,037	152.29	11,662	41,936
151.78	11,045	36,147	152.30	11,675	42,053
151.79	11,056	36,258	152.31	11,687	42,169
151.80	11,068	36,369	152.32	11,700	42,286
151.81	11,080	36,479	152.33	11,712	42,403
151.82	11,092	36,590	152.34	11,724	42,521
151.83	11,104	36,701	152.35	11,737	42,638
151.84	11,115	36,812	152.36	11,749	42,755
151.85	11,127	36,923	152.37	11,761	42,873
151.86	11,139	37,035	152.38	11,774	42,991
151.87	11,151	37,146	152.39	11,786	43,108
151.88	11,163	37,258	152.40	11,798	43,226
151.89	11,174	37,369	152.41	11,811	43,344
151.90	11,186	37,481	152.42	11,823	43,462
151.91	11,198	37,593	152.43	11,835	43,581
151.92	11,210	37,705	152.44	11,848	43,699
151.93	11,221	37,817	152.45	11,860	43,818
151.94	11,233	37,930	152.46	11,873	43,936
151.95	11,245	38,042	152.47	11,885	44,055
151.96	11,257	38,155	152.48	11,897	44,174
151.97	11,269	38,267	152.49	11,910	44,293

Stage-Area-Storage for Pond B-22: Basin #22 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
152.50	11,922	44,412
152.51	11,934	44,532
152.52	11,947	44,651
152.53	11,959	44,771
152.54	11,971	44,890
152.55	11,984	45,010
152.56	11,996	45,130
152.57	12,009	45,250
152.58	12,021	45,370
152.59	12,033	45,490
152.60	12,046	45,611
152.61	12,058	45,731
152.62	12,070	45,852
152.63	12,083	45,973
152.64	12,095	46,093
152.65	12,107	46,215
152.66	12,120	46,336
152.67	12,132	46,457
152.68	12,144	46,578
152.69	12,157	46,700
152.70	12,169	46,821
152.71	12,182	46,943
152.72	12,194	47,065
152.73	12,206	47,187
152.74	12,219	47,309
152.75	12,231	47,431
152.76	12,243	47,554
152.77	12,256	47,676
152.78	12,268	47,799
152.79	12,280	47,922
152.80	12,293	48,045
152.81	12,305	48,168
152.82	12,318	48,291
152.83	12,330	48,414
152.84	12,342	48,537
152.85	12,355	48,661
152.86	12,367	48,784
152.87	12,379	48,908
152.88	12,392	49,032
152.89	12,404	49,156
152.90	12,416	49,280
152.91	12,429	49,404
152.92	12,441	49,529
152.93	12,453	49,653
152.94	12,466	49,778
152.95	12,478	49,902
152.96	12,491	50,027
152.97	12,503	50,152
152.98	12,515	50,277
152.99	12,528	50,402
153.00	12,540	50,528

Summary for Pond B-23: Basin #23

Inflow Area = 2.449 ac, 33.56% Impervious, Inflow Depth = 1.80" for Current 2 yr event
 Inflow = 4.46 cfs @ 12.18 hrs, Volume= 0.368 af
 Outflow = 0.37 cfs @ 13.50 hrs, Volume= 0.283 af, Atten= 92%, Lag= 79.3 min
 Primary = 0.37 cfs @ 13.50 hrs, Volume= 0.283 af
 Routed to Link PDA-2 : Proposed Drainage Area #2

Routing by Stor-Ind method, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 Peak Elev= 146.23' @ 13.50 hrs Surf.Area= 6,776 sf Storage= 9,497 cf

Plug-Flow detention time= 372.2 min calculated for 0.283 af (77% of inflow)
 Center-of-Mass det. time= 280.0 min (1,084.9 - 804.8)

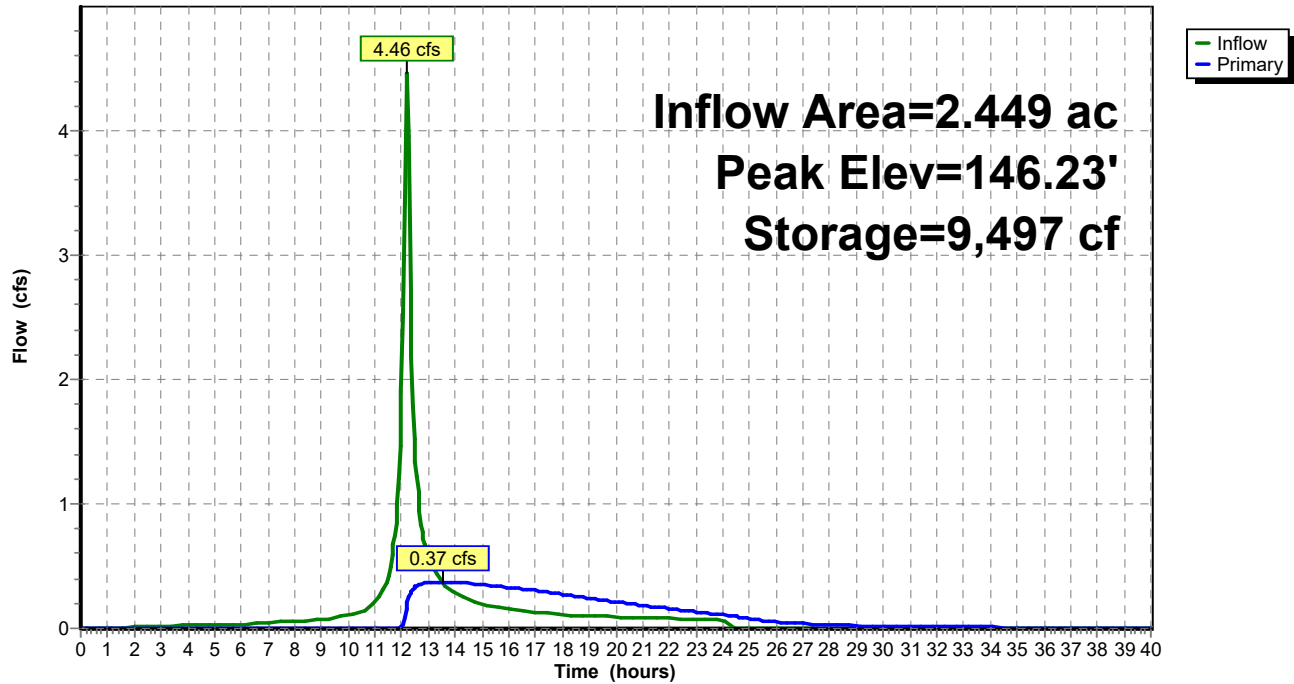
Volume	Invert	Avail.Storage	Storage Description
#1	144.30'	23,175 cf	Custom Stage Data (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
144.30	0	0	0
145.00	5,512	1,929	1,929
146.00	6,527	6,020	7,949
147.00	7,599	7,063	15,012
148.00	8,727	8,163	23,175

Device	Routing	Invert	Outlet Devices
#1	Primary	144.30'	18.0" Round Culvert L= 45.0' Ke= 0.500 Inlet / Outlet Invert= 144.30' / 141.44' S= 0.0636 '/' Cc= 0.900 n= 0.013, Flow Area= 1.77 sf
#2	Device 1	145.28'	4.0" Vert. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#3	Device 1	146.50'	4.0' long Sharp-Crested Rectangular Weir 2 End Contraction(s)
#4	Primary	147.95'	50.0' long + 3.0 '/' SideZ x 5.0' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 Coef. (English) 2.34 2.50 2.70 2.68 2.68 2.66 2.65 2.65 2.65 2.65 2.67 2.66 2.68 2.70 2.74 2.79 2.88

Primary OutFlow Max=0.37 cfs @ 13.50 hrs HW=146.23' (Free Discharge)

1=Culvert (Passes 0.37 cfs of 9.25 cfs potential flow)
 2=Orifice/Grate (Orifice Controls 0.37 cfs @ 4.27 fps)
 3=Sharp-Crested Rectangular Weir(Controls 0.00 cfs)
 4=Broad-Crested Rectangular Weir(Controls 0.00 cfs)

Pond B-23: Basin #23**Hydrograph**

Stage-Discharge for Pond B-23: Basin #23

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
144.30	0.00	144.82	0.00	145.34	0.01	145.86	0.27
144.31	0.00	144.83	0.00	145.35	0.01	145.87	0.27
144.32	0.00	144.84	0.00	145.36	0.02	145.88	0.28
144.33	0.00	144.85	0.00	145.37	0.02	145.89	0.28
144.34	0.00	144.86	0.00	145.38	0.02	145.90	0.28
144.35	0.00	144.87	0.00	145.39	0.03	145.91	0.29
144.36	0.00	144.88	0.00	145.40	0.03	145.92	0.29
144.37	0.00	144.89	0.00	145.41	0.04	145.93	0.29
144.38	0.00	144.90	0.00	145.42	0.04	145.94	0.30
144.39	0.00	144.91	0.00	145.43	0.05	145.95	0.30
144.40	0.00	144.92	0.00	145.44	0.06	145.96	0.30
144.41	0.00	144.93	0.00	145.45	0.06	145.97	0.30
144.42	0.00	144.94	0.00	145.46	0.07	145.98	0.31
144.43	0.00	144.95	0.00	145.47	0.08	145.99	0.31
144.44	0.00	144.96	0.00	145.48	0.08	146.00	0.31
144.45	0.00	144.97	0.00	145.49	0.09	146.01	0.32
144.46	0.00	144.98	0.00	145.50	0.10	146.02	0.32
144.47	0.00	144.99	0.00	145.51	0.10	146.03	0.32
144.48	0.00	145.00	0.00	145.52	0.11	146.04	0.32
144.49	0.00	145.01	0.00	145.53	0.12	146.05	0.33
144.50	0.00	145.02	0.00	145.54	0.13	146.06	0.33
144.51	0.00	145.03	0.00	145.55	0.13	146.07	0.33
144.52	0.00	145.04	0.00	145.56	0.14	146.08	0.33
144.53	0.00	145.05	0.00	145.57	0.15	146.09	0.34
144.54	0.00	145.06	0.00	145.58	0.15	146.10	0.34
144.55	0.00	145.07	0.00	145.59	0.16	146.11	0.34
144.56	0.00	145.08	0.00	145.60	0.17	146.12	0.34
144.57	0.00	145.09	0.00	145.61	0.17	146.13	0.35
144.58	0.00	145.10	0.00	145.62	0.17	146.14	0.35
144.59	0.00	145.11	0.00	145.63	0.18	146.15	0.35
144.60	0.00	145.12	0.00	145.64	0.18	146.16	0.35
144.61	0.00	145.13	0.00	145.65	0.19	146.17	0.36
144.62	0.00	145.14	0.00	145.66	0.19	146.18	0.36
144.63	0.00	145.15	0.00	145.67	0.20	146.19	0.36
144.64	0.00	145.16	0.00	145.68	0.20	146.20	0.36
144.65	0.00	145.17	0.00	145.69	0.21	146.21	0.37
144.66	0.00	145.18	0.00	145.70	0.21	146.22	0.37
144.67	0.00	145.19	0.00	145.71	0.22	146.23	0.37
144.68	0.00	145.20	0.00	145.72	0.22	146.24	0.37
144.69	0.00	145.21	0.00	145.73	0.22	146.25	0.38
144.70	0.00	145.22	0.00	145.74	0.23	146.26	0.38
144.71	0.00	145.23	0.00	145.75	0.23	146.27	0.38
144.72	0.00	145.24	0.00	145.76	0.24	146.28	0.38
144.73	0.00	145.25	0.00	145.77	0.24	146.29	0.39
144.74	0.00	145.26	0.00	145.78	0.24	146.30	0.39
144.75	0.00	145.27	0.00	145.79	0.25	146.31	0.39
144.76	0.00	145.28	0.00	145.80	0.25	146.32	0.39
144.77	0.00	145.29	0.00	145.81	0.25	146.33	0.39
144.78	0.00	145.30	0.00	145.82	0.26	146.34	0.40
144.79	0.00	145.31	0.00	145.83	0.26	146.35	0.40
144.80	0.00	145.32	0.00	145.84	0.26	146.36	0.40
144.81	0.00	145.33	0.01	145.85	0.27	146.37	0.40

Stage-Discharge for Pond B-23: Basin #23 (continued)

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
146.38	0.41	146.90	3.75	147.42	11.60	147.94	14.46
146.39	0.41	146.91	3.87	147.43	11.78	147.95	14.49
146.40	0.41	146.92	4.00	147.44	11.95	147.96	14.63
146.41	0.41	146.93	4.12	147.45	12.13	147.97	14.87
146.42	0.41	146.94	4.25	147.46	12.31	147.98	15.17
146.43	0.42	146.95	4.37	147.47	12.49	147.99	15.53
146.44	0.42	146.96	4.50	147.48	12.67	148.00	15.93
146.45	0.42	146.97	4.63	147.49	12.85		
146.46	0.42	146.98	4.77	147.50	13.03		
146.47	0.43	146.99	4.90	147.51	13.21		
146.48	0.43	147.00	5.03	147.52	13.37		
146.49	0.43	147.01	5.17	147.53	13.40		
146.50	0.43	147.02	5.30	147.54	13.43		
146.51	0.45	147.03	5.44	147.55	13.45		
146.52	0.47	147.04	5.58	147.56	13.48		
146.53	0.51	147.05	5.72	147.57	13.51		
146.54	0.54	147.06	5.86	147.58	13.53		
146.55	0.59	147.07	6.00	147.59	13.56		
146.56	0.64	147.08	6.15	147.60	13.59		
146.57	0.69	147.09	6.29	147.61	13.61		
146.58	0.74	147.10	6.44	147.62	13.64		
146.59	0.80	147.11	6.58	147.63	13.67		
146.60	0.86	147.12	6.73	147.64	13.69		
146.61	0.93	147.13	6.88	147.65	13.72		
146.62	1.00	147.14	7.03	147.66	13.75		
146.63	1.07	147.15	7.18	147.67	13.77		
146.64	1.14	147.16	7.33	147.68	13.80		
146.65	1.22	147.17	7.48	147.69	13.83		
146.66	1.29	147.18	7.64	147.70	13.85		
146.67	1.37	147.19	7.79	147.71	13.88		
146.68	1.46	147.20	7.95	147.72	13.90		
146.69	1.54	147.21	8.11	147.73	13.93		
146.70	1.63	147.22	8.26	147.74	13.96		
146.71	1.72	147.23	8.42	147.75	13.98		
146.72	1.81	147.24	8.58	147.76	14.01		
146.73	1.90	147.25	8.74	147.77	14.03		
146.74	2.00	147.26	8.90	147.78	14.06		
146.75	2.09	147.27	9.06	147.79	14.08		
146.76	2.19	147.28	9.23	147.80	14.11		
146.77	2.29	147.29	9.39	147.81	14.14		
146.78	2.40	147.30	9.56	147.82	14.16		
146.79	2.50	147.31	9.72	147.83	14.19		
146.80	2.61	147.32	9.89	147.84	14.21		
146.81	2.71	147.33	10.06	147.85	14.24		
146.82	2.82	147.34	10.23	147.86	14.26		
146.83	2.93	147.35	10.39	147.87	14.29		
146.84	3.05	147.36	10.56	147.88	14.31		
146.85	3.16	147.37	10.74	147.89	14.34		
146.86	3.27	147.38	10.91	147.90	14.36		
146.87	3.39	147.39	11.08	147.91	14.39		
146.88	3.51	147.40	11.25	147.92	14.41		
146.89	3.63	147.41	11.43	147.93	14.44		

Stage-Area-Storage for Pond B-23: Basin #23

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
144.30	0	0	144.82	4,095	1,065
144.31	79	0	144.83	4,173	1,106
144.32	157	2	144.84	4,252	1,148
144.33	236	4	144.85	4,331	1,191
144.34	315	6	144.86	4,410	1,235
144.35	394	10	144.87	4,488	1,279
144.36	472	14	144.88	4,567	1,324
144.37	551	19	144.89	4,646	1,371
144.38	630	25	144.90	4,725	1,417
144.39	709	32	144.91	4,803	1,465
144.40	787	39	144.92	4,882	1,513
144.41	866	48	144.93	4,961	1,563
144.42	945	57	144.94	5,040	1,613
144.43	1,024	67	144.95	5,118	1,663
144.44	1,102	77	144.96	5,197	1,715
144.45	1,181	89	144.97	5,276	1,767
144.46	1,260	101	144.98	5,355	1,821
144.47	1,339	114	144.99	5,433	1,874
144.48	1,417	128	145.00	5,512	1,929
144.49	1,496	142	145.01	5,522	1,984
144.50	1,575	157	145.02	5,532	2,040
144.51	1,654	174	145.03	5,542	2,095
144.52	1,732	191	145.04	5,553	2,150
144.53	1,811	208	145.05	5,563	2,206
144.54	1,890	227	145.06	5,573	2,262
144.55	1,969	246	145.07	5,583	2,318
144.56	2,047	266	145.08	5,593	2,373
144.57	2,126	287	145.09	5,603	2,429
144.58	2,205	309	145.10	5,614	2,485
144.59	2,284	331	145.11	5,624	2,542
144.60	2,362	354	145.12	5,634	2,598
144.61	2,441	378	145.13	5,644	2,654
144.62	2,520	403	145.14	5,654	2,711
144.63	2,599	429	145.15	5,664	2,767
144.64	2,677	455	145.16	5,674	2,824
144.65	2,756	482	145.17	5,685	2,881
144.66	2,835	510	145.18	5,695	2,938
144.67	2,913	539	145.19	5,705	2,995
144.68	2,992	569	145.20	5,715	3,052
144.69	3,071	599	145.21	5,725	3,109
144.70	3,150	630	145.22	5,735	3,166
144.71	3,228	662	145.23	5,745	3,224
144.72	3,307	695	145.24	5,756	3,281
144.73	3,386	728	145.25	5,766	3,339
144.74	3,465	762	145.26	5,776	3,397
144.75	3,543	797	145.27	5,786	3,454
144.76	3,622	833	145.28	5,796	3,512
144.77	3,701	870	145.29	5,806	3,570
144.78	3,780	907	145.30	5,817	3,628
144.79	3,858	945	145.31	5,827	3,687
144.80	3,937	984	145.32	5,837	3,745
144.81	4,016	1,024	145.33	5,847	3,803

Stage-Area-Storage for Pond B-23: Basin #23 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
145.34	5,857	3,862	145.86	6,385	7,045
145.35	5,867	3,921	145.87	6,395	7,109
145.36	5,877	3,979	145.88	6,405	7,173
145.37	5,888	4,038	145.89	6,415	7,237
145.38	5,898	4,097	145.90	6,426	7,301
145.39	5,908	4,156	145.91	6,436	7,365
145.40	5,918	4,215	145.92	6,446	7,430
145.41	5,928	4,274	145.93	6,456	7,494
145.42	5,938	4,334	145.94	6,466	7,559
145.43	5,948	4,393	145.95	6,476	7,624
145.44	5,959	4,453	145.96	6,486	7,688
145.45	5,969	4,512	145.97	6,497	7,753
145.46	5,979	4,572	145.98	6,507	7,818
145.47	5,989	4,632	145.99	6,517	7,883
145.48	5,999	4,692	146.00	6,527	7,949
145.49	6,009	4,752	146.01	6,538	8,014
145.50	6,020	4,812	146.02	6,548	8,079
145.51	6,030	4,872	146.03	6,559	8,145
145.52	6,040	4,933	146.04	6,570	8,211
145.53	6,050	4,993	146.05	6,581	8,276
145.54	6,060	5,054	146.06	6,591	8,342
145.55	6,070	5,114	146.07	6,602	8,408
145.56	6,080	5,175	146.08	6,613	8,474
145.57	6,091	5,236	146.09	6,623	8,540
145.58	6,101	5,297	146.10	6,634	8,607
145.59	6,111	5,358	146.11	6,645	8,673
145.60	6,121	5,419	146.12	6,656	8,740
145.61	6,131	5,480	146.13	6,666	8,806
145.62	6,141	5,542	146.14	6,677	8,873
145.63	6,151	5,603	146.15	6,688	8,940
145.64	6,162	5,665	146.16	6,699	9,007
145.65	6,172	5,726	146.17	6,709	9,074
145.66	6,182	5,788	146.18	6,720	9,141
145.67	6,192	5,850	146.19	6,731	9,208
145.68	6,202	5,912	146.20	6,741	9,276
145.69	6,212	5,974	146.21	6,752	9,343
145.70	6,223	6,036	146.22	6,763	9,411
145.71	6,233	6,099	146.23	6,774	9,478
145.72	6,243	6,161	146.24	6,784	9,546
145.73	6,253	6,223	146.25	6,795	9,614
145.74	6,263	6,286	146.26	6,806	9,682
145.75	6,273	6,349	146.27	6,816	9,750
145.76	6,283	6,411	146.28	6,827	9,818
145.77	6,294	6,474	146.29	6,838	9,887
145.78	6,304	6,537	146.30	6,849	9,955
145.79	6,314	6,600	146.31	6,859	10,024
145.80	6,324	6,664	146.32	6,870	10,092
145.81	6,334	6,727	146.33	6,881	10,161
145.82	6,344	6,790	146.34	6,891	10,230
145.83	6,354	6,854	146.35	6,902	10,299
145.84	6,365	6,917	146.36	6,913	10,368
145.85	6,375	6,981	146.37	6,924	10,437

Stage-Area-Storage for Pond B-23: Basin #23 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
146.38	6,934	10,506	146.90	7,492	14,257
146.39	6,945	10,576	146.91	7,503	14,332
146.40	6,956	10,645	146.92	7,513	14,407
146.41	6,967	10,715	146.93	7,524	14,482
146.42	6,977	10,785	146.94	7,535	14,558
146.43	6,988	10,854	146.95	7,545	14,633
146.44	6,999	10,924	146.96	7,556	14,709
146.45	7,009	10,994	146.97	7,567	14,784
146.46	7,020	11,065	146.98	7,578	14,860
146.47	7,031	11,135	146.99	7,588	14,936
146.48	7,042	11,205	147.00	7,599	15,012
146.49	7,052	11,276	147.01	7,610	15,088
146.50	7,063	11,346	147.02	7,622	15,164
146.51	7,074	11,417	147.03	7,633	15,240
146.52	7,084	11,488	147.04	7,644	15,317
146.53	7,095	11,559	147.05	7,655	15,393
146.54	7,106	11,630	147.06	7,667	15,470
146.55	7,117	11,701	147.07	7,678	15,546
146.56	7,127	11,772	147.08	7,689	15,623
146.57	7,138	11,843	147.09	7,701	15,700
146.58	7,149	11,915	147.10	7,712	15,777
146.59	7,159	11,986	147.11	7,723	15,854
146.60	7,170	12,058	147.12	7,734	15,932
146.61	7,181	12,130	147.13	7,746	16,009
146.62	7,192	12,201	147.14	7,757	16,087
146.63	7,202	12,273	147.15	7,768	16,164
146.64	7,213	12,346	147.16	7,779	16,242
146.65	7,224	12,418	147.17	7,791	16,320
146.66	7,235	12,490	147.18	7,802	16,398
146.67	7,245	12,562	147.19	7,813	16,476
146.68	7,256	12,635	147.20	7,825	16,554
146.69	7,267	12,708	147.21	7,836	16,632
146.70	7,277	12,780	147.22	7,847	16,711
146.71	7,288	12,853	147.23	7,858	16,789
146.72	7,299	12,926	147.24	7,870	16,868
146.73	7,310	12,999	147.25	7,881	16,947
146.74	7,320	13,072	147.26	7,892	17,026
146.75	7,331	13,145	147.27	7,904	17,105
146.76	7,342	13,219	147.28	7,915	17,184
146.77	7,352	13,292	147.29	7,926	17,263
146.78	7,363	13,366	147.30	7,937	17,342
146.79	7,374	13,440	147.31	7,949	17,422
146.80	7,385	13,513	147.32	7,960	17,501
146.81	7,395	13,587	147.33	7,971	17,581
146.82	7,406	13,661	147.34	7,983	17,661
146.83	7,417	13,735	147.35	7,994	17,740
146.84	7,427	13,810	147.36	8,005	17,820
146.85	7,438	13,884	147.37	8,016	17,901
146.86	7,449	13,958	147.38	8,028	17,981
146.87	7,460	14,033	147.39	8,039	18,061
146.88	7,470	14,108	147.40	8,050	18,142
146.89	7,481	14,182	147.41	8,061	18,222

Stage-Area-Storage for Pond B-23: Basin #23 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
147.42	8,073	18,303	147.94	8,659	22,653
147.43	8,084	18,384	147.95	8,671	22,740
147.44	8,095	18,464	147.96	8,682	22,827
147.45	8,107	18,545	147.97	8,693	22,913
147.46	8,118	18,627	147.98	8,704	23,000
147.47	8,129	18,708	147.99	8,716	23,087
147.48	8,140	18,789	148.00	8,727	23,175
147.49	8,152	18,871			
147.50	8,163	18,952			
147.51	8,174	19,034			
147.52	8,186	19,116			
147.53	8,197	19,198			
147.54	8,208	19,280			
147.55	8,219	19,362			
147.56	8,231	19,444			
147.57	8,242	19,526			
147.58	8,253	19,609			
147.59	8,265	19,691			
147.60	8,276	19,774			
147.61	8,287	19,857			
147.62	8,298	19,940			
147.63	8,310	20,023			
147.64	8,321	20,106			
147.65	8,332	20,189			
147.66	8,343	20,273			
147.67	8,355	20,356			
147.68	8,366	20,440			
147.69	8,377	20,524			
147.70	8,389	20,607			
147.71	8,400	20,691			
147.72	8,411	20,775			
147.73	8,422	20,860			
147.74	8,434	20,944			
147.75	8,445	21,028			
147.76	8,456	21,113			
147.77	8,468	21,197			
147.78	8,479	21,282			
147.79	8,490	21,367			
147.80	8,501	21,452			
147.81	8,513	21,537			
147.82	8,524	21,622			
147.83	8,535	21,707			
147.84	8,547	21,793			
147.85	8,558	21,878			
147.86	8,569	21,964			
147.87	8,580	22,050			
147.88	8,592	22,136			
147.89	8,603	22,222			
147.90	8,614	22,308			
147.91	8,625	22,394			
147.92	8,637	22,480			
147.93	8,648	22,567			

Summary for Pond B-24: Basin #24

Inflow Area = 2.408 ac, 37.46% Impervious, Inflow Depth = 1.88" for Current 2 yr event
 Inflow = 4.55 cfs @ 12.18 hrs, Volume= 0.377 af
 Outflow = 0.47 cfs @ 13.22 hrs, Volume= 0.283 af, Atten= 90%, Lag= 62.9 min
 Primary = 0.47 cfs @ 13.22 hrs, Volume= 0.283 af
 Routed to Link PDA-2 : Proposed Drainage Area #2

Routing by Stor-Ind method, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 Peak Elev= 145.89' @ 13.22 hrs Surf.Area= 8,221 sf Storage= 9,514 cf

Plug-Flow detention time= 346.9 min calculated for 0.283 af (75% of inflow)
 Center-of-Mass det. time= 253.2 min (1,053.7 - 800.5)

Volume	Invert	Avail.Storage	Storage Description
#1	144.30'	40,061 cf	Custom Stage Data (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
144.30	0	0	0
145.00	7,331	2,566	2,566
146.00	8,327	7,829	10,395
147.00	9,353	8,840	19,235
148.00	10,406	9,880	29,114
149.00	11,488	10,947	40,061

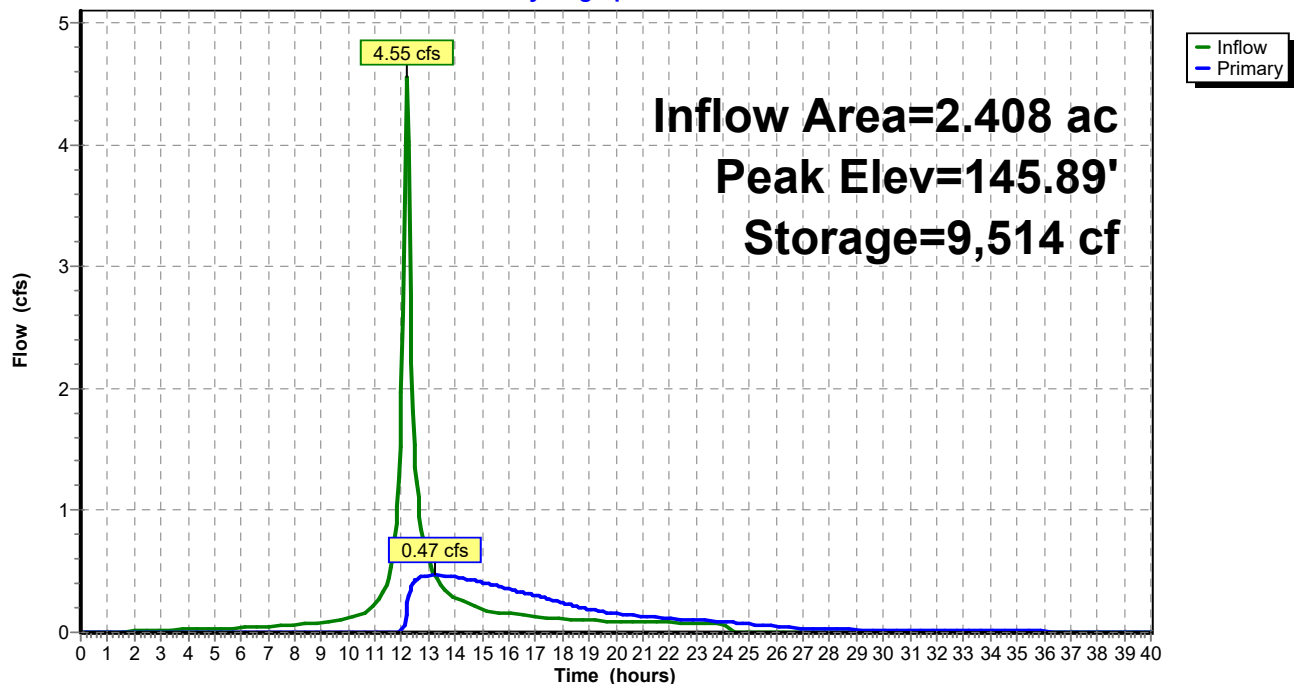
Device	Routing	Invert	Outlet Devices
#1	Primary	144.30'	18.0" Round Culvert L= 22.0' Ke= 0.500 Inlet / Outlet Invert= 144.30' / 143.04' S= 0.0573 '/' Cc= 0.900 n= 0.013, Flow Area= 1.77 sf
#2	Device 1	145.17'	5.0" Vert. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#3	Device 1	146.25'	4.0' long Sharp-Crested Rectangular Weir 2 End Contraction(s)
#4	Primary	147.99'	50.0' long + 3.0 ' SideZ x 5.0' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 Coef. (English) 2.34 2.50 2.70 2.68 2.68 2.66 2.65 2.65 2.65 2.65 2.67 2.66 2.68 2.70 2.74 2.79 2.88

Primary OutFlow Max=0.47 cfs @ 13.22 hrs HW=145.89' (Free Discharge)

1=Culvert (Passes 0.47 cfs of 7.81 cfs potential flow)
 2=Orifice/Grate (Orifice Controls 0.47 cfs @ 3.46 fps)
 3=Sharp-Crested Rectangular Weir(Controls 0.00 cfs)
 4=Broad-Crested Rectangular Weir(Controls 0.00 cfs)

Pond B-24: Basin #24

Hydrograph



Stage-Discharge for Pond B-24: Basin #24

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
144.30	0.00	144.82	0.00	145.34	0.07	145.86	0.46
144.31	0.00	144.83	0.00	145.35	0.08	145.87	0.46
144.32	0.00	144.84	0.00	145.36	0.09	145.88	0.47
144.33	0.00	144.85	0.00	145.37	0.10	145.89	0.47
144.34	0.00	144.86	0.00	145.38	0.11	145.90	0.47
144.35	0.00	144.87	0.00	145.39	0.12	145.91	0.48
144.36	0.00	144.88	0.00	145.40	0.13	145.92	0.48
144.37	0.00	144.89	0.00	145.41	0.14	145.93	0.49
144.38	0.00	144.90	0.00	145.42	0.15	145.94	0.49
144.39	0.00	144.91	0.00	145.43	0.16	145.95	0.50
144.40	0.00	144.92	0.00	145.44	0.17	145.96	0.50
144.41	0.00	144.93	0.00	145.45	0.18	145.97	0.51
144.42	0.00	144.94	0.00	145.46	0.19	145.98	0.51
144.43	0.00	144.95	0.00	145.47	0.20	145.99	0.51
144.44	0.00	144.96	0.00	145.48	0.21	146.00	0.52
144.45	0.00	144.97	0.00	145.49	0.22	146.01	0.52
144.46	0.00	144.98	0.00	145.50	0.23	146.02	0.53
144.47	0.00	144.99	0.00	145.51	0.24	146.03	0.53
144.48	0.00	145.00	0.00	145.52	0.25	146.04	0.53
144.49	0.00	145.01	0.00	145.53	0.26	146.05	0.54
144.50	0.00	145.02	0.00	145.54	0.27	146.06	0.54
144.51	0.00	145.03	0.00	145.55	0.27	146.07	0.55
144.52	0.00	145.04	0.00	145.56	0.28	146.08	0.55
144.53	0.00	145.05	0.00	145.57	0.29	146.09	0.55
144.54	0.00	145.06	0.00	145.58	0.30	146.10	0.56
144.55	0.00	145.07	0.00	145.59	0.30	146.11	0.56
144.56	0.00	145.08	0.00	145.60	0.31	146.12	0.57
144.57	0.00	145.09	0.00	145.61	0.32	146.13	0.57
144.58	0.00	145.10	0.00	145.62	0.32	146.14	0.57
144.59	0.00	145.11	0.00	145.63	0.33	146.15	0.58
144.60	0.00	145.12	0.00	145.64	0.34	146.16	0.58
144.61	0.00	145.13	0.00	145.65	0.34	146.17	0.58
144.62	0.00	145.14	0.00	145.66	0.35	146.18	0.59
144.63	0.00	145.15	0.00	145.67	0.35	146.19	0.59
144.64	0.00	145.16	0.00	145.68	0.36	146.20	0.60
144.65	0.00	145.17	0.00	145.69	0.37	146.21	0.60
144.66	0.00	145.18	0.00	145.70	0.37	146.22	0.60
144.67	0.00	145.19	0.00	145.71	0.38	146.23	0.61
144.68	0.00	145.20	0.00	145.72	0.38	146.24	0.61
144.69	0.00	145.21	0.00	145.73	0.39	146.25	0.61
144.70	0.00	145.22	0.01	145.74	0.39	146.26	0.63
144.71	0.00	145.23	0.01	145.75	0.40	146.27	0.66
144.72	0.00	145.24	0.01	145.76	0.41	146.28	0.69
144.73	0.00	145.25	0.02	145.77	0.41	146.29	0.73
144.74	0.00	145.26	0.02	145.78	0.42	146.30	0.78
144.75	0.00	145.27	0.03	145.79	0.42	146.31	0.83
144.76	0.00	145.28	0.03	145.80	0.43	146.32	0.88
144.77	0.00	145.29	0.04	145.81	0.43	146.33	0.94
144.78	0.00	145.30	0.04	145.82	0.44	146.34	1.00
144.79	0.00	145.31	0.05	145.83	0.44	146.35	1.06
144.80	0.00	145.32	0.06	145.84	0.45	146.36	1.13
144.81	0.00	145.33	0.07	145.85	0.45	146.37	1.19

Stage-Discharge for Pond B-24: Basin #24 (continued)

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
146.38	1.27	146.90	7.44	147.42	13.10	147.94	14.46
146.39	1.34	146.91	7.59	147.43	13.13	147.95	14.49
146.40	1.42	146.92	7.75	147.44	13.15	147.96	14.51
146.41	1.50	146.93	7.90	147.45	13.18	147.97	14.54
146.42	1.58	146.94	8.06	147.46	13.21	147.98	14.56
146.43	1.66	146.95	8.22	147.47	13.24	147.99	14.59
146.44	1.75	146.96	8.37	147.48	13.26	148.00	14.73
146.45	1.84	146.97	8.53	147.49	13.29	148.01	14.97
146.46	1.93	146.98	8.69	147.50	13.32	148.02	15.27
146.47	2.02	146.99	8.85	147.51	13.35	148.03	15.63
146.48	2.12	147.00	9.01	147.52	13.37	148.04	16.02
146.49	2.21	147.01	9.18	147.53	13.40	148.05	16.46
146.50	2.31	147.02	9.34	147.54	13.43	148.06	16.94
146.51	2.41	147.03	9.50	147.55	13.45	148.07	17.44
146.52	2.51	147.04	9.67	147.56	13.48	148.08	17.98
146.53	2.62	147.05	9.83	147.57	13.51	148.09	18.55
146.54	2.72	147.06	10.00	147.58	13.53	148.10	19.15
146.55	2.83	147.07	10.17	147.59	13.56	148.11	19.78
146.56	2.94	147.08	10.34	147.60	13.59	148.12	20.43
146.57	3.05	147.09	10.51	147.61	13.61	148.13	21.10
146.58	3.16	147.10	10.68	147.62	13.64	148.14	21.80
146.59	3.27	147.11	10.85	147.63	13.67	148.15	22.53
146.60	3.39	147.12	11.02	147.64	13.69	148.16	23.27
146.61	3.50	147.13	11.19	147.65	13.72	148.17	24.04
146.62	3.62	147.14	11.36	147.66	13.75	148.18	24.83
146.63	3.74	147.15	11.54	147.67	13.77	148.19	25.64
146.64	3.86	147.16	11.71	147.68	13.80	148.20	26.51
146.65	3.98	147.17	11.89	147.69	13.83	148.21	27.41
146.66	4.11	147.18	12.07	147.70	13.85	148.22	28.33
146.67	4.23	147.19	12.24	147.71	13.88	148.23	29.28
146.68	4.36	147.20	12.42	147.72	13.90	148.24	30.25
146.69	4.49	147.21	12.51	147.73	13.93	148.25	31.25
146.70	4.61	147.22	12.53	147.74	13.96	148.26	32.27
146.71	4.74	147.23	12.56	147.75	13.98	148.27	33.32
146.72	4.88	147.24	12.59	147.76	14.01	148.28	34.39
146.73	5.01	147.25	12.62	147.77	14.03	148.29	35.48
146.74	5.14	147.26	12.65	147.78	14.06	148.30	36.60
146.75	5.28	147.27	12.68	147.79	14.08	148.31	37.75
146.76	5.41	147.28	12.71	147.80	14.11	148.32	38.92
146.77	5.55	147.29	12.73	147.81	14.14	148.33	40.11
146.78	5.69	147.30	12.76	147.82	14.16	148.34	41.33
146.79	5.83	147.31	12.79	147.83	14.19	148.35	42.57
146.80	5.97	147.32	12.82	147.84	14.21	148.36	43.84
146.81	6.11	147.33	12.85	147.85	14.24	148.37	45.13
146.82	6.26	147.34	12.88	147.86	14.26	148.38	46.44
146.83	6.40	147.35	12.90	147.87	14.29	148.39	47.78
146.84	6.55	147.36	12.93	147.88	14.31	148.40	49.17
146.85	6.69	147.37	12.96	147.89	14.34	148.41	50.58
146.86	6.84	147.38	12.99	147.90	14.36	148.42	52.03
146.87	6.99	147.39	13.02	147.91	14.39	148.43	53.49
146.88	7.14	147.40	13.04	147.92	14.41	148.44	54.99
146.89	7.29	147.41	13.07	147.93	14.44	148.45	56.51

Stage-Discharge for Pond B-24: Basin #24 (continued)

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
148.46	58.05	148.98	155.14
148.47	59.62	148.99	157.32
148.48	61.22	149.00	159.47
148.49	62.85		
148.50	64.50		
148.51	66.18		
148.52	67.88		
148.53	69.61		
148.54	71.37		
148.55	73.15		
148.56	74.96		
148.57	76.80		
148.58	78.67		
148.59	80.56		
148.60	82.21		
148.61	83.87		
148.62	85.55		
148.63	87.24		
148.64	88.94		
148.65	90.66		
148.66	92.39		
148.67	94.13		
148.68	95.88		
148.69	97.65		
148.70	99.43		
148.71	101.23		
148.72	103.03		
148.73	104.85		
148.74	106.68		
148.75	108.53		
148.76	110.38		
148.77	112.25		
148.78	114.13		
148.79	116.02		
148.80	117.96		
148.81	119.92		
148.82	121.88		
148.83	123.87		
148.84	125.86		
148.85	127.87		
148.86	129.89		
148.87	131.92		
148.88	133.97		
148.89	136.03		
148.90	138.10		
148.91	140.18		
148.92	142.28		
148.93	144.39		
148.94	146.52		
148.95	148.65		
148.96	150.80		
148.97	152.96		

Stage-Area-Storage for Pond B-24: Basin #24

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
144.30	0	0	144.82	5,446	1,416
144.31	105	1	144.83	5,551	1,471
144.32	209	2	144.84	5,655	1,527
144.33	314	5	144.85	5,760	1,584
144.34	419	8	144.86	5,865	1,642
144.35	524	13	144.87	5,970	1,701
144.36	628	19	144.88	6,074	1,762
144.37	733	26	144.89	6,179	1,823
144.38	838	34	144.90	6,284	1,885
144.39	943	42	144.91	6,388	1,948
144.40	1,047	52	144.92	6,493	2,013
144.41	1,152	63	144.93	6,598	2,078
144.42	1,257	75	144.94	6,703	2,145
144.43	1,361	88	144.95	6,807	2,212
144.44	1,466	103	144.96	6,912	2,281
144.45	1,571	118	144.97	7,017	2,351
144.46	1,676	134	144.98	7,122	2,421
144.47	1,780	151	144.99	7,226	2,493
144.48	1,885	170	145.00	7,331	2,566
144.49	1,990	189	145.01	7,341	2,639
144.50	2,095	209	145.02	7,351	2,713
144.51	2,199	231	145.03	7,361	2,786
144.52	2,304	253	145.04	7,371	2,860
144.53	2,409	277	145.05	7,381	2,934
144.54	2,513	302	145.06	7,391	3,008
144.55	2,618	327	145.07	7,401	3,081
144.56	2,723	354	145.08	7,411	3,156
144.57	2,828	382	145.09	7,421	3,230
144.58	2,932	411	145.10	7,431	3,304
144.59	3,037	440	145.11	7,441	3,378
144.60	3,142	471	145.12	7,451	3,453
144.61	3,247	503	145.13	7,460	3,527
144.62	3,351	536	145.14	7,470	3,602
144.63	3,456	570	145.15	7,480	3,677
144.64	3,561	605	145.16	7,490	3,752
144.65	3,666	641	145.17	7,500	3,827
144.66	3,770	679	145.18	7,510	3,902
144.67	3,875	717	145.19	7,520	3,977
144.68	3,980	756	145.20	7,530	4,052
144.69	4,084	796	145.21	7,540	4,127
144.70	4,189	838	145.22	7,550	4,203
144.71	4,294	880	145.23	7,560	4,278
144.72	4,399	924	145.24	7,570	4,354
144.73	4,503	968	145.25	7,580	4,430
144.74	4,608	1,014	145.26	7,590	4,506
144.75	4,713	1,060	145.27	7,600	4,582
144.76	4,818	1,108	145.28	7,610	4,658
144.77	4,922	1,157	145.29	7,620	4,734
144.78	5,027	1,206	145.30	7,630	4,810
144.79	5,132	1,257	145.31	7,640	4,886
144.80	5,236	1,309	145.32	7,650	4,963
144.81	5,341	1,362	145.33	7,660	5,039

Stage-Area-Storage for Pond B-24: Basin #24 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
145.34	7,670	5,116	145.86	8,188	9,239
145.35	7,680	5,193	145.87	8,198	9,321
145.36	7,690	5,270	145.88	8,207	9,403
145.37	7,700	5,346	145.89	8,217	9,485
145.38	7,709	5,424	145.90	8,227	9,567
145.39	7,719	5,501	145.91	8,237	9,649
145.40	7,729	5,578	145.92	8,247	9,732
145.41	7,739	5,655	145.93	8,257	9,814
145.42	7,749	5,733	145.94	8,267	9,897
145.43	7,759	5,810	145.95	8,277	9,980
145.44	7,769	5,888	145.96	8,287	10,063
145.45	7,779	5,966	145.97	8,297	10,145
145.46	7,789	6,043	145.98	8,307	10,229
145.47	7,799	6,121	145.99	8,317	10,312
145.48	7,809	6,199	146.00	8,327	10,395
145.49	7,819	6,278	146.01	8,337	10,478
145.50	7,829	6,356	146.02	8,348	10,562
145.51	7,839	6,434	146.03	8,358	10,645
145.52	7,849	6,513	146.04	8,368	10,729
145.53	7,859	6,591	146.05	8,378	10,812
145.54	7,869	6,670	146.06	8,389	10,896
145.55	7,879	6,749	146.07	8,399	10,980
145.56	7,889	6,827	146.08	8,409	11,064
145.57	7,899	6,906	146.09	8,419	11,148
145.58	7,909	6,985	146.10	8,430	11,233
145.59	7,919	7,064	146.11	8,440	11,317
145.60	7,929	7,144	146.12	8,450	11,401
145.61	7,939	7,223	146.13	8,460	11,486
145.62	7,949	7,303	146.14	8,471	11,571
145.63	7,958	7,382	146.15	8,481	11,655
145.64	7,968	7,462	146.16	8,491	11,740
145.65	7,978	7,541	146.17	8,501	11,825
145.66	7,988	7,621	146.18	8,512	11,910
145.67	7,998	7,701	146.19	8,522	11,995
145.68	8,008	7,781	146.20	8,532	12,081
145.69	8,018	7,861	146.21	8,542	12,166
145.70	8,028	7,942	146.22	8,553	12,252
145.71	8,038	8,022	146.23	8,563	12,337
145.72	8,048	8,102	146.24	8,573	12,423
145.73	8,058	8,183	146.25	8,584	12,509
145.74	8,068	8,263	146.26	8,594	12,595
145.75	8,078	8,344	146.27	8,604	12,681
145.76	8,088	8,425	146.28	8,614	12,767
145.77	8,098	8,506	146.29	8,625	12,853
145.78	8,108	8,587	146.30	8,635	12,939
145.79	8,118	8,668	146.31	8,645	13,026
145.80	8,128	8,749	146.32	8,655	13,112
145.81	8,138	8,831	146.33	8,666	13,199
145.82	8,148	8,912	146.34	8,676	13,285
145.83	8,158	8,994	146.35	8,686	13,372
145.84	8,168	9,075	146.36	8,696	13,459
145.85	8,178	9,157	146.37	8,707	13,546

Stage-Area-Storage for Pond B-24: Basin #24 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
146.38	8,717	13,633	146.90	9,250	18,305
146.39	8,727	13,720	146.91	9,261	18,397
146.40	8,737	13,808	146.92	9,271	18,490
146.41	8,748	13,895	146.93	9,281	18,583
146.42	8,758	13,983	146.94	9,291	18,676
146.43	8,768	14,070	146.95	9,302	18,768
146.44	8,778	14,158	146.96	9,312	18,862
146.45	8,789	14,246	146.97	9,322	18,955
146.46	8,799	14,334	146.98	9,332	19,048
146.47	8,809	14,422	146.99	9,343	19,141
146.48	8,819	14,510	147.00	9,353	19,235
146.49	8,830	14,598	147.01	9,364	19,328
146.50	8,840	14,687	147.02	9,374	19,422
146.51	8,850	14,775	147.03	9,385	19,516
146.52	8,861	14,864	147.04	9,395	19,610
146.53	8,871	14,952	147.05	9,406	19,704
146.54	8,881	15,041	147.06	9,416	19,798
146.55	8,891	15,130	147.07	9,427	19,892
146.56	8,902	15,219	147.08	9,437	19,986
146.57	8,912	15,308	147.09	9,448	20,081
146.58	8,922	15,397	147.10	9,458	20,175
146.59	8,932	15,486	147.11	9,469	20,270
146.60	8,943	15,576	147.12	9,479	20,365
146.61	8,953	15,665	147.13	9,490	20,460
146.62	8,963	15,755	147.14	9,500	20,555
146.63	8,973	15,844	147.15	9,511	20,650
146.64	8,984	15,934	147.16	9,521	20,745
146.65	8,994	16,024	147.17	9,532	20,840
146.66	9,004	16,114	147.18	9,543	20,935
146.67	9,014	16,204	147.19	9,553	21,031
146.68	9,025	16,294	147.20	9,564	21,127
146.69	9,035	16,385	147.21	9,574	21,222
146.70	9,045	16,475	147.22	9,585	21,318
146.71	9,055	16,566	147.23	9,595	21,414
146.72	9,066	16,656	147.24	9,606	21,510
146.73	9,076	16,747	147.25	9,616	21,606
146.74	9,086	16,838	147.26	9,627	21,702
146.75	9,097	16,929	147.27	9,637	21,799
146.76	9,107	17,020	147.28	9,648	21,895
146.77	9,117	17,111	147.29	9,658	21,991
146.78	9,127	17,202	147.30	9,669	22,088
146.79	9,138	17,293	147.31	9,679	22,185
146.80	9,148	17,385	147.32	9,690	22,282
146.81	9,158	17,476	147.33	9,700	22,379
146.82	9,168	17,568	147.34	9,711	22,476
146.83	9,179	17,660	147.35	9,722	22,573
146.84	9,189	17,752	147.36	9,732	22,670
146.85	9,199	17,843	147.37	9,743	22,768
146.86	9,209	17,935	147.38	9,753	22,865
146.87	9,220	18,028	147.39	9,764	22,963
146.88	9,230	18,120	147.40	9,774	23,060
146.89	9,240	18,212	147.41	9,785	23,158

Stage-Area-Storage for Pond B-24: Basin #24 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
147.42	9,795	23,256	147.94	10,343	28,492
147.43	9,806	23,354	147.95	10,353	28,595
147.44	9,816	23,452	147.96	10,364	28,699
147.45	9,827	23,550	147.97	10,374	28,803
147.46	9,837	23,649	147.98	10,385	28,906
147.47	9,848	23,747	147.99	10,395	29,010
147.48	9,858	23,846	148.00	10,406	29,114
147.49	9,869	23,944	148.01	10,417	29,218
147.50	9,880	24,043	148.02	10,428	29,323
147.51	9,890	24,142	148.03	10,438	29,427
147.52	9,901	24,241	148.04	10,449	29,531
147.53	9,911	24,340	148.05	10,460	29,636
147.54	9,922	24,439	148.06	10,471	29,741
147.55	9,932	24,538	148.07	10,482	29,845
147.56	9,943	24,638	148.08	10,493	29,950
147.57	9,953	24,737	148.09	10,503	30,055
147.58	9,964	24,837	148.10	10,514	30,160
147.59	9,974	24,936	148.11	10,525	30,266
147.60	9,985	25,036	148.12	10,536	30,371
147.61	9,995	25,136	148.13	10,547	30,476
147.62	10,006	25,236	148.14	10,557	30,582
147.63	10,016	25,336	148.15	10,568	30,687
147.64	10,027	25,436	148.16	10,579	30,793
147.65	10,037	25,537	148.17	10,590	30,899
147.66	10,048	25,637	148.18	10,601	31,005
147.67	10,059	25,738	148.19	10,612	31,111
147.68	10,069	25,838	148.20	10,622	31,217
147.69	10,080	25,939	148.21	10,633	31,323
147.70	10,090	26,040	148.22	10,644	31,430
147.71	10,101	26,141	148.23	10,655	31,536
147.72	10,111	26,242	148.24	10,666	31,643
147.73	10,122	26,343	148.25	10,677	31,750
147.74	10,132	26,444	148.26	10,687	31,856
147.75	10,143	26,546	148.27	10,698	31,963
147.76	10,153	26,647	148.28	10,709	32,070
147.77	10,164	26,749	148.29	10,720	32,178
147.78	10,174	26,851	148.30	10,731	32,285
147.79	10,185	26,952	148.31	10,741	32,392
147.80	10,195	27,054	148.32	10,752	32,500
147.81	10,206	27,156	148.33	10,763	32,607
147.82	10,216	27,258	148.34	10,774	32,715
147.83	10,227	27,361	148.35	10,785	32,823
147.84	10,238	27,463	148.36	10,796	32,931
147.85	10,248	27,565	148.37	10,806	33,039
147.86	10,259	27,668	148.38	10,817	33,147
147.87	10,269	27,770	148.39	10,828	33,255
147.88	10,280	27,873	148.40	10,839	33,363
147.89	10,290	27,976	148.41	10,850	33,472
147.90	10,301	28,079	148.42	10,860	33,580
147.91	10,311	28,182	148.43	10,871	33,689
147.92	10,322	28,285	148.44	10,882	33,798
147.93	10,332	28,389	148.45	10,893	33,907

Stage-Area-Storage for Pond B-24: Basin #24 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
148.46	10,904	34,016	148.98	11,466	39,832
148.47	10,915	34,125	148.99	11,477	39,947
148.48	10,925	34,234	149.00	11,488	40,061
148.49	10,936	34,343			
148.50	10,947	34,453			
148.51	10,958	34,562			
148.52	10,969	34,672			
148.53	10,979	34,781			
148.54	10,990	34,891			
148.55	11,001	35,001			
148.56	11,012	35,111			
148.57	11,023	35,222			
148.58	11,034	35,332			
148.59	11,044	35,442			
148.60	11,055	35,553			
148.61	11,066	35,663			
148.62	11,077	35,774			
148.63	11,088	35,885			
148.64	11,098	35,996			
148.65	11,109	36,107			
148.66	11,120	36,218			
148.67	11,131	36,329			
148.68	11,142	36,441			
148.69	11,153	36,552			
148.70	11,163	36,664			
148.71	11,174	36,775			
148.72	11,185	36,887			
148.73	11,196	36,999			
148.74	11,207	37,111			
148.75	11,218	37,223			
148.76	11,228	37,335			
148.77	11,239	37,448			
148.78	11,250	37,560			
148.79	11,261	37,673			
148.80	11,272	37,785			
148.81	11,282	37,898			
148.82	11,293	38,011			
148.83	11,304	38,124			
148.84	11,315	38,237			
148.85	11,326	38,350			
148.86	11,337	38,464			
148.87	11,347	38,577			
148.88	11,358	38,691			
148.89	11,369	38,804			
148.90	11,380	38,918			
148.91	11,391	39,032			
148.92	11,401	39,146			
148.93	11,412	39,260			
148.94	11,423	39,374			
148.95	11,434	39,488			
148.96	11,445	39,603			
148.97	11,456	39,717			

Summary for Pond B-25: Basin #25

Inflow Area = 2.500 ac, 34.96% Impervious, Inflow Depth = 1.83" for Current 2 yr event
 Inflow = 4.62 cfs @ 12.18 hrs, Volume= 0.381 af
 Outflow = 0.49 cfs @ 13.21 hrs, Volume= 0.293 af, Atten= 89%, Lag= 61.8 min
 Primary = 0.49 cfs @ 13.21 hrs, Volume= 0.293 af
 Routed to Link PDA-2 : Proposed Drainage Area #2

Routing by Stor-Ind method, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 Peak Elev= 145.46' @ 13.21 hrs Surf.Area= 5,998 sf Storage= 9,428 cf

Plug-Flow detention time= 317.6 min calculated for 0.293 af (77% of inflow)
 Center-of-Mass det. time= 227.4 min (1,030.6 - 803.2)

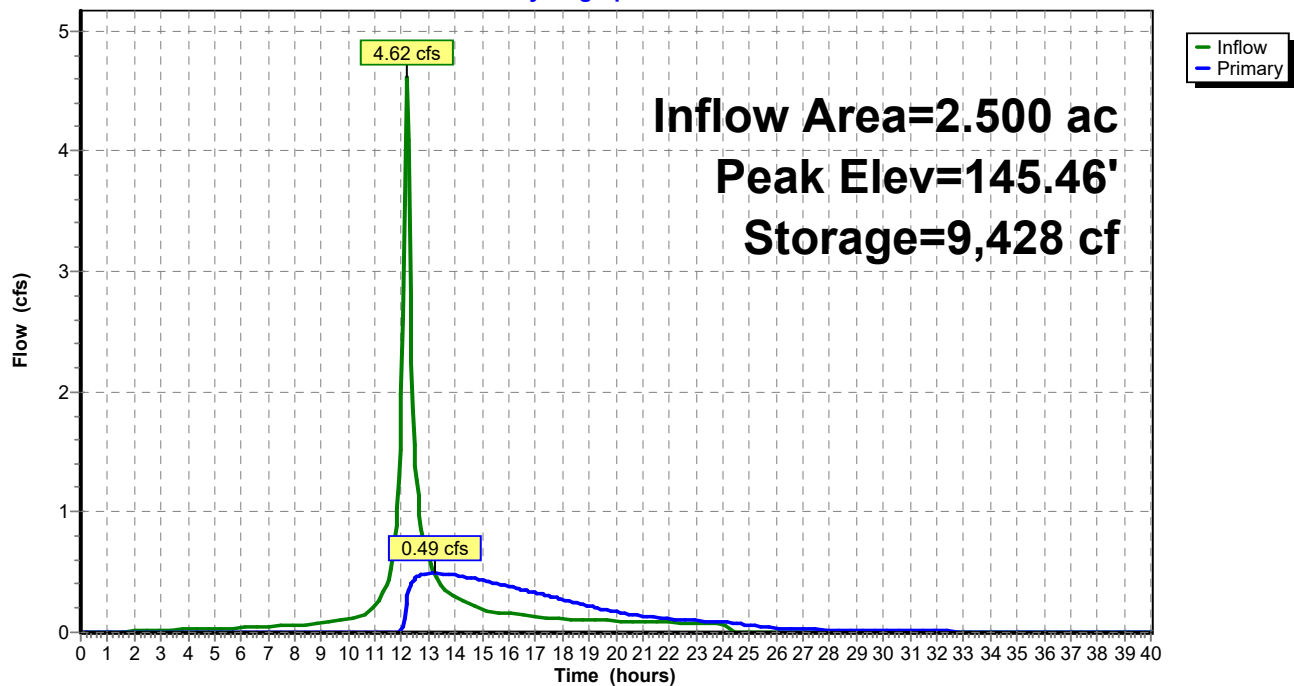
Volume	Invert	Avail.Storage	Storage Description
#1	143.30'	36,587 cf	Custom Stage Data (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
143.30	0	0	0
144.00	4,702	1,646	1,646
145.00	5,584	5,143	6,789
146.00	6,492	6,038	12,827
147.00	7,428	6,960	19,787
148.00	8,393	7,911	27,697
149.00	9,386	8,890	36,587

Device	Routing	Invert	Outlet Devices
#1	Primary	143.30'	18.0" Round Culvert L= 186.0' Ke= 0.500 Inlet / Outlet Invert= 143.30' / 142.00' S= 0.0070 '/' Cc= 0.900 n= 0.013, Flow Area= 1.77 sf
#2	Device 1	144.42'	4.5" Vert. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#3	Device 1	145.95'	4.0' long Sharp-Crested Rectangular Weir 2 End Contraction(s)
#4	Primary	147.96'	50.0' long + 3.0 ' SideZ x 5.0' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 Coef. (English) 2.34 2.50 2.70 2.68 2.68 2.66 2.65 2.65 2.65 2.65 2.67 2.66 2.68 2.70 2.74 2.79 2.88

Primary OutFlow Max=0.49 cfs @ 13.21 hrs HW=145.46' (Free Discharge)

1=Culvert (Passes 0.49 cfs of 8.96 cfs potential flow)
 2=Orifice/Grate (Orifice Controls 0.49 cfs @ 4.43 fps)
 3=Sharp-Crested Rectangular Weir(Controls 0.00 cfs)
 4=Broad-Crested Rectangular Weir(Controls 0.00 cfs)

Pond B-25: Basin #25**Hydrograph**

Stage-Discharge for Pond B-25: Basin #25

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
143.30	0.00	143.82	0.00	144.34	0.00	144.86	0.27
143.31	0.00	143.83	0.00	144.35	0.00	144.87	0.27
143.32	0.00	143.84	0.00	144.36	0.00	144.88	0.28
143.33	0.00	143.85	0.00	144.37	0.00	144.89	0.28
143.34	0.00	143.86	0.00	144.38	0.00	144.90	0.29
143.35	0.00	143.87	0.00	144.39	0.00	144.91	0.29
143.36	0.00	143.88	0.00	144.40	0.00	144.92	0.30
143.37	0.00	143.89	0.00	144.41	0.00	144.93	0.30
143.38	0.00	143.90	0.00	144.42	0.00	144.94	0.31
143.39	0.00	143.91	0.00	144.43	0.00	144.95	0.31
143.40	0.00	143.92	0.00	144.44	0.00	144.96	0.32
143.41	0.00	143.93	0.00	144.45	0.00	144.97	0.32
143.42	0.00	143.94	0.00	144.46	0.00	144.98	0.32
143.43	0.00	143.95	0.00	144.47	0.01	144.99	0.33
143.44	0.00	143.96	0.00	144.48	0.01	145.00	0.33
143.45	0.00	143.97	0.00	144.49	0.01	145.01	0.34
143.46	0.00	143.98	0.00	144.50	0.02	145.02	0.34
143.47	0.00	143.99	0.00	144.51	0.02	145.03	0.35
143.48	0.00	144.00	0.00	144.52	0.03	145.04	0.35
143.49	0.00	144.01	0.00	144.53	0.03	145.05	0.35
143.50	0.00	144.02	0.00	144.54	0.04	145.06	0.36
143.51	0.00	144.03	0.00	144.55	0.04	145.07	0.36
143.52	0.00	144.04	0.00	144.56	0.05	145.08	0.37
143.53	0.00	144.05	0.00	144.57	0.05	145.09	0.37
143.54	0.00	144.06	0.00	144.58	0.06	145.10	0.37
143.55	0.00	144.07	0.00	144.59	0.07	145.11	0.38
143.56	0.00	144.08	0.00	144.60	0.08	145.12	0.38
143.57	0.00	144.09	0.00	144.61	0.08	145.13	0.38
143.58	0.00	144.10	0.00	144.62	0.09	145.14	0.39
143.59	0.00	144.11	0.00	144.63	0.10	145.15	0.39
143.60	0.00	144.12	0.00	144.64	0.11	145.16	0.40
143.61	0.00	144.13	0.00	144.65	0.12	145.17	0.40
143.62	0.00	144.14	0.00	144.66	0.12	145.18	0.40
143.63	0.00	144.15	0.00	144.67	0.13	145.19	0.41
143.64	0.00	144.16	0.00	144.68	0.14	145.20	0.41
143.65	0.00	144.17	0.00	144.69	0.15	145.21	0.41
143.66	0.00	144.18	0.00	144.70	0.16	145.22	0.42
143.67	0.00	144.19	0.00	144.71	0.17	145.23	0.42
143.68	0.00	144.20	0.00	144.72	0.18	145.24	0.42
143.69	0.00	144.21	0.00	144.73	0.19	145.25	0.43
143.70	0.00	144.22	0.00	144.74	0.19	145.26	0.43
143.71	0.00	144.23	0.00	144.75	0.20	145.27	0.43
143.72	0.00	144.24	0.00	144.76	0.21	145.28	0.44
143.73	0.00	144.25	0.00	144.77	0.22	145.29	0.44
143.74	0.00	144.26	0.00	144.78	0.22	145.30	0.44
143.75	0.00	144.27	0.00	144.79	0.23	145.31	0.45
143.76	0.00	144.28	0.00	144.80	0.23	145.32	0.45
143.77	0.00	144.29	0.00	144.81	0.24	145.33	0.45
143.78	0.00	144.30	0.00	144.82	0.25	145.34	0.46
143.79	0.00	144.31	0.00	144.83	0.25	145.35	0.46
143.80	0.00	144.32	0.00	144.84	0.26	145.36	0.46
143.81	0.00	144.33	0.00	144.85	0.26	145.37	0.46

Stage-Discharge for Pond B-25: Basin #25 (continued)

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
145.38	0.47	145.90	0.60	146.42	4.83	146.94	11.88
145.39	0.47	145.91	0.61	146.43	4.96	146.95	11.90
145.40	0.47	145.92	0.61	146.44	5.10	146.96	11.91
145.41	0.48	145.93	0.61	146.45	5.23	146.97	11.93
145.42	0.48	145.94	0.61	146.46	5.37	146.98	11.95
145.43	0.48	145.95	0.62	146.47	5.50	146.99	11.97
145.44	0.49	145.96	0.63	146.48	5.64	147.00	11.98
145.45	0.49	145.97	0.66	146.49	5.78	147.01	12.00
145.46	0.49	145.98	0.69	146.50	5.92	147.02	12.02
145.47	0.49	145.99	0.73	146.51	6.06	147.03	12.03
145.48	0.50	146.00	0.77	146.52	6.20	147.04	12.05
145.49	0.50	146.01	0.82	146.53	6.35	147.05	12.07
145.50	0.50	146.02	0.87	146.54	6.49	147.06	12.09
145.51	0.51	146.03	0.93	146.55	6.64	147.07	12.10
145.52	0.51	146.04	0.99	146.56	6.78	147.08	12.12
145.53	0.51	146.05	1.05	146.57	6.93	147.09	12.14
145.54	0.51	146.06	1.12	146.58	7.08	147.10	12.15
145.55	0.52	146.07	1.18	146.59	7.23	147.11	12.17
145.56	0.52	146.08	1.25	146.60	7.38	147.12	12.19
145.57	0.52	146.09	1.33	146.61	7.53	147.13	12.20
145.58	0.52	146.10	1.40	146.62	7.69	147.14	12.22
145.59	0.53	146.11	1.48	146.63	7.84	147.15	12.24
145.60	0.53	146.12	1.56	146.64	8.00	147.16	12.25
145.61	0.53	146.13	1.65	146.65	8.15	147.17	12.27
145.62	0.54	146.14	1.73	146.66	8.31	147.18	12.29
145.63	0.54	146.15	1.82	146.67	8.47	147.19	12.30
145.64	0.54	146.16	1.91	146.68	8.63	147.20	12.32
145.65	0.54	146.17	2.00	146.69	8.79	147.21	12.34
145.66	0.55	146.18	2.09	146.70	8.95	147.22	12.35
145.67	0.55	146.19	2.19	146.71	9.11	147.23	12.37
145.68	0.55	146.20	2.29	146.72	9.27	147.24	12.39
145.69	0.55	146.21	2.38	146.73	9.43	147.25	12.40
145.70	0.56	146.22	2.49	146.74	9.60	147.26	12.42
145.71	0.56	146.23	2.59	146.75	9.76	147.27	12.44
145.72	0.56	146.24	2.69	146.76	9.93	147.28	12.45
145.73	0.56	146.25	2.80	146.77	10.10	147.29	12.47
145.74	0.57	146.26	2.91	146.78	10.26	147.30	12.49
145.75	0.57	146.27	3.02	146.79	10.43	147.31	12.50
145.76	0.57	146.28	3.13	146.80	10.60	147.32	12.52
145.77	0.57	146.29	3.24	146.81	10.77	147.33	12.54
145.78	0.58	146.30	3.35	146.82	10.94	147.34	12.55
145.79	0.58	146.31	3.47	146.83	11.12	147.35	12.57
145.80	0.58	146.32	3.59	146.84	11.29	147.36	12.58
145.81	0.58	146.33	3.70	146.85	11.46	147.37	12.60
145.82	0.59	146.34	3.82	146.86	11.64	147.38	12.62
145.83	0.59	146.35	3.94	146.87	11.76	147.39	12.63
145.84	0.59	146.36	4.07	146.88	11.78	147.40	12.65
145.85	0.59	146.37	4.19	146.89	11.79	147.41	12.67
145.86	0.60	146.38	4.32	146.90	11.81	147.42	12.68
145.87	0.60	146.39	4.44	146.91	11.83	147.43	12.70
145.88	0.60	146.40	4.57	146.92	11.85	147.44	12.71
145.89	0.60	146.41	4.70	146.93	11.86	147.45	12.73

Stage-Discharge for Pond B-25: Basin #25 (continued)

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
147.46	12.75	147.98	13.89	148.50	68.06
147.47	12.76	147.99	14.18	148.51	69.81
147.48	12.78	148.00	14.53	148.52	71.59
147.49	12.79	148.01	14.91	148.53	73.39
147.50	12.81	148.02	15.34	148.54	75.22
147.51	12.83	148.03	15.81	148.55	77.07
147.52	12.84	148.04	16.31	148.56	78.96
147.53	12.86	148.05	16.84	148.57	80.60
147.54	12.87	148.06	17.40	148.58	82.25
147.55	12.89	148.07	17.98	148.59	83.92
147.56	12.91	148.08	18.60	148.60	85.60
147.57	12.92	148.09	19.24	148.61	87.30
147.58	12.94	148.10	19.91	148.62	89.01
147.59	12.95	148.11	20.60	148.63	90.73
147.60	12.97	148.12	21.31	148.64	92.46
147.61	12.99	148.13	22.05	148.65	94.21
147.62	13.00	148.14	22.81	148.66	95.97
147.63	13.02	148.15	23.59	148.67	97.74
147.64	13.03	148.16	24.39	148.68	99.53
147.65	13.05	148.17	25.25	148.69	101.32
147.66	13.06	148.18	26.14	148.70	103.13
147.67	13.08	148.19	27.05	148.71	104.96
147.68	13.10	148.20	27.99	148.72	106.79
147.69	13.11	148.21	28.95	148.73	108.64
147.70	13.13	148.22	29.94	148.74	110.50
147.71	13.14	148.23	30.96	148.75	112.37
147.72	13.16	148.24	31.99	148.76	114.26
147.73	13.17	148.25	33.06	148.77	116.19
147.74	13.19	148.26	34.14	148.78	118.14
147.75	13.21	148.27	35.26	148.79	120.10
147.76	13.22	148.28	36.39	148.80	122.07
147.77	13.24	148.29	37.55	148.81	124.06
147.78	13.25	148.30	38.74	148.82	126.05
147.79	13.27	148.31	39.94	148.83	128.07
147.80	13.28	148.32	41.18	148.84	130.09
147.81	13.30	148.33	42.43	148.85	132.13
147.82	13.31	148.34	43.72	148.86	134.18
147.83	13.33	148.35	45.02	148.87	136.25
147.84	13.34	148.36	46.35	148.88	138.33
147.85	13.36	148.37	47.73	148.89	140.42
147.86	13.37	148.38	49.14	148.90	142.52
147.87	13.39	148.39	50.57	148.91	144.63
147.88	13.41	148.40	52.03	148.92	146.76
147.89	13.42	148.41	53.51	148.93	148.90
147.90	13.44	148.42	55.02	148.94	151.06
147.91	13.45	148.43	56.56	148.95	153.22
147.92	13.47	148.44	58.12	148.96	155.40
147.93	13.48	148.45	59.71	148.97	157.54
147.94	13.50	148.46	61.33	148.98	159.69
147.95	13.51	148.47	62.97	148.99	161.84
147.96	13.53	148.48	64.64	149.00	164.01
147.97	13.66	148.49	66.34		

Stage-Area-Storage for Pond B-25: Basin #25

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
143.30	0	0	143.82	3,493	908
143.31	67	0	143.83	3,560	943
143.32	134	1	143.84	3,627	979
143.33	202	3	143.85	3,694	1,016
143.34	269	5	143.86	3,762	1,053
143.35	336	8	143.87	3,829	1,091
143.36	403	12	143.88	3,896	1,130
143.37	470	16	143.89	3,963	1,169
143.38	537	21	143.90	4,030	1,209
143.39	605	27	143.91	4,097	1,250
143.40	672	34	143.92	4,165	1,291
143.41	739	41	143.93	4,232	1,333
143.42	806	48	143.94	4,299	1,376
143.43	873	57	143.95	4,366	1,419
143.44	940	66	143.96	4,433	1,463
143.45	1,008	76	143.97	4,500	1,508
143.46	1,075	86	143.98	4,568	1,553
143.47	1,142	97	143.99	4,635	1,599
143.48	1,209	109	144.00	4,702	1,646
143.49	1,276	121	144.01	4,711	1,693
143.50	1,343	134	144.02	4,720	1,740
143.51	1,411	148	144.03	4,728	1,787
143.52	1,478	163	144.04	4,737	1,834
143.53	1,545	178	144.05	4,746	1,882
143.54	1,612	193	144.06	4,755	1,929
143.55	1,679	210	144.07	4,764	1,977
143.56	1,746	227	144.08	4,773	2,025
143.57	1,814	245	144.09	4,781	2,072
143.58	1,881	263	144.10	4,790	2,120
143.59	1,948	282	144.11	4,799	2,168
143.60	2,015	302	144.12	4,808	2,216
143.61	2,082	323	144.13	4,817	2,264
143.62	2,149	344	144.14	4,825	2,313
143.63	2,217	366	144.15	4,834	2,361
143.64	2,284	388	144.16	4,843	2,409
143.65	2,351	411	144.17	4,852	2,458
143.66	2,418	435	144.18	4,861	2,506
143.67	2,485	460	144.19	4,870	2,555
143.68	2,553	485	144.20	4,878	2,604
143.69	2,620	511	144.21	4,887	2,653
143.70	2,687	537	144.22	4,896	2,701
143.71	2,754	565	144.23	4,905	2,750
143.72	2,821	592	144.24	4,914	2,800
143.73	2,888	621	144.25	4,923	2,849
143.74	2,956	650	144.26	4,931	2,898
143.75	3,023	680	144.27	4,940	2,947
143.76	3,090	711	144.28	4,949	2,997
143.77	3,157	742	144.29	4,958	3,046
143.78	3,224	774	144.30	4,967	3,096
143.79	3,291	806	144.31	4,975	3,146
143.80	3,359	840	144.32	4,984	3,195
143.81	3,426	874	144.33	4,993	3,245

Stage-Area-Storage for Pond B-25: Basin #25 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
144.34	5,002	3,295	144.86	5,461	6,016
144.35	5,011	3,345	144.87	5,469	6,070
144.36	5,020	3,396	144.88	5,478	6,125
144.37	5,028	3,446	144.89	5,487	6,180
144.38	5,037	3,496	144.90	5,496	6,235
144.39	5,046	3,547	144.91	5,505	6,290
144.40	5,055	3,597	144.92	5,513	6,345
144.41	5,064	3,648	144.93	5,522	6,400
144.42	5,072	3,698	144.94	5,531	6,455
144.43	5,081	3,749	144.95	5,540	6,511
144.44	5,090	3,800	144.96	5,549	6,566
144.45	5,099	3,851	144.97	5,558	6,622
144.46	5,108	3,902	144.98	5,566	6,677
144.47	5,117	3,953	144.99	5,575	6,733
144.48	5,125	4,004	145.00	5,584	6,789
144.49	5,134	4,056	145.01	5,593	6,845
144.50	5,143	4,107	145.02	5,602	6,901
144.51	5,152	4,158	145.03	5,611	6,957
144.52	5,161	4,210	145.04	5,620	7,013
144.53	5,169	4,262	145.05	5,629	7,069
144.54	5,178	4,313	145.06	5,638	7,125
144.55	5,187	4,365	145.07	5,648	7,182
144.56	5,196	4,417	145.08	5,657	7,238
144.57	5,205	4,469	145.09	5,666	7,295
144.58	5,214	4,521	145.10	5,675	7,352
144.59	5,222	4,573	145.11	5,684	7,408
144.60	5,231	4,626	145.12	5,693	7,465
144.61	5,240	4,678	145.13	5,702	7,522
144.62	5,249	4,730	145.14	5,711	7,579
144.63	5,258	4,783	145.15	5,720	7,637
144.64	5,266	4,836	145.16	5,729	7,694
144.65	5,275	4,888	145.17	5,738	7,751
144.66	5,284	4,941	145.18	5,747	7,809
144.67	5,293	4,994	145.19	5,757	7,866
144.68	5,302	5,047	145.20	5,766	7,924
144.69	5,311	5,100	145.21	5,775	7,981
144.70	5,319	5,153	145.22	5,784	8,039
144.71	5,328	5,206	145.23	5,793	8,097
144.72	5,337	5,260	145.24	5,802	8,155
144.73	5,346	5,313	145.25	5,811	8,213
144.74	5,355	5,367	145.26	5,820	8,271
144.75	5,364	5,420	145.27	5,829	8,329
144.76	5,372	5,474	145.28	5,838	8,388
144.77	5,381	5,528	145.29	5,847	8,446
144.78	5,390	5,582	145.30	5,856	8,505
144.79	5,399	5,636	145.31	5,865	8,563
144.80	5,408	5,690	145.32	5,875	8,622
144.81	5,416	5,744	145.33	5,884	8,681
144.82	5,425	5,798	145.34	5,893	8,740
144.83	5,434	5,852	145.35	5,902	8,799
144.84	5,443	5,907	145.36	5,911	8,858
144.85	5,452	5,961	145.37	5,920	8,917

Stage-Area-Storage for Pond B-25: Basin #25 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
145.38	5,929	8,976	145.90	6,401	12,182
145.39	5,938	9,036	145.91	6,410	12,246
145.40	5,947	9,095	145.92	6,419	12,310
145.41	5,956	9,154	145.93	6,428	12,374
145.42	5,965	9,214	145.94	6,438	12,439
145.43	5,974	9,274	145.95	6,447	12,503
145.44	5,984	9,334	145.96	6,456	12,568
145.45	5,993	9,393	145.97	6,465	12,632
145.46	6,002	9,453	145.98	6,474	12,697
145.47	6,011	9,513	145.99	6,483	12,762
145.48	6,020	9,574	146.00	6,492	12,827
145.49	6,029	9,634	146.01	6,501	12,892
145.50	6,038	9,694	146.02	6,511	12,957
145.51	6,047	9,755	146.03	6,520	13,022
145.52	6,056	9,815	146.04	6,529	13,087
145.53	6,065	9,876	146.05	6,539	13,152
145.54	6,074	9,936	146.06	6,548	13,218
145.55	6,083	9,997	146.07	6,558	13,283
145.56	6,092	10,058	146.08	6,567	13,349
145.57	6,102	10,119	146.09	6,576	13,415
145.58	6,111	10,180	146.10	6,586	13,481
145.59	6,120	10,241	146.11	6,595	13,546
145.60	6,129	10,303	146.12	6,604	13,612
145.61	6,138	10,364	146.13	6,614	13,679
145.62	6,147	10,425	146.14	6,623	13,745
145.63	6,156	10,487	146.15	6,632	13,811
145.64	6,165	10,548	146.16	6,642	13,877
145.65	6,174	10,610	146.17	6,651	13,944
145.66	6,183	10,672	146.18	6,660	14,010
145.67	6,192	10,734	146.19	6,670	14,077
145.68	6,201	10,796	146.20	6,679	14,144
145.69	6,211	10,858	146.21	6,689	14,211
145.70	6,220	10,920	146.22	6,698	14,278
145.71	6,229	10,982	146.23	6,707	14,345
145.72	6,238	11,045	146.24	6,717	14,412
145.73	6,247	11,107	146.25	6,726	14,479
145.74	6,256	11,169	146.26	6,735	14,546
145.75	6,265	11,232	146.27	6,745	14,614
145.76	6,274	11,295	146.28	6,754	14,681
145.77	6,283	11,358	146.29	6,763	14,749
145.78	6,292	11,420	146.30	6,773	14,816
145.79	6,301	11,483	146.31	6,782	14,884
145.80	6,310	11,546	146.32	6,792	14,952
145.81	6,319	11,610	146.33	6,801	15,020
145.82	6,329	11,673	146.34	6,810	15,088
145.83	6,338	11,736	146.35	6,820	15,156
145.84	6,347	11,800	146.36	6,829	15,224
145.85	6,356	11,863	146.37	6,838	15,293
145.86	6,365	11,927	146.38	6,848	15,361
145.87	6,374	11,990	146.39	6,857	15,430
145.88	6,383	12,054	146.40	6,866	15,498
145.89	6,392	12,118	146.41	6,876	15,567

Stage-Area-Storage for Pond B-25: Basin #25 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
146.42	6,885	15,636	146.94	7,372	19,343
146.43	6,894	15,705	146.95	7,381	19,416
146.44	6,904	15,774	146.96	7,391	19,490
146.45	6,913	15,843	146.97	7,400	19,564
146.46	6,923	15,912	146.98	7,409	19,638
146.47	6,932	15,981	146.99	7,419	19,712
146.48	6,941	16,051	147.00	7,428	19,787
146.49	6,951	16,120	147.01	7,438	19,861
146.50	6,960	16,190	147.02	7,447	19,935
146.51	6,969	16,259	147.03	7,457	20,010
146.52	6,979	16,329	147.04	7,467	20,085
146.53	6,988	16,399	147.05	7,476	20,159
146.54	6,997	16,469	147.06	7,486	20,234
146.55	7,007	16,539	147.07	7,496	20,309
146.56	7,016	16,609	147.08	7,505	20,384
146.57	7,026	16,679	147.09	7,515	20,459
146.58	7,035	16,749	147.10	7,525	20,534
146.59	7,044	16,820	147.11	7,534	20,610
146.60	7,054	16,890	147.12	7,544	20,685
146.61	7,063	16,961	147.13	7,553	20,760
146.62	7,072	17,032	147.14	7,563	20,836
146.63	7,082	17,102	147.15	7,573	20,912
146.64	7,091	17,173	147.16	7,582	20,988
146.65	7,100	17,244	147.17	7,592	21,063
146.66	7,110	17,315	147.18	7,602	21,139
146.67	7,119	17,386	147.19	7,611	21,215
146.68	7,128	17,458	147.20	7,621	21,292
146.69	7,138	17,529	147.21	7,631	21,368
146.70	7,147	17,600	147.22	7,640	21,444
146.71	7,157	17,672	147.23	7,650	21,521
146.72	7,166	17,744	147.24	7,660	21,597
146.73	7,175	17,815	147.25	7,669	21,674
146.74	7,185	17,887	147.26	7,679	21,751
146.75	7,194	17,959	147.27	7,689	21,827
146.76	7,203	18,031	147.28	7,698	21,904
146.77	7,213	18,103	147.29	7,708	21,981
146.78	7,222	18,175	147.30	7,718	22,059
146.79	7,231	18,247	147.31	7,727	22,136
146.80	7,241	18,320	147.32	7,737	22,213
146.81	7,250	18,392	147.33	7,746	22,290
146.82	7,260	18,465	147.34	7,756	22,368
146.83	7,269	18,537	147.35	7,766	22,446
146.84	7,278	18,610	147.36	7,775	22,523
146.85	7,288	18,683	147.37	7,785	22,601
146.86	7,297	18,756	147.38	7,795	22,679
146.87	7,306	18,829	147.39	7,804	22,757
146.88	7,316	18,902	147.40	7,814	22,835
146.89	7,325	18,975	147.41	7,824	22,913
146.90	7,334	19,049	147.42	7,833	22,992
146.91	7,344	19,122	147.43	7,843	23,070
146.92	7,353	19,195	147.44	7,853	23,148
146.93	7,362	19,269	147.45	7,862	23,227

Stage-Area-Storage for Pond B-25: Basin #25 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
147.46	7,872	23,306	147.98	8,374	27,530
147.47	7,882	23,384	147.99	8,383	27,613
147.48	7,891	23,463	148.00	8,393	27,697
147.49	7,901	23,542	148.01	8,403	27,781
147.50	7,911	23,621	148.02	8,413	27,865
147.51	7,920	23,700	148.03	8,423	27,949
147.52	7,930	23,780	148.04	8,433	28,034
147.53	7,939	23,859	148.05	8,443	28,118
147.54	7,949	23,939	148.06	8,453	28,203
147.55	7,959	24,018	148.07	8,463	28,287
147.56	7,968	24,098	148.08	8,472	28,372
147.57	7,978	24,177	148.09	8,482	28,457
147.58	7,988	24,257	148.10	8,492	28,541
147.59	7,997	24,337	148.11	8,502	28,626
147.60	8,007	24,417	148.12	8,512	28,712
147.61	8,017	24,497	148.13	8,522	28,797
147.62	8,026	24,578	148.14	8,532	28,882
147.63	8,036	24,658	148.15	8,542	28,967
147.64	8,046	24,738	148.16	8,552	29,053
147.65	8,055	24,819	148.17	8,562	29,138
147.66	8,065	24,899	148.18	8,572	29,224
147.67	8,075	24,980	148.19	8,582	29,310
147.68	8,084	25,061	148.20	8,592	29,396
147.69	8,094	25,142	148.21	8,602	29,482
147.70	8,104	25,223	148.22	8,611	29,568
147.71	8,113	25,304	148.23	8,621	29,654
147.72	8,123	25,385	148.24	8,631	29,740
147.73	8,132	25,466	148.25	8,641	29,826
147.74	8,142	25,548	148.26	8,651	29,913
147.75	8,152	25,629	148.27	8,661	30,000
147.76	8,161	25,711	148.28	8,671	30,086
147.77	8,171	25,792	148.29	8,681	30,173
147.78	8,181	25,874	148.30	8,691	30,260
147.79	8,190	25,956	148.31	8,701	30,347
147.80	8,200	26,038	148.32	8,711	30,434
147.81	8,210	26,120	148.33	8,721	30,521
147.82	8,219	26,202	148.34	8,731	30,608
147.83	8,229	26,284	148.35	8,741	30,696
147.84	8,239	26,367	148.36	8,750	30,783
147.85	8,248	26,449	148.37	8,760	30,871
147.86	8,258	26,532	148.38	8,770	30,958
147.87	8,268	26,614	148.39	8,780	31,046
147.88	8,277	26,697	148.40	8,790	31,134
147.89	8,287	26,780	148.41	8,800	31,222
147.90	8,297	26,863	148.42	8,810	31,310
147.91	8,306	26,946	148.43	8,820	31,398
147.92	8,316	27,029	148.44	8,830	31,486
147.93	8,325	27,112	148.45	8,840	31,575
147.94	8,335	27,195	148.46	8,850	31,663
147.95	8,345	27,279	148.47	8,860	31,752
147.96	8,354	27,362	148.48	8,870	31,840
147.97	8,364	27,446	148.49	8,880	31,929

Stage-Area-Storage for Pond B-25: Basin #25 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
148.50	8,890	32,018
148.51	8,899	32,107
148.52	8,909	32,196
148.53	8,919	32,285
148.54	8,929	32,374
148.55	8,939	32,464
148.56	8,949	32,553
148.57	8,959	32,643
148.58	8,969	32,732
148.59	8,979	32,822
148.60	8,989	32,912
148.61	8,999	33,002
148.62	9,009	33,092
148.63	9,019	33,182
148.64	9,029	33,272
148.65	9,038	33,362
148.66	9,048	33,453
148.67	9,058	33,543
148.68	9,068	33,634
148.69	9,078	33,725
148.70	9,088	33,816
148.71	9,098	33,907
148.72	9,108	33,998
148.73	9,118	34,089
148.74	9,128	34,180
148.75	9,138	34,271
148.76	9,148	34,363
148.77	9,158	34,454
148.78	9,168	34,546
148.79	9,177	34,638
148.80	9,187	34,729
148.81	9,197	34,821
148.82	9,207	34,913
148.83	9,217	35,005
148.84	9,227	35,098
148.85	9,237	35,190
148.86	9,247	35,282
148.87	9,257	35,375
148.88	9,267	35,468
148.89	9,277	35,560
148.90	9,287	35,653
148.91	9,297	35,746
148.92	9,307	35,839
148.93	9,316	35,932
148.94	9,326	36,025
148.95	9,336	36,119
148.96	9,346	36,212
148.97	9,356	36,306
148.98	9,366	36,399
148.99	9,376	36,493
149.00	9,386	36,587

Summary for Pond B-26: Basin #26

Inflow Area = 2.366 ac, 39.90% Impervious, Inflow Depth = 1.93" for Current 2 yr event
 Inflow = 4.59 cfs @ 12.17 hrs, Volume= 0.380 af
 Outflow = 0.18 cfs @ 15.16 hrs, Volume= 0.275 af, Atten= 96%, Lag= 179.3 min
 Primary = 0.18 cfs @ 15.16 hrs, Volume= 0.275 af
 Routed to Link PDA-2 : Proposed Drainage Area #2

Routing by Stor-Ind method, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 Peak Elev= 145.62' @ 15.16 hrs Surf.Area= 6,290 sf Storage= 11,445 cf

Plug-Flow detention time= 674.3 min calculated for 0.275 af (72% of inflow)
 Center-of-Mass det. time= 574.5 min (1,372.5 - 798.0)

Volume	Invert	Avail.Storage	Storage Description
#1	143.30'	35,348 cf	Custom Stage Data (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
143.30	0	0	0
144.00	5,466	1,913	1,913
145.00	5,967	5,717	7,630
146.00	6,486	6,227	13,856
147.00	7,018	6,752	20,608
148.00	7,563	7,291	27,899
148.95	8,120	7,449	35,348

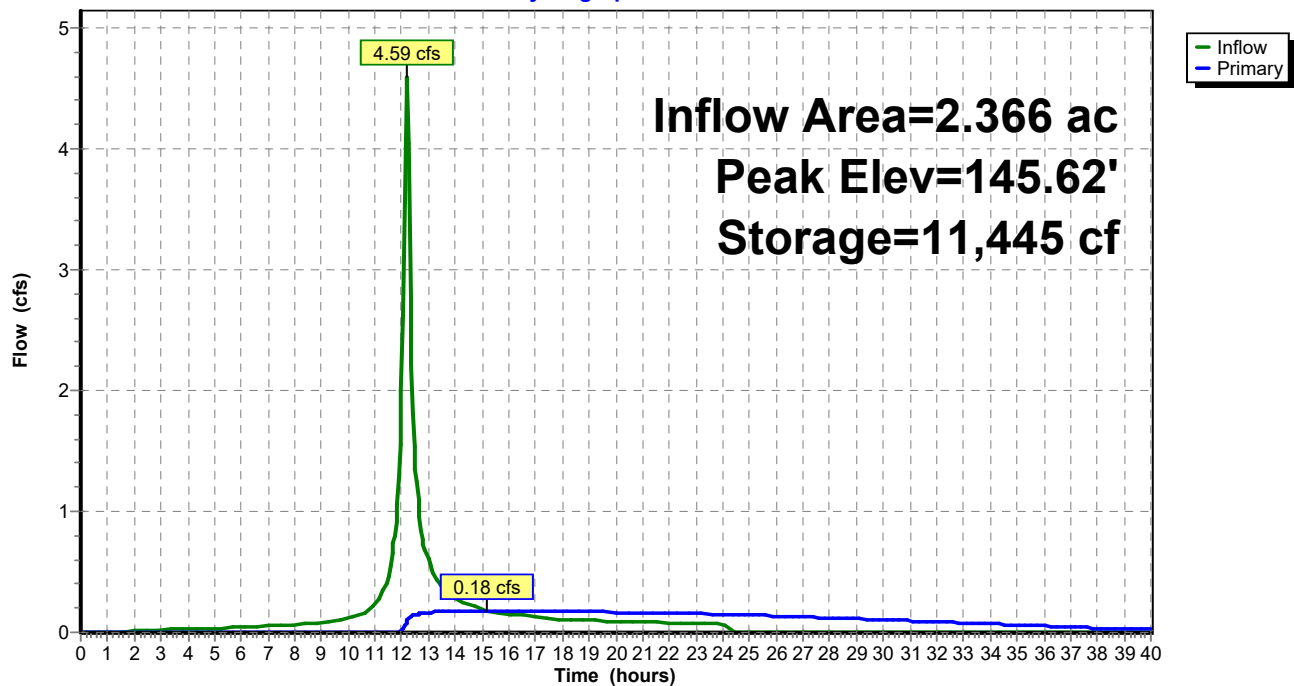
Device	Routing	Invert	Outlet Devices
#1	Primary	143.30'	18.0" Round Culvert L= 234.0' Ke= 0.500 Inlet / Outlet Invert= 143.30' / 142.00' S= 0.0056 '/' Cc= 0.900 n= 0.013, Flow Area= 1.77 sf
#2	Device 1	144.36'	2.5" Vert. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#3	Device 1	146.00'	4.0' long Sharp-Crested Rectangular Weir 2 End Contraction(s)
#4	Primary	148.05'	50.0' long + 3.0 '/' SideZ x 5.0' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 Coef. (English) 2.34 2.50 2.70 2.68 2.68 2.66 2.65 2.65 2.65 2.65 2.67 2.66 2.68 2.70 2.74 2.79 2.88

Primary OutFlow Max=0.18 cfs @ 15.16 hrs HW=145.62' (Free Discharge)

1=Culvert (Passes 0.18 cfs of 8.59 cfs potential flow)
 2=Orifice/Grate (Orifice Controls 0.18 cfs @ 5.18 fps)
 3=Sharp-Crested Rectangular Weir(Controls 0.00 cfs)
 4=Broad-Crested Rectangular Weir(Controls 0.00 cfs)

Pond B-26: Basin #26

Hydrograph



Stage-Discharge for Pond B-26: Basin #26

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
143.30	0.00	143.82	0.00	144.34	0.00	144.86	0.10
143.31	0.00	143.83	0.00	144.35	0.00	144.87	0.10
143.32	0.00	143.84	0.00	144.36	0.00	144.88	0.11
143.33	0.00	143.85	0.00	144.37	0.00	144.89	0.11
143.34	0.00	143.86	0.00	144.38	0.00	144.90	0.11
143.35	0.00	143.87	0.00	144.39	0.00	144.91	0.11
143.36	0.00	143.88	0.00	144.40	0.00	144.92	0.11
143.37	0.00	143.89	0.00	144.41	0.00	144.93	0.11
143.38	0.00	143.90	0.00	144.42	0.01	144.94	0.11
143.39	0.00	143.91	0.00	144.43	0.01	144.95	0.11
143.40	0.00	143.92	0.00	144.44	0.01	144.96	0.12
143.41	0.00	143.93	0.00	144.45	0.01	144.97	0.12
143.42	0.00	143.94	0.00	144.46	0.02	144.98	0.12
143.43	0.00	143.95	0.00	144.47	0.02	144.99	0.12
143.44	0.00	143.96	0.00	144.48	0.02	145.00	0.12
143.45	0.00	143.97	0.00	144.49	0.03	145.01	0.12
143.46	0.00	143.98	0.00	144.50	0.03	145.02	0.12
143.47	0.00	143.99	0.00	144.51	0.03	145.03	0.12
143.48	0.00	144.00	0.00	144.52	0.04	145.04	0.12
143.49	0.00	144.01	0.00	144.53	0.04	145.05	0.13
143.50	0.00	144.02	0.00	144.54	0.05	145.06	0.13
143.51	0.00	144.03	0.00	144.55	0.05	145.07	0.13
143.52	0.00	144.04	0.00	144.56	0.05	145.08	0.13
143.53	0.00	144.05	0.00	144.57	0.05	145.09	0.13
143.54	0.00	144.06	0.00	144.58	0.06	145.10	0.13
143.55	0.00	144.07	0.00	144.59	0.06	145.11	0.13
143.56	0.00	144.08	0.00	144.60	0.06	145.12	0.13
143.57	0.00	144.09	0.00	144.61	0.06	145.13	0.13
143.58	0.00	144.10	0.00	144.62	0.06	145.14	0.13
143.59	0.00	144.11	0.00	144.63	0.07	145.15	0.14
143.60	0.00	144.12	0.00	144.64	0.07	145.16	0.14
143.61	0.00	144.13	0.00	144.65	0.07	145.17	0.14
143.62	0.00	144.14	0.00	144.66	0.07	145.18	0.14
143.63	0.00	144.15	0.00	144.67	0.07	145.19	0.14
143.64	0.00	144.16	0.00	144.68	0.08	145.20	0.14
143.65	0.00	144.17	0.00	144.69	0.08	145.21	0.14
143.66	0.00	144.18	0.00	144.70	0.08	145.22	0.14
143.67	0.00	144.19	0.00	144.71	0.08	145.23	0.14
143.68	0.00	144.20	0.00	144.72	0.08	145.24	0.14
143.69	0.00	144.21	0.00	144.73	0.08	145.25	0.15
143.70	0.00	144.22	0.00	144.74	0.09	145.26	0.15
143.71	0.00	144.23	0.00	144.75	0.09	145.27	0.15
143.72	0.00	144.24	0.00	144.76	0.09	145.28	0.15
143.73	0.00	144.25	0.00	144.77	0.09	145.29	0.15
143.74	0.00	144.26	0.00	144.78	0.09	145.30	0.15
143.75	0.00	144.27	0.00	144.79	0.09	145.31	0.15
143.76	0.00	144.28	0.00	144.80	0.10	145.32	0.15
143.77	0.00	144.29	0.00	144.81	0.10	145.33	0.15
143.78	0.00	144.30	0.00	144.82	0.10	145.34	0.15
143.79	0.00	144.31	0.00	144.83	0.10	145.35	0.15
143.80	0.00	144.32	0.00	144.84	0.10	145.36	0.16
143.81	0.00	144.33	0.00	144.85	0.10	145.37	0.16

Stage-Discharge for Pond B-26: Basin #26 (continued)

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
145.38	0.16	145.90	0.20	146.42	3.72	146.94	10.94
145.39	0.16	145.91	0.20	146.43	3.84	146.95	10.96
145.40	0.16	145.92	0.20	146.44	3.96	146.96	10.97
145.41	0.16	145.93	0.20	146.45	4.09	146.97	10.99
145.42	0.16	145.94	0.20	146.46	4.22	146.98	11.00
145.43	0.16	145.95	0.20	146.47	4.35	146.99	11.02
145.44	0.16	145.96	0.20	146.48	4.48	147.00	11.04
145.45	0.16	145.97	0.20	146.49	4.61	147.01	11.05
145.46	0.16	145.98	0.20	146.50	4.74	147.02	11.07
145.47	0.16	145.99	0.20	146.51	4.88	147.03	11.08
145.48	0.17	146.00	0.20	146.52	5.01	147.04	11.10
145.49	0.17	146.01	0.22	146.53	5.15	147.05	11.11
145.50	0.17	146.02	0.24	146.54	5.29	147.06	11.13
145.51	0.17	146.03	0.27	146.55	5.43	147.07	11.15
145.52	0.17	146.04	0.31	146.56	5.57	147.08	11.16
145.53	0.17	146.05	0.35	146.57	5.71	147.09	11.18
145.54	0.17	146.06	0.40	146.58	5.85	147.10	11.19
145.55	0.17	146.07	0.45	146.59	5.99	147.11	11.21
145.56	0.17	146.08	0.50	146.60	6.14	147.12	11.22
145.57	0.17	146.09	0.56	146.61	6.28	147.13	11.24
145.58	0.17	146.10	0.62	146.62	6.43	147.14	11.25
145.59	0.17	146.11	0.69	146.63	6.58	147.15	11.27
145.60	0.17	146.12	0.75	146.64	6.72	147.16	11.29
145.61	0.18	146.13	0.82	146.65	6.87	147.17	11.30
145.62	0.18	146.14	0.89	146.66	7.03	147.18	11.32
145.63	0.18	146.15	0.97	146.67	7.18	147.19	11.33
145.64	0.18	146.16	1.04	146.68	7.33	147.20	11.35
145.65	0.18	146.17	1.12	146.69	7.48	147.21	11.36
145.66	0.18	146.18	1.20	146.70	7.64	147.22	11.38
145.67	0.18	146.19	1.29	146.71	7.79	147.23	11.39
145.68	0.18	146.20	1.37	146.72	7.95	147.24	11.41
145.69	0.18	146.21	1.46	146.73	8.11	147.25	11.42
145.70	0.18	146.22	1.55	146.74	8.27	147.26	11.44
145.71	0.18	146.23	1.64	146.75	8.43	147.27	11.45
145.72	0.18	146.24	1.74	146.76	8.59	147.28	11.47
145.73	0.18	146.25	1.83	146.77	8.75	147.29	11.48
145.74	0.19	146.26	1.93	146.78	8.91	147.30	11.50
145.75	0.19	146.27	2.03	146.79	9.07	147.31	11.51
145.76	0.19	146.28	2.13	146.80	9.24	147.32	11.53
145.77	0.19	146.29	2.23	146.81	9.40	147.33	11.54
145.78	0.19	146.30	2.34	146.82	9.57	147.34	11.56
145.79	0.19	146.31	2.45	146.83	9.73	147.35	11.57
145.80	0.19	146.32	2.55	146.84	9.90	147.36	11.59
145.81	0.19	146.33	2.66	146.85	10.07	147.37	11.60
145.82	0.19	146.34	2.77	146.86	10.24	147.38	11.62
145.83	0.19	146.35	2.89	146.87	10.41	147.39	11.63
145.84	0.19	146.36	3.00	146.88	10.58	147.40	11.65
145.85	0.19	146.37	3.12	146.89	10.75	147.41	11.66
145.86	0.19	146.38	3.23	146.90	10.88	147.42	11.68
145.87	0.19	146.39	3.35	146.91	10.89	147.43	11.69
145.88	0.20	146.40	3.47	146.92	10.91	147.44	11.71
145.89	0.20	146.41	3.59	146.93	10.92	147.45	11.72

Stage-Discharge for Pond B-26: Basin #26 (continued)

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
147.46	11.74	147.98	12.49	148.50	52.51
147.47	11.75	147.99	12.50	148.51	54.02
147.48	11.77	148.00	12.51	148.52	55.56
147.49	11.78	148.01	12.53	148.53	57.12
147.50	11.80	148.02	12.54	148.54	58.71
147.51	11.81	148.03	12.56	148.55	60.32
147.52	11.83	148.04	12.57	148.56	61.96
147.53	11.84	148.05	12.58	148.57	63.63
147.54	11.86	148.06	12.71	148.58	65.33
147.55	11.87	148.07	12.94	148.59	67.05
147.56	11.89	148.08	13.23	148.60	68.79
147.57	11.90	148.09	13.58	148.61	70.57
147.58	11.92	148.10	13.96	148.62	72.37
147.59	11.93	148.11	14.39	148.63	74.20
147.60	11.94	148.12	14.85	148.64	76.05
147.61	11.96	148.13	15.35	148.65	77.94
147.62	11.97	148.14	15.88	148.66	79.58
147.63	11.99	148.15	16.44	148.67	81.23
147.64	12.00	148.16	17.03	148.68	82.90
147.65	12.02	148.17	17.64	148.69	84.58
147.66	12.03	148.18	18.28	148.70	86.27
147.67	12.05	148.19	18.95	148.71	87.98
147.68	12.06	148.20	19.63	148.72	89.70
147.69	12.07	148.21	20.35	148.73	91.43
147.70	12.09	148.22	21.08	148.74	93.18
147.71	12.10	148.23	21.84	148.75	94.93
147.72	12.12	148.24	22.62	148.76	96.71
147.73	12.13	148.25	23.42	148.77	98.49
147.74	12.15	148.26	24.28	148.78	100.29
147.75	12.16	148.27	25.17	148.79	102.10
147.76	12.18	148.28	26.08	148.80	103.92
147.77	12.19	148.29	27.02	148.81	105.75
147.78	12.20	148.30	27.98	148.82	107.60
147.79	12.22	148.31	28.96	148.83	109.46
147.80	12.23	148.32	29.98	148.84	111.33
147.81	12.25	148.33	31.01	148.85	113.21
147.82	12.26	148.34	32.07	148.86	115.14
147.83	12.27	148.35	33.16	148.87	117.09
147.84	12.29	148.36	34.27	148.88	119.05
147.85	12.30	148.37	35.40	148.89	121.02
147.86	12.32	148.38	36.56	148.90	123.00
147.87	12.33	148.39	37.75	148.91	125.00
147.88	12.35	148.40	38.95	148.92	127.01
147.89	12.36	148.41	40.19	148.93	129.04
147.90	12.37	148.42	41.44	148.94	131.07
147.91	12.39	148.43	42.72	148.95	133.12
147.92	12.40	148.44	44.03		
147.93	12.42	148.45	45.35		
147.94	12.43	148.46	46.73		
147.95	12.44	148.47	48.14		
147.96	12.46	148.48	49.57		
147.97	12.47	148.49	51.03		

Stage-Area-Storage for Pond B-26: Basin #26

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
143.30	0	0	143.82	4,060	1,056
143.31	78	0	143.83	4,139	1,097
143.32	156	2	143.84	4,217	1,138
143.33	234	4	143.85	4,295	1,181
143.34	312	6	143.86	4,373	1,224
143.35	390	10	143.87	4,451	1,269
143.36	469	14	143.88	4,529	1,313
143.37	547	19	143.89	4,607	1,359
143.38	625	25	143.90	4,685	1,406
143.39	703	32	143.91	4,763	1,453
143.40	781	39	143.92	4,841	1,501
143.41	859	47	143.93	4,919	1,550
143.42	937	56	143.94	4,997	1,599
143.43	1,015	66	143.95	5,076	1,650
143.44	1,093	77	143.96	5,154	1,701
143.45	1,171	88	143.97	5,232	1,753
143.46	1,249	100	143.98	5,310	1,805
143.47	1,327	113	143.99	5,388	1,859
143.48	1,406	126	144.00	5,466	1,913
143.49	1,484	141	144.01	5,471	1,968
143.50	1,562	156	144.02	5,476	2,023
143.51	1,640	172	144.03	5,481	2,077
143.52	1,718	189	144.04	5,486	2,132
143.53	1,796	207	144.05	5,491	2,187
143.54	1,874	225	144.06	5,496	2,242
143.55	1,952	244	144.07	5,501	2,297
143.56	2,030	264	144.08	5,506	2,352
143.57	2,108	285	144.09	5,511	2,407
143.58	2,186	306	144.10	5,516	2,462
143.59	2,264	328	144.11	5,521	2,517
143.60	2,343	351	144.12	5,526	2,573
143.61	2,421	375	144.13	5,531	2,628
143.62	2,499	400	144.14	5,536	2,683
143.63	2,577	425	144.15	5,541	2,739
143.64	2,655	451	144.16	5,546	2,794
143.65	2,733	478	144.17	5,551	2,850
143.66	2,811	506	144.18	5,556	2,905
143.67	2,889	534	144.19	5,561	2,961
143.68	2,967	564	144.20	5,566	3,016
143.69	3,045	594	144.21	5,571	3,072
143.70	3,123	625	144.22	5,576	3,128
143.71	3,202	656	144.23	5,581	3,184
143.72	3,280	689	144.24	5,586	3,239
143.73	3,358	722	144.25	5,591	3,295
143.74	3,436	756	144.26	5,596	3,351
143.75	3,514	791	144.27	5,601	3,407
143.76	3,592	826	144.28	5,606	3,463
143.77	3,670	862	144.29	5,611	3,519
143.78	3,748	900	144.30	5,616	3,575
143.79	3,826	937	144.31	5,621	3,632
143.80	3,904	976	144.32	5,626	3,688
143.81	3,982	1,016	144.33	5,631	3,744

Stage-Area-Storage for Pond B-26: Basin #26 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
144.34	5,636	3,800	144.86	5,897	6,799
144.35	5,641	3,857	144.87	5,902	6,858
144.36	5,646	3,913	144.88	5,907	6,917
144.37	5,651	3,970	144.89	5,912	6,976
144.38	5,656	4,026	144.90	5,917	7,035
144.39	5,661	4,083	144.91	5,922	7,095
144.40	5,666	4,140	144.92	5,927	7,154
144.41	5,671	4,196	144.93	5,932	7,213
144.42	5,676	4,253	144.94	5,937	7,272
144.43	5,681	4,310	144.95	5,942	7,332
144.44	5,686	4,367	144.96	5,947	7,391
144.45	5,691	4,424	144.97	5,952	7,451
144.46	5,696	4,480	144.98	5,957	7,510
144.47	5,701	4,537	144.99	5,962	7,570
144.48	5,706	4,594	145.00	5,967	7,630
144.49	5,711	4,652	145.01	5,972	7,689
144.50	5,717	4,709	145.02	5,977	7,749
144.51	5,722	4,766	145.03	5,983	7,809
144.52	5,727	4,823	145.04	5,988	7,869
144.53	5,732	4,880	145.05	5,993	7,929
144.54	5,737	4,938	145.06	5,998	7,989
144.55	5,742	4,995	145.07	6,003	8,049
144.56	5,747	5,053	145.08	6,009	8,109
144.57	5,752	5,110	145.09	6,014	8,169
144.58	5,757	5,168	145.10	6,019	8,229
144.59	5,762	5,225	145.11	6,024	8,289
144.60	5,767	5,283	145.12	6,029	8,349
144.61	5,772	5,341	145.13	6,034	8,410
144.62	5,777	5,398	145.14	6,040	8,470
144.63	5,782	5,456	145.15	6,045	8,530
144.64	5,787	5,514	145.16	6,050	8,591
144.65	5,792	5,572	145.17	6,055	8,651
144.66	5,797	5,630	145.18	6,060	8,712
144.67	5,802	5,688	145.19	6,066	8,773
144.68	5,807	5,746	145.20	6,071	8,833
144.69	5,812	5,804	145.21	6,076	8,894
144.70	5,817	5,862	145.22	6,081	8,955
144.71	5,822	5,920	145.23	6,086	9,016
144.72	5,827	5,978	145.24	6,092	9,077
144.73	5,832	6,037	145.25	6,097	9,138
144.74	5,837	6,095	145.26	6,102	9,199
144.75	5,842	6,154	145.27	6,107	9,260
144.76	5,847	6,212	145.28	6,112	9,321
144.77	5,852	6,270	145.29	6,118	9,382
144.78	5,857	6,329	145.30	6,123	9,443
144.79	5,862	6,388	145.31	6,128	9,504
144.80	5,867	6,446	145.32	6,133	9,566
144.81	5,872	6,505	145.33	6,138	9,627
144.82	5,877	6,564	145.34	6,143	9,688
144.83	5,882	6,622	145.35	6,149	9,750
144.84	5,887	6,681	145.36	6,154	9,811
144.85	5,892	6,740	145.37	6,159	9,873

Stage-Area-Storage for Pond B-26: Basin #26 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
145.38	6,164	9,935	145.90	6,434	13,210
145.39	6,169	9,996	145.91	6,439	13,274
145.40	6,175	10,058	145.92	6,444	13,339
145.41	6,180	10,120	145.93	6,450	13,403
145.42	6,185	10,182	145.94	6,455	13,468
145.43	6,190	10,243	145.95	6,460	13,532
145.44	6,195	10,305	145.96	6,465	13,597
145.45	6,201	10,367	145.97	6,470	13,662
145.46	6,206	10,429	145.98	6,476	13,726
145.47	6,211	10,491	145.99	6,481	13,791
145.48	6,216	10,554	146.00	6,486	13,856
145.49	6,221	10,616	146.01	6,491	13,921
145.50	6,227	10,678	146.02	6,497	13,986
145.51	6,232	10,740	146.03	6,502	14,051
145.52	6,237	10,803	146.04	6,507	14,116
145.53	6,242	10,865	146.05	6,513	14,181
145.54	6,247	10,927	146.06	6,518	14,246
145.55	6,252	10,990	146.07	6,523	14,311
145.56	6,258	11,052	146.08	6,529	14,377
145.57	6,263	11,115	146.09	6,534	14,442
145.58	6,268	11,178	146.10	6,539	14,507
145.59	6,273	11,240	146.11	6,545	14,573
145.60	6,278	11,303	146.12	6,550	14,638
145.61	6,284	11,366	146.13	6,555	14,704
145.62	6,289	11,429	146.14	6,560	14,769
145.63	6,294	11,492	146.15	6,566	14,835
145.64	6,299	11,555	146.16	6,571	14,901
145.65	6,304	11,618	146.17	6,576	14,966
145.66	6,310	11,681	146.18	6,582	15,032
145.67	6,315	11,744	146.19	6,587	15,098
145.68	6,320	11,807	146.20	6,592	15,164
145.69	6,325	11,870	146.21	6,598	15,230
145.70	6,330	11,934	146.22	6,603	15,296
145.71	6,335	11,997	146.23	6,608	15,362
145.72	6,341	12,060	146.24	6,614	15,428
145.73	6,346	12,124	146.25	6,619	15,494
145.74	6,351	12,187	146.26	6,624	15,560
145.75	6,356	12,251	146.27	6,630	15,627
145.76	6,361	12,314	146.28	6,635	15,693
145.77	6,367	12,378	146.29	6,640	15,759
145.78	6,372	12,442	146.30	6,646	15,826
145.79	6,377	12,505	146.31	6,651	15,892
145.80	6,382	12,569	146.32	6,656	15,959
145.81	6,387	12,633	146.33	6,662	16,025
145.82	6,393	12,697	146.34	6,667	16,092
145.83	6,398	12,761	146.35	6,672	16,159
145.84	6,403	12,825	146.36	6,678	16,226
145.85	6,408	12,889	146.37	6,683	16,292
145.86	6,413	12,953	146.38	6,688	16,359
145.87	6,419	13,017	146.39	6,693	16,426
145.88	6,424	13,082	146.40	6,699	16,493
145.89	6,429	13,146	146.41	6,704	16,560

Stage-Area-Storage for Pond B-26: Basin #26 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
146.42	6,709	16,627	146.94	6,986	20,188
146.43	6,715	16,694	146.95	6,991	20,258
146.44	6,720	16,761	146.96	6,997	20,328
146.45	6,725	16,829	146.97	7,002	20,398
146.46	6,731	16,896	146.98	7,007	20,468
146.47	6,736	16,963	146.99	7,013	20,538
146.48	6,741	17,031	147.00	7,018	20,608
146.49	6,747	17,098	147.01	7,023	20,678
146.50	6,752	17,166	147.02	7,029	20,749
146.51	6,757	17,233	147.03	7,034	20,819
146.52	6,763	17,301	147.04	7,040	20,889
146.53	6,768	17,368	147.05	7,045	20,960
146.54	6,773	17,436	147.06	7,051	21,030
146.55	6,779	17,504	147.07	7,056	21,101
146.56	6,784	17,572	147.08	7,062	21,171
146.57	6,789	17,640	147.09	7,067	21,242
146.58	6,795	17,707	147.10	7,073	21,313
146.59	6,800	17,775	147.11	7,078	21,383
146.60	6,805	17,843	147.12	7,083	21,454
146.61	6,811	17,912	147.13	7,089	21,525
146.62	6,816	17,980	147.14	7,094	21,596
146.63	6,821	18,048	147.15	7,100	21,667
146.64	6,826	18,116	147.16	7,105	21,738
146.65	6,832	18,184	147.17	7,111	21,809
146.66	6,837	18,253	147.18	7,116	21,880
146.67	6,842	18,321	147.19	7,122	21,951
146.68	6,848	18,390	147.20	7,127	22,023
146.69	6,853	18,458	147.21	7,132	22,094
146.70	6,858	18,527	147.22	7,138	22,165
146.71	6,864	18,595	147.23	7,143	22,237
146.72	6,869	18,664	147.24	7,149	22,308
146.73	6,874	18,733	147.25	7,154	22,380
146.74	6,880	18,801	147.26	7,160	22,451
146.75	6,885	18,870	147.27	7,165	22,523
146.76	6,890	18,939	147.28	7,171	22,595
146.77	6,896	19,008	147.29	7,176	22,666
146.78	6,901	19,077	147.30	7,182	22,738
146.79	6,906	19,146	147.31	7,187	22,810
146.80	6,912	19,215	147.32	7,192	22,882
146.81	6,917	19,284	147.33	7,198	22,954
146.82	6,922	19,353	147.34	7,203	23,026
146.83	6,928	19,423	147.35	7,209	23,098
146.84	6,933	19,492	147.36	7,214	23,170
146.85	6,938	19,561	147.37	7,220	23,242
146.86	6,944	19,631	147.38	7,225	23,314
146.87	6,949	19,700	147.39	7,231	23,387
146.88	6,954	19,770	147.40	7,236	23,459
146.89	6,959	19,839	147.41	7,241	23,531
146.90	6,965	19,909	147.42	7,247	23,604
146.91	6,970	19,979	147.43	7,252	23,676
146.92	6,975	20,048	147.44	7,258	23,749
146.93	6,981	20,118	147.45	7,263	23,821

Stage-Area-Storage for Pond B-26: Basin #26 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
147.46	7,269	23,894	147.98	7,552	27,747
147.47	7,274	23,967	147.99	7,558	27,823
147.48	7,280	24,040	148.00	7,563	27,899
147.49	7,285	24,112	148.01	7,569	27,974
147.50	7,291	24,185	148.02	7,575	28,050
147.51	7,296	24,258	148.03	7,581	28,126
147.52	7,301	24,331	148.04	7,586	28,202
147.53	7,307	24,404	148.05	7,592	28,277
147.54	7,312	24,477	148.06	7,598	28,353
147.55	7,318	24,550	148.07	7,604	28,429
147.56	7,323	24,624	148.08	7,610	28,506
147.57	7,329	24,697	148.09	7,616	28,582
147.58	7,334	24,770	148.10	7,622	28,658
147.59	7,340	24,844	148.11	7,627	28,734
147.60	7,345	24,917	148.12	7,633	28,810
147.61	7,350	24,990	148.13	7,639	28,887
147.62	7,356	25,064	148.14	7,645	28,963
147.63	7,361	25,138	148.15	7,651	29,040
147.64	7,367	25,211	148.16	7,657	29,116
147.65	7,372	25,285	148.17	7,663	29,193
147.66	7,378	25,359	148.18	7,669	29,269
147.67	7,383	25,432	148.19	7,674	29,346
147.68	7,389	25,506	148.20	7,680	29,423
147.69	7,394	25,580	148.21	7,686	29,500
147.70	7,400	25,654	148.22	7,692	29,577
147.71	7,405	25,728	148.23	7,698	29,654
147.72	7,410	25,802	148.24	7,704	29,731
147.73	7,416	25,876	148.25	7,710	29,808
147.74	7,421	25,951	148.26	7,715	29,885
147.75	7,427	26,025	148.27	7,721	29,962
147.76	7,432	26,099	148.28	7,727	30,039
147.77	7,438	26,174	148.29	7,733	30,117
147.78	7,443	26,248	148.30	7,739	30,194
147.79	7,449	26,322	148.31	7,745	30,271
147.80	7,454	26,397	148.32	7,751	30,349
147.81	7,459	26,471	148.33	7,756	30,426
147.82	7,465	26,546	148.34	7,762	30,504
147.83	7,470	26,621	148.35	7,768	30,582
147.84	7,476	26,695	148.36	7,774	30,659
147.85	7,481	26,770	148.37	7,780	30,737
147.86	7,487	26,845	148.38	7,786	30,815
147.87	7,492	26,920	148.39	7,792	30,893
147.88	7,498	26,995	148.40	7,798	30,971
147.89	7,503	27,070	148.41	7,803	31,049
147.90	7,509	27,145	148.42	7,809	31,127
147.91	7,514	27,220	148.43	7,815	31,205
147.92	7,519	27,295	148.44	7,821	31,283
147.93	7,525	27,371	148.45	7,827	31,361
147.94	7,530	27,446	148.46	7,833	31,440
147.95	7,536	27,521	148.47	7,839	31,518
147.96	7,541	27,597	148.48	7,844	31,596
147.97	7,547	27,672	148.49	7,850	31,675

Stage-Area-Storage for Pond B-26: Basin #26 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
148.50	7,856	31,753
148.51	7,862	31,832
148.52	7,868	31,911
148.53	7,874	31,989
148.54	7,880	32,068
148.55	7,885	32,147
148.56	7,891	32,226
148.57	7,897	32,305
148.58	7,903	32,384
148.59	7,909	32,463
148.60	7,915	32,542
148.61	7,921	32,621
148.62	7,927	32,700
148.63	7,932	32,780
148.64	7,938	32,859
148.65	7,944	32,938
148.66	7,950	33,018
148.67	7,956	33,097
148.68	7,962	33,177
148.69	7,968	33,257
148.70	7,973	33,336
148.71	7,979	33,416
148.72	7,985	33,496
148.73	7,991	33,576
148.74	7,997	33,656
148.75	8,003	33,736
148.76	8,009	33,816
148.77	8,014	33,896
148.78	8,020	33,976
148.79	8,026	34,056
148.80	8,032	34,137
148.81	8,038	34,217
148.82	8,044	34,297
148.83	8,050	34,378
148.84	8,056	34,458
148.85	8,061	34,539
148.86	8,067	34,620
148.87	8,073	34,700
148.88	8,079	34,781
148.89	8,085	34,862
148.90	8,091	34,943
148.91	8,097	35,024
148.92	8,102	35,105
148.93	8,108	35,186
148.94	8,114	35,267
148.95	8,120	35,348

Summary for Pond B-27: Basin #27

Inflow Area = 1.935 ac, 46.41% Impervious, Inflow Depth = 2.50" for Current 2 yr event
 Inflow = 4.97 cfs @ 12.17 hrs, Volume= 0.403 af
 Outflow = 1.61 cfs @ 12.45 hrs, Volume= 0.296 af, Atten= 68%, Lag= 16.7 min
 Primary = 1.61 cfs @ 12.45 hrs, Volume= 0.296 af
 Routed to Link PDA-2 : Proposed Drainage Area #2

Routing by Stor-Ind method, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 Peak Elev= 171.73' @ 12.45 hrs Surf.Area= 3,461 sf Storage= 8,404 cf

Plug-Flow detention time= 203.7 min calculated for 0.296 af (73% of inflow)
 Center-of-Mass det. time= 112.4 min (901.0 - 788.6)

Volume	Invert	Avail.Storage	Storage Description
#1	167.35'	13,052 cf	Custom Stage Data (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
167.35	0	0	0
168.00	1,002	326	326
169.00	1,583	1,293	1,618
170.00	2,221	1,902	3,520
171.00	2,916	2,569	6,089
172.00	3,667	3,292	9,380
172.95	4,064	3,672	13,052

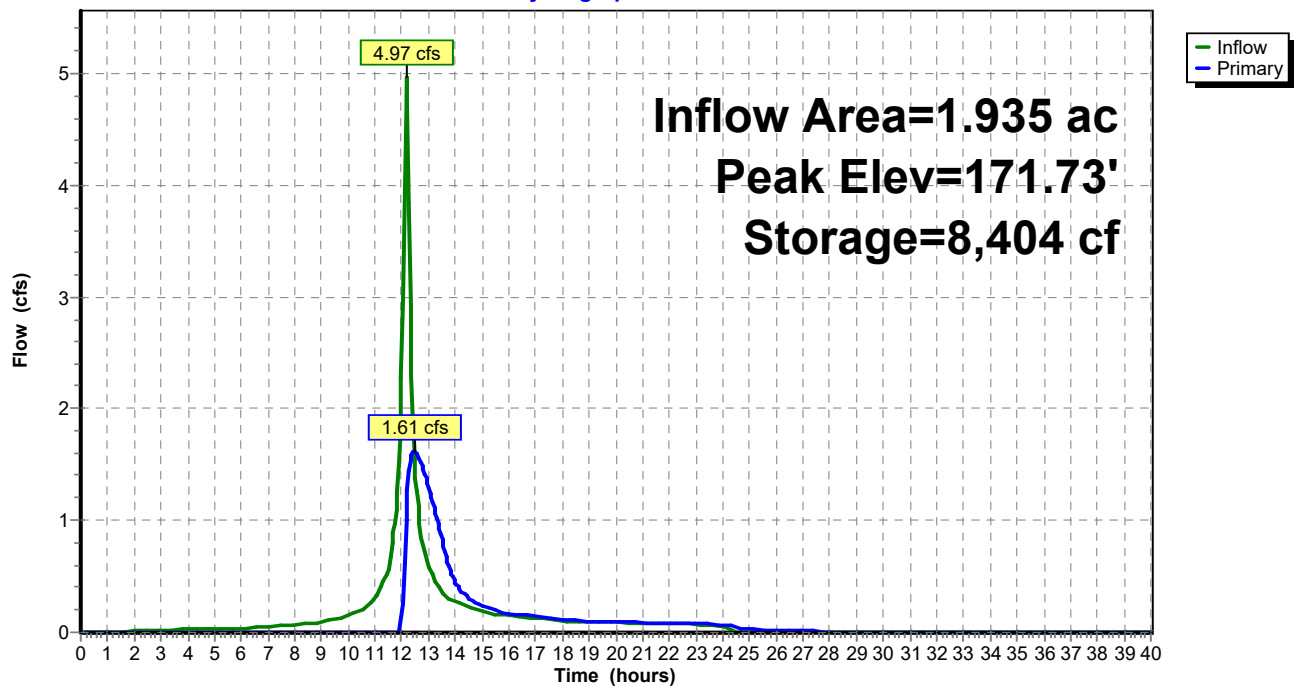
Device	Routing	Invert	Outlet Devices
#1	Primary	167.65'	24.0" Round Culvert L= 61.0' Ke= 0.500 Inlet / Outlet Invert= 167.65' / 165.16' S= 0.0408 '/' Cc= 0.900 n= 0.013, Flow Area= 3.14 sf
#2	Device 1	170.47'	8.0" Vert. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#3	Device 1	171.75'	2.0' long Sharp-Crested Rectangular Weir 2 End Contraction(s)
#4	Device 1	172.25'	4.0' long Sharp-Crested Rectangular Weir 2 End Contraction(s)
#5	Primary	172.90'	50.0' long + 3.0 '/' SideZ x 5.0' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 Coef. (English) 2.34 2.50 2.70 2.68 2.68 2.66 2.65 2.65 2.65 2.65 2.67 2.66 2.68 2.70 2.74 2.79 2.88

Primary OutFlow Max=1.61 cfs @ 12.45 hrs HW=171.73' (Free Discharge)

1=Culvert (Passes 1.61 cfs of 26.53 cfs potential flow)
 2=Orifice/Grate (Orifice Controls 1.61 cfs @ 4.62 fps)
 3=Sharp-Crested Rectangular Weir(Controls 0.00 cfs)
 4=Sharp-Crested Rectangular Weir(Controls 0.00 cfs)
 5=Broad-Crested Rectangular Weir(Controls 0.00 cfs)

Pond B-27: Basin #27

Hydrograph



Stage-Discharge for Pond B-27: Basin #27

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
167.35	0.00	167.87	0.00	168.39	0.00	168.91	0.00
167.36	0.00	167.88	0.00	168.40	0.00	168.92	0.00
167.37	0.00	167.89	0.00	168.41	0.00	168.93	0.00
167.38	0.00	167.90	0.00	168.42	0.00	168.94	0.00
167.39	0.00	167.91	0.00	168.43	0.00	168.95	0.00
167.40	0.00	167.92	0.00	168.44	0.00	168.96	0.00
167.41	0.00	167.93	0.00	168.45	0.00	168.97	0.00
167.42	0.00	167.94	0.00	168.46	0.00	168.98	0.00
167.43	0.00	167.95	0.00	168.47	0.00	168.99	0.00
167.44	0.00	167.96	0.00	168.48	0.00	169.00	0.00
167.45	0.00	167.97	0.00	168.49	0.00	169.01	0.00
167.46	0.00	167.98	0.00	168.50	0.00	169.02	0.00
167.47	0.00	167.99	0.00	168.51	0.00	169.03	0.00
167.48	0.00	168.00	0.00	168.52	0.00	169.04	0.00
167.49	0.00	168.01	0.00	168.53	0.00	169.05	0.00
167.50	0.00	168.02	0.00	168.54	0.00	169.06	0.00
167.51	0.00	168.03	0.00	168.55	0.00	169.07	0.00
167.52	0.00	168.04	0.00	168.56	0.00	169.08	0.00
167.53	0.00	168.05	0.00	168.57	0.00	169.09	0.00
167.54	0.00	168.06	0.00	168.58	0.00	169.10	0.00
167.55	0.00	168.07	0.00	168.59	0.00	169.11	0.00
167.56	0.00	168.08	0.00	168.60	0.00	169.12	0.00
167.57	0.00	168.09	0.00	168.61	0.00	169.13	0.00
167.58	0.00	168.10	0.00	168.62	0.00	169.14	0.00
167.59	0.00	168.11	0.00	168.63	0.00	169.15	0.00
167.60	0.00	168.12	0.00	168.64	0.00	169.16	0.00
167.61	0.00	168.13	0.00	168.65	0.00	169.17	0.00
167.62	0.00	168.14	0.00	168.66	0.00	169.18	0.00
167.63	0.00	168.15	0.00	168.67	0.00	169.19	0.00
167.64	0.00	168.16	0.00	168.68	0.00	169.20	0.00
167.65	0.00	168.17	0.00	168.69	0.00	169.21	0.00
167.66	0.00	168.18	0.00	168.70	0.00	169.22	0.00
167.67	0.00	168.19	0.00	168.71	0.00	169.23	0.00
167.68	0.00	168.20	0.00	168.72	0.00	169.24	0.00
167.69	0.00	168.21	0.00	168.73	0.00	169.25	0.00
167.70	0.00	168.22	0.00	168.74	0.00	169.26	0.00
167.71	0.00	168.23	0.00	168.75	0.00	169.27	0.00
167.72	0.00	168.24	0.00	168.76	0.00	169.28	0.00
167.73	0.00	168.25	0.00	168.77	0.00	169.29	0.00
167.74	0.00	168.26	0.00	168.78	0.00	169.30	0.00
167.75	0.00	168.27	0.00	168.79	0.00	169.31	0.00
167.76	0.00	168.28	0.00	168.80	0.00	169.32	0.00
167.77	0.00	168.29	0.00	168.81	0.00	169.33	0.00
167.78	0.00	168.30	0.00	168.82	0.00	169.34	0.00
167.79	0.00	168.31	0.00	168.83	0.00	169.35	0.00
167.80	0.00	168.32	0.00	168.84	0.00	169.36	0.00
167.81	0.00	168.33	0.00	168.85	0.00	169.37	0.00
167.82	0.00	168.34	0.00	168.86	0.00	169.38	0.00
167.83	0.00	168.35	0.00	168.87	0.00	169.39	0.00
167.84	0.00	168.36	0.00	168.88	0.00	169.40	0.00
167.85	0.00	168.37	0.00	168.89	0.00	169.41	0.00
167.86	0.00	168.38	0.00	168.90	0.00	169.42	0.00

Stage-Discharge for Pond B-27: Basin #27 (continued)

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
169.43	0.00	169.95	0.00	170.47	0.00	170.99	0.72
169.44	0.00	169.96	0.00	170.48	0.00	171.00	0.74
169.45	0.00	169.97	0.00	170.49	0.00	171.01	0.76
169.46	0.00	169.98	0.00	170.50	0.00	171.02	0.78
169.47	0.00	169.99	0.00	170.51	0.01	171.03	0.80
169.48	0.00	170.00	0.00	170.52	0.01	171.04	0.82
169.49	0.00	170.01	0.00	170.53	0.01	171.05	0.84
169.50	0.00	170.02	0.00	170.54	0.02	171.06	0.85
169.51	0.00	170.03	0.00	170.55	0.02	171.07	0.87
169.52	0.00	170.04	0.00	170.56	0.03	171.08	0.89
169.53	0.00	170.05	0.00	170.57	0.04	171.09	0.91
169.54	0.00	170.06	0.00	170.58	0.04	171.10	0.92
169.55	0.00	170.07	0.00	170.59	0.05	171.11	0.94
169.56	0.00	170.08	0.00	170.60	0.06	171.12	0.95
169.57	0.00	170.09	0.00	170.61	0.07	171.13	0.96
169.58	0.00	170.10	0.00	170.62	0.08	171.14	0.98
169.59	0.00	170.11	0.00	170.63	0.09	171.15	0.99
169.60	0.00	170.12	0.00	170.64	0.10	171.16	1.00
169.61	0.00	170.13	0.00	170.65	0.11	171.17	1.02
169.62	0.00	170.14	0.00	170.66	0.12	171.18	1.03
169.63	0.00	170.15	0.00	170.67	0.13	171.19	1.05
169.64	0.00	170.16	0.00	170.68	0.15	171.20	1.06
169.65	0.00	170.17	0.00	170.69	0.16	171.21	1.07
169.66	0.00	170.18	0.00	170.70	0.17	171.22	1.08
169.67	0.00	170.19	0.00	170.71	0.19	171.23	1.10
169.68	0.00	170.20	0.00	170.72	0.20	171.24	1.11
169.69	0.00	170.21	0.00	170.73	0.22	171.25	1.12
169.70	0.00	170.22	0.00	170.74	0.23	171.26	1.14
169.71	0.00	170.23	0.00	170.75	0.25	171.27	1.15
169.72	0.00	170.24	0.00	170.76	0.27	171.28	1.16
169.73	0.00	170.25	0.00	170.77	0.28	171.29	1.17
169.74	0.00	170.26	0.00	170.78	0.30	171.30	1.18
169.75	0.00	170.27	0.00	170.79	0.32	171.31	1.20
169.76	0.00	170.28	0.00	170.80	0.34	171.32	1.21
169.77	0.00	170.29	0.00	170.81	0.36	171.33	1.22
169.78	0.00	170.30	0.00	170.82	0.37	171.34	1.23
169.79	0.00	170.31	0.00	170.83	0.39	171.35	1.24
169.80	0.00	170.32	0.00	170.84	0.41	171.36	1.25
169.81	0.00	170.33	0.00	170.85	0.43	171.37	1.27
169.82	0.00	170.34	0.00	170.86	0.45	171.38	1.28
169.83	0.00	170.35	0.00	170.87	0.47	171.39	1.29
169.84	0.00	170.36	0.00	170.88	0.49	171.40	1.30
169.85	0.00	170.37	0.00	170.89	0.51	171.41	1.31
169.86	0.00	170.38	0.00	170.90	0.53	171.42	1.32
169.87	0.00	170.39	0.00	170.91	0.55	171.43	1.33
169.88	0.00	170.40	0.00	170.92	0.57	171.44	1.34
169.89	0.00	170.41	0.00	170.93	0.59	171.45	1.35
169.90	0.00	170.42	0.00	170.94	0.61	171.46	1.36
169.91	0.00	170.43	0.00	170.95	0.63	171.47	1.37
169.92	0.00	170.44	0.00	170.96	0.66	171.48	1.38
169.93	0.00	170.45	0.00	170.97	0.68	171.49	1.39
169.94	0.00	170.46	0.00	170.98	0.70	171.50	1.40

Stage-Discharge for Pond B-27: Basin #27 (continued)

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
171.51	1.41	172.03	2.80	172.55	8.64
171.52	1.42	172.04	2.86	172.56	8.83
171.53	1.43	172.05	2.92	172.57	9.02
171.54	1.44	172.06	2.98	172.58	9.21
171.55	1.45	172.07	3.04	172.59	9.41
171.56	1.46	172.08	3.10	172.60	9.60
171.57	1.47	172.09	3.16	172.61	9.80
171.58	1.48	172.10	3.22	172.62	10.00
171.59	1.49	172.11	3.28	172.63	10.20
171.60	1.50	172.12	3.35	172.64	10.40
171.61	1.51	172.13	3.41	172.65	10.61
171.62	1.52	172.14	3.47	172.66	10.81
171.63	1.53	172.15	3.54	172.67	11.02
171.64	1.54	172.16	3.60	172.68	11.23
171.65	1.55	172.17	3.67	172.69	11.44
171.66	1.56	172.18	3.74	172.70	11.65
171.67	1.56	172.19	3.80	172.71	11.87
171.68	1.57	172.20	3.87	172.72	12.08
171.69	1.58	172.21	3.94	172.73	12.30
171.70	1.59	172.22	4.01	172.74	12.52
171.71	1.60	172.23	4.08	172.75	12.74
171.72	1.61	172.24	4.15	172.76	12.96
171.73	1.62	172.25	4.22	172.77	13.18
171.74	1.63	172.26	4.30	172.78	13.41
171.75	1.64	172.27	4.40	172.79	13.63
171.76	1.65	172.28	4.50	172.80	13.86
171.77	1.67	172.29	4.61	172.81	14.09
171.78	1.69	172.30	4.72	172.82	14.32
171.79	1.72	172.31	4.84	172.83	14.55
171.80	1.75	172.32	4.97	172.84	14.78
171.81	1.78	172.33	5.09	172.85	15.02
171.82	1.81	172.34	5.22	172.86	15.25
171.83	1.85	172.35	5.36	172.87	15.49
171.84	1.89	172.36	5.50	172.88	15.72
171.85	1.92	172.37	5.64	172.89	15.96
171.86	1.96	172.38	5.78	172.90	16.20
171.87	2.00	172.39	5.93	172.91	16.56
171.88	2.05	172.40	6.08	172.92	17.02
171.89	2.09	172.41	6.24	172.93	17.54
171.90	2.13	172.42	6.39	172.94	18.11
171.91	2.18	172.43	6.55	172.95	18.73
171.92	2.23	172.44	6.71		
171.93	2.27	172.45	6.88		
171.94	2.32	172.46	7.04		
171.95	2.37	172.47	7.21		
171.96	2.42	172.48	7.38		
171.97	2.48	172.49	7.56		
171.98	2.53	172.50	7.73		
171.99	2.58	172.51	7.91		
172.00	2.64	172.52	8.09		
172.01	2.69	172.53	8.27		
172.02	2.75	172.54	8.46		

Stage-Area-Storage for Pond B-27: Basin #27

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
167.35	0	0	167.87	802	208
167.36	15	0	167.88	817	217
167.37	31	0	167.89	832	225
167.38	46	1	167.90	848	233
167.39	62	1	167.91	863	242
167.40	77	2	167.92	879	250
167.41	92	3	167.93	894	259
167.42	108	4	167.94	910	268
167.43	123	5	167.95	925	277
167.44	139	6	167.96	940	287
167.45	154	8	167.97	956	296
167.46	170	9	167.98	971	306
167.47	185	11	167.99	987	316
167.48	200	13	168.00	1,002	326
167.49	216	15	168.01	1,008	336
167.50	231	17	168.02	1,014	346
167.51	247	20	168.03	1,019	356
167.52	262	22	168.04	1,025	366
167.53	277	25	168.05	1,031	376
167.54	293	28	168.06	1,037	387
167.55	308	31	168.07	1,043	397
167.56	324	34	168.08	1,048	408
167.57	339	37	168.09	1,054	418
167.58	355	41	168.10	1,060	429
167.59	370	44	168.11	1,066	439
167.60	385	48	168.12	1,072	450
167.61	401	52	168.13	1,078	461
167.62	416	56	168.14	1,083	472
167.63	432	60	168.15	1,089	482
167.64	447	65	168.16	1,095	493
167.65	462	69	168.17	1,101	504
167.66	478	74	168.18	1,107	515
167.67	493	79	168.19	1,112	527
167.68	509	84	168.20	1,118	538
167.69	524	89	168.21	1,124	549
167.70	540	94	168.22	1,130	560
167.71	555	100	168.23	1,136	571
167.72	570	106	168.24	1,141	583
167.73	586	111	168.25	1,147	594
167.74	601	117	168.26	1,153	606
167.75	617	123	168.27	1,159	617
167.76	632	130	168.28	1,165	629
167.77	647	136	168.29	1,170	641
167.78	663	143	168.30	1,176	652
167.79	678	149	168.31	1,182	664
167.80	694	156	168.32	1,188	676
167.81	709	163	168.33	1,194	688
167.82	725	170	168.34	1,200	700
167.83	740	178	168.35	1,205	712
167.84	755	185	168.36	1,211	724
167.85	771	193	168.37	1,217	736
167.86	786	200	168.38	1,223	748

Stage-Area-Storage for Pond B-27: Basin #27 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
168.39	1,229	761	168.91	1,531	1,478
168.40	1,234	773	168.92	1,537	1,493
168.41	1,240	785	168.93	1,542	1,509
168.42	1,246	798	168.94	1,548	1,524
168.43	1,252	810	168.95	1,554	1,540
168.44	1,258	823	168.96	1,560	1,555
168.45	1,263	835	168.97	1,566	1,571
168.46	1,269	848	168.98	1,571	1,587
168.47	1,275	861	168.99	1,577	1,602
168.48	1,281	874	169.00	1,583	1,618
168.49	1,287	886	169.01	1,589	1,634
168.50	1,293	899	169.02	1,596	1,650
168.51	1,298	912	169.03	1,602	1,666
168.52	1,304	925	169.04	1,609	1,682
168.53	1,310	938	169.05	1,615	1,698
168.54	1,316	951	169.06	1,621	1,714
168.55	1,322	965	169.07	1,628	1,731
168.56	1,327	978	169.08	1,634	1,747
168.57	1,333	991	169.09	1,640	1,763
168.58	1,339	1,005	169.10	1,647	1,780
168.59	1,345	1,018	169.11	1,653	1,796
168.60	1,351	1,031	169.12	1,660	1,813
168.61	1,356	1,045	169.13	1,666	1,829
168.62	1,362	1,059	169.14	1,672	1,846
168.63	1,368	1,072	169.15	1,679	1,863
168.64	1,374	1,086	169.16	1,685	1,880
168.65	1,380	1,100	169.17	1,691	1,896
168.66	1,385	1,114	169.18	1,698	1,913
168.67	1,391	1,127	169.19	1,704	1,930
168.68	1,397	1,141	169.20	1,711	1,948
168.69	1,403	1,155	169.21	1,717	1,965
168.70	1,409	1,169	169.22	1,723	1,982
168.71	1,415	1,184	169.23	1,730	1,999
168.72	1,420	1,198	169.24	1,736	2,016
168.73	1,426	1,212	169.25	1,743	2,034
168.74	1,432	1,226	169.26	1,749	2,051
168.75	1,438	1,241	169.27	1,755	2,069
168.76	1,444	1,255	169.28	1,762	2,086
168.77	1,449	1,269	169.29	1,768	2,104
168.78	1,455	1,284	169.30	1,774	2,122
168.79	1,461	1,299	169.31	1,781	2,140
168.80	1,467	1,313	169.32	1,787	2,157
168.81	1,473	1,328	169.33	1,794	2,175
168.82	1,478	1,343	169.34	1,800	2,193
168.83	1,484	1,357	169.35	1,806	2,211
168.84	1,490	1,372	169.36	1,813	2,229
168.85	1,496	1,387	169.37	1,819	2,248
168.86	1,502	1,402	169.38	1,825	2,266
168.87	1,507	1,417	169.39	1,832	2,284
168.88	1,513	1,432	169.40	1,838	2,302
168.89	1,519	1,448	169.41	1,845	2,321
168.90	1,525	1,463	169.42	1,851	2,339

Stage-Area-Storage for Pond B-27: Basin #27 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
169.43	1,857	2,358	169.95	2,189	3,410
169.44	1,864	2,376	169.96	2,195	3,432
169.45	1,870	2,395	169.97	2,202	3,454
169.46	1,876	2,414	169.98	2,208	3,476
169.47	1,883	2,433	169.99	2,215	3,498
169.48	1,889	2,451	170.00	2,221	3,520
169.49	1,896	2,470	170.01	2,228	3,542
169.50	1,902	2,489	170.02	2,235	3,565
169.51	1,908	2,508	170.03	2,242	3,587
169.52	1,915	2,528	170.04	2,249	3,610
169.53	1,921	2,547	170.05	2,256	3,632
169.54	1,928	2,566	170.06	2,263	3,655
169.55	1,934	2,585	170.07	2,270	3,677
169.56	1,940	2,605	170.08	2,277	3,700
169.57	1,947	2,624	170.09	2,284	3,723
169.58	1,953	2,644	170.10	2,290	3,746
169.59	1,959	2,663	170.11	2,297	3,769
169.60	1,966	2,683	170.12	2,304	3,792
169.61	1,972	2,702	170.13	2,311	3,815
169.62	1,979	2,722	170.14	2,318	3,838
169.63	1,985	2,742	170.15	2,325	3,861
169.64	1,991	2,762	170.16	2,332	3,884
169.65	1,998	2,782	170.17	2,339	3,908
169.66	2,004	2,802	170.18	2,346	3,931
169.67	2,010	2,822	170.19	2,353	3,955
169.68	2,017	2,842	170.20	2,360	3,978
169.69	2,023	2,862	170.21	2,367	4,002
169.70	2,030	2,883	170.22	2,374	4,026
169.71	2,036	2,903	170.23	2,381	4,049
169.72	2,042	2,923	170.24	2,388	4,073
169.73	2,049	2,944	170.25	2,395	4,097
169.74	2,055	2,964	170.26	2,402	4,121
169.75	2,062	2,985	170.27	2,409	4,145
169.76	2,068	3,005	170.28	2,416	4,169
169.77	2,074	3,026	170.29	2,423	4,193
169.78	2,081	3,047	170.30	2,429	4,218
169.79	2,087	3,068	170.31	2,436	4,242
169.80	2,093	3,089	170.32	2,443	4,266
169.81	2,100	3,110	170.33	2,450	4,291
169.82	2,106	3,131	170.34	2,457	4,315
169.83	2,113	3,152	170.35	2,464	4,340
169.84	2,119	3,173	170.36	2,471	4,365
169.85	2,125	3,194	170.37	2,478	4,389
169.86	2,132	3,215	170.38	2,485	4,414
169.87	2,138	3,237	170.39	2,492	4,439
169.88	2,144	3,258	170.40	2,499	4,464
169.89	2,151	3,280	170.41	2,506	4,489
169.90	2,157	3,301	170.42	2,513	4,514
169.91	2,164	3,323	170.43	2,520	4,539
169.92	2,170	3,345	170.44	2,527	4,565
169.93	2,176	3,366	170.45	2,534	4,590
169.94	2,183	3,388	170.46	2,541	4,615

Stage-Area-Storage for Pond B-27: Basin #27 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
170.47	2,548	4,641	170.99	2,909	6,060
170.48	2,555	4,666	171.00	2,916	6,089
170.49	2,562	4,692	171.01	2,924	6,118
170.50	2,569	4,718	171.02	2,931	6,147
170.51	2,575	4,743	171.03	2,939	6,176
170.52	2,582	4,769	171.04	2,946	6,206
170.53	2,589	4,795	171.05	2,954	6,235
170.54	2,596	4,821	171.06	2,961	6,265
170.55	2,603	4,847	171.07	2,969	6,295
170.56	2,610	4,873	171.08	2,976	6,324
170.57	2,617	4,899	171.09	2,984	6,354
170.58	2,624	4,925	171.10	2,991	6,384
170.59	2,631	4,952	171.11	2,999	6,414
170.60	2,638	4,978	171.12	3,006	6,444
170.61	2,645	5,004	171.13	3,014	6,474
170.62	2,652	5,031	171.14	3,021	6,504
170.63	2,659	5,057	171.15	3,029	6,534
170.64	2,666	5,084	171.16	3,036	6,565
170.65	2,673	5,111	171.17	3,044	6,595
170.66	2,680	5,137	171.18	3,051	6,626
170.67	2,687	5,164	171.19	3,059	6,656
170.68	2,694	5,191	171.20	3,066	6,687
170.69	2,701	5,218	171.21	3,074	6,718
170.70	2,707	5,245	171.22	3,081	6,748
170.71	2,714	5,272	171.23	3,089	6,779
170.72	2,721	5,299	171.24	3,096	6,810
170.73	2,728	5,327	171.25	3,104	6,841
170.74	2,735	5,354	171.26	3,111	6,872
170.75	2,742	5,381	171.27	3,119	6,903
170.76	2,749	5,409	171.28	3,126	6,935
170.77	2,756	5,436	171.29	3,134	6,966
170.78	2,763	5,464	171.30	3,141	6,997
170.79	2,770	5,492	171.31	3,149	7,029
170.80	2,777	5,519	171.32	3,156	7,060
170.81	2,784	5,547	171.33	3,164	7,092
170.82	2,791	5,575	171.34	3,171	7,123
170.83	2,798	5,603	171.35	3,179	7,155
170.84	2,805	5,631	171.36	3,186	7,187
170.85	2,812	5,659	171.37	3,194	7,219
170.86	2,819	5,687	171.38	3,201	7,251
170.87	2,826	5,715	171.39	3,209	7,283
170.88	2,833	5,744	171.40	3,216	7,315
170.89	2,840	5,772	171.41	3,224	7,347
170.90	2,847	5,801	171.42	3,231	7,380
170.91	2,853	5,829	171.43	3,239	7,412
170.92	2,860	5,858	171.44	3,246	7,444
170.93	2,867	5,886	171.45	3,254	7,477
170.94	2,874	5,915	171.46	3,261	7,509
170.95	2,881	5,944	171.47	3,269	7,542
170.96	2,888	5,973	171.48	3,276	7,575
170.97	2,895	6,001	171.49	3,284	7,608
170.98	2,902	6,030	171.50	3,292	7,641

Stage-Area-Storage for Pond B-27: Basin #27 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
171.51	3,299	7,673	172.03	3,680	9,490
171.52	3,307	7,707	172.04	3,684	9,527
171.53	3,314	7,740	172.05	3,688	9,564
171.54	3,322	7,773	172.06	3,692	9,601
171.55	3,329	7,806	172.07	3,696	9,638
171.56	3,337	7,839	172.08	3,700	9,675
171.57	3,344	7,873	172.09	3,705	9,712
171.58	3,352	7,906	172.10	3,709	9,749
171.59	3,359	7,940	172.11	3,713	9,786
171.60	3,367	7,973	172.12	3,717	9,823
171.61	3,374	8,007	172.13	3,721	9,860
171.62	3,382	8,041	172.14	3,726	9,898
171.63	3,389	8,075	172.15	3,730	9,935
171.64	3,397	8,109	172.16	3,734	9,972
171.65	3,404	8,143	172.17	3,738	10,010
171.66	3,412	8,177	172.18	3,742	10,047
171.67	3,419	8,211	172.19	3,746	10,084
171.68	3,427	8,245	172.20	3,751	10,122
171.69	3,434	8,279	172.21	3,755	10,159
171.70	3,442	8,314	172.22	3,759	10,197
171.71	3,449	8,348	172.23	3,763	10,235
171.72	3,457	8,383	172.24	3,767	10,272
171.73	3,464	8,417	172.25	3,771	10,310
171.74	3,472	8,452	172.26	3,776	10,348
171.75	3,479	8,487	172.27	3,780	10,385
171.76	3,487	8,522	172.28	3,784	10,423
171.77	3,494	8,557	172.29	3,788	10,461
171.78	3,502	8,592	172.30	3,792	10,499
171.79	3,509	8,627	172.31	3,797	10,537
171.80	3,517	8,662	172.32	3,801	10,575
171.81	3,524	8,697	172.33	3,805	10,613
171.82	3,532	8,732	172.34	3,809	10,651
171.83	3,539	8,768	172.35	3,813	10,689
171.84	3,547	8,803	172.36	3,817	10,727
171.85	3,554	8,839	172.37	3,822	10,766
171.86	3,562	8,874	172.38	3,826	10,804
171.87	3,569	8,910	172.39	3,830	10,842
171.88	3,577	8,946	172.40	3,834	10,880
171.89	3,584	8,981	172.41	3,838	10,919
171.90	3,592	9,017	172.42	3,843	10,957
171.91	3,599	9,053	172.43	3,847	10,996
171.92	3,607	9,089	172.44	3,851	11,034
171.93	3,614	9,125	172.45	3,855	11,073
171.94	3,622	9,161	172.46	3,859	11,111
171.95	3,629	9,198	172.47	3,863	11,150
171.96	3,637	9,234	172.48	3,868	11,188
171.97	3,644	9,270	172.49	3,872	11,227
171.98	3,652	9,307	172.50	3,876	11,266
171.99	3,659	9,344	172.51	3,880	11,305
172.00	3,667	9,380	172.52	3,884	11,343
172.01	3,671	9,417	172.53	3,888	11,382
172.02	3,675	9,454	172.54	3,893	11,421

Stage-Area-Storage for Pond B-27: Basin #27 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
172.55	3,897	11,460
172.56	3,901	11,499
172.57	3,905	11,538
172.58	3,909	11,577
172.59	3,914	11,616
172.60	3,918	11,656
172.61	3,922	11,695
172.62	3,926	11,734
172.63	3,930	11,773
172.64	3,934	11,813
172.65	3,939	11,852
172.66	3,943	11,891
172.67	3,947	11,931
172.68	3,951	11,970
172.69	3,955	12,010
172.70	3,960	12,049
172.71	3,964	12,089
172.72	3,968	12,129
172.73	3,972	12,168
172.74	3,976	12,208
172.75	3,980	12,248
172.76	3,985	12,288
172.77	3,989	12,328
172.78	3,993	12,368
172.79	3,997	12,407
172.80	4,001	12,447
172.81	4,005	12,488
172.82	4,010	12,528
172.83	4,014	12,568
172.84	4,018	12,608
172.85	4,022	12,648
172.86	4,026	12,688
172.87	4,031	12,729
172.88	4,035	12,769
172.89	4,039	12,809
172.90	4,043	12,850
172.91	4,047	12,890
172.92	4,051	12,931
172.93	4,056	12,971
172.94	4,060	13,012
172.95	4,064	13,052

Summary for Pond B-28: Basin #28

Inflow Area = 2.333 ac, 34.85% Impervious, Inflow Depth = 1.83" for Current 2 yr event
 Inflow = 4.30 cfs @ 12.18 hrs, Volume= 0.355 af
 Outflow = 3.47 cfs @ 12.25 hrs, Volume= 0.276 af, Atten= 19%, Lag= 4.7 min
 Primary = 3.47 cfs @ 12.25 hrs, Volume= 0.276 af
 Routed to Link PDA-2 : Proposed Drainage Area #2

Routing by Stor-Ind method, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 Peak Elev= 168.44' @ 12.25 hrs Surf.Area= 2,794 sf Storage= 4,946 cf

Plug-Flow detention time= 162.0 min calculated for 0.275 af (77% of inflow)
 Center-of-Mass det. time= 72.2 min (875.6 - 803.4)

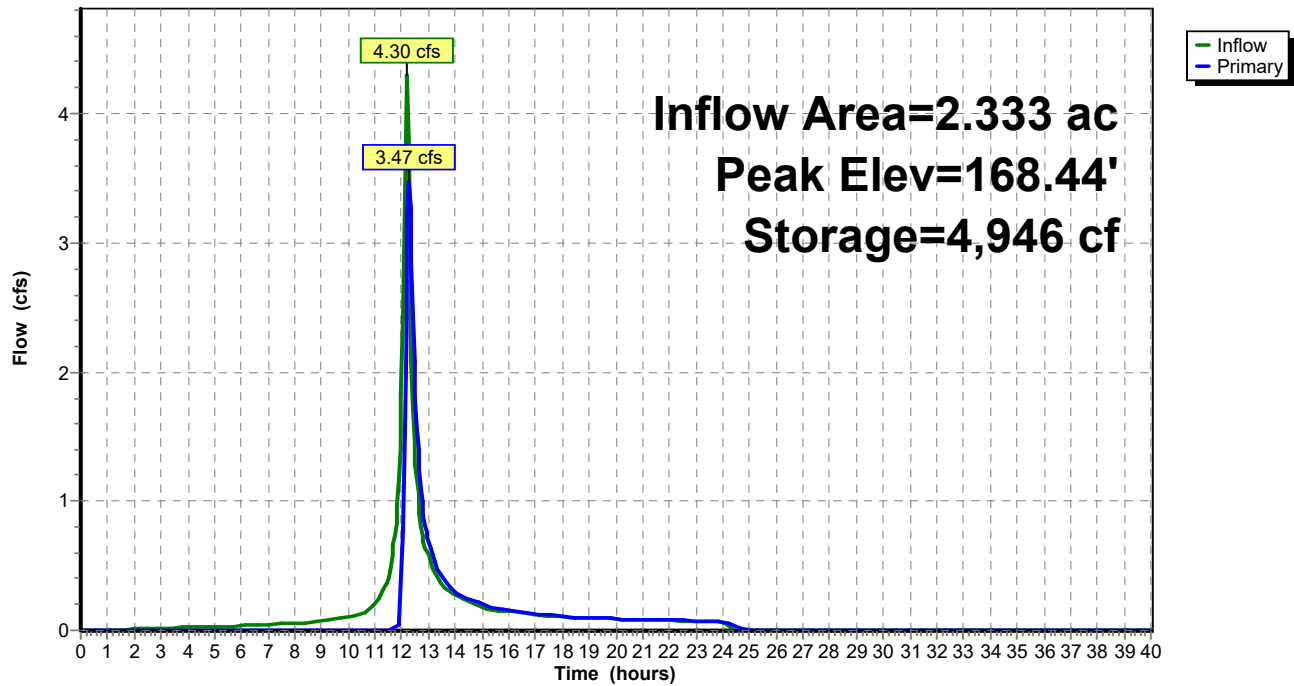
Volume	Invert	Avail.Storage	Storage Description
#1	165.65'	12,318 cf	Custom Stage Data (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
165.65	0	0	0
166.00	1,145	200	200
167.00	1,778	1,462	1,662
168.00	2,465	2,122	3,783
169.00	3,210	2,838	6,621
170.00	4,012	3,611	10,232
170.50	4,334	2,087	12,318

Device	Routing	Invert	Outlet Devices
#1	Primary	165.65'	18.0" Round Culvert L= 186.0' Ke= 0.500 Inlet / Outlet Invert= 165.65' / 163.70' S= 0.0105 '/' Cc= 0.900 n= 0.013, Flow Area= 1.77 sf
#2	Device 1	167.87'	30.0" W x 9.0" H Vert. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#3	Device 1	169.50'	1.0' long Sharp-Crested Rectangular Weir 2 End Contraction(s)
#4	Device 1	170.00'	4.0' long Sharp-Crested Rectangular Weir 2 End Contraction(s)
#5	Primary	170.49'	50.0' long + 3.0 ' SideZ x 5.0' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 Coef. (English) 2.34 2.50 2.70 2.68 2.68 2.66 2.65 2.65 2.65 2.65 2.67 2.66 2.68 2.70 2.74 2.79 2.88

Primary OutFlow Max=3.46 cfs @ 12.25 hrs HW=168.44' (Free Discharge)

1=Culvert (Passes 3.46 cfs of 11.53 cfs potential flow)
 2=Orifice/Grate (Orifice Controls 3.46 cfs @ 2.42 fps)
 3=Sharp-Crested Rectangular Weir(Controls 0.00 cfs)
 4=Sharp-Crested Rectangular Weir(Controls 0.00 cfs)
 5=Broad-Crested Rectangular Weir(Controls 0.00 cfs)

Pond B-28: Basin #28**Hydrograph**

Stage-Discharge for Pond B-28: Basin #28

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
165.65	0.00	166.17	0.00	166.69	0.00	167.21	0.00
165.66	0.00	166.18	0.00	166.70	0.00	167.22	0.00
165.67	0.00	166.19	0.00	166.71	0.00	167.23	0.00
165.68	0.00	166.20	0.00	166.72	0.00	167.24	0.00
165.69	0.00	166.21	0.00	166.73	0.00	167.25	0.00
165.70	0.00	166.22	0.00	166.74	0.00	167.26	0.00
165.71	0.00	166.23	0.00	166.75	0.00	167.27	0.00
165.72	0.00	166.24	0.00	166.76	0.00	167.28	0.00
165.73	0.00	166.25	0.00	166.77	0.00	167.29	0.00
165.74	0.00	166.26	0.00	166.78	0.00	167.30	0.00
165.75	0.00	166.27	0.00	166.79	0.00	167.31	0.00
165.76	0.00	166.28	0.00	166.80	0.00	167.32	0.00
165.77	0.00	166.29	0.00	166.81	0.00	167.33	0.00
165.78	0.00	166.30	0.00	166.82	0.00	167.34	0.00
165.79	0.00	166.31	0.00	166.83	0.00	167.35	0.00
165.80	0.00	166.32	0.00	166.84	0.00	167.36	0.00
165.81	0.00	166.33	0.00	166.85	0.00	167.37	0.00
165.82	0.00	166.34	0.00	166.86	0.00	167.38	0.00
165.83	0.00	166.35	0.00	166.87	0.00	167.39	0.00
165.84	0.00	166.36	0.00	166.88	0.00	167.40	0.00
165.85	0.00	166.37	0.00	166.89	0.00	167.41	0.00
165.86	0.00	166.38	0.00	166.90	0.00	167.42	0.00
165.87	0.00	166.39	0.00	166.91	0.00	167.43	0.00
165.88	0.00	166.40	0.00	166.92	0.00	167.44	0.00
165.89	0.00	166.41	0.00	166.93	0.00	167.45	0.00
165.90	0.00	166.42	0.00	166.94	0.00	167.46	0.00
165.91	0.00	166.43	0.00	166.95	0.00	167.47	0.00
165.92	0.00	166.44	0.00	166.96	0.00	167.48	0.00
165.93	0.00	166.45	0.00	166.97	0.00	167.49	0.00
165.94	0.00	166.46	0.00	166.98	0.00	167.50	0.00
165.95	0.00	166.47	0.00	166.99	0.00	167.51	0.00
165.96	0.00	166.48	0.00	167.00	0.00	167.52	0.00
165.97	0.00	166.49	0.00	167.01	0.00	167.53	0.00
165.98	0.00	166.50	0.00	167.02	0.00	167.54	0.00
165.99	0.00	166.51	0.00	167.03	0.00	167.55	0.00
166.00	0.00	166.52	0.00	167.04	0.00	167.56	0.00
166.01	0.00	166.53	0.00	167.05	0.00	167.57	0.00
166.02	0.00	166.54	0.00	167.06	0.00	167.58	0.00
166.03	0.00	166.55	0.00	167.07	0.00	167.59	0.00
166.04	0.00	166.56	0.00	167.08	0.00	167.60	0.00
166.05	0.00	166.57	0.00	167.09	0.00	167.61	0.00
166.06	0.00	166.58	0.00	167.10	0.00	167.62	0.00
166.07	0.00	166.59	0.00	167.11	0.00	167.63	0.00
166.08	0.00	166.60	0.00	167.12	0.00	167.64	0.00
166.09	0.00	166.61	0.00	167.13	0.00	167.65	0.00
166.10	0.00	166.62	0.00	167.14	0.00	167.66	0.00
166.11	0.00	166.63	0.00	167.15	0.00	167.67	0.00
166.12	0.00	166.64	0.00	167.16	0.00	167.68	0.00
166.13	0.00	166.65	0.00	167.17	0.00	167.69	0.00
166.14	0.00	166.66	0.00	167.18	0.00	167.70	0.00
166.15	0.00	166.67	0.00	167.19	0.00	167.71	0.00
166.16	0.00	166.68	0.00	167.20	0.00	167.72	0.00

Stage-Discharge for Pond B-28: Basin #28 (continued)

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
167.73	0.00	168.25	1.88	168.77	6.39	169.29	9.18
167.74	0.00	168.26	1.95	168.78	6.45	169.30	9.22
167.75	0.00	168.27	2.03	168.79	6.52	169.31	9.27
167.76	0.00	168.28	2.11	168.80	6.58	169.32	9.31
167.77	0.00	168.29	2.18	168.81	6.65	169.33	9.36
167.78	0.00	168.30	2.26	168.82	6.71	169.34	9.40
167.79	0.00	168.31	2.34	168.83	6.78	169.35	9.44
167.80	0.00	168.32	2.42	168.84	6.84	169.36	9.49
167.81	0.00	168.33	2.50	168.85	6.90	169.37	9.53
167.82	0.00	168.34	2.59	168.86	6.96	169.38	9.57
167.83	0.00	168.35	2.67	168.87	7.02	169.39	9.62
167.84	0.00	168.36	2.75	168.88	7.08	169.40	9.66
167.85	0.00	168.37	2.84	168.89	7.14	169.41	9.70
167.86	0.00	168.38	2.92	168.90	7.20	169.42	9.74
167.87	0.00	168.39	3.01	168.91	7.26	169.43	9.79
167.88	0.01	168.40	3.10	168.92	7.32	169.44	9.83
167.89	0.02	168.41	3.18	168.93	7.37	169.45	9.87
167.90	0.04	168.42	3.27	168.94	7.43	169.46	9.91
167.91	0.06	168.43	3.36	168.95	7.49	169.47	9.95
167.92	0.09	168.44	3.45	168.96	7.54	169.48	9.99
167.93	0.12	168.45	3.54	168.97	7.60	169.49	10.03
167.94	0.15	168.46	3.64	168.98	7.65	169.50	10.08
167.95	0.18	168.47	3.73	168.99	7.71	169.51	10.12
167.96	0.22	168.48	3.82	169.00	7.76	169.52	10.17
167.97	0.25	168.49	3.92	169.01	7.81	169.53	10.21
167.98	0.29	168.50	4.01	169.02	7.87	169.54	10.26
167.99	0.33	168.51	4.11	169.03	7.92	169.55	10.31
168.00	0.38	168.52	4.21	169.04	7.97	169.56	10.36
168.01	0.42	168.53	4.30	169.05	8.02	169.57	10.42
168.02	0.47	168.54	4.40	169.06	8.08	169.58	10.47
168.03	0.51	168.55	4.50	169.07	8.13	169.59	10.52
168.04	0.56	168.56	4.60	169.08	8.18	169.60	10.58
168.05	0.61	168.57	4.70	169.09	8.23	169.61	10.63
168.06	0.66	168.58	4.80	169.10	8.28	169.62	10.69
168.07	0.72	168.59	4.90	169.11	8.33	169.63	10.74
168.08	0.77	168.60	5.01	169.12	8.38	169.64	10.80
168.09	0.83	168.61	5.11	169.13	8.43	169.65	10.85
168.10	0.89	168.62	5.21	169.14	8.48	169.66	10.91
168.11	0.94	168.63	5.31	169.15	8.52	169.67	10.97
168.12	1.00	168.64	5.40	169.16	8.57	169.68	11.02
168.13	1.06	168.65	5.49	169.17	8.62	169.69	11.08
168.14	1.13	168.66	5.57	169.18	8.67	169.70	11.14
168.15	1.19	168.67	5.65	169.19	8.72	169.71	11.20
168.16	1.25	168.68	5.73	169.20	8.76	169.72	11.26
168.17	1.32	168.69	5.81	169.21	8.81	169.73	11.32
168.18	1.39	168.70	5.89	169.22	8.86	169.74	11.38
168.19	1.45	168.71	5.96	169.23	8.90	169.75	11.43
168.20	1.52	168.72	6.04	169.24	8.95	169.76	11.49
168.21	1.59	168.73	6.11	169.25	9.00	169.77	11.55
168.22	1.66	168.74	6.18	169.26	9.04	169.78	11.61
168.23	1.73	168.75	6.25	169.27	9.09	169.79	11.67
168.24	1.81	168.76	6.32	169.28	9.13	169.80	11.74

Stage-Discharge for Pond B-28: Basin #28 (continued)

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
169.81	11.80	170.33	14.51
169.82	11.86	170.34	14.52
169.83	11.92	170.35	14.54
169.84	11.98	170.36	14.55
169.85	12.04	170.37	14.56
169.86	12.10	170.38	14.58
169.87	12.16	170.39	14.59
169.88	12.23	170.40	14.61
169.89	12.29	170.41	14.62
169.90	12.35	170.42	14.63
169.91	12.41	170.43	14.65
169.92	12.47	170.44	14.66
169.93	12.54	170.45	14.68
169.94	12.60	170.46	14.69
169.95	12.66	170.47	14.70
169.96	12.73	170.48	14.72
169.97	12.79	170.49	14.73
169.98	12.85	170.50	14.86
169.99	12.91		
170.00	12.98		
170.01	13.05		
170.02	13.14		
170.03	13.24		
170.04	13.34		
170.05	13.44		
170.06	13.55		
170.07	13.66		
170.08	13.78		
170.09	13.90		
170.10	14.02		
170.11	14.15		
170.12	14.21		
170.13	14.22		
170.14	14.24		
170.15	14.25		
170.16	14.27		
170.17	14.28		
170.18	14.29		
170.19	14.31		
170.20	14.32		
170.21	14.34		
170.22	14.35		
170.23	14.37		
170.24	14.38		
170.25	14.39		
170.26	14.41		
170.27	14.42		
170.28	14.44		
170.29	14.45		
170.30	14.47		
170.31	14.48		
170.32	14.49		

Stage-Area-Storage for Pond B-28: Basin #28

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
165.65	0	0	166.17	1,253	404
165.66	33	0	166.18	1,259	417
165.67	65	1	166.19	1,265	429
165.68	98	1	166.20	1,272	442
165.69	131	3	166.21	1,278	455
165.70	164	4	166.22	1,284	468
165.71	196	6	166.23	1,291	480
165.72	229	8	166.24	1,297	493
165.73	262	10	166.25	1,303	506
165.74	294	13	166.26	1,310	519
165.75	327	16	166.27	1,316	533
165.76	360	20	166.28	1,322	546
165.77	393	24	166.29	1,329	559
165.78	425	28	166.30	1,335	572
165.79	458	32	166.31	1,341	586
165.80	491	37	166.32	1,348	599
165.81	523	42	166.33	1,354	613
165.82	556	47	166.34	1,360	626
165.83	589	53	166.35	1,367	640
165.84	622	59	166.36	1,373	654
165.85	654	65	166.37	1,379	667
165.86	687	72	166.38	1,386	681
165.87	720	79	166.39	1,392	695
165.88	752	87	166.40	1,398	709
165.89	785	94	166.41	1,405	723
165.90	818	102	166.42	1,411	737
165.91	851	111	166.43	1,417	751
165.92	883	119	166.44	1,424	765
165.93	916	128	166.45	1,430	780
165.94	949	138	166.46	1,436	794
165.95	981	147	166.47	1,443	808
165.96	1,014	157	166.48	1,449	823
165.97	1,047	167	166.49	1,455	837
165.98	1,080	178	166.50	1,462	852
165.99	1,112	189	166.51	1,468	867
166.00	1,145	200	166.52	1,474	881
166.01	1,151	212	166.53	1,480	896
166.02	1,158	223	166.54	1,487	911
166.03	1,164	235	166.55	1,493	926
166.04	1,170	247	166.56	1,499	941
166.05	1,177	258	166.57	1,506	956
166.06	1,183	270	166.58	1,512	971
166.07	1,189	282	166.59	1,518	986
166.08	1,196	294	166.60	1,525	1,001
166.09	1,202	306	166.61	1,531	1,017
166.10	1,208	318	166.62	1,537	1,032
166.11	1,215	330	166.63	1,544	1,047
166.12	1,221	342	166.64	1,550	1,063
166.13	1,227	355	166.65	1,556	1,078
166.14	1,234	367	166.66	1,563	1,094
166.15	1,240	379	166.67	1,569	1,110
166.16	1,246	392	166.68	1,575	1,125

Stage-Area-Storage for Pond B-28: Basin #28 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
166.69	1,582	1,141	167.21	1,922	2,050
166.70	1,588	1,157	167.22	1,929	2,070
166.71	1,594	1,173	167.23	1,936	2,089
166.72	1,601	1,189	167.24	1,943	2,108
166.73	1,607	1,205	167.25	1,950	2,128
166.74	1,613	1,221	167.26	1,957	2,147
166.75	1,620	1,237	167.27	1,963	2,167
166.76	1,626	1,253	167.28	1,970	2,187
166.77	1,632	1,270	167.29	1,977	2,206
166.78	1,639	1,286	167.30	1,984	2,226
166.79	1,645	1,302	167.31	1,991	2,246
166.80	1,651	1,319	167.32	1,998	2,266
166.81	1,658	1,335	167.33	2,005	2,286
166.82	1,664	1,352	167.34	2,012	2,306
166.83	1,670	1,369	167.35	2,018	2,326
166.84	1,677	1,385	167.36	2,025	2,346
166.85	1,683	1,402	167.37	2,032	2,367
166.86	1,689	1,419	167.38	2,039	2,387
166.87	1,696	1,436	167.39	2,046	2,408
166.88	1,702	1,453	167.40	2,053	2,428
166.89	1,708	1,470	167.41	2,060	2,449
166.90	1,715	1,487	167.42	2,067	2,469
166.91	1,721	1,504	167.43	2,073	2,490
166.92	1,727	1,522	167.44	2,080	2,511
166.93	1,734	1,539	167.45	2,087	2,532
166.94	1,740	1,556	167.46	2,094	2,552
166.95	1,746	1,574	167.47	2,101	2,573
166.96	1,753	1,591	167.48	2,108	2,594
166.97	1,759	1,609	167.49	2,115	2,616
166.98	1,765	1,626	167.50	2,122	2,637
166.99	1,772	1,644	167.51	2,128	2,658
167.00	1,778	1,662	167.52	2,135	2,679
167.01	1,785	1,680	167.53	2,142	2,701
167.02	1,792	1,698	167.54	2,149	2,722
167.03	1,799	1,716	167.55	2,156	2,744
167.04	1,805	1,734	167.56	2,163	2,765
167.05	1,812	1,752	167.57	2,170	2,787
167.06	1,819	1,770	167.58	2,176	2,809
167.07	1,826	1,788	167.59	2,183	2,830
167.08	1,833	1,806	167.60	2,190	2,852
167.09	1,840	1,825	167.61	2,197	2,874
167.10	1,847	1,843	167.62	2,204	2,896
167.11	1,854	1,862	167.63	2,211	2,918
167.12	1,860	1,880	167.64	2,218	2,940
167.13	1,867	1,899	167.65	2,225	2,963
167.14	1,874	1,918	167.66	2,231	2,985
167.15	1,881	1,936	167.67	2,238	3,007
167.16	1,888	1,955	167.68	2,245	3,030
167.17	1,895	1,974	167.69	2,252	3,052
167.18	1,902	1,993	167.70	2,259	3,075
167.19	1,909	2,012	167.71	2,266	3,097
167.20	1,915	2,031	167.72	2,273	3,120

Stage-Area-Storage for Pond B-28: Basin #28 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
167.73	2,280	3,143	168.25	2,651	4,423
167.74	2,286	3,166	168.26	2,659	4,449
167.75	2,293	3,189	168.27	2,666	4,476
167.76	2,300	3,212	168.28	2,674	4,503
167.77	2,307	3,235	168.29	2,681	4,530
167.78	2,314	3,258	168.30	2,689	4,556
167.79	2,321	3,281	168.31	2,696	4,583
167.80	2,328	3,304	168.32	2,703	4,610
167.81	2,334	3,327	168.33	2,711	4,637
167.82	2,341	3,351	168.34	2,718	4,665
167.83	2,348	3,374	168.35	2,726	4,692
167.84	2,355	3,398	168.36	2,733	4,719
167.85	2,362	3,421	168.37	2,741	4,746
167.86	2,369	3,445	168.38	2,748	4,774
167.87	2,376	3,469	168.39	2,756	4,801
167.88	2,383	3,493	168.40	2,763	4,829
167.89	2,389	3,516	168.41	2,770	4,857
167.90	2,396	3,540	168.42	2,778	4,884
167.91	2,403	3,564	168.43	2,785	4,912
167.92	2,410	3,588	168.44	2,793	4,940
167.93	2,417	3,613	168.45	2,800	4,968
167.94	2,424	3,637	168.46	2,808	4,996
167.95	2,431	3,661	168.47	2,815	5,024
167.96	2,438	3,685	168.48	2,823	5,052
167.97	2,444	3,710	168.49	2,830	5,081
167.98	2,451	3,734	168.50	2,838	5,109
167.99	2,458	3,759	168.51	2,845	5,137
168.00	2,465	3,783	168.52	2,852	5,166
168.01	2,472	3,808	168.53	2,860	5,194
168.02	2,480	3,833	168.54	2,867	5,223
168.03	2,487	3,858	168.55	2,875	5,252
168.04	2,495	3,883	168.56	2,882	5,281
168.05	2,502	3,908	168.57	2,890	5,309
168.06	2,510	3,933	168.58	2,897	5,338
168.07	2,517	3,958	168.59	2,905	5,367
168.08	2,525	3,983	168.60	2,912	5,396
168.09	2,532	4,008	168.61	2,919	5,426
168.10	2,539	4,034	168.62	2,927	5,455
168.11	2,547	4,059	168.63	2,934	5,484
168.12	2,554	4,085	168.64	2,942	5,514
168.13	2,562	4,110	168.65	2,949	5,543
168.14	2,569	4,136	168.66	2,957	5,573
168.15	2,577	4,162	168.67	2,964	5,602
168.16	2,584	4,187	168.68	2,972	5,632
168.17	2,592	4,213	168.69	2,979	5,662
168.18	2,599	4,239	168.70	2,987	5,691
168.19	2,607	4,265	168.71	2,994	5,721
168.20	2,614	4,291	168.72	3,001	5,751
168.21	2,621	4,317	168.73	3,009	5,781
168.22	2,629	4,344	168.74	3,016	5,811
168.23	2,636	4,370	168.75	3,024	5,842
168.24	2,644	4,396	168.76	3,031	5,872

Stage-Area-Storage for Pond B-28: Basin #28 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
168.77	3,039	5,902	169.29	3,443	7,585
168.78	3,046	5,933	169.30	3,451	7,620
168.79	3,054	5,963	169.31	3,459	7,655
168.80	3,061	5,994	169.32	3,467	7,689
168.81	3,068	6,024	169.33	3,475	7,724
168.82	3,076	6,055	169.34	3,483	7,759
168.83	3,083	6,086	169.35	3,491	7,793
168.84	3,091	6,117	169.36	3,499	7,828
168.85	3,098	6,148	169.37	3,507	7,863
168.86	3,106	6,179	169.38	3,515	7,899
168.87	3,113	6,210	169.39	3,523	7,934
168.88	3,121	6,241	169.40	3,531	7,969
168.89	3,128	6,272	169.41	3,539	8,004
168.90	3,136	6,304	169.42	3,547	8,040
168.91	3,143	6,335	169.43	3,555	8,075
168.92	3,150	6,366	169.44	3,563	8,111
168.93	3,158	6,398	169.45	3,571	8,147
168.94	3,165	6,430	169.46	3,579	8,182
168.95	3,173	6,461	169.47	3,587	8,218
168.96	3,180	6,493	169.48	3,595	8,254
168.97	3,188	6,525	169.49	3,603	8,290
168.98	3,195	6,557	169.50	3,611	8,326
168.99	3,203	6,589	169.51	3,619	8,362
169.00	3,210	6,621	169.52	3,627	8,399
169.01	3,218	6,653	169.53	3,635	8,435
169.02	3,226	6,685	169.54	3,643	8,471
169.03	3,234	6,718	169.55	3,651	8,508
169.04	3,242	6,750	169.56	3,659	8,544
169.05	3,250	6,782	169.57	3,667	8,581
169.06	3,258	6,815	169.58	3,675	8,618
169.07	3,266	6,848	169.59	3,683	8,654
169.08	3,274	6,880	169.60	3,691	8,691
169.09	3,282	6,913	169.61	3,699	8,728
169.10	3,290	6,946	169.62	3,707	8,765
169.11	3,298	6,979	169.63	3,715	8,802
169.12	3,306	7,012	169.64	3,723	8,840
169.13	3,314	7,045	169.65	3,731	8,877
169.14	3,322	7,078	169.66	3,739	8,914
169.15	3,330	7,111	169.67	3,747	8,952
169.16	3,338	7,145	169.68	3,755	8,989
169.17	3,346	7,178	169.69	3,763	9,027
169.18	3,354	7,212	169.70	3,771	9,064
169.19	3,362	7,245	169.71	3,779	9,102
169.20	3,370	7,279	169.72	3,787	9,140
169.21	3,378	7,313	169.73	3,795	9,178
169.22	3,386	7,346	169.74	3,803	9,216
169.23	3,394	7,380	169.75	3,812	9,254
169.24	3,402	7,414	169.76	3,820	9,292
169.25	3,411	7,448	169.77	3,828	9,330
169.26	3,419	7,483	169.78	3,836	9,369
169.27	3,427	7,517	169.79	3,844	9,407
169.28	3,435	7,551	169.80	3,852	9,446

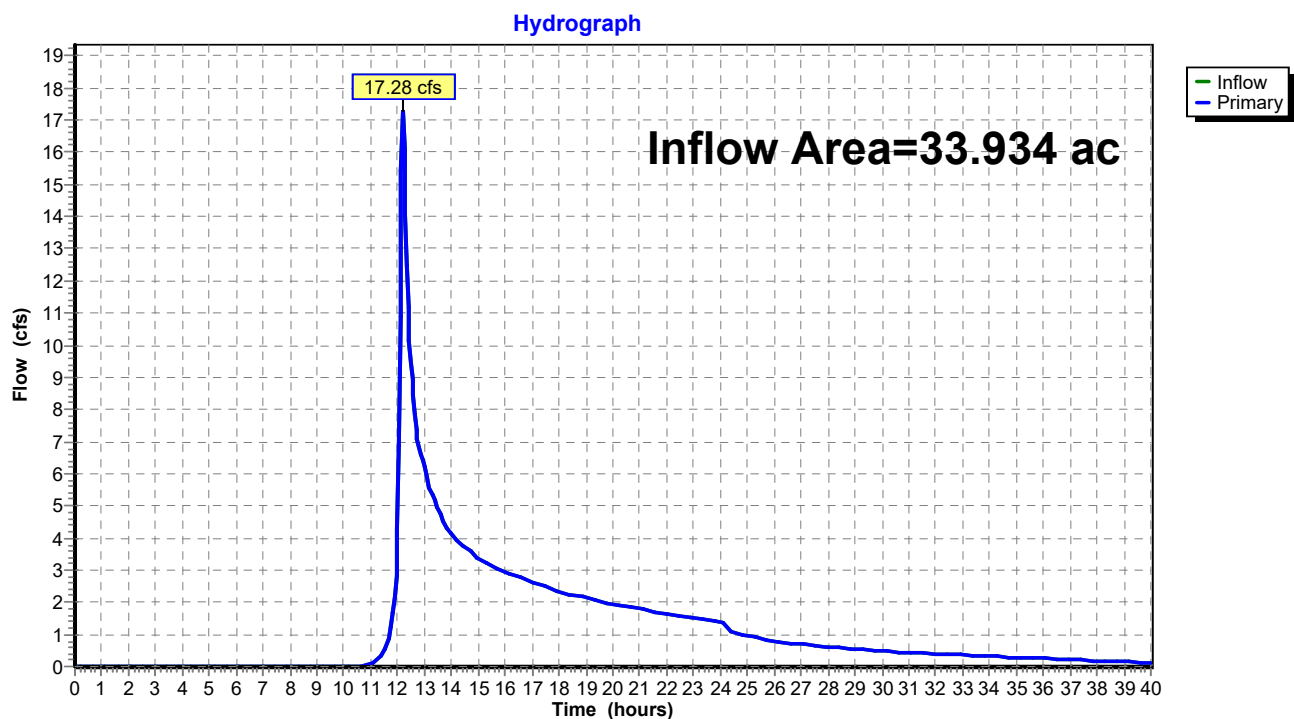
Stage-Area-Storage for Pond B-28: Basin #28 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
169.81	3,860	9,484	170.33	4,225	11,591
169.82	3,868	9,523	170.34	4,231	11,633
169.83	3,876	9,561	170.35	4,237	11,676
169.84	3,884	9,600	170.36	4,244	11,718
169.85	3,892	9,639	170.37	4,250	11,760
169.86	3,900	9,678	170.38	4,257	11,803
169.87	3,908	9,717	170.39	4,263	11,846
169.88	3,916	9,756	170.40	4,270	11,888
169.89	3,924	9,795	170.41	4,276	11,931
169.90	3,932	9,835	170.42	4,282	11,974
169.91	3,940	9,874	170.43	4,289	12,017
169.92	3,948	9,913	170.44	4,295	12,059
169.93	3,956	9,953	170.45	4,302	12,102
169.94	3,964	9,993	170.46	4,308	12,146
169.95	3,972	10,032	170.47	4,315	12,189
169.96	3,980	10,072	170.48	4,321	12,232
169.97	3,988	10,112	170.49	4,328	12,275
169.98	3,996	10,152	170.50	4,334	12,318
169.99	4,004	10,192			
170.00	4,012	10,232			
170.01	4,018	10,272			
170.02	4,025	10,312			
170.03	4,031	10,353			
170.04	4,038	10,393			
170.05	4,044	10,433			
170.06	4,051	10,474			
170.07	4,057	10,514			
170.08	4,064	10,555			
170.09	4,070	10,596			
170.10	4,076	10,636			
170.11	4,083	10,677			
170.12	4,089	10,718			
170.13	4,096	10,759			
170.14	4,102	10,800			
170.15	4,109	10,841			
170.16	4,115	10,882			
170.17	4,121	10,923			
170.18	4,128	10,964			
170.19	4,134	11,006			
170.20	4,141	11,047			
170.21	4,147	11,089			
170.22	4,154	11,130			
170.23	4,160	11,172			
170.24	4,167	11,213			
170.25	4,173	11,255			
170.26	4,179	11,297			
170.27	4,186	11,339			
170.28	4,192	11,380			
170.29	4,199	11,422			
170.30	4,205	11,464			
170.31	4,212	11,507			
170.32	4,218	11,549			

Summary for Link PDA-2: Proposed Drainage Area #2

Inflow Area = 33.934 ac, 26.90% Impervious, Inflow Depth > 1.34" for Current 2 yr event
Inflow = 17.28 cfs @ 12.21 hrs, Volume= 3.799 af
Primary = 17.28 cfs @ 12.21 hrs, Volume= 3.799 af, Atten= 0%, Lag= 0.0 min
Routed to nonexistent node DP-1

Primary outflow = Inflow, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs

Link PDA-2: Proposed Drainage Area #2

Summary for Subcatchment 18I: PDA-18 (impervious)

Runoff = 2.09 cfs @ 12.17 hrs, Volume= 0.182 af, Depth= 4.86"
 Routed to Pond B-18 : Basin #18

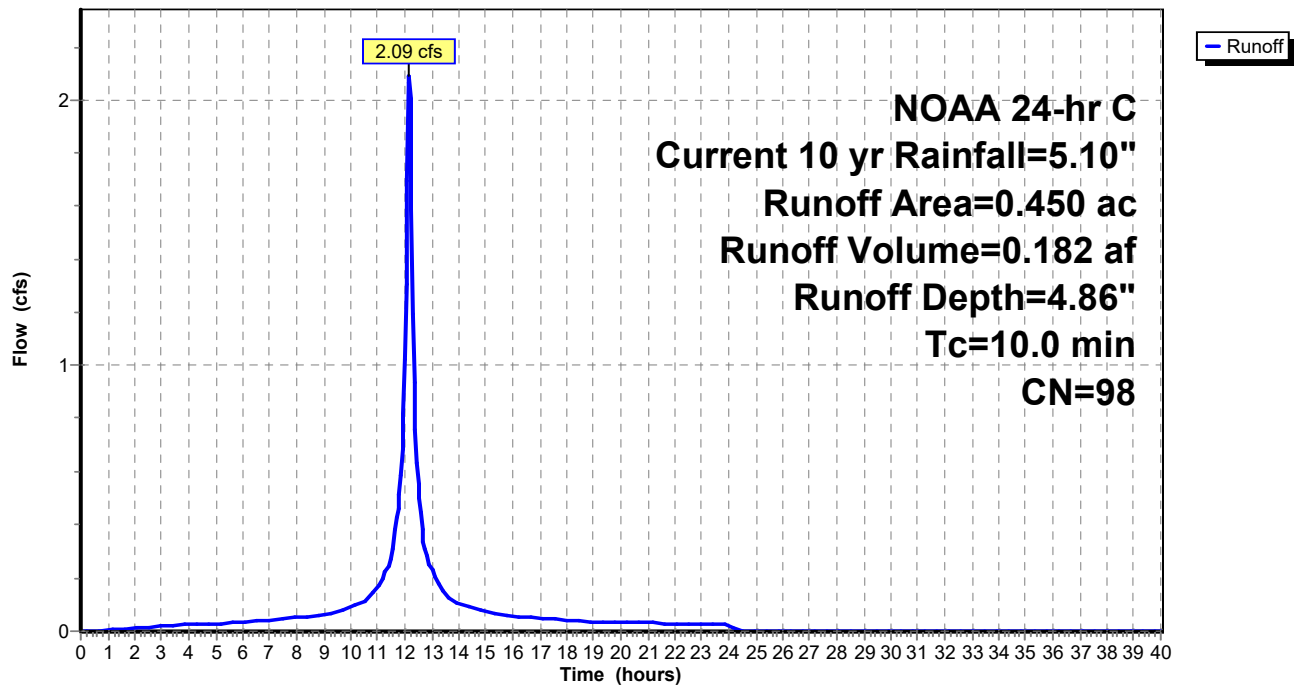
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 NOAA 24-hr C Current 10 yr Rainfall=5.10"

Area (ac)	CN	Description
* 0.000	98	Pavement, HSG C
* 0.450	98	Roof, HSG C
* 0.000	98	Concrete, HSG C
0.450	98	Weighted Average
0.450		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.0					Direct Entry,

Subcatchment 18I: PDA-18 (impervious)

Hydrograph



Summary for Subcatchment 18P: PDA-18 (pervious)

Runoff = 2.59 cfs @ 12.18 hrs, Volume= 0.196 af, Depth= 2.44"
 Routed to Pond B-18 : Basin #18

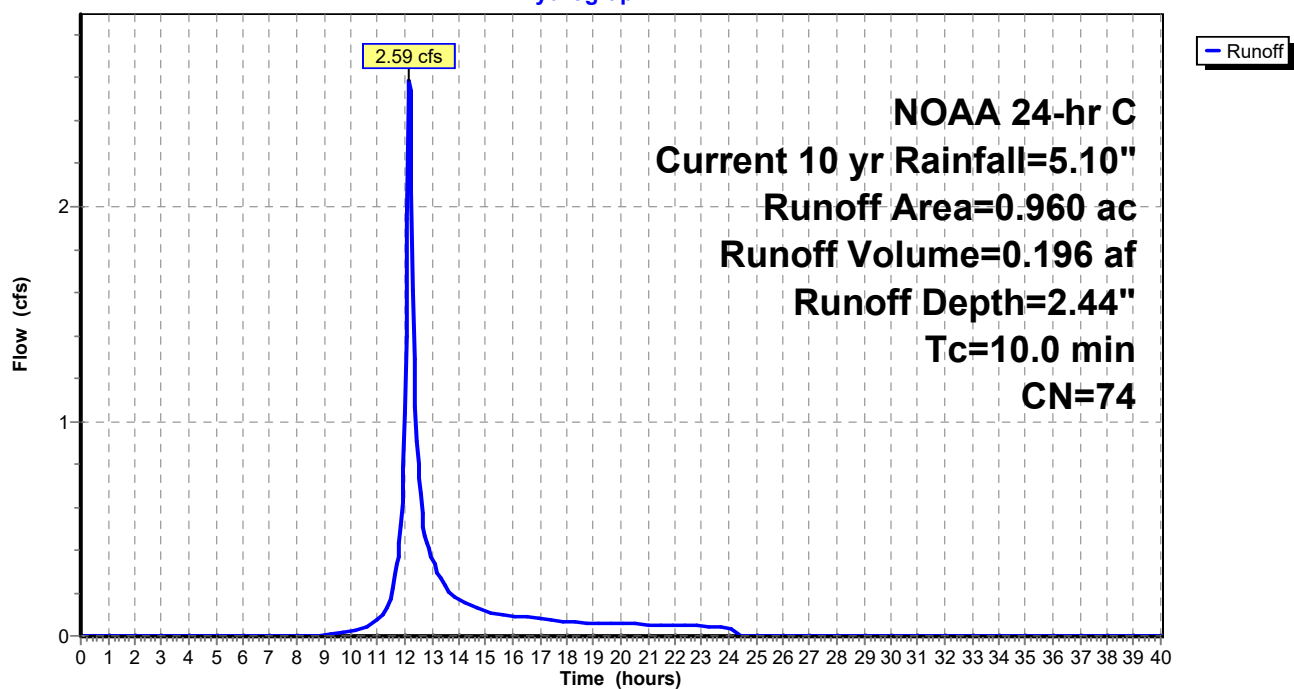
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 NOAA 24-hr C Current 10 yr Rainfall=5.10"

Area (ac)	CN	Description
0.960	74	>75% Grass cover, Good, HSG C
0.960		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.0					Direct Entry,

Subcatchment 18P: PDA-18 (pervious)

Hydrograph



Summary for Subcatchment 19I: PDA-19 (impervious)

Runoff = 2.77 cfs @ 12.17 hrs, Volume= 0.242 af, Depth= 4.86"
 Routed to Pond B-19 : Basin #19

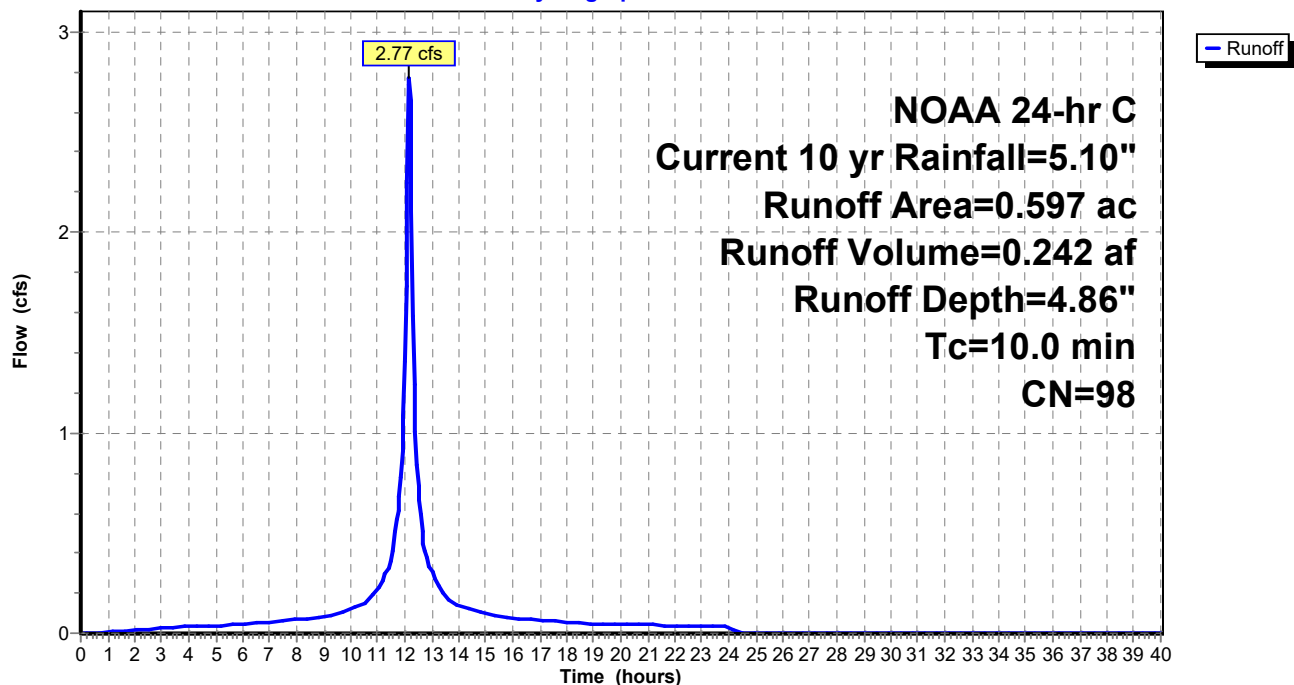
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 NOAA 24-hr C Current 10 yr Rainfall=5.10"

Area (ac)	CN	Description
* 0.132	98	Pavement, HSG C
* 0.450	98	Roof, HSG C
* 0.015	98	Concrete, HSG C
0.597	98	Weighted Average
0.597		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.0					Direct Entry,

Subcatchment 19I: PDA-19 (impervious)

Hydrograph



Summary for Subcatchment 19P: PDA-19 (pervious)

Runoff = 3.02 cfs @ 12.18 hrs, Volume= 0.228 af, Depth= 2.44"
 Routed to Pond B-19 : Basin #19

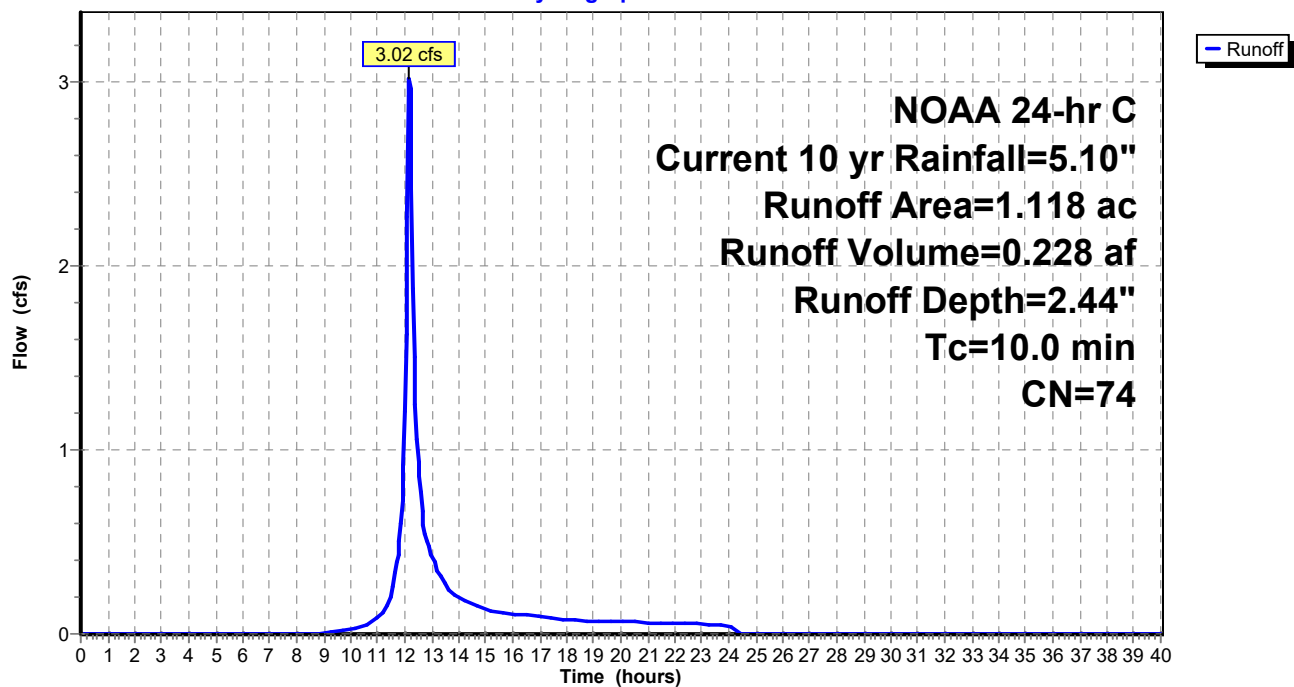
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 NOAA 24-hr C Current 10 yr Rainfall=5.10"

Area (ac)	CN	Description
1.118	74	>75% Grass cover, Good, HSG C
1.118		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.0					Direct Entry,

Subcatchment 19P: PDA-19 (pervious)

Hydrograph



Summary for Subcatchment 20I: PDA-20 (impervious)

Runoff = 5.25 cfs @ 12.17 hrs, Volume= 0.458 af, Depth= 4.86"
 Routed to Pond B-20 : Basin #20

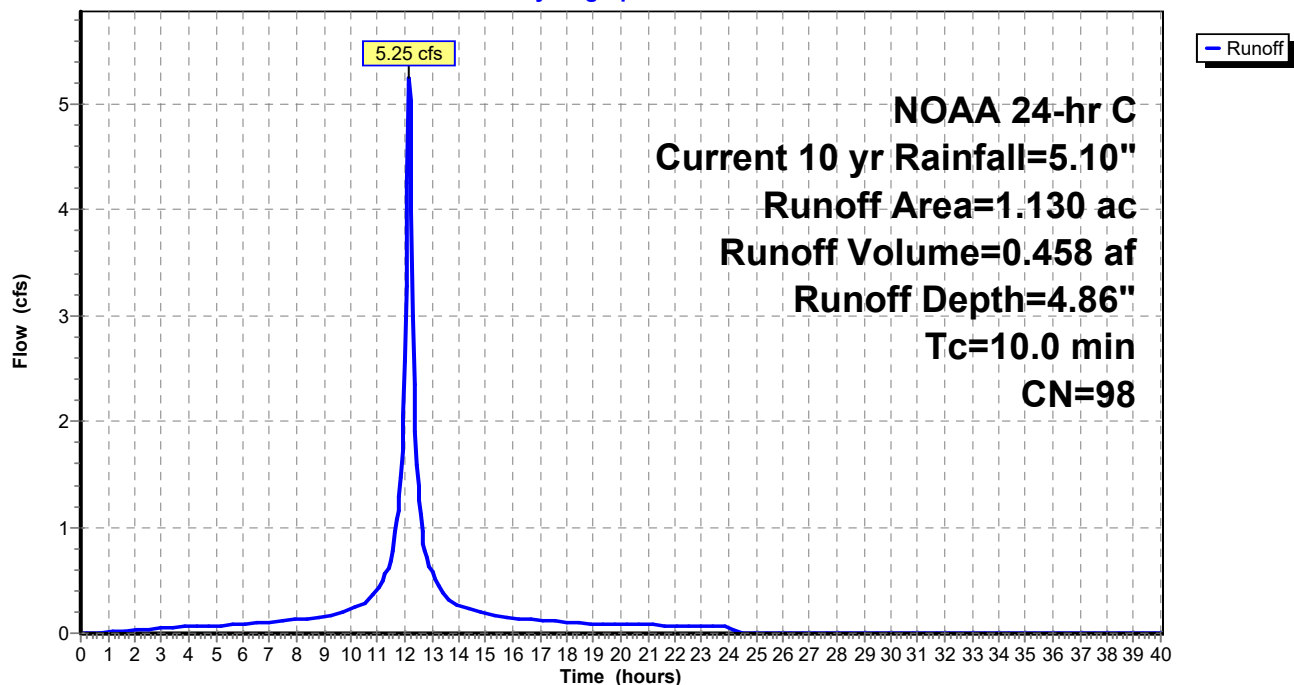
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 NOAA 24-hr C Current 10 yr Rainfall=5.10"

Area (ac)	CN	Description
* 0.572	98	Pavement, HSG C
* 0.450	98	Roof, HSG C
* 0.108	98	Concrete, HSC C
1.130	98	Weighted Average
1.130		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.0					Direct Entry,

Subcatchment 20I: PDA-20 (impervious)

Hydrograph



Summary for Subcatchment 20P: PDA-20 (pervious)

Runoff = 3.57 cfs @ 12.18 hrs, Volume= 0.269 af, Depth= 2.44"
 Routed to Pond B-20 : Basin #20

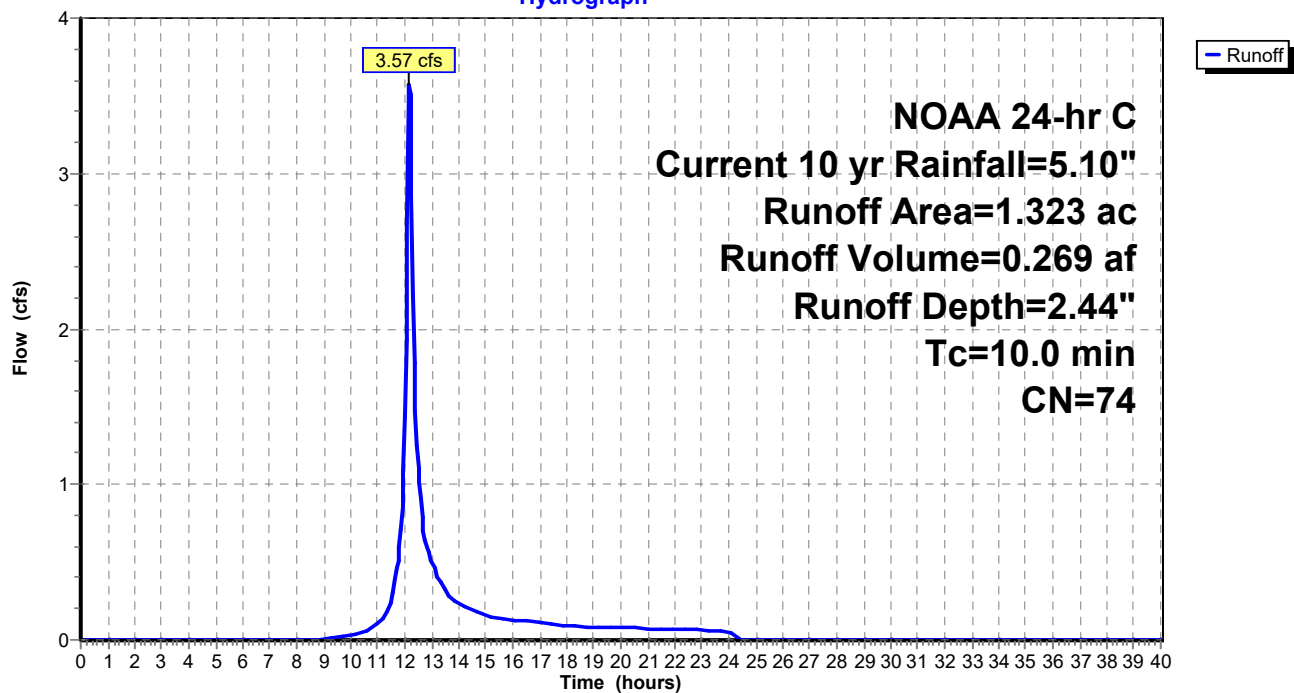
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 NOAA 24-hr C Current 10 yr Rainfall=5.10"

Area (ac)	CN	Description
1.323	74	>75% Grass cover, Good, HSG C
1.323		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.0					Direct Entry,

Subcatchment 20P: PDA-20 (pervious)

Hydrograph



Summary for Subcatchment 21I: PDA-21 (impervious)

Runoff = 4.12 cfs @ 12.17 hrs, Volume= 0.359 af, Depth= 4.86"
 Routed to Pond B-21 : Basin #21

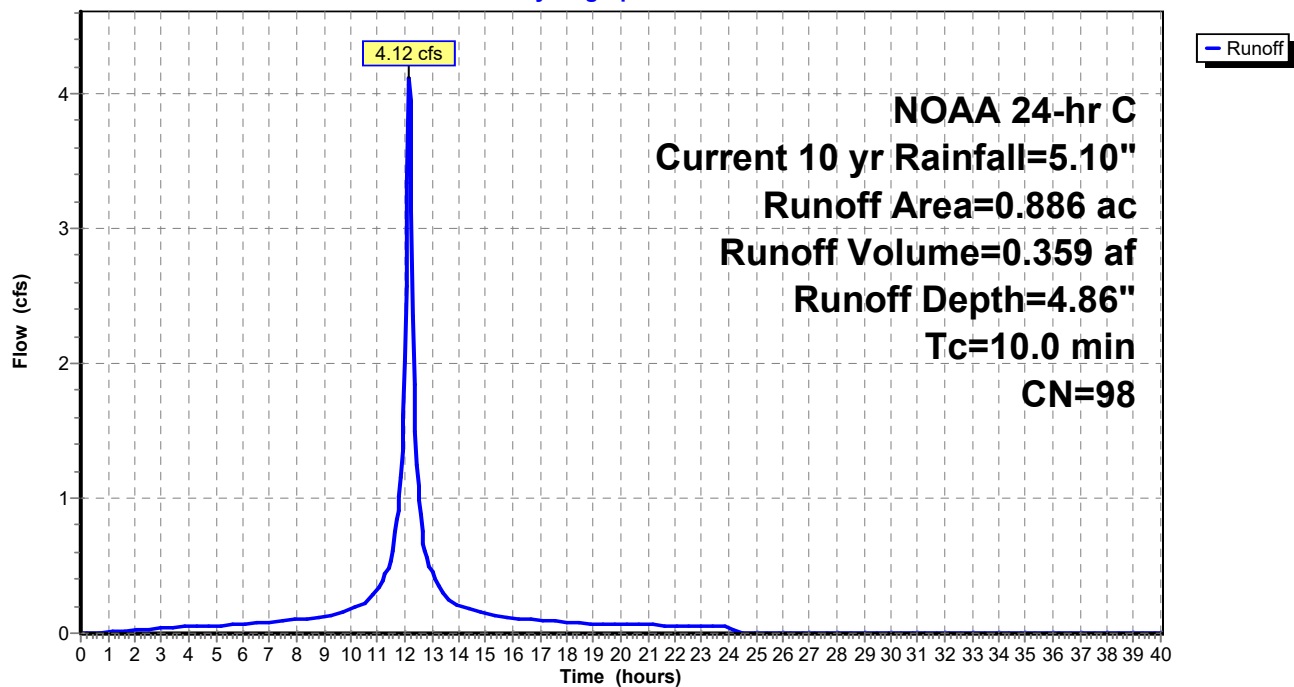
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 NOAA 24-hr C Current 10 yr Rainfall=5.10"

Area (ac)	CN	Description
* 0.511	98	Pavement, HSG C
* 0.321	98	Roof, HSG C
* 0.054	98	Concrete, HSC C
0.886	98	Weighted Average
0.886		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.0					Direct Entry,

Subcatchment 21I: PDA-21 (impervious)

Hydrograph



Summary for Subcatchment 21P: PDA-21 (pervious)

Runoff = 4.36 cfs @ 12.18 hrs, Volume= 0.329 af, Depth= 2.44"
 Routed to Pond B-21 : Basin #21

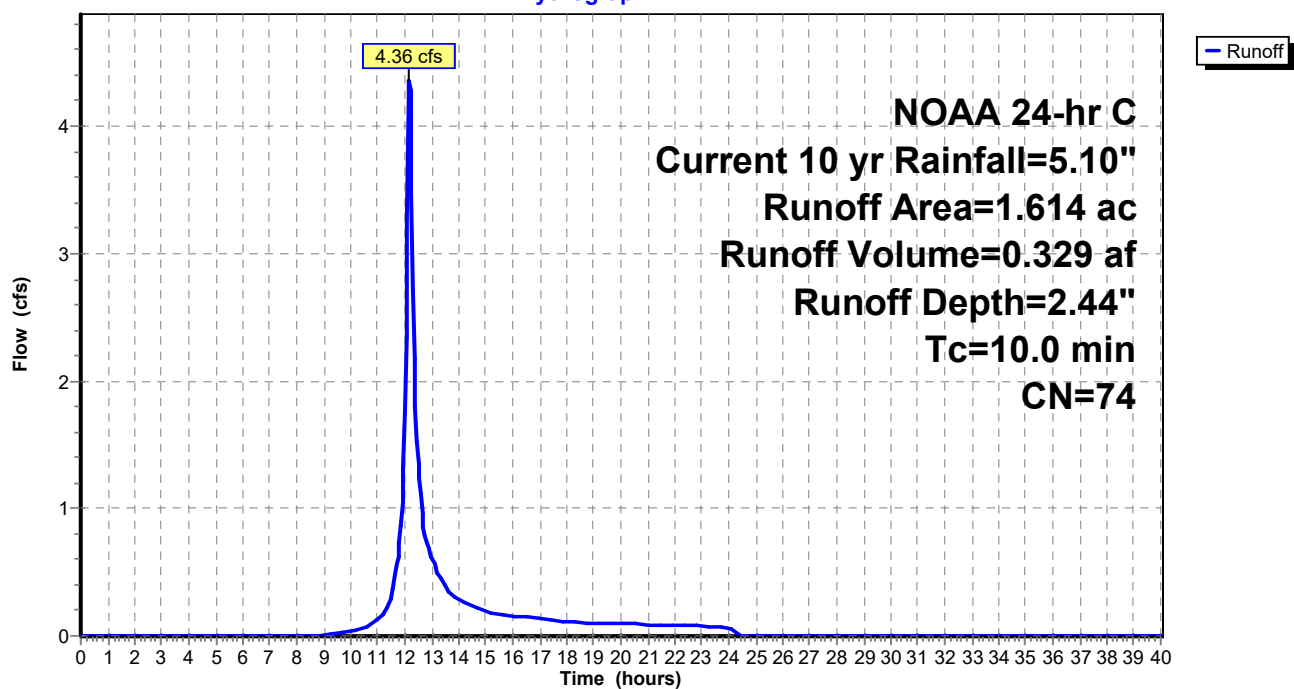
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 NOAA 24-hr C Current 10 yr Rainfall=5.10"

Area (ac)	CN	Description
1.614	74	>75% Grass cover, Good, HSG C
1.614		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.0					Direct Entry,

Subcatchment 21P: PDA-21 (pervious)

Hydrograph



Summary for Subcatchment 22I: PDA-22 (impervious)

Runoff = 3.78 cfs @ 12.17 hrs, Volume= 0.329 af, Depth= 4.86"
 Routed to Pond B-22 : Basin #22

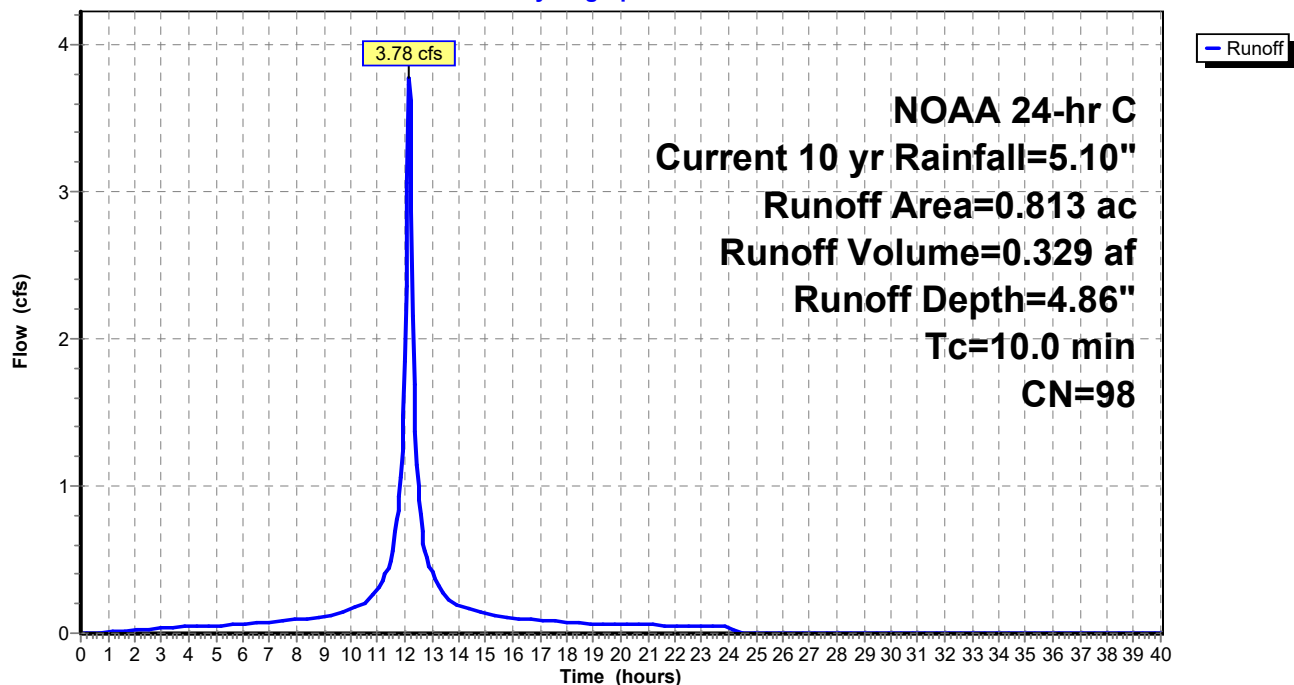
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 NOAA 24-hr C Current 10 yr Rainfall=5.10"

Area (ac)	CN	Description
* 0.083	98	Pavement, HSG C
* 0.707	98	Roof, HSG C
* 0.023	98	Concrete, HSC C
0.813	98	Weighted Average
0.813		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.0					Direct Entry,

Subcatchment 22I: PDA-22 (impervious)

Hydrograph



Summary for Subcatchment 22P: PDA-22 (pervious)

Runoff = 4.45 cfs @ 12.18 hrs, Volume= 0.335 af, Depth= 2.44"
 Routed to Pond B-22 : Basin #22

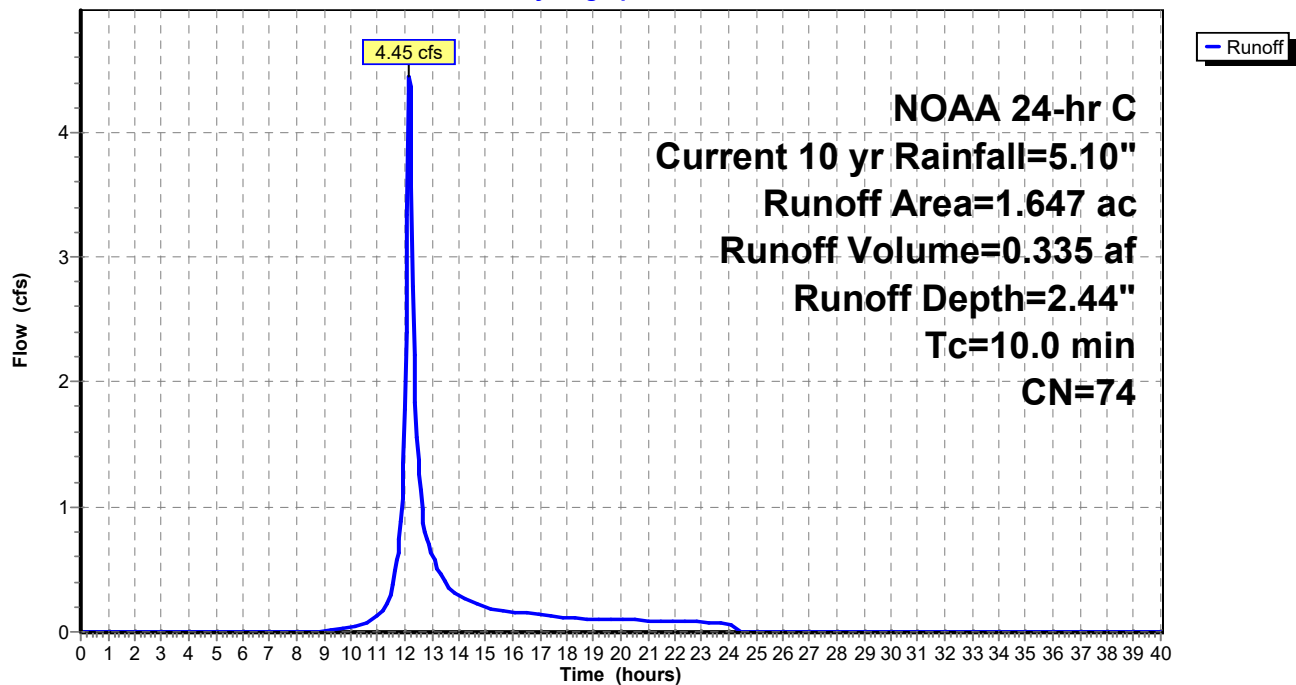
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 NOAA 24-hr C Current 10 yr Rainfall=5.10"

Area (ac)	CN	Description
1.647	74	>75% Grass cover, Good, HSG C
1.647		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.0					Direct Entry,

Subcatchment 22P: PDA-22 (pervious)

Hydrograph



Summary for Subcatchment 23I: PDA-23 (impervious)

Runoff = 3.82 cfs @ 12.17 hrs, Volume= 0.333 af, Depth= 4.86"
 Routed to Pond B-23 : Basin #23

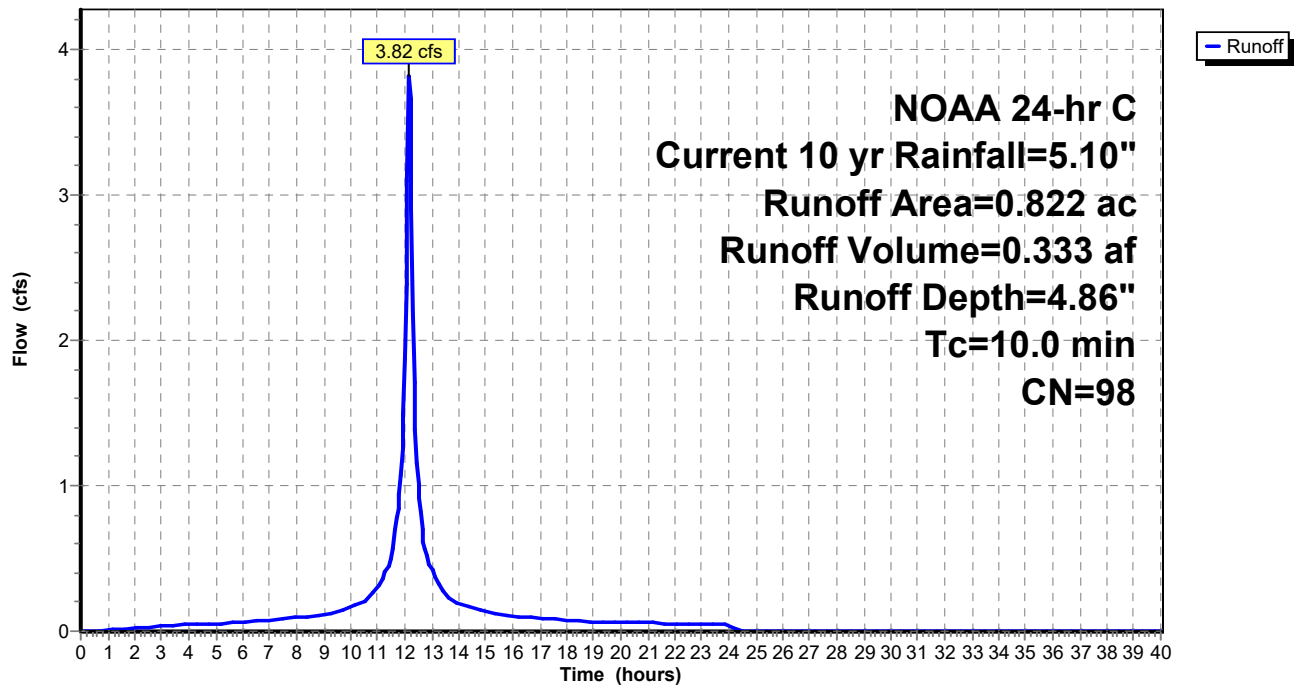
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 NOAA 24-hr C Current 10 yr Rainfall=5.10"

Area (ac)	CN	Description
* 0.719	98	Pavement, HSG C
* 0.103	98	Concrete, HSG C
0.000	98	Roofs, HSG C
0.822	98	Weighted Average
0.822		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.0					Direct Entry,

Subcatchment 23I: PDA-23 (impervious)

Hydrograph



Summary for Subcatchment 23P: PDA-23 (pervious)

Runoff = 4.39 cfs @ 12.18 hrs, Volume= 0.331 af, Depth= 2.44"
 Routed to Pond B-23 : Basin #23

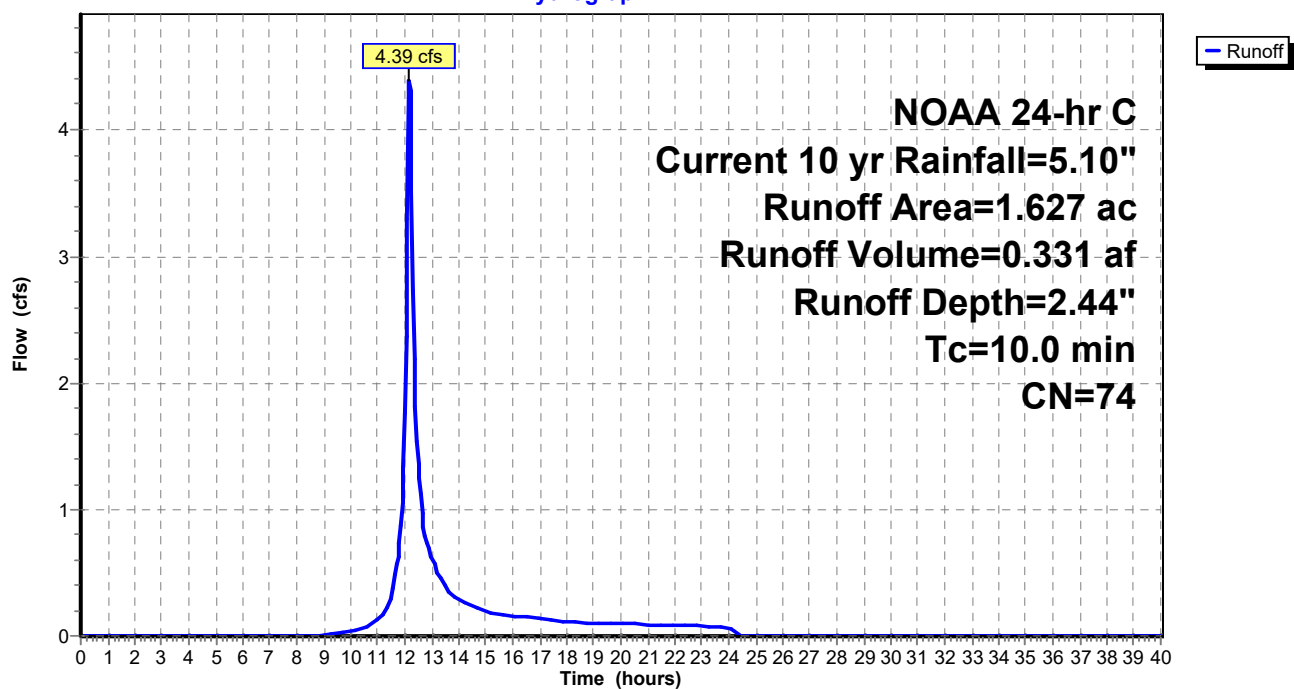
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 NOAA 24-hr C Current 10 yr Rainfall=5.10"

Area (ac)	CN	Description
1.627	74	>75% Grass cover, Good, HSG C
1.627		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.0					Direct Entry,

Subcatchment 23P: PDA-23 (pervious)

Hydrograph



Summary for Subcatchment 24I: PDA-24 (impervious)

Runoff = 4.19 cfs @ 12.17 hrs, Volume= 0.366 af, Depth= 4.86"
 Routed to Pond B-24 : Basin #24

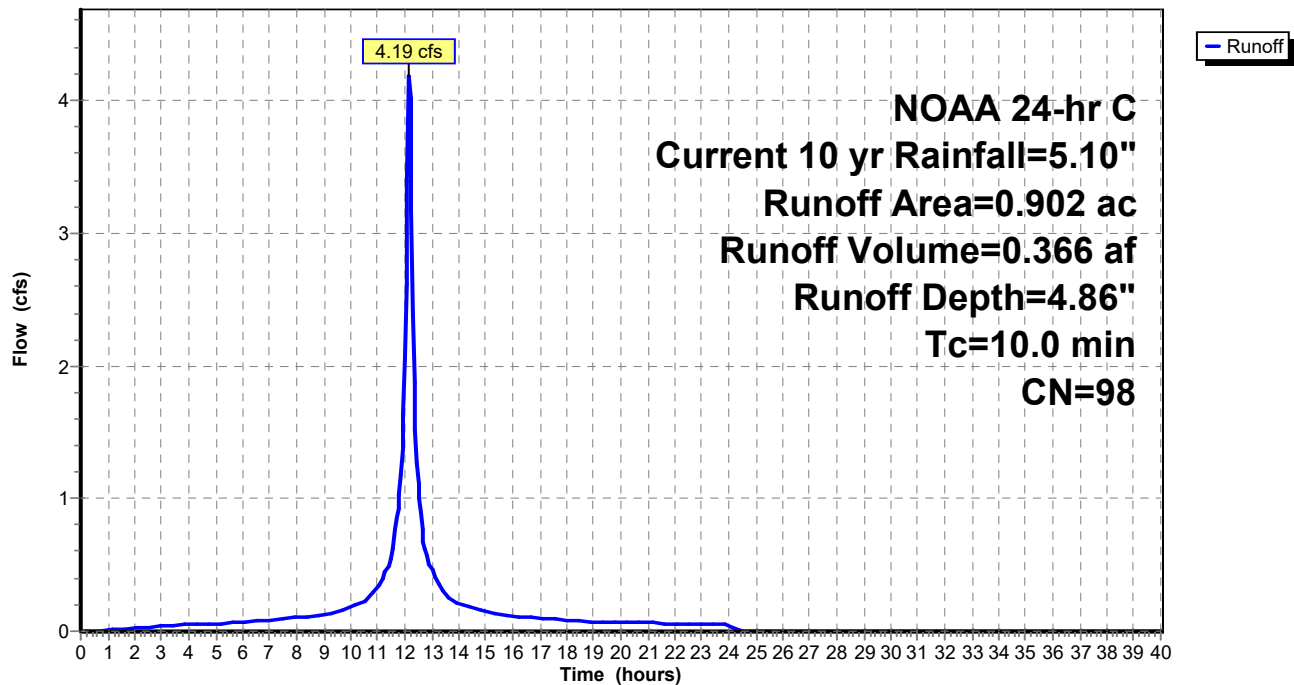
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 NOAA 24-hr C Current 10 yr Rainfall=5.10"

Area (ac)	CN	Description
* 0.277	98	Pavement, HSG C
* 0.579	98	Roof, HSG C
* 0.046	98	Concrete, HSC C
0.902	98	Weighted Average
0.902		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.0					Direct Entry,

Subcatchment 24I: PDA-24 (impervious)

Hydrograph



Summary for Subcatchment 24P: PDA-24 (pervious)

Runoff = 4.07 cfs @ 12.18 hrs, Volume= 0.307 af, Depth= 2.44"
 Routed to Pond B-24 : Basin #24

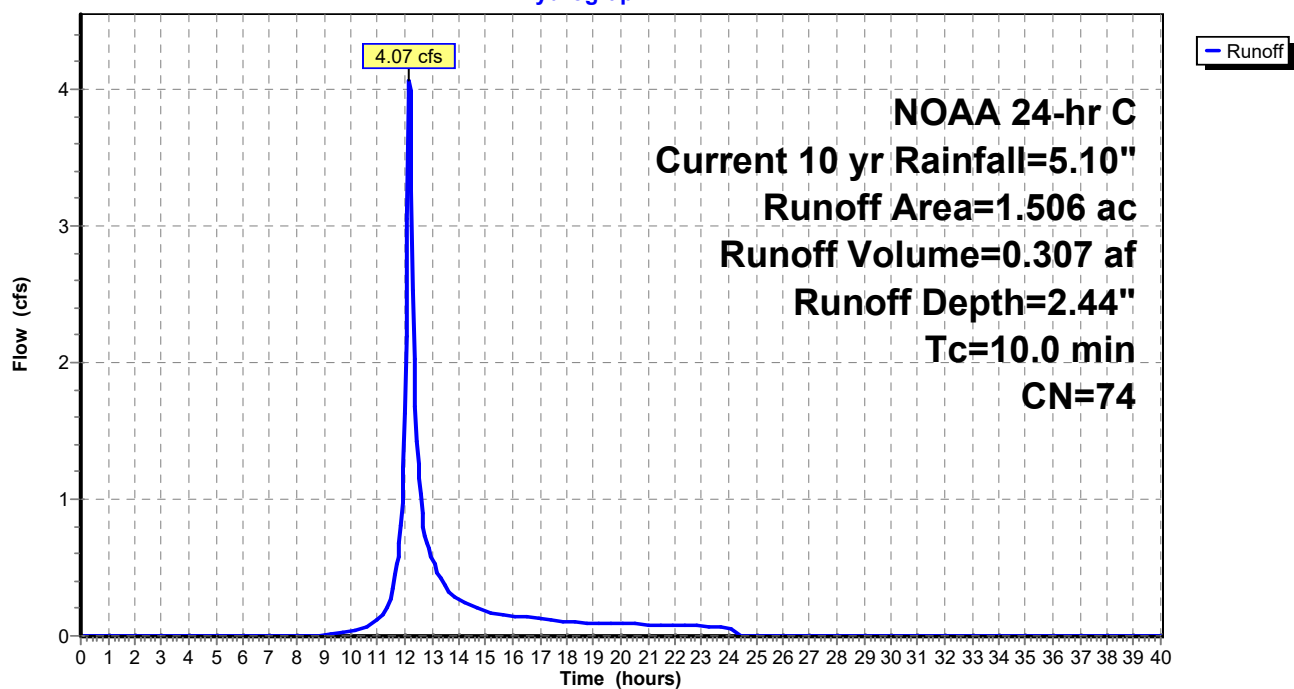
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 NOAA 24-hr C Current 10 yr Rainfall=5.10"

Area (ac)	CN	Description
1.506	74	>75% Grass cover, Good, HSG C
1.506		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.0					Direct Entry,

Subcatchment 24P: PDA-24 (pervious)

Hydrograph



Summary for Subcatchment 25I: PDA-25 (impervious)

Runoff = 4.06 cfs @ 12.17 hrs, Volume= 0.354 af, Depth= 4.86"
 Routed to Pond B-25 : Basin #25

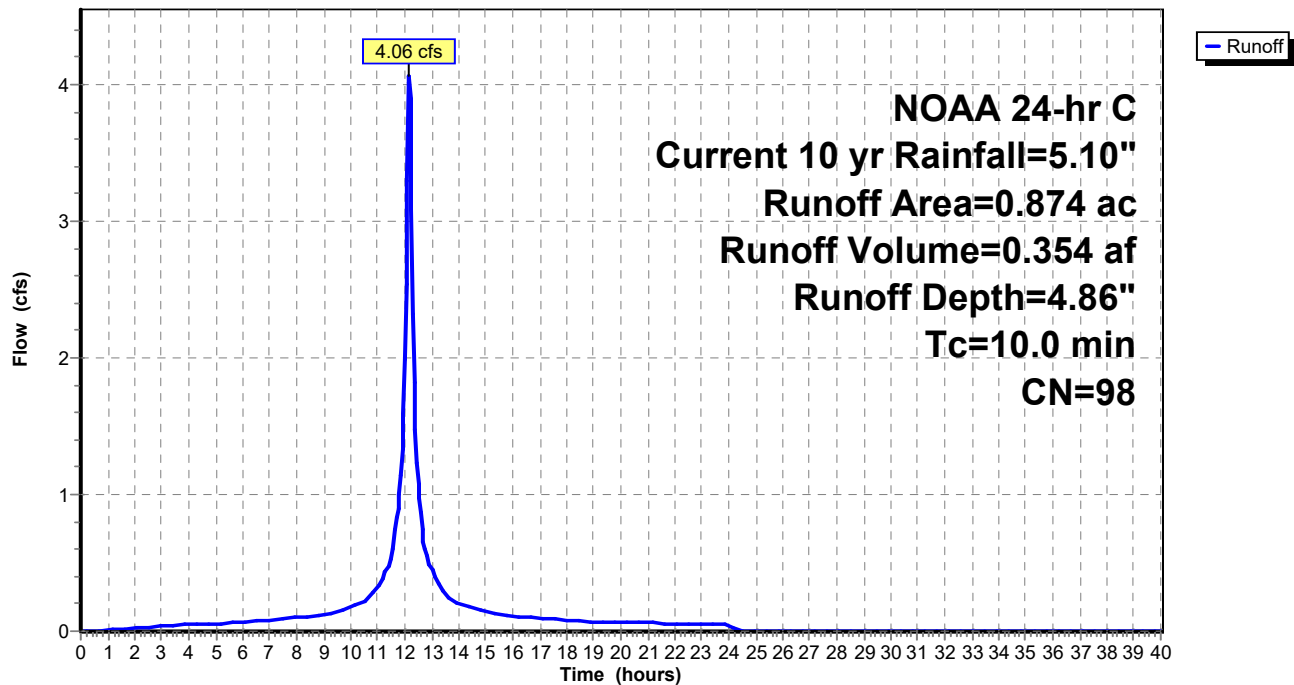
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 NOAA 24-hr C Current 10 yr Rainfall=5.10"

Area (ac)	CN	Description
* 0.388	98	Pavement, HSG C
* 0.450	98	Roof, HSG C
* 0.036	98	Concrete, HSC C
0.874	98	Weighted Average
0.874		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.0					Direct Entry,

Subcatchment 25I: PDA-25 (impervious)

Hydrograph



Summary for Subcatchment 25P: PDA-25 (pervious)

Runoff = 4.39 cfs @ 12.18 hrs, Volume= 0.331 af, Depth= 2.44"
 Routed to Pond B-25 : Basin #25

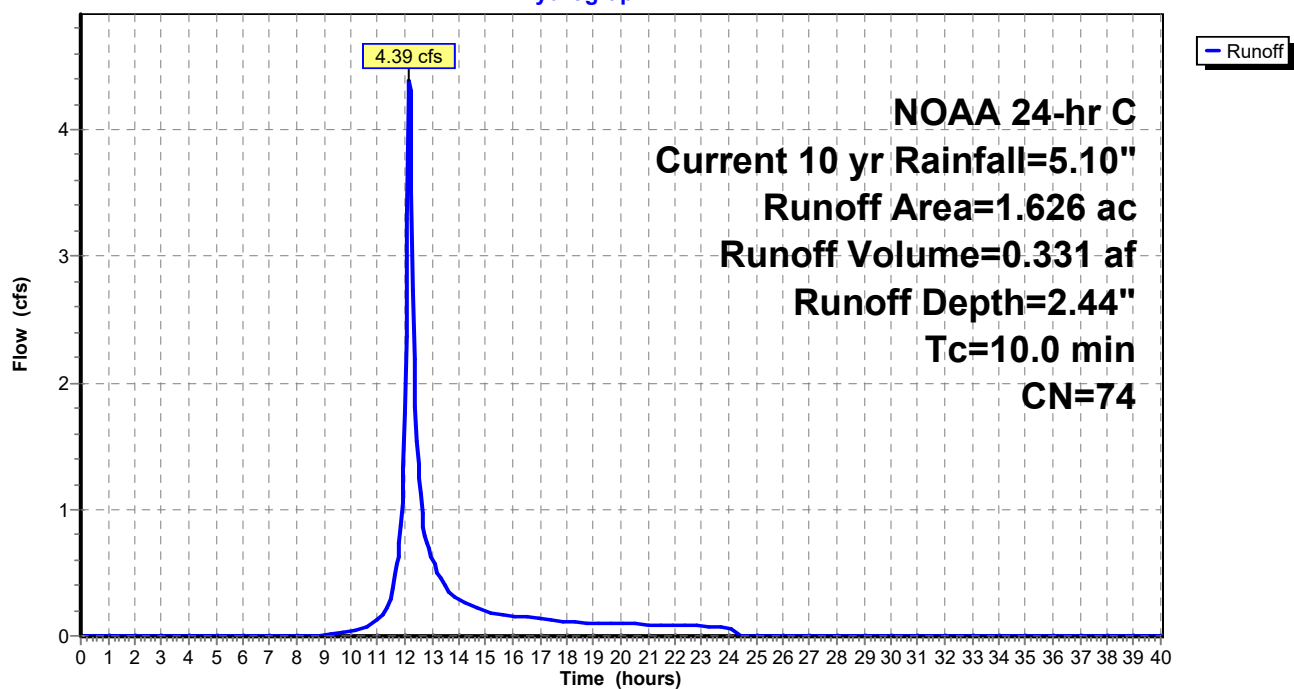
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 NOAA 24-hr C Current 10 yr Rainfall=5.10"

Area (ac)	CN	Description
1.626	74	>75% Grass cover, Good, HSG C
1.626		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.0					Direct Entry,

Subcatchment 25P: PDA-25 (pervious)

Hydrograph



Summary for Subcatchment 26I: PDA-26 (impervious)

Runoff = 4.38 cfs @ 12.17 hrs, Volume= 0.383 af, Depth= 4.86"
 Routed to Pond B-26 : Basin #26

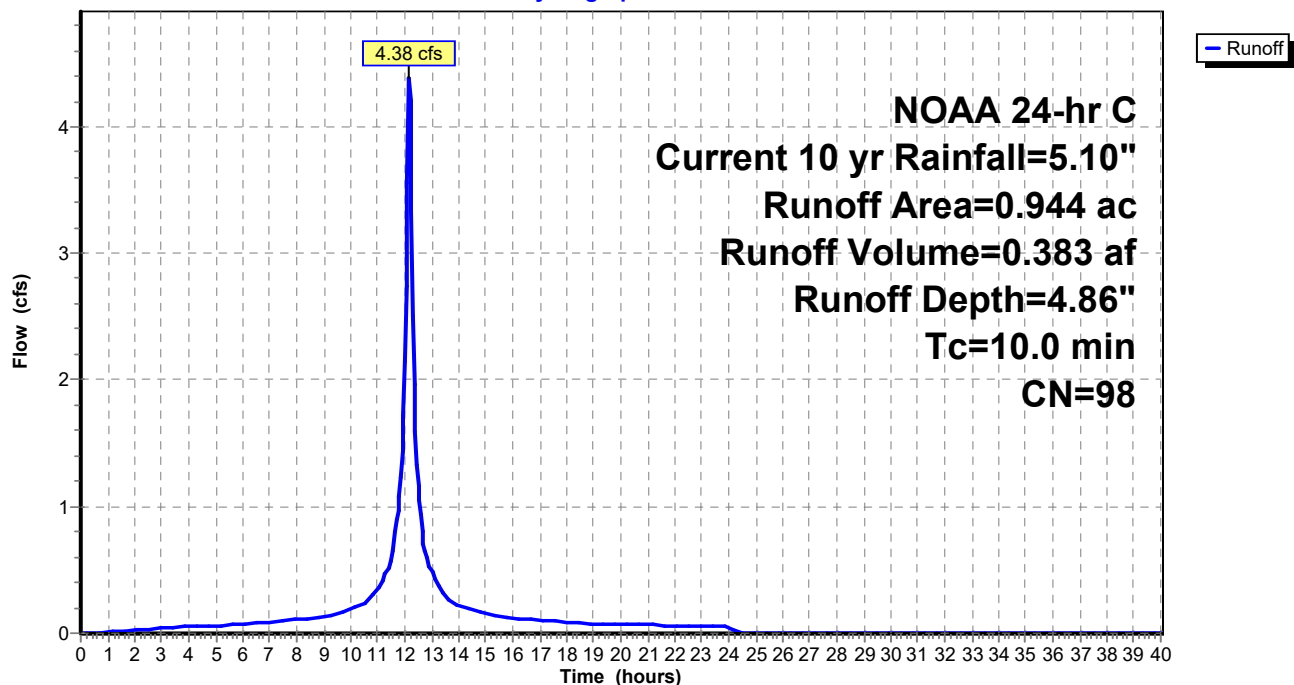
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 NOAA 24-hr C Current 10 yr Rainfall=5.10"

Area (ac)	CN	Description
* 0.000	98	Pavement, HSG C
* 0.944	98	Roof, HSG C
* 0.000	98	Concrete, HSC C
0.944	98	Weighted Average
0.944		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.0					Direct Entry,

Subcatchment 26I: PDA-26 (impervious)

Hydrograph



Summary for Subcatchment 26P: PDA-26 (pervious)

Runoff = 3.84 cfs @ 12.18 hrs, Volume= 0.290 af, Depth= 2.44"
 Routed to Pond B-26 : Basin #26

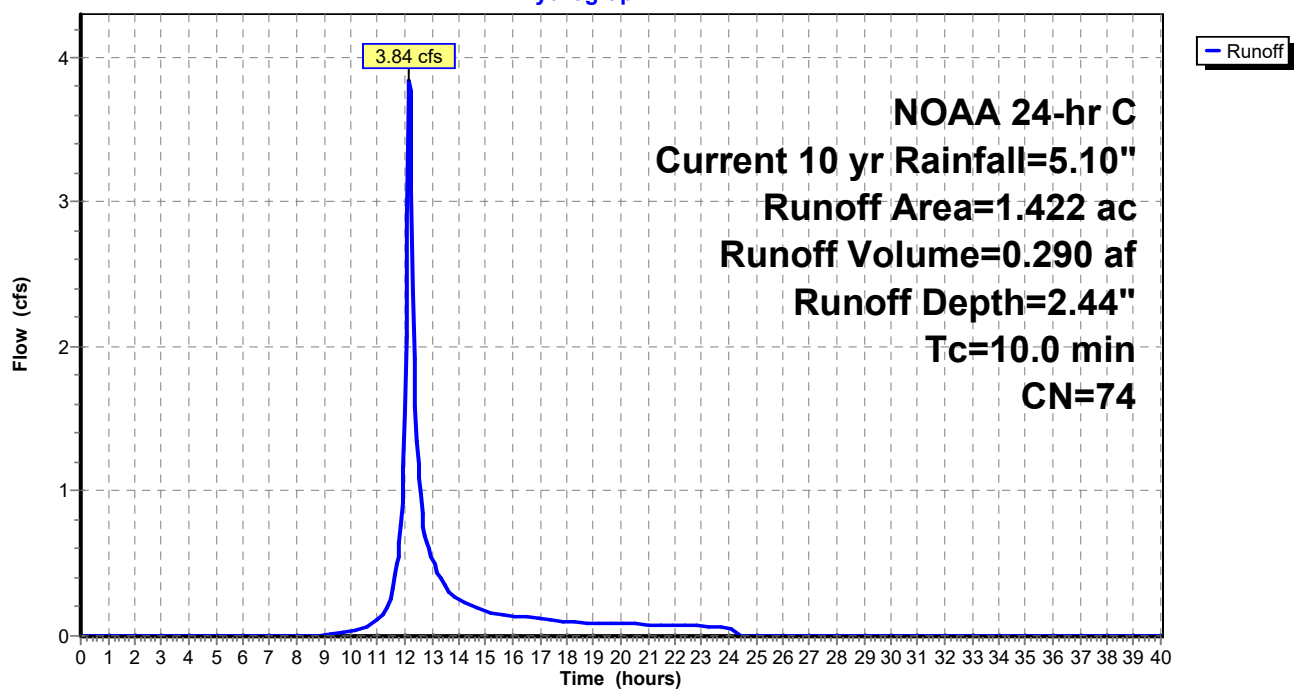
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 NOAA 24-hr C Current 10 yr Rainfall=5.10"

Area (ac)	CN	Description
1.422	74	>75% Grass cover, Good, HSG C
1.422		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.0					Direct Entry,

Subcatchment 26P: PDA-26 (pervious)

Hydrograph



Summary for Subcatchment 27I: PDA-27 (impervious)

Runoff = 4.17 cfs @ 12.17 hrs, Volume= 0.364 af, Depth= 4.86"
 Routed to Pond B-27 : Basin #27

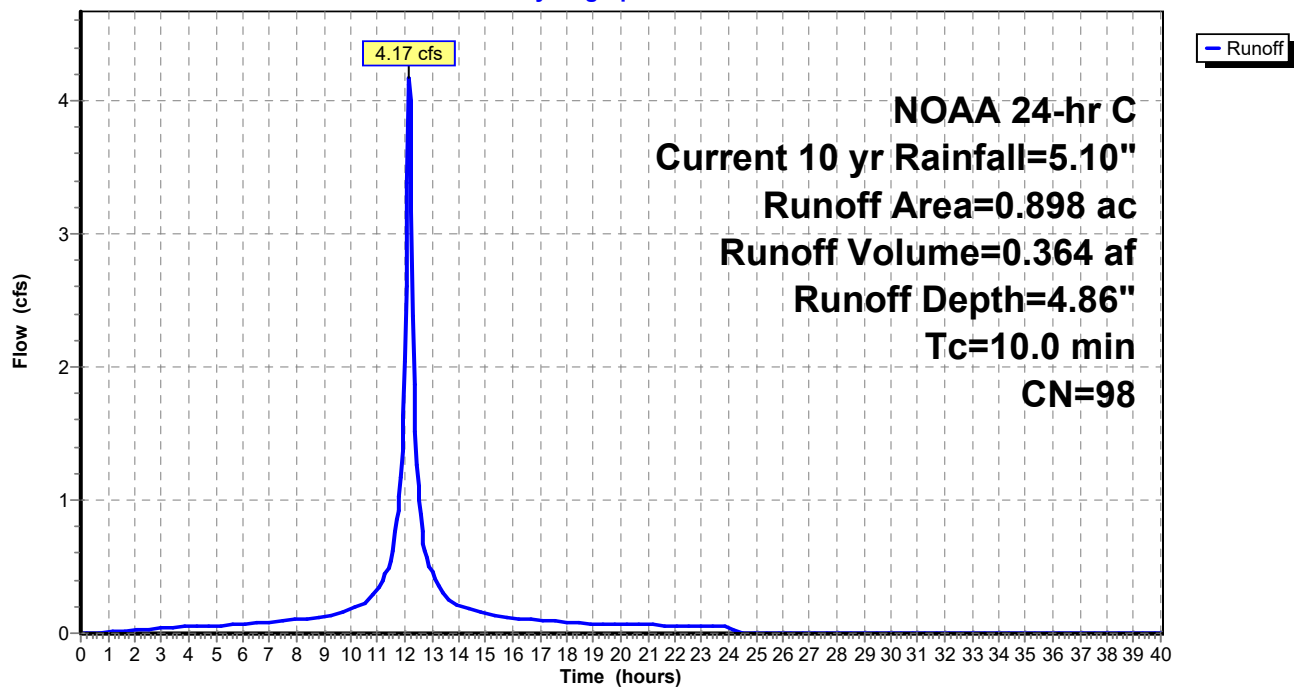
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 NOAA 24-hr C Current 10 yr Rainfall=5.10"

Area (ac)	CN	Description
* 0.233	98	Pavement, HSG C
* 0.643	98	Roof, HSG C
* 0.022	98	Concrete, HSC C
0.898	98	Weighted Average
0.898		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.0					Direct Entry,

Subcatchment 27I: PDA-27 (impervious)

Hydrograph



Summary for Subcatchment 27P: PDA-27 (pervious)

Runoff = 4.00 cfs @ 12.17 hrs, Volume= 0.308 af, Depth= 3.56"
 Routed to Pond B-27 : Basin #27

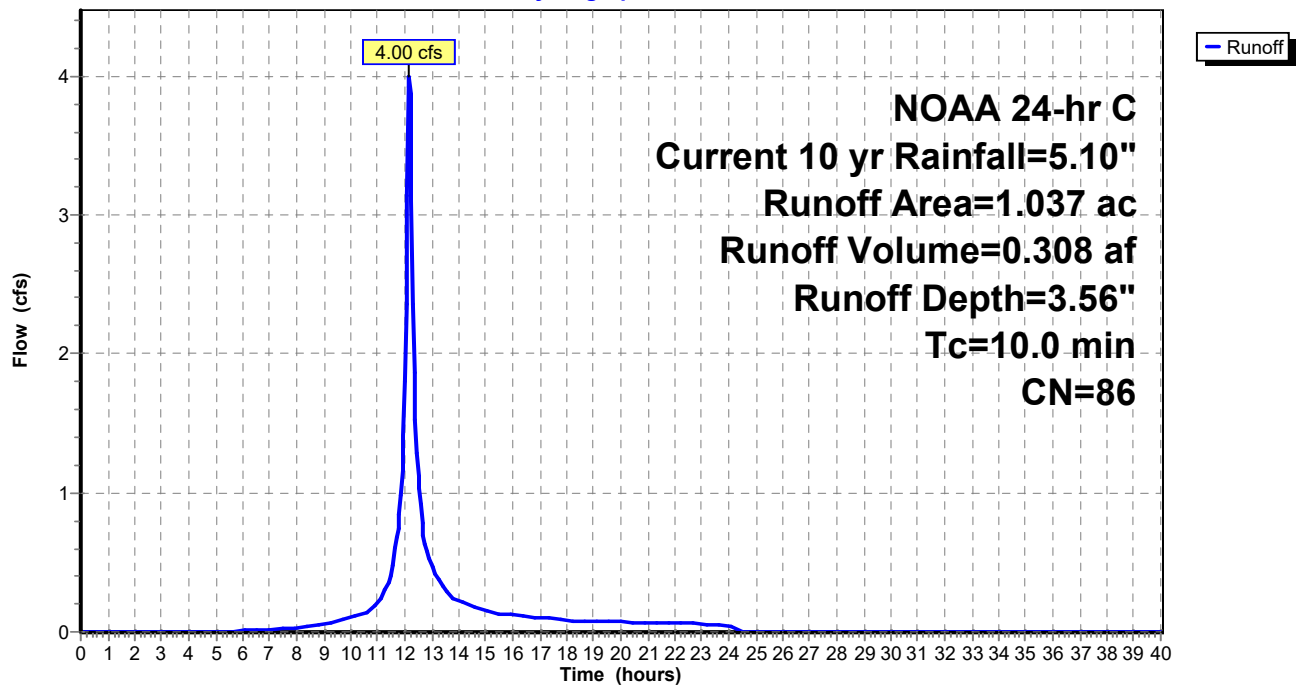
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 NOAA 24-hr C Current 10 yr Rainfall=5.10"

Area (ac)	CN	Description
1.037	86	<50% Grass cover, Poor, HSG C
1.037		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.0					Direct Entry,

Subcatchment 27P: PDA-27 (pervious)

Hydrograph



Summary for Subcatchment 28I: PDA-28 (impervious)

Runoff = 3.78 cfs @ 12.17 hrs, Volume= 0.329 af, Depth= 4.86"
 Routed to Pond B-28 : Basin #28

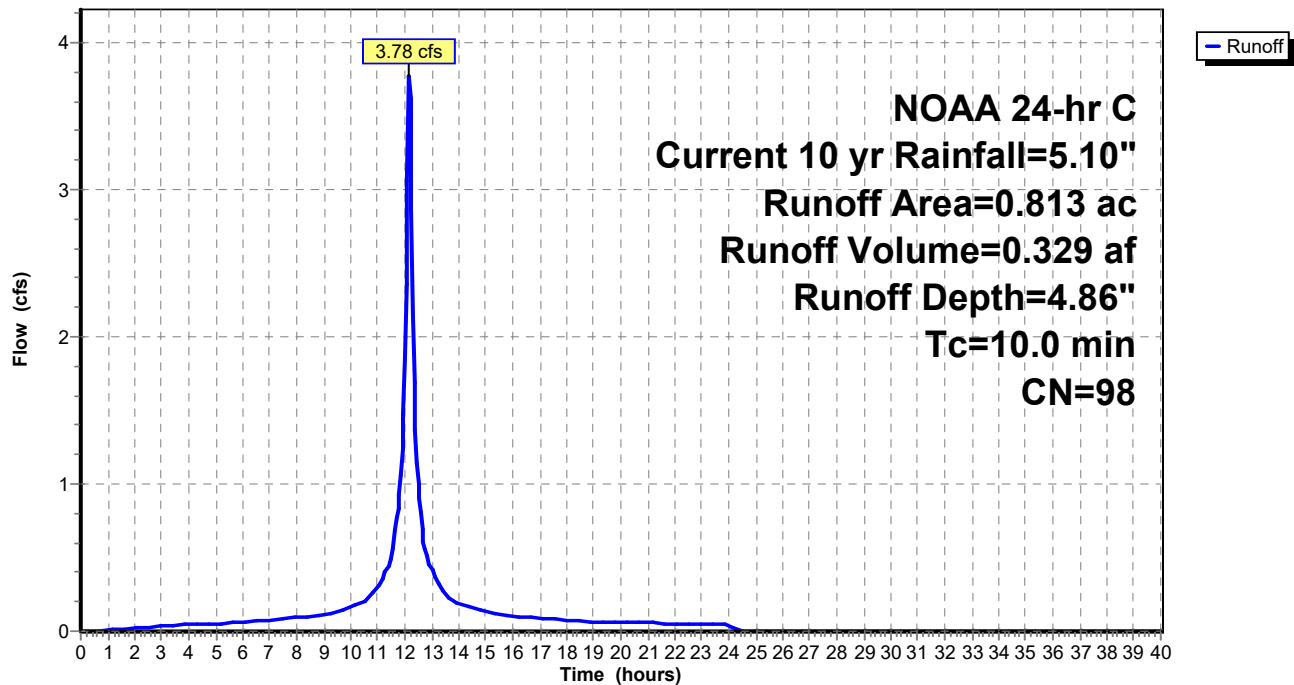
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 NOAA 24-hr C Current 10 yr Rainfall=5.10"

Area (ac)	CN	Description
* 0.235	98	Pavement, HSG C
* 0.541	98	Roof, HSG C
* 0.037	98	Concrete, HSC C
0.813	98	Weighted Average
0.813		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.0					Direct Entry,

Subcatchment 28I: PDA-28 (impervious)

Hydrograph



Summary for Subcatchment 28P: PDA-28 (pervious)

Runoff = 4.10 cfs @ 12.18 hrs, Volume= 0.310 af, Depth= 2.44"
 Routed to Pond B-28 : Basin #28

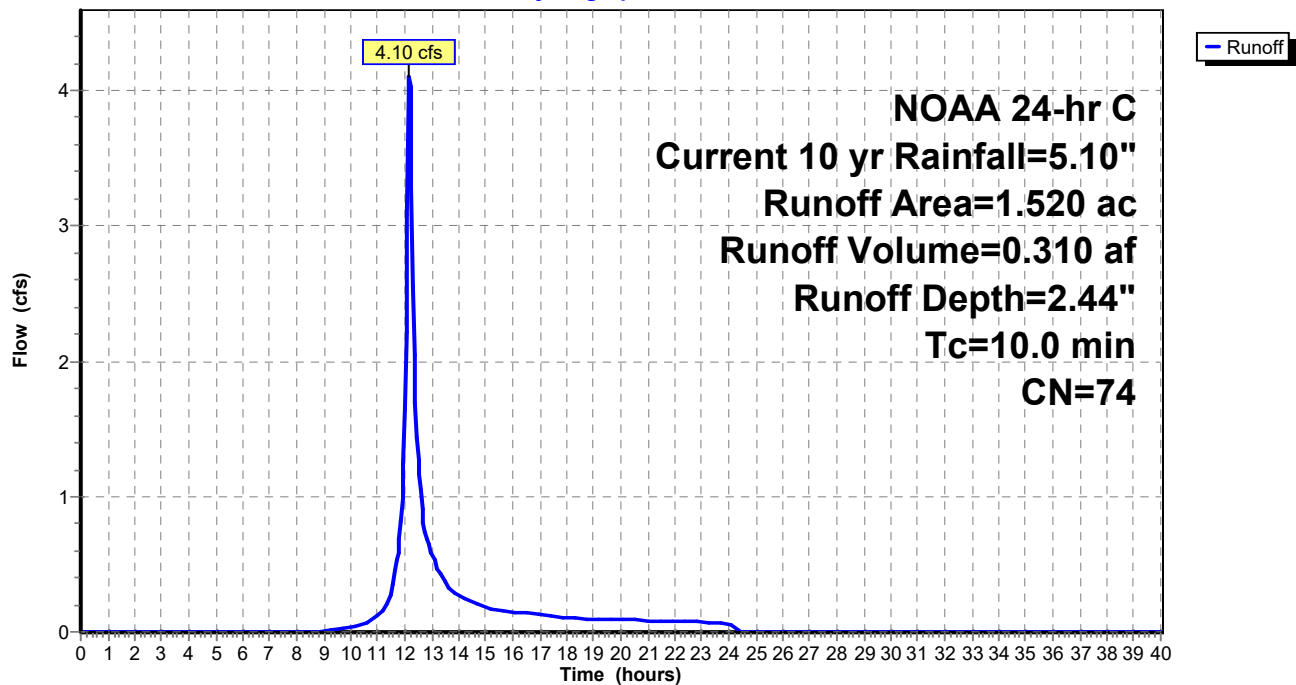
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 NOAA 24-hr C Current 10 yr Rainfall=5.10"

Area (ac)	CN	Description
1.520	74	>75% Grass cover, Good, HSG C
1.520		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.0					Direct Entry,

Subcatchment 28P: PDA-28 (pervious)

Hydrograph



Summary for Subcatchment UPDA-2: PDA-2 (undetained)

Runoff = 25.40 cfs @ 12.18 hrs, Volume= 1.916 af, Depth= 2.44"
 Routed to Link PDA-2 : Proposed Drainage Area #2

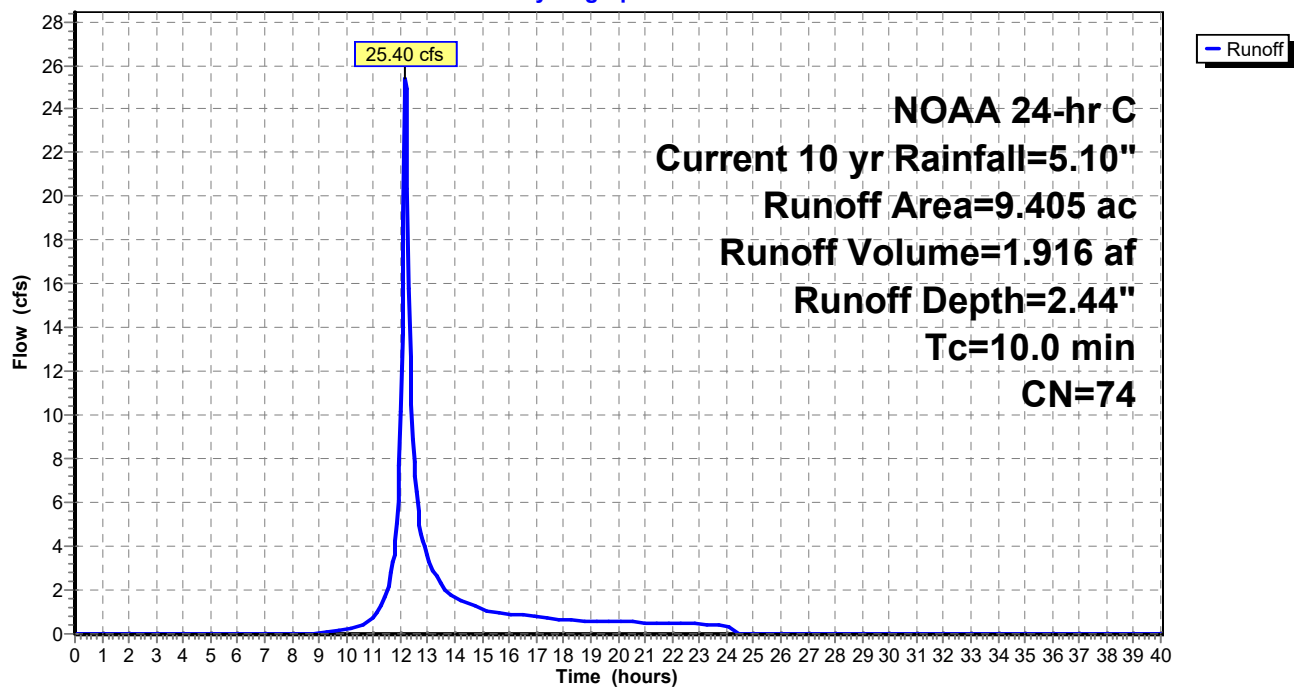
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 NOAA 24-hr C Current 10 yr Rainfall=5.10"

Area (ac)	CN	Description
9.405	74	>75% Grass cover, Good, HSG C
9.405		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.0					Direct Entry,

Subcatchment UPDA-2: PDA-2 (undetained)

Hydrograph



Summary for Pond B-18: Basin #18

Inflow Area = 1.410 ac, 31.91% Impervious, Inflow Depth = 3.22" for Current 10 yr event
 Inflow = 4.68 cfs @ 12.17 hrs, Volume= 0.378 af
 Outflow = 2.12 cfs @ 12.37 hrs, Volume= 0.333 af, Atten= 55%, Lag= 11.9 min
 Primary = 2.12 cfs @ 12.37 hrs, Volume= 0.333 af
 Routed to Link PDA-2 : Proposed Drainage Area #2

Routing by Stor-Ind method, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 Peak Elev= 189.62' @ 12.37 hrs Surf.Area= 3,001 sf Storage= 7,428 cf

Plug-Flow detention time= 295.4 min calculated for 0.333 af (88% of inflow)
 Center-of-Mass det. time= 236.3 min (1,035.7 - 799.5)

Volume	Invert	Avail.Storage	Storage Description
#1	185.65'	12,198 cf	Custom Stage Data (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
185.65	0	0	0
186.00	1,119	196	196
187.00	1,564	1,342	1,537
188.00	2,065	1,815	3,352
189.00	2,623	2,344	5,696
190.00	3,237	2,930	8,626
191.00	3,908	3,573	12,198

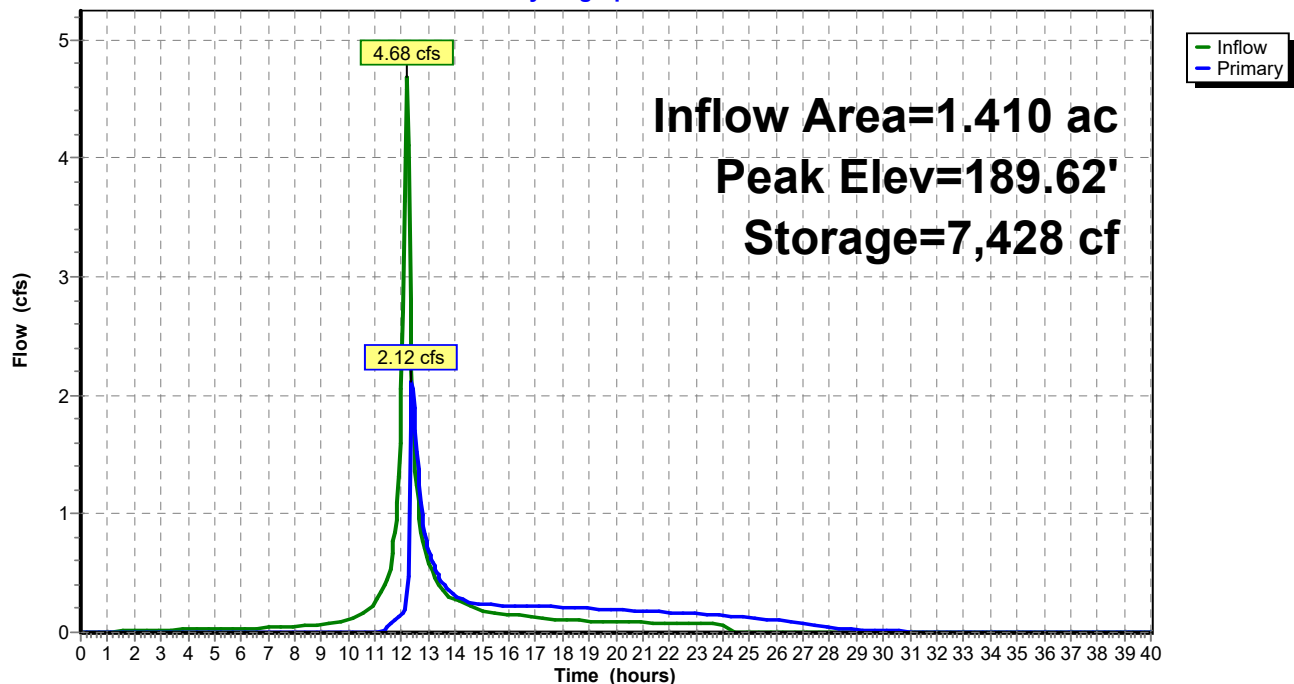
Device	Routing	Invert	Outlet Devices
#1	Primary	186.00'	15.0" Round Culvert L= 28.0' Ke= 0.500 Inlet / Outlet Invert= 186.00' / 185.86' S= 0.0050 '/' Cc= 0.900 n= 0.013, Flow Area= 1.23 sf
#2	Device 1	187.25'	2.5" Vert. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#3	Device 1	189.34'	4.0' long Sharp-Crested Rectangular Weir 2 End Contraction(s)
#4	Primary	190.95'	50.0' long + 3.0 '/' SideZ x 5.0' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 Coef. (English) 2.34 2.50 2.70 2.68 2.68 2.66 2.65 2.65 2.65 2.65 2.67 2.66 2.68 2.70 2.74 2.79 2.88

Primary OutFlow Max=2.07 cfs @ 12.37 hrs HW=189.61' (Free Discharge)

1=Culvert (Passes 2.07 cfs of 10.21 cfs potential flow)
 2=Orifice/Grate (Orifice Controls 0.25 cfs @ 7.23 fps)
 3=Sharp-Crested Rectangular Weir (Weir Controls 1.82 cfs @ 1.70 fps)
 4=Broad-Crested Rectangular Weir (Controls 0.00 cfs)

Pond B-18: Basin #18

Hydrograph



Stage-Discharge for Pond B-18: Basin #18

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
185.65	0.00	186.17	0.00	186.69	0.00	187.21	0.00
185.66	0.00	186.18	0.00	186.70	0.00	187.22	0.00
185.67	0.00	186.19	0.00	186.71	0.00	187.23	0.00
185.68	0.00	186.20	0.00	186.72	0.00	187.24	0.00
185.69	0.00	186.21	0.00	186.73	0.00	187.25	0.00
185.70	0.00	186.22	0.00	186.74	0.00	187.26	0.00
185.71	0.00	186.23	0.00	186.75	0.00	187.27	0.00
185.72	0.00	186.24	0.00	186.76	0.00	187.28	0.00
185.73	0.00	186.25	0.00	186.77	0.00	187.29	0.00
185.74	0.00	186.26	0.00	186.78	0.00	187.30	0.00
185.75	0.00	186.27	0.00	186.79	0.00	187.31	0.01
185.76	0.00	186.28	0.00	186.80	0.00	187.32	0.01
185.77	0.00	186.29	0.00	186.81	0.00	187.33	0.01
185.78	0.00	186.30	0.00	186.82	0.00	187.34	0.01
185.79	0.00	186.31	0.00	186.83	0.00	187.35	0.02
185.80	0.00	186.32	0.00	186.84	0.00	187.36	0.02
185.81	0.00	186.33	0.00	186.85	0.00	187.37	0.02
185.82	0.00	186.34	0.00	186.86	0.00	187.38	0.03
185.83	0.00	186.35	0.00	186.87	0.00	187.39	0.03
185.84	0.00	186.36	0.00	186.88	0.00	187.40	0.03
185.85	0.00	186.37	0.00	186.89	0.00	187.41	0.04
185.86	0.00	186.38	0.00	186.90	0.00	187.42	0.04
185.87	0.00	186.39	0.00	186.91	0.00	187.43	0.05
185.88	0.00	186.40	0.00	186.92	0.00	187.44	0.05
185.89	0.00	186.41	0.00	186.93	0.00	187.45	0.05
185.90	0.00	186.42	0.00	186.94	0.00	187.46	0.05
185.91	0.00	186.43	0.00	186.95	0.00	187.47	0.06
185.92	0.00	186.44	0.00	186.96	0.00	187.48	0.06
185.93	0.00	186.45	0.00	186.97	0.00	187.49	0.06
185.94	0.00	186.46	0.00	186.98	0.00	187.50	0.06
185.95	0.00	186.47	0.00	186.99	0.00	187.51	0.06
185.96	0.00	186.48	0.00	187.00	0.00	187.52	0.07
185.97	0.00	186.49	0.00	187.01	0.00	187.53	0.07
185.98	0.00	186.50	0.00	187.02	0.00	187.54	0.07
185.99	0.00	186.51	0.00	187.03	0.00	187.55	0.07
186.00	0.00	186.52	0.00	187.04	0.00	187.56	0.07
186.01	0.00	186.53	0.00	187.05	0.00	187.57	0.08
186.02	0.00	186.54	0.00	187.06	0.00	187.58	0.08
186.03	0.00	186.55	0.00	187.07	0.00	187.59	0.08
186.04	0.00	186.56	0.00	187.08	0.00	187.60	0.08
186.05	0.00	186.57	0.00	187.09	0.00	187.61	0.08
186.06	0.00	186.58	0.00	187.10	0.00	187.62	0.08
186.07	0.00	186.59	0.00	187.11	0.00	187.63	0.09
186.08	0.00	186.60	0.00	187.12	0.00	187.64	0.09
186.09	0.00	186.61	0.00	187.13	0.00	187.65	0.09
186.10	0.00	186.62	0.00	187.14	0.00	187.66	0.09
186.11	0.00	186.63	0.00	187.15	0.00	187.67	0.09
186.12	0.00	186.64	0.00	187.16	0.00	187.68	0.09
186.13	0.00	186.65	0.00	187.17	0.00	187.69	0.10
186.14	0.00	186.66	0.00	187.18	0.00	187.70	0.10
186.15	0.00	186.67	0.00	187.19	0.00	187.71	0.10
186.16	0.00	186.68	0.00	187.20	0.00	187.72	0.10

Stage-Discharge for Pond B-18: Basin #18 (continued)

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
187.73	0.10	188.25	0.16	188.77	0.20	189.29	0.23
187.74	0.10	188.26	0.16	188.78	0.20	189.30	0.23
187.75	0.10	188.27	0.16	188.79	0.20	189.31	0.23
187.76	0.10	188.28	0.16	188.80	0.20	189.32	0.23
187.77	0.11	188.29	0.16	188.81	0.20	189.33	0.23
187.78	0.11	188.30	0.16	188.82	0.20	189.34	0.23
187.79	0.11	188.31	0.16	188.83	0.20	189.35	0.24
187.80	0.11	188.32	0.16	188.84	0.20	189.36	0.27
187.81	0.11	188.33	0.16	188.85	0.20	189.37	0.30
187.82	0.11	188.34	0.16	188.86	0.20	189.38	0.34
187.83	0.11	188.35	0.16	188.87	0.20	189.39	0.38
187.84	0.11	188.36	0.16	188.88	0.20	189.40	0.43
187.85	0.12	188.37	0.17	188.89	0.20	189.41	0.48
187.86	0.12	188.38	0.17	188.90	0.20	189.42	0.53
187.87	0.12	188.39	0.17	188.91	0.20	189.43	0.59
187.88	0.12	188.40	0.17	188.92	0.21	189.44	0.65
187.89	0.12	188.41	0.17	188.93	0.21	189.45	0.71
187.90	0.12	188.42	0.17	188.94	0.21	189.46	0.78
187.91	0.12	188.43	0.17	188.95	0.21	189.47	0.85
187.92	0.12	188.44	0.17	188.96	0.21	189.48	0.92
187.93	0.12	188.45	0.17	188.97	0.21	189.49	0.99
187.94	0.13	188.46	0.17	188.98	0.21	189.50	1.07
187.95	0.13	188.47	0.17	188.99	0.21	189.51	1.15
187.96	0.13	188.48	0.17	189.00	0.21	189.52	1.23
187.97	0.13	188.49	0.17	189.01	0.21	189.53	1.32
187.98	0.13	188.50	0.18	189.02	0.21	189.54	1.40
187.99	0.13	188.51	0.18	189.03	0.21	189.55	1.49
188.00	0.13	188.52	0.18	189.04	0.21	189.56	1.58
188.01	0.13	188.53	0.18	189.05	0.21	189.57	1.67
188.02	0.13	188.54	0.18	189.06	0.21	189.58	1.76
188.03	0.13	188.55	0.18	189.07	0.22	189.59	1.86
188.04	0.14	188.56	0.18	189.08	0.22	189.60	1.96
188.05	0.14	188.57	0.18	189.09	0.22	189.61	2.06
188.06	0.14	188.58	0.18	189.10	0.22	189.62	2.16
188.07	0.14	188.59	0.18	189.11	0.22	189.63	2.26
188.08	0.14	188.60	0.18	189.12	0.22	189.64	2.37
188.09	0.14	188.61	0.18	189.13	0.22	189.65	2.47
188.10	0.14	188.62	0.18	189.14	0.22	189.66	2.58
188.11	0.14	188.63	0.19	189.15	0.22	189.67	2.69
188.12	0.14	188.64	0.19	189.16	0.22	189.68	2.80
188.13	0.14	188.65	0.19	189.17	0.22	189.69	2.91
188.14	0.15	188.66	0.19	189.18	0.22	189.70	3.03
188.15	0.15	188.67	0.19	189.19	0.22	189.71	3.14
188.16	0.15	188.68	0.19	189.20	0.22	189.72	3.26
188.17	0.15	188.69	0.19	189.21	0.22	189.73	3.38
188.18	0.15	188.70	0.19	189.22	0.22	189.74	3.50
188.19	0.15	188.71	0.19	189.23	0.22	189.75	3.62
188.20	0.15	188.72	0.19	189.24	0.23	189.76	3.74
188.21	0.15	188.73	0.19	189.25	0.23	189.77	3.86
188.22	0.15	188.74	0.19	189.26	0.23	189.78	3.99
188.23	0.15	188.75	0.19	189.27	0.23	189.79	4.12
188.24	0.15	188.76	0.19	189.28	0.23	189.80	4.24

Stage-Discharge for Pond B-18: Basin #18 (continued)

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
189.81	4.37	190.33	11.37	190.85	12.15
189.82	4.50	190.34	11.39	190.86	12.16
189.83	4.63	190.35	11.40	190.87	12.17
189.84	4.77	190.36	11.42	190.88	12.19
189.85	4.90	190.37	11.43	190.89	12.20
189.86	5.04	190.38	11.45	190.90	12.22
189.87	5.17	190.39	11.47	190.91	12.23
189.88	5.31	190.40	11.48	190.92	12.25
189.89	5.45	190.41	11.50	190.93	12.26
189.90	5.59	190.42	11.51	190.94	12.27
189.91	5.73	190.43	11.53	190.95	12.29
189.92	5.87	190.44	11.54	190.96	12.42
189.93	6.02	190.45	11.56	190.97	12.65
189.94	6.16	190.46	11.57	190.98	12.94
189.95	6.31	190.47	11.59	190.99	13.28
189.96	6.45	190.48	11.60	191.00	13.67
189.97	6.60	190.49	11.62		
189.98	6.75	190.50	11.63		
189.99	6.90	190.51	11.65		
190.00	7.05	190.52	11.66		
190.01	7.20	190.53	11.68		
190.02	7.35	190.54	11.69		
190.03	7.51	190.55	11.71		
190.04	7.66	190.56	11.72		
190.05	7.82	190.57	11.74		
190.06	7.97	190.58	11.75		
190.07	8.13	190.59	11.77		
190.08	8.29	190.60	11.78		
190.09	8.45	190.61	11.80		
190.10	8.61	190.62	11.81		
190.11	8.77	190.63	11.83		
190.12	8.93	190.64	11.84		
190.13	9.10	190.65	11.85		
190.14	9.26	190.66	11.87		
190.15	9.42	190.67	11.88		
190.16	9.59	190.68	11.90		
190.17	9.76	190.69	11.91		
190.18	9.92	190.70	11.93		
190.19	10.09	190.71	11.94		
190.20	10.26	190.72	11.96		
190.21	10.43	190.73	11.97		
190.22	10.60	190.74	11.99		
190.23	10.77	190.75	12.00		
190.24	10.94	190.76	12.02		
190.25	11.12	190.77	12.03		
190.26	11.27	190.78	12.04		
190.27	11.28	190.79	12.06		
190.28	11.30	190.80	12.07		
190.29	11.31	190.81	12.09		
190.30	11.33	190.82	12.10		
190.31	11.34	190.83	12.12		
190.32	11.36	190.84	12.13		

Stage-Area-Storage for Pond B-18: Basin #18

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
185.65	0	0	186.17	1,195	392
185.66	32	0	186.18	1,199	404
185.67	64	1	186.19	1,204	416
185.68	96	1	186.20	1,208	429
185.69	128	3	186.21	1,212	441
185.70	160	4	186.22	1,217	453
185.71	192	6	186.23	1,221	465
185.72	224	8	186.24	1,226	477
185.73	256	10	186.25	1,230	489
185.74	288	13	186.26	1,235	502
185.75	320	16	186.27	1,239	514
185.76	352	19	186.28	1,244	527
185.77	384	23	186.29	1,248	539
185.78	416	27	186.30	1,253	552
185.79	448	31	186.31	1,257	564
185.80	480	36	186.32	1,261	577
185.81	512	41	186.33	1,266	589
185.82	544	46	186.34	1,270	602
185.83	575	52	186.35	1,275	615
185.84	607	58	186.36	1,279	628
185.85	639	64	186.37	1,284	640
185.86	671	70	186.38	1,288	653
185.87	703	77	186.39	1,293	666
185.88	735	85	186.40	1,297	679
185.89	767	92	186.41	1,301	692
185.90	799	100	186.42	1,306	705
185.91	831	108	186.43	1,310	718
185.92	863	117	186.44	1,315	731
185.93	895	125	186.45	1,319	744
185.94	927	134	186.46	1,324	758
185.95	959	144	186.47	1,328	771
185.96	991	154	186.48	1,333	784
185.97	1,023	164	186.49	1,337	798
185.98	1,055	174	186.50	1,342	811
185.99	1,087	185	186.51	1,346	824
186.00	1,119	196	186.52	1,350	838
186.01	1,123	207	186.53	1,355	851
186.02	1,128	218	186.54	1,359	865
186.03	1,132	230	186.55	1,364	879
186.04	1,137	241	186.56	1,368	892
186.05	1,141	252	186.57	1,373	906
186.06	1,146	264	186.58	1,377	920
186.07	1,150	275	186.59	1,382	933
186.08	1,155	287	186.60	1,386	947
186.09	1,159	298	186.61	1,390	961
186.10	1,163	310	186.62	1,395	975
186.11	1,168	322	186.63	1,399	989
186.12	1,172	333	186.64	1,404	1,003
186.13	1,177	345	186.65	1,408	1,017
186.14	1,181	357	186.66	1,413	1,031
186.15	1,186	369	186.67	1,417	1,045
186.16	1,190	381	186.68	1,422	1,060

Stage-Area-Storage for Pond B-18: Basin #18 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
186.69	1,426	1,074	187.21	1,669	1,877
186.70	1,431	1,088	187.22	1,674	1,894
186.71	1,435	1,102	187.23	1,679	1,910
186.72	1,439	1,117	187.24	1,684	1,927
186.73	1,444	1,131	187.25	1,689	1,944
186.74	1,448	1,146	187.26	1,694	1,961
186.75	1,453	1,160	187.27	1,699	1,978
186.76	1,457	1,175	187.28	1,704	1,995
186.77	1,462	1,189	187.29	1,709	2,012
186.78	1,466	1,204	187.30	1,714	2,029
186.79	1,471	1,219	187.31	1,719	2,046
186.80	1,475	1,233	187.32	1,724	2,063
186.81	1,479	1,248	187.33	1,729	2,081
186.82	1,484	1,263	187.34	1,734	2,098
186.83	1,488	1,278	187.35	1,739	2,115
186.84	1,493	1,293	187.36	1,744	2,133
186.85	1,497	1,308	187.37	1,749	2,150
186.86	1,502	1,323	187.38	1,754	2,168
186.87	1,506	1,338	187.39	1,759	2,185
186.88	1,511	1,353	187.40	1,764	2,203
186.89	1,515	1,368	187.41	1,769	2,221
186.90	1,520	1,383	187.42	1,774	2,238
186.91	1,524	1,398	187.43	1,779	2,256
186.92	1,528	1,414	187.44	1,784	2,274
186.93	1,533	1,429	187.45	1,789	2,292
186.94	1,537	1,444	187.46	1,794	2,310
186.95	1,542	1,460	187.47	1,799	2,328
186.96	1,546	1,475	187.48	1,804	2,346
186.97	1,551	1,491	187.49	1,809	2,364
186.98	1,555	1,506	187.50	1,815	2,382
186.99	1,560	1,522	187.51	1,820	2,400
187.00	1,564	1,537	187.52	1,825	2,418
187.01	1,569	1,553	187.53	1,830	2,437
187.02	1,574	1,569	187.54	1,835	2,455
187.03	1,579	1,584	187.55	1,840	2,473
187.04	1,584	1,600	187.56	1,845	2,492
187.05	1,589	1,616	187.57	1,850	2,510
187.06	1,594	1,632	187.58	1,855	2,529
187.07	1,599	1,648	187.59	1,860	2,547
187.08	1,604	1,664	187.60	1,865	2,566
187.09	1,609	1,680	187.61	1,870	2,585
187.10	1,614	1,696	187.62	1,875	2,603
187.11	1,619	1,712	187.63	1,880	2,622
187.12	1,624	1,729	187.64	1,885	2,641
187.13	1,629	1,745	187.65	1,890	2,660
187.14	1,634	1,761	187.66	1,895	2,679
187.15	1,639	1,778	187.67	1,900	2,698
187.16	1,644	1,794	187.68	1,905	2,717
187.17	1,649	1,810	187.69	1,910	2,736
187.18	1,654	1,827	187.70	1,915	2,755
187.19	1,659	1,844	187.71	1,920	2,774
187.20	1,664	1,860	187.72	1,925	2,793

Stage-Area-Storage for Pond B-18: Basin #18 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
187.73	1,930	2,813	188.25	2,205	3,886
187.74	1,935	2,832	188.26	2,210	3,908
187.75	1,940	2,851	188.27	2,216	3,930
187.76	1,945	2,871	188.28	2,221	3,952
187.77	1,950	2,890	188.29	2,227	3,974
187.78	1,955	2,910	188.30	2,232	3,996
187.79	1,960	2,929	188.31	2,238	4,019
187.80	1,965	2,949	188.32	2,244	4,041
187.81	1,970	2,969	188.33	2,249	4,064
187.82	1,975	2,988	188.34	2,255	4,086
187.83	1,980	3,008	188.35	2,260	4,109
187.84	1,985	3,028	188.36	2,266	4,131
187.85	1,990	3,048	188.37	2,271	4,154
187.86	1,995	3,068	188.38	2,277	4,177
187.87	2,000	3,088	188.39	2,283	4,200
187.88	2,005	3,108	188.40	2,288	4,222
187.89	2,010	3,128	188.41	2,294	4,245
187.90	2,015	3,148	188.42	2,299	4,268
187.91	2,020	3,168	188.43	2,305	4,291
187.92	2,025	3,188	188.44	2,311	4,314
187.93	2,030	3,209	188.45	2,316	4,338
187.94	2,035	3,229	188.46	2,322	4,361
187.95	2,040	3,249	188.47	2,327	4,384
187.96	2,045	3,270	188.48	2,333	4,407
187.97	2,050	3,290	188.49	2,338	4,431
187.98	2,055	3,311	188.50	2,344	4,454
187.99	2,060	3,331	188.51	2,350	4,478
188.00	2,065	3,352	188.52	2,355	4,501
188.01	2,071	3,373	188.53	2,361	4,525
188.02	2,076	3,393	188.54	2,366	4,548
188.03	2,082	3,414	188.55	2,372	4,572
188.04	2,087	3,435	188.56	2,377	4,596
188.05	2,093	3,456	188.57	2,383	4,620
188.06	2,098	3,477	188.58	2,389	4,643
188.07	2,104	3,498	188.59	2,394	4,667
188.08	2,110	3,519	188.60	2,400	4,691
188.09	2,115	3,540	188.61	2,405	4,715
188.10	2,121	3,561	188.62	2,411	4,739
188.11	2,126	3,582	188.63	2,417	4,764
188.12	2,132	3,604	188.64	2,422	4,788
188.13	2,138	3,625	188.65	2,428	4,812
188.14	2,143	3,646	188.66	2,433	4,836
188.15	2,149	3,668	188.67	2,439	4,861
188.16	2,154	3,689	188.68	2,444	4,885
188.17	2,160	3,711	188.69	2,450	4,910
188.18	2,165	3,733	188.70	2,456	4,934
188.19	2,171	3,754	188.71	2,461	4,959
188.20	2,177	3,776	188.72	2,467	4,983
188.21	2,182	3,798	188.73	2,472	5,008
188.22	2,188	3,820	188.74	2,478	5,033
188.23	2,193	3,842	188.75	2,484	5,058
188.24	2,199	3,863	188.76	2,489	5,082

Stage-Area-Storage for Pond B-18: Basin #18 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
188.77	2,495	5,107	189.29	2,801	6,482
188.78	2,500	5,132	189.30	2,807	6,510
188.79	2,506	5,157	189.31	2,813	6,538
188.80	2,511	5,182	189.32	2,819	6,567
188.81	2,517	5,208	189.33	2,826	6,595
188.82	2,523	5,233	189.34	2,832	6,623
188.83	2,528	5,258	189.35	2,838	6,651
188.84	2,534	5,283	189.36	2,844	6,680
188.85	2,539	5,309	189.37	2,850	6,708
188.86	2,545	5,334	189.38	2,856	6,737
188.87	2,550	5,360	189.39	2,862	6,765
188.88	2,556	5,385	189.40	2,869	6,794
188.89	2,562	5,411	189.41	2,875	6,823
188.90	2,567	5,436	189.42	2,881	6,852
188.91	2,573	5,462	189.43	2,887	6,880
188.92	2,578	5,488	189.44	2,893	6,909
188.93	2,584	5,514	189.45	2,899	6,938
188.94	2,590	5,539	189.46	2,905	6,967
188.95	2,595	5,565	189.47	2,912	6,996
188.96	2,601	5,591	189.48	2,918	7,026
188.97	2,606	5,617	189.49	2,924	7,055
188.98	2,612	5,643	189.50	2,930	7,084
188.99	2,617	5,670	189.51	2,936	7,113
189.00	2,623	5,696	189.52	2,942	7,143
189.01	2,629	5,722	189.53	2,948	7,172
189.02	2,635	5,748	189.54	2,955	7,202
189.03	2,641	5,775	189.55	2,961	7,231
189.04	2,648	5,801	189.56	2,967	7,261
189.05	2,654	5,828	189.57	2,973	7,291
189.06	2,660	5,854	189.58	2,979	7,320
189.07	2,666	5,881	189.59	2,985	7,350
189.08	2,672	5,908	189.60	2,991	7,380
189.09	2,678	5,934	189.61	2,998	7,410
189.10	2,684	5,961	189.62	3,004	7,440
189.11	2,691	5,988	189.63	3,010	7,470
189.12	2,697	6,015	189.64	3,016	7,500
189.13	2,703	6,042	189.65	3,022	7,530
189.14	2,709	6,069	189.66	3,028	7,561
189.15	2,715	6,096	189.67	3,034	7,591
189.16	2,721	6,123	189.68	3,041	7,621
189.17	2,727	6,151	189.69	3,047	7,652
189.18	2,734	6,178	189.70	3,053	7,682
189.19	2,740	6,205	189.71	3,059	7,713
189.20	2,746	6,233	189.72	3,065	7,744
189.21	2,752	6,260	189.73	3,071	7,774
189.22	2,758	6,288	189.74	3,077	7,805
189.23	2,764	6,315	189.75	3,084	7,836
189.24	2,770	6,343	189.76	3,090	7,867
189.25	2,777	6,371	189.77	3,096	7,898
189.26	2,783	6,399	189.78	3,102	7,929
189.27	2,789	6,426	189.79	3,108	7,960
189.28	2,795	6,454	189.80	3,114	7,991

Stage-Area-Storage for Pond B-18: Basin #18 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
189.81	3,120	8,022	190.33	3,458	9,731
189.82	3,126	8,053	190.34	3,465	9,765
189.83	3,133	8,084	190.35	3,472	9,800
189.84	3,139	8,116	190.36	3,479	9,835
189.85	3,145	8,147	190.37	3,485	9,869
189.86	3,151	8,179	190.38	3,492	9,904
189.87	3,157	8,210	190.39	3,499	9,939
189.88	3,163	8,242	190.40	3,505	9,974
189.89	3,169	8,273	190.41	3,512	10,009
189.90	3,176	8,305	190.42	3,519	10,045
189.91	3,182	8,337	190.43	3,526	10,080
189.92	3,188	8,369	190.44	3,532	10,115
189.93	3,194	8,401	190.45	3,539	10,150
189.94	3,200	8,433	190.46	3,546	10,186
189.95	3,206	8,465	190.47	3,552	10,221
189.96	3,212	8,497	190.48	3,559	10,257
189.97	3,219	8,529	190.49	3,566	10,293
189.98	3,225	8,561	190.50	3,573	10,328
189.99	3,231	8,593	190.51	3,579	10,364
190.00	3,237	8,626	190.52	3,586	10,400
190.01	3,244	8,658	190.53	3,593	10,436
190.02	3,250	8,691	190.54	3,599	10,472
190.03	3,257	8,723	190.55	3,606	10,508
190.04	3,264	8,756	190.56	3,613	10,544
190.05	3,271	8,789	190.57	3,619	10,580
190.06	3,277	8,821	190.58	3,626	10,616
190.07	3,284	8,854	190.59	3,633	10,652
190.08	3,291	8,887	190.60	3,640	10,689
190.09	3,297	8,920	190.61	3,646	10,725
190.10	3,304	8,953	190.62	3,653	10,762
190.11	3,311	8,986	190.63	3,660	10,798
190.12	3,318	9,019	190.64	3,666	10,835
190.13	3,324	9,052	190.65	3,673	10,872
190.14	3,331	9,086	190.66	3,680	10,908
190.15	3,338	9,119	190.67	3,687	10,945
190.16	3,344	9,152	190.68	3,693	10,982
190.17	3,351	9,186	190.69	3,700	11,019
190.18	3,358	9,219	190.70	3,707	11,056
190.19	3,364	9,253	190.71	3,713	11,093
190.20	3,371	9,287	190.72	3,720	11,130
190.21	3,378	9,320	190.73	3,727	11,168
190.22	3,385	9,354	190.74	3,734	11,205
190.23	3,391	9,388	190.75	3,740	11,242
190.24	3,398	9,422	190.76	3,747	11,280
190.25	3,405	9,456	190.77	3,754	11,317
190.26	3,411	9,490	190.78	3,760	11,355
190.27	3,418	9,524	190.79	3,767	11,392
190.28	3,425	9,558	190.80	3,774	11,430
190.29	3,432	9,593	190.81	3,781	11,468
190.30	3,438	9,627	190.82	3,787	11,506
190.31	3,445	9,662	190.83	3,794	11,544
190.32	3,452	9,696	190.84	3,801	11,582

Stage-Area-Storage for Pond B-18: Basin #18 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
190.85	3,807	11,620
190.86	3,814	11,658
190.87	3,821	11,696
190.88	3,827	11,734
190.89	3,834	11,773
190.90	3,841	11,811
190.91	3,848	11,849
190.92	3,854	11,888
190.93	3,861	11,926
190.94	3,868	11,965
190.95	3,874	12,004
190.96	3,881	12,043
190.97	3,888	12,081
190.98	3,895	12,120
190.99	3,901	12,159
191.00	3,908	12,198

Summary for Pond B-19: Basin #19

Inflow Area = 1.715 ac, 34.81% Impervious, Inflow Depth = 3.29" for Current 10 yr event
 Inflow = 5.79 cfs @ 12.17 hrs, Volume= 0.470 af
 Outflow = 2.83 cfs @ 12.35 hrs, Volume= 0.409 af, Atten= 51%, Lag= 10.9 min
 Primary = 2.83 cfs @ 12.35 hrs, Volume= 0.409 af
 Routed to Link PDA-2 : Proposed Drainage Area #2

Routing by Stor-Ind method, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 Peak Elev= 198.09' @ 12.36 hrs Surf.Area= 3,876 sf Storage= 9,166 cf

Plug-Flow detention time= 331.3 min calculated for 0.409 af (87% of inflow)
 Center-of-Mass det. time= 270.2 min (1,066.7 - 796.5)

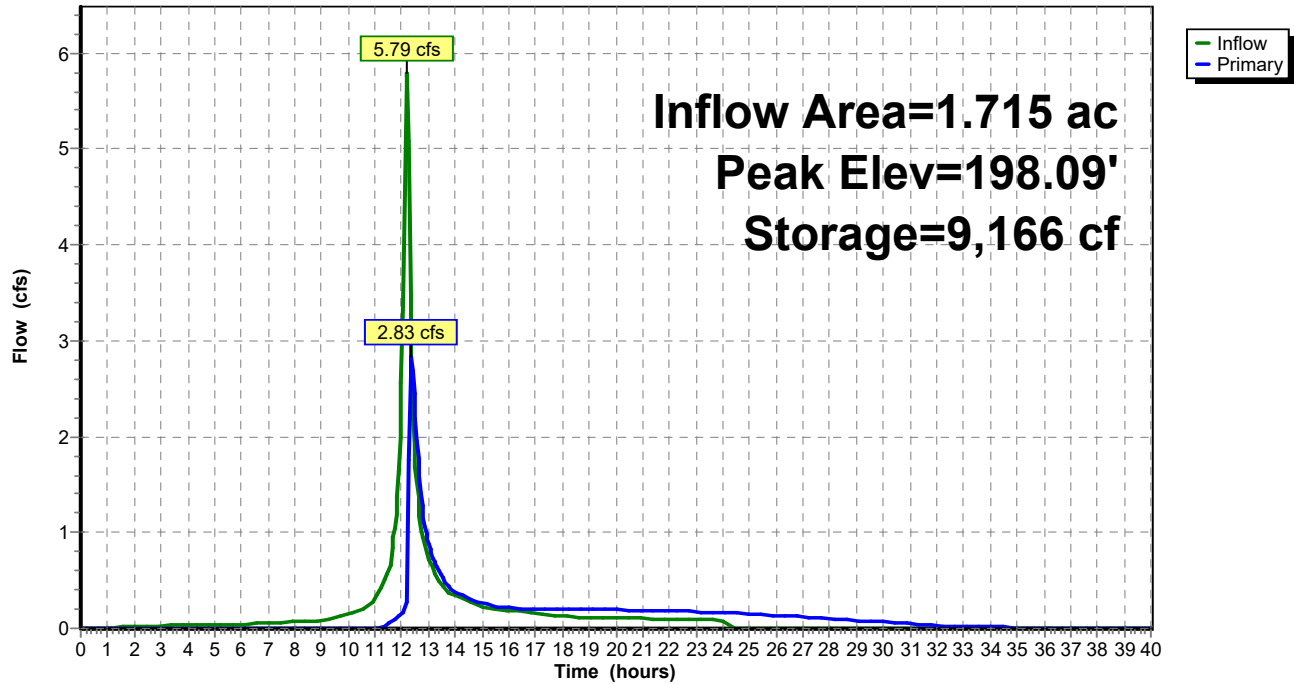
Volume	Invert	Avail.Storage	Storage Description
#1	194.65'	12,982 cf	Custom Stage Data (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
194.65	0	0	0
195.00	1,916	335	335
196.00	2,490	2,203	2,538
197.00	3,119	2,805	5,343
198.00	3,806	3,463	8,805
199.00	4,548	4,177	12,982

Device	Routing	Invert	Outlet Devices
#1	Primary	194.30'	18.0" Round Culvert L= 136.0' Ke= 0.500 Inlet / Outlet Invert= 194.30' / 185.86' S= 0.0621 ' / Cc= 0.900 n= 0.013, Flow Area= 1.77 sf
#2	Device 1	196.00'	2.5" Vert. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#3	Device 1	197.75'	4.0' long Sharp-Crested Rectangular Weir 2 End Contraction(s)
#4	Primary	198.95'	50.0' long + 3.0 ' / SideZ x 5.0' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 Coef. (English) 2.34 2.50 2.70 2.68 2.68 2.66 2.65 2.65 2.65 2.65 2.67 2.66 2.68 2.70 2.74 2.79 2.88

Primary OutFlow Max=2.81 cfs @ 12.35 hrs HW=198.09' (Free Discharge)

1=Culvert (Passes 2.81 cfs of 14.84 cfs potential flow)
 2=Orifice/Grate (Orifice Controls 0.23 cfs @ 6.79 fps)
 3=Sharp-Crested Rectangular Weir (Weir Controls 2.58 cfs @ 1.91 fps)
 4=Broad-Crested Rectangular Weir (Controls 0.00 cfs)

Pond B-19: Basin #19**Hydrograph**

Stage-Discharge for Pond B-19: Basin #19

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
194.65	0.00	195.17	0.00	195.69	0.00	196.21	0.05
194.66	0.00	195.18	0.00	195.70	0.00	196.22	0.06
194.67	0.00	195.19	0.00	195.71	0.00	196.23	0.06
194.68	0.00	195.20	0.00	195.72	0.00	196.24	0.06
194.69	0.00	195.21	0.00	195.73	0.00	196.25	0.06
194.70	0.00	195.22	0.00	195.74	0.00	196.26	0.06
194.71	0.00	195.23	0.00	195.75	0.00	196.27	0.07
194.72	0.00	195.24	0.00	195.76	0.00	196.28	0.07
194.73	0.00	195.25	0.00	195.77	0.00	196.29	0.07
194.74	0.00	195.26	0.00	195.78	0.00	196.30	0.07
194.75	0.00	195.27	0.00	195.79	0.00	196.31	0.07
194.76	0.00	195.28	0.00	195.80	0.00	196.32	0.08
194.77	0.00	195.29	0.00	195.81	0.00	196.33	0.08
194.78	0.00	195.30	0.00	195.82	0.00	196.34	0.08
194.79	0.00	195.31	0.00	195.83	0.00	196.35	0.08
194.80	0.00	195.32	0.00	195.84	0.00	196.36	0.08
194.81	0.00	195.33	0.00	195.85	0.00	196.37	0.08
194.82	0.00	195.34	0.00	195.86	0.00	196.38	0.09
194.83	0.00	195.35	0.00	195.87	0.00	196.39	0.09
194.84	0.00	195.36	0.00	195.88	0.00	196.40	0.09
194.85	0.00	195.37	0.00	195.89	0.00	196.41	0.09
194.86	0.00	195.38	0.00	195.90	0.00	196.42	0.09
194.87	0.00	195.39	0.00	195.91	0.00	196.43	0.09
194.88	0.00	195.40	0.00	195.92	0.00	196.44	0.10
194.89	0.00	195.41	0.00	195.93	0.00	196.45	0.10
194.90	0.00	195.42	0.00	195.94	0.00	196.46	0.10
194.91	0.00	195.43	0.00	195.95	0.00	196.47	0.10
194.92	0.00	195.44	0.00	195.96	0.00	196.48	0.10
194.93	0.00	195.45	0.00	195.97	0.00	196.49	0.10
194.94	0.00	195.46	0.00	195.98	0.00	196.50	0.10
194.95	0.00	195.47	0.00	195.99	0.00	196.51	0.10
194.96	0.00	195.48	0.00	196.00	0.00	196.52	0.11
194.97	0.00	195.49	0.00	196.01	0.00	196.53	0.11
194.98	0.00	195.50	0.00	196.02	0.00	196.54	0.11
194.99	0.00	195.51	0.00	196.03	0.00	196.55	0.11
195.00	0.00	195.52	0.00	196.04	0.00	196.56	0.11
195.01	0.00	195.53	0.00	196.05	0.00	196.57	0.11
195.02	0.00	195.54	0.00	196.06	0.01	196.58	0.11
195.03	0.00	195.55	0.00	196.07	0.01	196.59	0.11
195.04	0.00	195.56	0.00	196.08	0.01	196.60	0.12
195.05	0.00	195.57	0.00	196.09	0.01	196.61	0.12
195.06	0.00	195.58	0.00	196.10	0.02	196.62	0.12
195.07	0.00	195.59	0.00	196.11	0.02	196.63	0.12
195.08	0.00	195.60	0.00	196.12	0.02	196.64	0.12
195.09	0.00	195.61	0.00	196.13	0.03	196.65	0.12
195.10	0.00	195.62	0.00	196.14	0.03	196.66	0.12
195.11	0.00	195.63	0.00	196.15	0.03	196.67	0.12
195.12	0.00	195.64	0.00	196.16	0.04	196.68	0.12
195.13	0.00	195.65	0.00	196.17	0.04	196.69	0.13
195.14	0.00	195.66	0.00	196.18	0.05	196.70	0.13
195.15	0.00	195.67	0.00	196.19	0.05	196.71	0.13
195.16	0.00	195.68	0.00	196.20	0.05	196.72	0.13

Stage-Discharge for Pond B-19: Basin #19 (continued)

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
196.73	0.13	197.25	0.18	197.77	0.25	198.29	5.29
196.74	0.13	197.26	0.18	197.78	0.28	198.30	5.43
196.75	0.13	197.27	0.18	197.79	0.32	198.31	5.57
196.76	0.13	197.28	0.18	197.80	0.36	198.32	5.71
196.77	0.13	197.29	0.18	197.81	0.41	198.33	5.85
196.78	0.13	197.30	0.18	197.82	0.46	198.34	6.00
196.79	0.14	197.31	0.18	197.83	0.51	198.35	6.14
196.80	0.14	197.32	0.18	197.84	0.57	198.36	6.29
196.81	0.14	197.33	0.18	197.85	0.63	198.37	6.43
196.82	0.14	197.34	0.18	197.86	0.69	198.38	6.58
196.83	0.14	197.35	0.18	197.87	0.76	198.39	6.73
196.84	0.14	197.36	0.18	197.88	0.83	198.40	6.88
196.85	0.14	197.37	0.18	197.89	0.90	198.41	7.03
196.86	0.14	197.38	0.19	197.90	0.97	198.42	7.18
196.87	0.14	197.39	0.19	197.91	1.05	198.43	7.34
196.88	0.14	197.40	0.19	197.92	1.13	198.44	7.49
196.89	0.15	197.41	0.19	197.93	1.21	198.45	7.64
196.90	0.15	197.42	0.19	197.94	1.30	198.46	7.80
196.91	0.15	197.43	0.19	197.95	1.38	198.47	7.96
196.92	0.15	197.44	0.19	197.96	1.47	198.48	8.11
196.93	0.15	197.45	0.19	197.97	1.56	198.49	8.27
196.94	0.15	197.46	0.19	197.98	1.65	198.50	8.43
196.95	0.15	197.47	0.19	197.99	1.74	198.51	8.59
196.96	0.15	197.48	0.19	198.00	1.84	198.52	8.75
196.97	0.15	197.49	0.19	198.01	1.94	198.53	8.91
196.98	0.15	197.50	0.19	198.02	2.04	198.54	9.08
196.99	0.15	197.51	0.19	198.03	2.14	198.55	9.24
197.00	0.16	197.52	0.20	198.04	2.24	198.56	9.41
197.01	0.16	197.53	0.20	198.05	2.35	198.57	9.57
197.02	0.16	197.54	0.20	198.06	2.45	198.58	9.74
197.03	0.16	197.55	0.20	198.07	2.56	198.59	9.91
197.04	0.16	197.56	0.20	198.08	2.67	198.60	10.07
197.05	0.16	197.57	0.20	198.09	2.78	198.61	10.24
197.06	0.16	197.58	0.20	198.10	2.89	198.62	10.41
197.07	0.16	197.59	0.20	198.11	3.01	198.63	10.58
197.08	0.16	197.60	0.20	198.12	3.12	198.64	10.75
197.09	0.16	197.61	0.20	198.13	3.24	198.65	10.93
197.10	0.16	197.62	0.20	198.14	3.36	198.66	11.10
197.11	0.16	197.63	0.20	198.15	3.48	198.67	11.27
197.12	0.17	197.64	0.20	198.16	3.60	198.68	11.45
197.13	0.17	197.65	0.20	198.17	3.72	198.69	11.62
197.14	0.17	197.66	0.20	198.18	3.85	198.70	11.80
197.15	0.17	197.67	0.21	198.19	3.97	198.71	11.98
197.16	0.17	197.68	0.21	198.20	4.10	198.72	12.16
197.17	0.17	197.69	0.21	198.21	4.23	198.73	12.33
197.18	0.17	197.70	0.21	198.22	4.35	198.74	12.51
197.19	0.17	197.71	0.21	198.23	4.48	198.75	12.69
197.20	0.17	197.72	0.21	198.24	4.62	198.76	12.87
197.21	0.17	197.73	0.21	198.25	4.75	198.77	13.06
197.22	0.17	197.74	0.21	198.26	4.88	198.78	13.24
197.23	0.17	197.75	0.21	198.27	5.02	198.79	13.42
197.24	0.17	197.76	0.22	198.28	5.16	198.80	13.60

Stage-Discharge for Pond B-19: Basin #19 (continued)

Elevation (feet)	Primary (cfs)
198.81	13.79
198.82	13.97
198.83	14.16
198.84	14.35
198.85	14.53
198.86	14.72
198.87	14.91
198.88	15.10
198.89	15.29
198.90	15.48
198.91	15.67
198.92	15.86
198.93	16.05
198.94	16.25
198.95	16.44
198.96	16.75
198.97	17.16
198.98	17.48
198.99	17.83
199.00	18.22

Stage-Area-Storage for Pond B-19: Basin #19

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
194.65	0	0	195.17	2,014	669
194.66	55	0	195.18	2,019	689
194.67	109	1	195.19	2,025	710
194.68	164	2	195.20	2,031	730
194.69	219	4	195.21	2,037	750
194.70	274	7	195.22	2,042	771
194.71	328	10	195.23	2,048	791
194.72	383	13	195.24	2,054	812
194.73	438	18	195.25	2,060	832
194.74	493	22	195.26	2,065	853
194.75	547	27	195.27	2,071	874
194.76	602	33	195.28	2,077	894
194.77	657	39	195.29	2,082	915
194.78	712	46	195.30	2,088	936
194.79	766	54	195.31	2,094	957
194.80	821	62	195.32	2,100	978
194.81	876	70	195.33	2,105	999
194.82	931	79	195.34	2,111	1,020
194.83	985	89	195.35	2,117	1,041
194.84	1,040	99	195.36	2,123	1,062
194.85	1,095	109	195.37	2,128	1,084
194.86	1,150	121	195.38	2,134	1,105
194.87	1,204	132	195.39	2,140	1,126
194.88	1,259	145	195.40	2,146	1,148
194.89	1,314	158	195.41	2,151	1,169
194.90	1,369	171	195.42	2,157	1,191
194.91	1,423	185	195.43	2,163	1,212
194.92	1,478	200	195.44	2,169	1,234
194.93	1,533	215	195.45	2,174	1,256
194.94	1,588	230	195.46	2,180	1,277
194.95	1,642	246	195.47	2,186	1,299
194.96	1,697	263	195.48	2,192	1,321
194.97	1,752	280	195.49	2,197	1,343
194.98	1,807	298	195.50	2,203	1,365
194.99	1,861	316	195.51	2,209	1,387
195.00	1,916	335	195.52	2,214	1,409
195.01	1,922	354	195.53	2,220	1,431
195.02	1,927	374	195.54	2,226	1,454
195.03	1,933	393	195.55	2,232	1,476
195.04	1,939	412	195.56	2,237	1,498
195.05	1,945	432	195.57	2,243	1,521
195.06	1,950	451	195.58	2,249	1,543
195.07	1,956	471	195.59	2,255	1,566
195.08	1,962	490	195.60	2,260	1,588
195.09	1,968	510	195.61	2,266	1,611
195.10	1,973	530	195.62	2,272	1,634
195.11	1,979	550	195.63	2,278	1,656
195.12	1,985	569	195.64	2,283	1,679
195.13	1,991	589	195.65	2,289	1,702
195.14	1,996	609	195.66	2,295	1,725
195.15	2,002	629	195.67	2,301	1,748
195.16	2,008	649	195.68	2,306	1,771

Stage-Area-Storage for Pond B-19: Basin #19 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
195.69	2,312	1,794	196.21	2,622	3,075
195.70	2,318	1,817	196.22	2,628	3,101
195.71	2,324	1,840	196.23	2,635	3,128
195.72	2,329	1,864	196.24	2,641	3,154
195.73	2,335	1,887	196.25	2,647	3,180
195.74	2,341	1,910	196.26	2,654	3,207
195.75	2,347	1,934	196.27	2,660	3,234
195.76	2,352	1,957	196.28	2,666	3,260
195.77	2,358	1,981	196.29	2,672	3,287
195.78	2,364	2,004	196.30	2,679	3,314
195.79	2,369	2,028	196.31	2,685	3,340
195.80	2,375	2,052	196.32	2,691	3,367
195.81	2,381	2,076	196.33	2,698	3,394
195.82	2,387	2,099	196.34	2,704	3,421
195.83	2,392	2,123	196.35	2,710	3,448
195.84	2,398	2,147	196.36	2,716	3,475
195.85	2,404	2,171	196.37	2,723	3,503
195.86	2,410	2,195	196.38	2,729	3,530
195.87	2,415	2,219	196.39	2,735	3,557
195.88	2,421	2,244	196.40	2,742	3,585
195.89	2,427	2,268	196.41	2,748	3,612
195.90	2,433	2,292	196.42	2,754	3,640
195.91	2,438	2,317	196.43	2,760	3,667
195.92	2,444	2,341	196.44	2,767	3,695
195.93	2,450	2,365	196.45	2,773	3,722
195.94	2,456	2,390	196.46	2,779	3,750
195.95	2,461	2,415	196.47	2,786	3,778
195.96	2,467	2,439	196.48	2,792	3,806
195.97	2,473	2,464	196.49	2,798	3,834
195.98	2,479	2,489	196.50	2,805	3,862
195.99	2,484	2,513	196.51	2,811	3,890
196.00	2,490	2,538	196.52	2,817	3,918
196.01	2,496	2,563	196.53	2,823	3,946
196.02	2,503	2,588	196.54	2,830	3,975
196.03	2,509	2,613	196.55	2,836	4,003
196.04	2,515	2,638	196.56	2,842	4,031
196.05	2,521	2,664	196.57	2,849	4,060
196.06	2,528	2,689	196.58	2,855	4,088
196.07	2,534	2,714	196.59	2,861	4,117
196.08	2,540	2,740	196.60	2,867	4,146
196.09	2,547	2,765	196.61	2,874	4,174
196.10	2,553	2,790	196.62	2,880	4,203
196.11	2,559	2,816	196.63	2,886	4,232
196.12	2,565	2,842	196.64	2,893	4,261
196.13	2,572	2,867	196.65	2,899	4,290
196.14	2,578	2,893	196.66	2,905	4,319
196.15	2,584	2,919	196.67	2,911	4,348
196.16	2,591	2,945	196.68	2,918	4,377
196.17	2,597	2,971	196.69	2,924	4,406
196.18	2,603	2,997	196.70	2,930	4,435
196.19	2,610	3,023	196.71	2,937	4,465
196.20	2,616	3,049	196.72	2,943	4,494

Stage-Area-Storage for Pond B-19: Basin #19 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
196.73	2,949	4,524	197.25	3,291	6,144
196.74	2,955	4,553	197.26	3,298	6,177
196.75	2,962	4,583	197.27	3,304	6,210
196.76	2,968	4,612	197.28	3,311	6,243
196.77	2,974	4,642	197.29	3,318	6,276
196.78	2,981	4,672	197.30	3,325	6,309
196.79	2,987	4,702	197.31	3,332	6,343
196.80	2,993	4,732	197.32	3,339	6,376
196.81	2,999	4,762	197.33	3,346	6,409
196.82	3,006	4,792	197.34	3,353	6,443
196.83	3,012	4,822	197.35	3,359	6,477
196.84	3,018	4,852	197.36	3,366	6,510
196.85	3,025	4,882	197.37	3,373	6,544
196.86	3,031	4,912	197.38	3,380	6,578
196.87	3,037	4,943	197.39	3,387	6,611
196.88	3,044	4,973	197.40	3,394	6,645
196.89	3,050	5,004	197.41	3,401	6,679
196.90	3,056	5,034	197.42	3,408	6,713
196.91	3,062	5,065	197.43	3,414	6,747
196.92	3,069	5,095	197.44	3,421	6,782
196.93	3,075	5,126	197.45	3,428	6,816
196.94	3,081	5,157	197.46	3,435	6,850
196.95	3,088	5,188	197.47	3,442	6,885
196.96	3,094	5,219	197.48	3,449	6,919
196.97	3,100	5,250	197.49	3,456	6,954
196.98	3,106	5,281	197.50	3,463	6,988
196.99	3,113	5,312	197.51	3,469	7,023
197.00	3,119	5,343	197.52	3,476	7,058
197.01	3,126	5,374	197.53	3,483	7,092
197.02	3,133	5,405	197.54	3,490	7,127
197.03	3,140	5,437	197.55	3,497	7,162
197.04	3,146	5,468	197.56	3,504	7,197
197.05	3,153	5,500	197.57	3,511	7,232
197.06	3,160	5,531	197.58	3,517	7,267
197.07	3,167	5,563	197.59	3,524	7,303
197.08	3,174	5,595	197.60	3,531	7,338
197.09	3,181	5,626	197.61	3,538	7,373
197.10	3,188	5,658	197.62	3,545	7,409
197.11	3,195	5,690	197.63	3,552	7,444
197.12	3,201	5,722	197.64	3,559	7,480
197.13	3,208	5,754	197.65	3,566	7,515
197.14	3,215	5,786	197.66	3,572	7,551
197.15	3,222	5,818	197.67	3,579	7,587
197.16	3,229	5,851	197.68	3,586	7,623
197.17	3,236	5,883	197.69	3,593	7,658
197.18	3,243	5,915	197.70	3,600	7,694
197.19	3,250	5,948	197.71	3,607	7,730
197.20	3,256	5,980	197.72	3,614	7,767
197.21	3,263	6,013	197.73	3,621	7,803
197.22	3,270	6,046	197.74	3,627	7,839
197.23	3,277	6,078	197.75	3,634	7,875
197.24	3,284	6,111	197.76	3,641	7,912

Stage-Area-Storage for Pond B-19: Basin #19 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
197.77	3,648	7,948	198.29	4,021	9,940
197.78	3,655	7,985	198.30	4,029	9,980
197.79	3,662	8,021	198.31	4,036	10,021
197.80	3,669	8,058	198.32	4,043	10,061
197.81	3,675	8,095	198.33	4,051	10,102
197.82	3,682	8,131	198.34	4,058	10,142
197.83	3,689	8,168	198.35	4,066	10,183
197.84	3,696	8,205	198.36	4,073	10,224
197.85	3,703	8,242	198.37	4,081	10,264
197.86	3,710	8,279	198.38	4,088	10,305
197.87	3,717	8,316	198.39	4,095	10,346
197.88	3,724	8,354	198.40	4,103	10,387
197.89	3,730	8,391	198.41	4,110	10,428
197.90	3,737	8,428	198.42	4,118	10,469
197.91	3,744	8,466	198.43	4,125	10,510
197.92	3,751	8,503	198.44	4,132	10,552
197.93	3,758	8,541	198.45	4,140	10,593
197.94	3,765	8,578	198.46	4,147	10,635
197.95	3,772	8,616	198.47	4,155	10,676
197.96	3,779	8,654	198.48	4,162	10,718
197.97	3,785	8,691	198.49	4,170	10,759
197.98	3,792	8,729	198.50	4,177	10,801
197.99	3,799	8,767	198.51	4,184	10,843
198.00	3,806	8,805	198.52	4,192	10,885
198.01	3,813	8,843	198.53	4,199	10,927
198.02	3,821	8,882	198.54	4,207	10,969
198.03	3,828	8,920	198.55	4,214	11,011
198.04	3,836	8,958	198.56	4,222	11,053
198.05	3,843	8,997	198.57	4,229	11,095
198.06	3,851	9,035	198.58	4,236	11,138
198.07	3,858	9,074	198.59	4,244	11,180
198.08	3,865	9,112	198.60	4,251	11,222
198.09	3,873	9,151	198.61	4,259	11,265
198.10	3,880	9,190	198.62	4,266	11,308
198.11	3,888	9,228	198.63	4,273	11,350
198.12	3,895	9,267	198.64	4,281	11,393
198.13	3,902	9,306	198.65	4,288	11,436
198.14	3,910	9,345	198.66	4,296	11,479
198.15	3,917	9,385	198.67	4,303	11,522
198.16	3,925	9,424	198.68	4,311	11,565
198.17	3,932	9,463	198.69	4,318	11,608
198.18	3,940	9,502	198.70	4,325	11,651
198.19	3,947	9,542	198.71	4,333	11,695
198.20	3,954	9,581	198.72	4,340	11,738
198.21	3,962	9,621	198.73	4,348	11,781
198.22	3,969	9,661	198.74	4,355	11,825
198.23	3,977	9,700	198.75	4,363	11,868
198.24	3,984	9,740	198.76	4,370	11,912
198.25	3,992	9,780	198.77	4,377	11,956
198.26	3,999	9,820	198.78	4,385	12,000
198.27	4,006	9,860	198.79	4,392	12,044
198.28	4,014	9,900	198.80	4,400	12,088

Stage-Area-Storage for Pond B-19: Basin #19 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
198.81	4,407	12,132
198.82	4,414	12,176
198.83	4,422	12,220
198.84	4,429	12,264
198.85	4,437	12,308
198.86	4,444	12,353
198.87	4,452	12,397
198.88	4,459	12,442
198.89	4,466	12,487
198.90	4,474	12,531
198.91	4,481	12,576
198.92	4,489	12,621
198.93	4,496	12,666
198.94	4,503	12,711
198.95	4,511	12,756
198.96	4,518	12,801
198.97	4,526	12,846
198.98	4,533	12,891
198.99	4,541	12,937
199.00	4,548	12,982

Summary for Pond B-20: Basin #20

Inflow Area = 2.453 ac, 46.07% Impervious, Inflow Depth = 3.56" for Current 10 yr event
 Inflow = 8.82 cfs @ 12.17 hrs, Volume= 0.727 af
 Outflow = 3.80 cfs @ 12.37 hrs, Volume= 0.595 af, Atten= 57%, Lag= 12.2 min
 Primary = 3.80 cfs @ 12.37 hrs, Volume= 0.595 af
 Routed to Link PDA-2 : Proposed Drainage Area #2

Routing by Stor-Ind method, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 Peak Elev= 153.18' @ 12.37 hrs Surf.Area= 7,664 sf Storage= 15,177 cf

Plug-Flow detention time= 404.6 min calculated for 0.594 af (82% of inflow)
 Center-of-Mass det. time= 327.5 min (1,113.6 - 786.0)

Volume	Invert	Avail.Storage	Storage Description
#1	150.87'	35,230 cf	Custom Stage Data (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
150.87	0	0	0
151.00	5,926	385	385
152.00	6,706	6,316	6,701
153.00	7,514	7,110	13,811
154.00	8,347	7,931	21,742
155.00	9,205	8,776	30,518
155.50	9,643	4,712	35,230

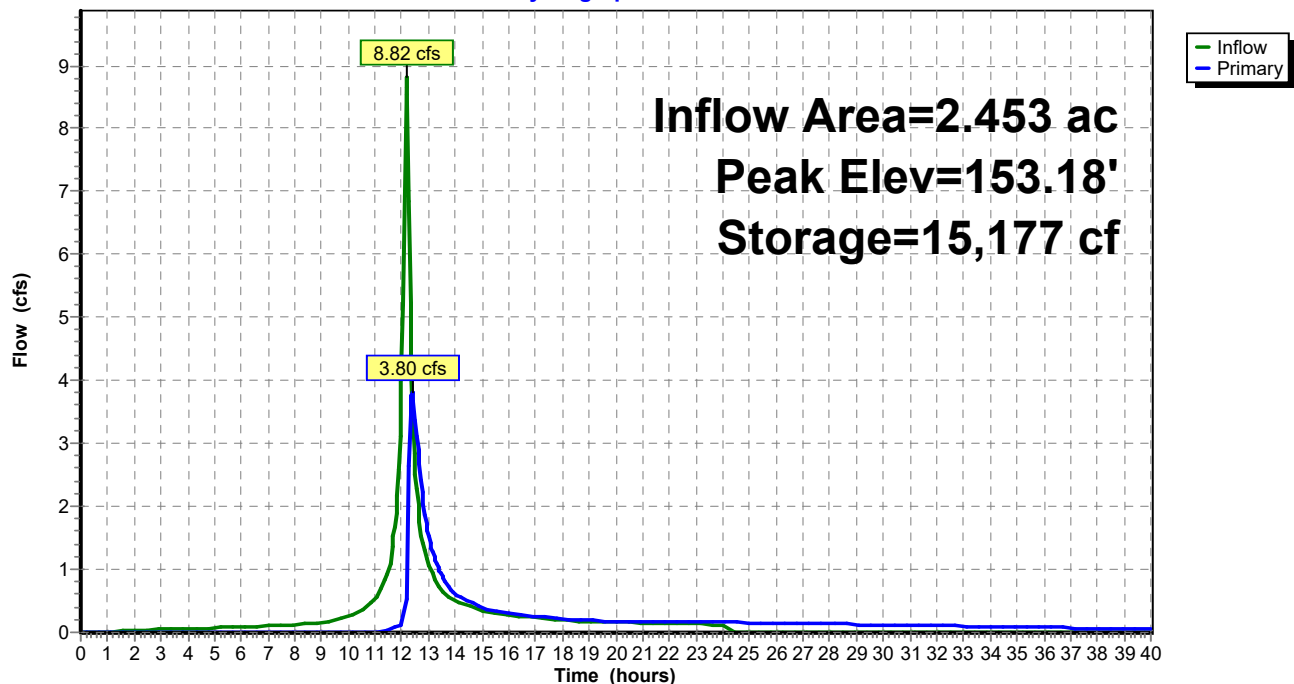
Device	Routing	Invert	Outlet Devices
#1	Primary	151.00'	18.0" Round Culvert L= 29.0' Ke= 0.500 Inlet / Outlet Invert= 151.00' / 150.71' S= 0.0100 '/' Cc= 0.900 n= 0.013, Flow Area= 1.77 sf
#2	Device 1	151.68'	2.5" Vert. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#3	Device 1	152.75'	4.0' long Sharp-Crested Rectangular Weir 2 End Contraction(s)
#4	Primary	154.32'	50.0' long + 3.0 '/' SideZ x 5.0' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 Coef. (English) 2.34 2.50 2.70 2.68 2.68 2.66 2.65 2.65 2.65 2.65 2.67 2.66 2.68 2.70 2.74 2.79 2.88

Primary OutFlow Max=3.76 cfs @ 12.37 hrs HW=153.18' (Free Discharge)

1=Culvert (Passes 3.76 cfs of 9.79 cfs potential flow)
 2=Orifice/Grate (Orifice Controls 0.19 cfs @ 5.68 fps)
 3=Sharp-Crested Rectangular Weir (Weir Controls 3.57 cfs @ 2.14 fps)
 4=Broad-Crested Rectangular Weir (Controls 0.00 cfs)

Pond B-20: Basin #20

Hydrograph



Stage-Discharge for Pond B-20: Basin #20

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
150.87	0.00	151.39	0.00	151.91	0.06	152.43	0.13
150.88	0.00	151.40	0.00	151.92	0.06	152.44	0.13
150.89	0.00	151.41	0.00	151.93	0.06	152.45	0.13
150.90	0.00	151.42	0.00	151.94	0.06	152.46	0.13
150.91	0.00	151.43	0.00	151.95	0.07	152.47	0.14
150.92	0.00	151.44	0.00	151.96	0.07	152.48	0.14
150.93	0.00	151.45	0.00	151.97	0.07	152.49	0.14
150.94	0.00	151.46	0.00	151.98	0.07	152.50	0.14
150.95	0.00	151.47	0.00	151.99	0.07	152.51	0.14
150.96	0.00	151.48	0.00	152.00	0.08	152.52	0.14
150.97	0.00	151.49	0.00	152.01	0.08	152.53	0.14
150.98	0.00	151.50	0.00	152.02	0.08	152.54	0.14
150.99	0.00	151.51	0.00	152.03	0.08	152.55	0.14
151.00	0.00	151.52	0.00	152.04	0.08	152.56	0.14
151.01	0.00	151.53	0.00	152.05	0.08	152.57	0.15
151.02	0.00	151.54	0.00	152.06	0.09	152.58	0.15
151.03	0.00	151.55	0.00	152.07	0.09	152.59	0.15
151.04	0.00	151.56	0.00	152.08	0.09	152.60	0.15
151.05	0.00	151.57	0.00	152.09	0.09	152.61	0.15
151.06	0.00	151.58	0.00	152.10	0.09	152.62	0.15
151.07	0.00	151.59	0.00	152.11	0.09	152.63	0.15
151.08	0.00	151.60	0.00	152.12	0.10	152.64	0.15
151.09	0.00	151.61	0.00	152.13	0.10	152.65	0.15
151.10	0.00	151.62	0.00	152.14	0.10	152.66	0.15
151.11	0.00	151.63	0.00	152.15	0.10	152.67	0.15
151.12	0.00	151.64	0.00	152.16	0.10	152.68	0.16
151.13	0.00	151.65	0.00	152.17	0.10	152.69	0.16
151.14	0.00	151.66	0.00	152.18	0.10	152.70	0.16
151.15	0.00	151.67	0.00	152.19	0.10	152.71	0.16
151.16	0.00	151.68	0.00	152.20	0.11	152.72	0.16
151.17	0.00	151.69	0.00	152.21	0.11	152.73	0.16
151.18	0.00	151.70	0.00	152.22	0.11	152.74	0.16
151.19	0.00	151.71	0.00	152.23	0.11	152.75	0.16
151.20	0.00	151.72	0.00	152.24	0.11	152.76	0.18
151.21	0.00	151.73	0.00	152.25	0.11	152.77	0.20
151.22	0.00	151.74	0.01	152.26	0.11	152.78	0.23
151.23	0.00	151.75	0.01	152.27	0.11	152.79	0.27
151.24	0.00	151.76	0.01	152.28	0.12	152.80	0.31
151.25	0.00	151.77	0.01	152.29	0.12	152.81	0.36
151.26	0.00	151.78	0.02	152.30	0.12	152.82	0.41
151.27	0.00	151.79	0.02	152.31	0.12	152.83	0.46
151.28	0.00	151.80	0.02	152.32	0.12	152.84	0.52
151.29	0.00	151.81	0.03	152.33	0.12	152.85	0.58
151.30	0.00	151.82	0.03	152.34	0.12	152.86	0.64
151.31	0.00	151.83	0.03	152.35	0.12	152.87	0.71
151.32	0.00	151.84	0.04	152.36	0.12	152.88	0.78
151.33	0.00	151.85	0.04	152.37	0.13	152.89	0.85
151.34	0.00	151.86	0.05	152.38	0.13	152.90	0.93
151.35	0.00	151.87	0.05	152.39	0.13	152.91	1.00
151.36	0.00	151.88	0.05	152.40	0.13	152.92	1.08
151.37	0.00	151.89	0.05	152.41	0.13	152.93	1.17
151.38	0.00	151.90	0.06	152.42	0.13	152.94	1.25

Stage-Discharge for Pond B-20: Basin #20 (continued)

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
152.95	1.34	153.47	7.92	153.99	12.73	154.51	23.91
152.96	1.42	153.48	8.07	154.00	12.76	154.52	24.73
152.97	1.51	153.49	8.23	154.01	12.79	154.53	25.60
152.98	1.61	153.50	8.39	154.02	12.82	154.54	26.50
152.99	1.70	153.51	8.55	154.03	12.85	154.55	27.42
153.00	1.80	153.52	8.71	154.04	12.88	154.56	28.37
153.01	1.89	153.53	8.88	154.05	12.90	154.57	29.34
153.02	1.99	153.54	9.04	154.06	12.93	154.58	30.34
153.03	2.09	153.55	9.20	154.07	12.96	154.59	31.36
153.04	2.20	153.56	9.37	154.08	12.99	154.60	32.41
153.05	2.30	153.57	9.53	154.09	13.02	154.61	33.49
153.06	2.41	153.58	9.70	154.10	13.04	154.62	34.58
153.07	2.52	153.59	9.87	154.11	13.07	154.63	35.71
153.08	2.63	153.60	10.04	154.12	13.10	154.64	36.85
153.09	2.74	153.61	10.20	154.13	13.13	154.65	38.02
153.10	2.85	153.62	10.37	154.14	13.15	154.66	39.22
153.11	2.96	153.63	10.55	154.15	13.18	154.67	40.44
153.12	3.08	153.64	10.72	154.16	13.21	154.68	41.68
153.13	3.20	153.65	10.89	154.17	13.24	154.69	42.95
153.14	3.31	153.66	11.06	154.18	13.26	154.70	44.24
153.15	3.43	153.67	11.24	154.19	13.29	154.71	45.55
153.16	3.56	153.68	11.41	154.20	13.32	154.72	46.89
153.17	3.68	153.69	11.59	154.21	13.35	154.73	48.28
153.18	3.80	153.70	11.76	154.22	13.37	154.74	49.70
153.19	3.93	153.71	11.91	154.23	13.40	154.75	51.14
153.20	4.05	153.72	11.94	154.24	13.43	154.76	52.61
153.21	4.18	153.73	11.97	154.25	13.45	154.77	54.11
153.22	4.31	153.74	12.00	154.26	13.48	154.78	55.63
153.23	4.44	153.75	12.03	154.27	13.51	154.79	57.17
153.24	4.57	153.76	12.06	154.28	13.53	154.80	58.75
153.25	4.71	153.77	12.09	154.29	13.56	154.81	60.35
153.26	4.84	153.78	12.12	154.30	13.59	154.82	61.97
153.27	4.98	153.79	12.15	154.31	13.61	154.83	63.63
153.28	5.11	153.80	12.18	154.32	13.64	154.84	65.31
153.29	5.25	153.81	12.21	154.33	13.78	154.85	67.01
153.30	5.39	153.82	12.24	154.34	14.02	154.86	68.74
153.31	5.53	153.83	12.27	154.35	14.33	154.87	70.50
153.32	5.67	153.84	12.30	154.36	14.68	154.88	72.29
153.33	5.81	153.85	12.33	154.37	15.08	154.89	74.10
153.34	5.96	153.86	12.36	154.38	15.52	154.90	75.94
153.35	6.10	153.87	12.39	154.39	16.00	154.91	77.81
153.36	6.25	153.88	12.42	154.40	16.51	154.92	79.70
153.37	6.39	153.89	12.45	154.41	17.05	154.93	81.35
153.38	6.54	153.90	12.48	154.42	17.62	154.94	83.01
153.39	6.69	153.91	12.51	154.43	18.22	154.95	84.69
153.40	6.84	153.92	12.53	154.44	18.85	154.96	86.38
153.41	6.99	153.93	12.56	154.45	19.50	154.97	88.09
153.42	7.14	153.94	12.59	154.46	20.18	154.98	89.80
153.43	7.30	153.95	12.62	154.47	20.88	154.99	91.54
153.44	7.45	153.96	12.65	154.48	21.60	155.00	93.28
153.45	7.60	153.97	12.68	154.49	22.35	155.01	95.04
153.46	7.76	153.98	12.71	154.50	23.12	155.02	96.80

Stage-Discharge for Pond B-20: Basin #20 (continued)

Elevation (feet)	Primary (cfs)
155.03	98.59
155.04	100.38
155.05	102.19
155.06	104.01
155.07	105.84
155.08	107.69
155.09	109.54
155.10	111.41
155.11	113.29
155.12	115.18
155.13	117.13
155.14	119.08
155.15	121.05
155.16	123.03
155.17	125.03
155.18	127.04
155.19	129.06
155.20	131.10
155.21	133.14
155.22	135.20
155.23	137.28
155.24	139.36
155.25	141.46
155.26	143.57
155.27	145.70
155.28	147.84
155.29	149.99
155.30	152.15
155.31	154.32
155.32	156.51
155.33	158.66
155.34	160.81
155.35	162.98
155.36	165.16
155.37	167.35
155.38	169.55
155.39	171.76
155.40	173.98
155.41	176.21
155.42	178.45
155.43	180.70
155.44	182.96
155.45	185.24
155.46	187.52
155.47	189.81
155.48	192.11
155.49	194.43
155.50	196.75

Stage-Area-Storage for Pond B-20: Basin #20

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
150.87	0	0	151.39	6,230	2,756
150.88	456	2	151.40	6,238	2,818
150.89	912	9	151.41	6,246	2,880
150.90	1,368	21	151.42	6,254	2,943
150.91	1,823	36	151.43	6,261	3,005
150.92	2,279	57	151.44	6,269	3,068
150.93	2,735	82	151.45	6,277	3,131
150.94	3,191	112	151.46	6,285	3,194
150.95	3,647	146	151.47	6,293	3,257
150.96	4,103	185	151.48	6,300	3,320
150.97	4,558	228	151.49	6,308	3,383
150.98	5,014	276	151.50	6,316	3,446
150.99	5,470	328	151.51	6,324	3,509
151.00	5,926	385	151.52	6,332	3,572
151.01	5,934	444	151.53	6,339	3,636
151.02	5,942	504	151.54	6,347	3,699
151.03	5,949	563	151.55	6,355	3,762
151.04	5,957	623	151.56	6,363	3,826
151.05	5,965	682	151.57	6,371	3,890
151.06	5,973	742	151.58	6,378	3,953
151.07	5,981	802	151.59	6,386	4,017
151.08	5,988	862	151.60	6,394	4,081
151.09	5,996	922	151.61	6,402	4,145
151.10	6,004	982	151.62	6,410	4,209
151.11	6,012	1,042	151.63	6,417	4,273
151.12	6,020	1,102	151.64	6,425	4,338
151.13	6,027	1,162	151.65	6,433	4,402
151.14	6,035	1,222	151.66	6,441	4,466
151.15	6,043	1,283	151.67	6,449	4,531
151.16	6,051	1,343	151.68	6,456	4,595
151.17	6,059	1,404	151.69	6,464	4,660
151.18	6,066	1,465	151.70	6,472	4,724
151.19	6,074	1,525	151.71	6,480	4,789
151.20	6,082	1,586	151.72	6,488	4,854
151.21	6,090	1,647	151.73	6,495	4,919
151.22	6,098	1,708	151.74	6,503	4,984
151.23	6,105	1,769	151.75	6,511	5,049
151.24	6,113	1,830	151.76	6,519	5,114
151.25	6,121	1,891	151.77	6,527	5,179
151.26	6,129	1,952	151.78	6,534	5,245
151.27	6,137	2,014	151.79	6,542	5,310
151.28	6,144	2,075	151.80	6,550	5,376
151.29	6,152	2,137	151.81	6,558	5,441
151.30	6,160	2,198	151.82	6,566	5,507
151.31	6,168	2,260	151.83	6,573	5,572
151.32	6,176	2,321	151.84	6,581	5,638
151.33	6,183	2,383	151.85	6,589	5,704
151.34	6,191	2,445	151.86	6,597	5,770
151.35	6,199	2,507	151.87	6,605	5,836
151.36	6,207	2,569	151.88	6,612	5,902
151.37	6,215	2,631	151.89	6,620	5,968
151.38	6,222	2,693	151.90	6,628	6,034

Stage-Area-Storage for Pond B-20: Basin #20 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
151.91	6,636	6,101	152.43	7,053	9,659
151.92	6,644	6,167	152.44	7,062	9,730
151.93	6,651	6,234	152.45	7,070	9,801
151.94	6,659	6,300	152.46	7,078	9,871
151.95	6,667	6,367	152.47	7,086	9,942
151.96	6,675	6,434	152.48	7,094	10,013
151.97	6,683	6,500	152.49	7,102	10,084
151.98	6,690	6,567	152.50	7,110	10,155
151.99	6,698	6,634	152.51	7,118	10,226
152.00	6,706	6,701	152.52	7,126	10,298
152.01	6,714	6,768	152.53	7,134	10,369
152.02	6,722	6,835	152.54	7,142	10,440
152.03	6,730	6,903	152.55	7,150	10,512
152.04	6,738	6,970	152.56	7,158	10,583
152.05	6,746	7,038	152.57	7,167	10,655
152.06	6,754	7,105	152.58	7,175	10,727
152.07	6,763	7,173	152.59	7,183	10,798
152.08	6,771	7,240	152.60	7,191	10,870
152.09	6,779	7,308	152.61	7,199	10,942
152.10	6,787	7,376	152.62	7,207	11,014
152.11	6,795	7,444	152.63	7,215	11,086
152.12	6,803	7,512	152.64	7,223	11,159
152.13	6,811	7,580	152.65	7,231	11,231
152.14	6,819	7,648	152.66	7,239	11,303
152.15	6,827	7,716	152.67	7,247	11,376
152.16	6,835	7,784	152.68	7,255	11,448
152.17	6,843	7,853	152.69	7,264	11,521
152.18	6,851	7,921	152.70	7,272	11,593
152.19	6,860	7,990	152.71	7,280	11,666
152.20	6,868	8,059	152.72	7,288	11,739
152.21	6,876	8,127	152.73	7,296	11,812
152.22	6,884	8,196	152.74	7,304	11,885
152.23	6,892	8,265	152.75	7,312	11,958
152.24	6,900	8,334	152.76	7,320	12,031
152.25	6,908	8,403	152.77	7,328	12,104
152.26	6,916	8,472	152.78	7,336	12,178
152.27	6,924	8,541	152.79	7,344	12,251
152.28	6,932	8,611	152.80	7,352	12,325
152.29	6,940	8,680	152.81	7,360	12,398
152.30	6,948	8,749	152.82	7,369	12,472
152.31	6,956	8,819	152.83	7,377	12,545
152.32	6,965	8,888	152.84	7,385	12,619
152.33	6,973	8,958	152.85	7,393	12,693
152.34	6,981	9,028	152.86	7,401	12,767
152.35	6,989	9,098	152.87	7,409	12,841
152.36	6,997	9,168	152.88	7,417	12,915
152.37	7,005	9,238	152.89	7,425	12,990
152.38	7,013	9,308	152.90	7,433	13,064
152.39	7,021	9,378	152.91	7,441	13,138
152.40	7,029	9,448	152.92	7,449	13,213
152.41	7,037	9,519	152.93	7,457	13,287
152.42	7,045	9,589	152.94	7,466	13,362

Stage-Area-Storage for Pond B-20: Basin #20 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
152.95	7,474	13,437	153.47	7,906	17,435
152.96	7,482	13,511	153.48	7,914	17,514
152.97	7,490	13,586	153.49	7,922	17,593
152.98	7,498	13,661	153.50	7,931	17,672
152.99	7,506	13,736	153.51	7,939	17,752
153.00	7,514	13,811	153.52	7,947	17,831
153.01	7,522	13,886	153.53	7,955	17,911
153.02	7,531	13,962	153.54	7,964	17,990
153.03	7,539	14,037	153.55	7,972	18,070
153.04	7,547	14,112	153.56	7,980	18,150
153.05	7,556	14,188	153.57	7,989	18,229
153.06	7,564	14,264	153.58	7,997	18,309
153.07	7,572	14,339	153.59	8,005	18,389
153.08	7,581	14,415	153.60	8,014	18,470
153.09	7,589	14,491	153.61	8,022	18,550
153.10	7,597	14,567	153.62	8,030	18,630
153.11	7,606	14,643	153.63	8,039	18,710
153.12	7,614	14,719	153.64	8,047	18,791
153.13	7,622	14,795	153.65	8,055	18,871
153.14	7,631	14,871	153.66	8,064	18,952
153.15	7,639	14,948	153.67	8,072	19,033
153.16	7,647	15,024	153.68	8,080	19,113
153.17	7,656	15,101	153.69	8,089	19,194
153.18	7,664	15,177	153.70	8,097	19,275
153.19	7,672	15,254	153.71	8,105	19,356
153.20	7,681	15,331	153.72	8,114	19,437
153.21	7,689	15,407	153.73	8,122	19,518
153.22	7,697	15,484	153.74	8,130	19,600
153.23	7,706	15,561	153.75	8,139	19,681
153.24	7,714	15,639	153.76	8,147	19,762
153.25	7,722	15,716	153.77	8,155	19,844
153.26	7,731	15,793	153.78	8,164	19,926
153.27	7,739	15,870	153.79	8,172	20,007
153.28	7,747	15,948	153.80	8,180	20,089
153.29	7,756	16,025	153.81	8,189	20,171
153.30	7,764	16,103	153.82	8,197	20,253
153.31	7,772	16,181	153.83	8,205	20,335
153.32	7,781	16,258	153.84	8,214	20,417
153.33	7,789	16,336	153.85	8,222	20,499
153.34	7,797	16,414	153.86	8,230	20,581
153.35	7,806	16,492	153.87	8,239	20,664
153.36	7,814	16,570	153.88	8,247	20,746
153.37	7,822	16,648	153.89	8,255	20,829
153.38	7,831	16,727	153.90	8,264	20,911
153.39	7,839	16,805	153.91	8,272	20,994
153.40	7,847	16,883	153.92	8,280	21,077
153.41	7,856	16,962	153.93	8,289	21,159
153.42	7,864	17,041	153.94	8,297	21,242
153.43	7,872	17,119	153.95	8,305	21,325
153.44	7,881	17,198	153.96	8,314	21,408
153.45	7,889	17,277	153.97	8,322	21,492
153.46	7,897	17,356	153.98	8,330	21,575

Stage-Area-Storage for Pond B-20: Basin #20 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
153.99	8,339	21,658	154.51	8,785	26,110
154.00	8,347	21,742	154.52	8,793	26,198
154.01	8,356	21,825	154.53	8,802	26,286
154.02	8,364	21,909	154.54	8,810	26,374
154.03	8,373	21,992	154.55	8,819	26,462
154.04	8,381	22,076	154.56	8,827	26,551
154.05	8,390	22,160	154.57	8,836	26,639
154.06	8,398	22,244	154.58	8,845	26,727
154.07	8,407	22,328	154.59	8,853	26,816
154.08	8,416	22,412	154.60	8,862	26,904
154.09	8,424	22,496	154.61	8,870	26,993
154.10	8,433	22,581	154.62	8,879	27,082
154.11	8,441	22,665	154.63	8,888	27,171
154.12	8,450	22,750	154.64	8,896	27,259
154.13	8,459	22,834	154.65	8,905	27,348
154.14	8,467	22,919	154.66	8,913	27,438
154.15	8,476	23,003	154.67	8,922	27,527
154.16	8,484	23,088	154.68	8,930	27,616
154.17	8,493	23,173	154.69	8,939	27,705
154.18	8,501	23,258	154.70	8,948	27,795
154.19	8,510	23,343	154.71	8,956	27,884
154.20	8,519	23,428	154.72	8,965	27,974
154.21	8,527	23,513	154.73	8,973	28,064
154.22	8,536	23,599	154.74	8,982	28,153
154.23	8,544	23,684	154.75	8,991	28,243
154.24	8,553	23,770	154.76	8,999	28,333
154.25	8,562	23,855	154.77	9,008	28,423
154.26	8,570	23,941	154.78	9,016	28,513
154.27	8,579	24,027	154.79	9,025	28,604
154.28	8,587	24,112	154.80	9,033	28,694
154.29	8,596	24,198	154.81	9,042	28,784
154.30	8,604	24,284	154.82	9,051	28,875
154.31	8,613	24,370	154.83	9,059	28,965
154.32	8,622	24,457	154.84	9,068	29,056
154.33	8,630	24,543	154.85	9,076	29,147
154.34	8,639	24,629	154.86	9,085	29,237
154.35	8,647	24,716	154.87	9,093	29,328
154.36	8,656	24,802	154.88	9,102	29,419
154.37	8,664	24,889	154.89	9,111	29,510
154.38	8,673	24,975	154.90	9,119	29,601
154.39	8,682	25,062	154.91	9,128	29,693
154.40	8,690	25,149	154.92	9,136	29,784
154.41	8,699	25,236	154.93	9,145	29,875
154.42	8,707	25,323	154.94	9,154	29,967
154.43	8,716	25,410	154.95	9,162	30,059
154.44	8,725	25,497	154.96	9,171	30,150
154.45	8,733	25,585	154.97	9,179	30,242
154.46	8,742	25,672	154.98	9,188	30,334
154.47	8,750	25,760	154.99	9,196	30,426
154.48	8,759	25,847	155.00	9,205	30,518
154.49	8,767	25,935	155.01	9,214	30,610
154.50	8,776	26,022	155.02	9,223	30,702

Stage-Area-Storage for Pond B-20: Basin #20 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
155.03	9,231	30,794
155.04	9,240	30,887
155.05	9,249	30,979
155.06	9,258	31,072
155.07	9,266	31,164
155.08	9,275	31,257
155.09	9,284	31,350
155.10	9,293	31,443
155.11	9,301	31,536
155.12	9,310	31,629
155.13	9,319	31,722
155.14	9,328	31,815
155.15	9,336	31,908
155.16	9,345	32,002
155.17	9,354	32,095
155.18	9,363	32,189
155.19	9,371	32,282
155.20	9,380	32,376
155.21	9,389	32,470
155.22	9,398	32,564
155.23	9,406	32,658
155.24	9,415	32,752
155.25	9,424	32,846
155.26	9,433	32,941
155.27	9,442	33,035
155.28	9,450	33,129
155.29	9,459	33,224
155.30	9,468	33,319
155.31	9,477	33,413
155.32	9,485	33,508
155.33	9,494	33,603
155.34	9,503	33,698
155.35	9,512	33,793
155.36	9,520	33,888
155.37	9,529	33,984
155.38	9,538	34,079
155.39	9,547	34,174
155.40	9,555	34,270
155.41	9,564	34,365
155.42	9,573	34,461
155.43	9,582	34,557
155.44	9,590	34,653
155.45	9,599	34,749
155.46	9,608	34,845
155.47	9,617	34,941
155.48	9,625	35,037
155.49	9,634	35,133
155.50	9,643	35,230

Summary for Pond B-21: Basin #21

Inflow Area = 2.500 ac, 35.44% Impervious, Inflow Depth = 3.30" for Current 10 yr event
 Inflow = 8.47 cfs @ 12.17 hrs, Volume= 0.688 af
 Outflow = 2.01 cfs @ 12.60 hrs, Volume= 0.565 af, Atten= 76%, Lag= 25.4 min
 Primary = 2.01 cfs @ 12.60 hrs, Volume= 0.565 af
 Routed to Link PDA-2 : Proposed Drainage Area #2

Routing by Stor-Ind method, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 Peak Elev= 152.60' @ 12.60 hrs Surf.Area= 7,383 sf Storage= 16,052 cf

Plug-Flow detention time= 512.4 min calculated for 0.565 af (82% of inflow)
 Center-of-Mass det. time= 434.7 min (1,230.5 - 795.9)

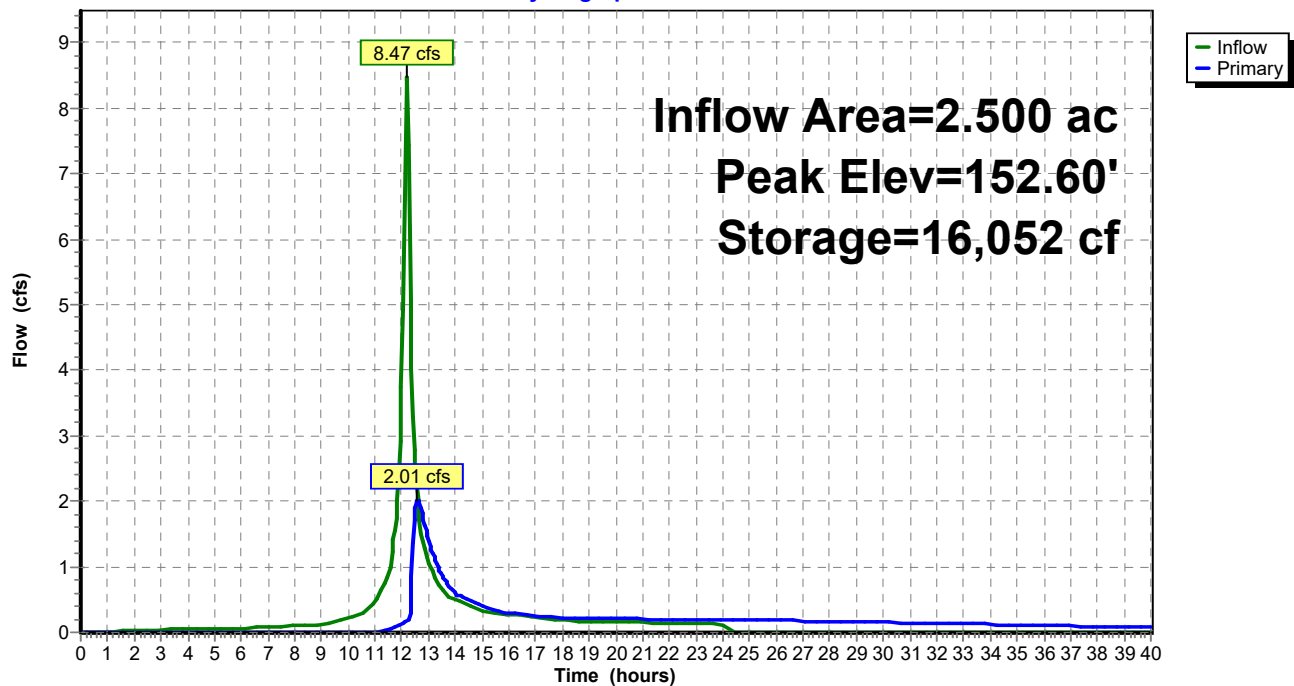
Volume	Invert	Avail.Storage	Storage Description
#1	149.90'	42,109 cf	Custom Stage Data (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
149.90	0	0	0
150.00	4,848	242	242
151.00	5,776	5,312	5,554
152.00	6,761	6,269	11,823
153.00	7,802	7,282	19,104
154.00	8,900	8,351	27,455
155.00	10,054	9,477	36,932
155.50	10,653	5,177	42,109

Device	Routing	Invert	Outlet Devices
#1	Primary	149.30'	18.0" Round Culvert L= 24.0' Ke= 0.500 Inlet / Outlet Invert= 149.30' / 148.32' S= 0.0408 '/' Cc= 0.900 n= 0.013, Flow Area= 1.77 sf
#2	Device 1	150.68'	2.5" Vert. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#3	Device 1	152.33'	4.0' long Sharp-Crested Rectangular Weir 2 End Contraction(s)
#4	Primary	154.16'	50.0' long + 3.0 ' SideZ x 5.0' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 Coef. (English) 2.34 2.50 2.70 2.68 2.68 2.66 2.65 2.65 2.65 2.65 2.67 2.66 2.68 2.70 2.74 2.79 2.88

Primary OutFlow Max=2.01 cfs @ 12.60 hrs HW=152.60' (Free Discharge)

1=Culvert (Passes 2.01 cfs of 13.58 cfs potential flow)
 2=Orifice/Grate (Orifice Controls 0.22 cfs @ 6.48 fps)
 3=Sharp-Crested Rectangular Weir (Weir Controls 1.79 cfs @ 1.69 fps)
 4=Broad-Crested Rectangular Weir (Controls 0.00 cfs)

Pond B-21: Basin #21**Hydrograph**

Stage-Discharge for Pond B-21: Basin #21

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
149.90	0.00	150.42	0.00	150.94	0.06	151.46	0.13
149.91	0.00	150.43	0.00	150.95	0.07	151.47	0.14
149.92	0.00	150.44	0.00	150.96	0.07	151.48	0.14
149.93	0.00	150.45	0.00	150.97	0.07	151.49	0.14
149.94	0.00	150.46	0.00	150.98	0.07	151.50	0.14
149.95	0.00	150.47	0.00	150.99	0.07	151.51	0.14
149.96	0.00	150.48	0.00	151.00	0.08	151.52	0.14
149.97	0.00	150.49	0.00	151.01	0.08	151.53	0.14
149.98	0.00	150.50	0.00	151.02	0.08	151.54	0.14
149.99	0.00	150.51	0.00	151.03	0.08	151.55	0.14
150.00	0.00	150.52	0.00	151.04	0.08	151.56	0.14
150.01	0.00	150.53	0.00	151.05	0.08	151.57	0.15
150.02	0.00	150.54	0.00	151.06	0.09	151.58	0.15
150.03	0.00	150.55	0.00	151.07	0.09	151.59	0.15
150.04	0.00	150.56	0.00	151.08	0.09	151.60	0.15
150.05	0.00	150.57	0.00	151.09	0.09	151.61	0.15
150.06	0.00	150.58	0.00	151.10	0.09	151.62	0.15
150.07	0.00	150.59	0.00	151.11	0.09	151.63	0.15
150.08	0.00	150.60	0.00	151.12	0.10	151.64	0.15
150.09	0.00	150.61	0.00	151.13	0.10	151.65	0.15
150.10	0.00	150.62	0.00	151.14	0.10	151.66	0.15
150.11	0.00	150.63	0.00	151.15	0.10	151.67	0.15
150.12	0.00	150.64	0.00	151.16	0.10	151.68	0.16
150.13	0.00	150.65	0.00	151.17	0.10	151.69	0.16
150.14	0.00	150.66	0.00	151.18	0.10	151.70	0.16
150.15	0.00	150.67	0.00	151.19	0.10	151.71	0.16
150.16	0.00	150.68	0.00	151.20	0.11	151.72	0.16
150.17	0.00	150.69	0.00	151.21	0.11	151.73	0.16
150.18	0.00	150.70	0.00	151.22	0.11	151.74	0.16
150.19	0.00	150.71	0.00	151.23	0.11	151.75	0.16
150.20	0.00	150.72	0.00	151.24	0.11	151.76	0.16
150.21	0.00	150.73	0.00	151.25	0.11	151.77	0.16
150.22	0.00	150.74	0.01	151.26	0.11	151.78	0.16
150.23	0.00	150.75	0.01	151.27	0.11	151.79	0.16
150.24	0.00	150.76	0.01	151.28	0.12	151.80	0.17
150.25	0.00	150.77	0.01	151.29	0.12	151.81	0.17
150.26	0.00	150.78	0.02	151.30	0.12	151.82	0.17
150.27	0.00	150.79	0.02	151.31	0.12	151.83	0.17
150.28	0.00	150.80	0.02	151.32	0.12	151.84	0.17
150.29	0.00	150.81	0.03	151.33	0.12	151.85	0.17
150.30	0.00	150.82	0.03	151.34	0.12	151.86	0.17
150.31	0.00	150.83	0.03	151.35	0.12	151.87	0.17
150.32	0.00	150.84	0.04	151.36	0.12	151.88	0.17
150.33	0.00	150.85	0.04	151.37	0.13	151.89	0.17
150.34	0.00	150.86	0.05	151.38	0.13	151.90	0.17
150.35	0.00	150.87	0.05	151.39	0.13	151.91	0.17
150.36	0.00	150.88	0.05	151.40	0.13	151.92	0.17
150.37	0.00	150.89	0.05	151.41	0.13	151.93	0.18
150.38	0.00	150.90	0.06	151.42	0.13	151.94	0.18
150.39	0.00	150.91	0.06	151.43	0.13	151.95	0.18
150.40	0.00	150.92	0.06	151.44	0.13	151.96	0.18
150.41	0.00	150.93	0.06	151.45	0.13	151.97	0.18

Stage-Discharge for Pond B-21: Basin #21 (continued)

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
151.98	0.18	152.50	1.12	153.02	7.48	153.54	15.90
151.99	0.18	152.51	1.21	153.03	7.64	153.55	15.92
152.00	0.18	152.52	1.29	153.04	7.79	153.56	15.94
152.01	0.18	152.53	1.38	153.05	7.95	153.57	15.96
152.02	0.18	152.54	1.46	153.06	8.11	153.58	15.99
152.03	0.18	152.55	1.55	153.07	8.27	153.59	16.01
152.04	0.18	152.56	1.64	153.08	8.43	153.60	16.03
152.05	0.18	152.57	1.74	153.09	8.59	153.61	16.05
152.06	0.19	152.58	1.83	153.10	8.75	153.62	16.08
152.07	0.19	152.59	1.93	153.11	8.91	153.63	16.10
152.08	0.19	152.60	2.03	153.12	9.07	153.64	16.12
152.09	0.19	152.61	2.13	153.13	9.24	153.65	16.14
152.10	0.19	152.62	2.24	153.14	9.40	153.66	16.17
152.11	0.19	152.63	2.34	153.15	9.57	153.67	16.19
152.12	0.19	152.64	2.45	153.16	9.73	153.68	16.21
152.13	0.19	152.65	2.55	153.17	9.90	153.69	16.23
152.14	0.19	152.66	2.66	153.18	10.07	153.70	16.26
152.15	0.19	152.67	2.77	153.19	10.24	153.71	16.28
152.16	0.19	152.68	2.89	153.20	10.41	153.72	16.30
152.17	0.19	152.69	3.00	153.21	10.58	153.73	16.32
152.18	0.19	152.70	3.12	153.22	10.75	153.74	16.34
152.19	0.19	152.71	3.23	153.23	10.92	153.75	16.37
152.20	0.20	152.72	3.35	153.24	11.10	153.76	16.39
152.21	0.20	152.73	3.47	153.25	11.27	153.77	16.41
152.22	0.20	152.74	3.59	153.26	11.44	153.78	16.43
152.23	0.20	152.75	3.72	153.27	11.62	153.79	16.46
152.24	0.20	152.76	3.84	153.28	11.80	153.80	16.48
152.25	0.20	152.77	3.96	153.29	11.97	153.81	16.50
152.26	0.20	152.78	4.09	153.30	12.15	153.82	16.52
152.27	0.20	152.79	4.22	153.31	12.33	153.83	16.54
152.28	0.20	152.80	4.35	153.32	12.51	153.84	16.56
152.29	0.20	152.81	4.48	153.33	12.69	153.85	16.59
152.30	0.20	152.82	4.61	153.34	12.87	153.86	16.61
152.31	0.20	152.83	4.74	153.35	13.05	153.87	16.63
152.32	0.20	152.84	4.88	153.36	13.23	153.88	16.65
152.33	0.20	152.85	5.01	153.37	13.42	153.89	16.67
152.34	0.22	152.86	5.15	153.38	13.60	153.90	16.70
152.35	0.24	152.87	5.29	153.39	13.78	153.91	16.72
152.36	0.27	152.88	5.43	153.40	13.97	153.92	16.74
152.37	0.31	152.89	5.57	153.41	14.15	153.93	16.76
152.38	0.35	152.90	5.71	153.42	14.34	153.94	16.78
152.39	0.40	152.91	5.85	153.43	14.53	153.95	16.80
152.40	0.45	152.92	5.99	153.44	14.72	153.96	16.82
152.41	0.50	152.93	6.14	153.45	14.90	153.97	16.85
152.42	0.56	152.94	6.28	153.46	15.09	153.98	16.87
152.43	0.62	152.95	6.43	153.47	15.28	153.99	16.89
152.44	0.69	152.96	6.58	153.48	15.47	154.00	16.91
152.45	0.75	152.97	6.73	153.49	15.66	154.01	16.93
152.46	0.82	152.98	6.87	153.50	15.80	154.02	16.95
152.47	0.89	152.99	7.03	153.51	15.83	154.03	16.97
152.48	0.97	153.00	7.18	153.52	15.85	154.04	17.00
152.49	1.04	153.01	7.33	153.53	15.87	154.05	17.02

Stage-Discharge for Pond B-21: Basin #21 (continued)

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
154.06	17.04	154.58	53.10	155.10	146.75
154.07	17.06	154.59	54.54	155.11	148.87
154.08	17.08	154.60	56.00	155.12	151.01
154.09	17.10	154.61	57.49	155.13	153.15
154.10	17.12	154.62	59.01	155.14	155.31
154.11	17.14	154.63	60.55	155.15	157.48
154.12	17.17	154.64	62.12	155.16	159.67
154.13	17.19	154.65	63.71	155.17	161.81
154.14	17.21	154.66	65.33	155.18	163.96
154.15	17.23	154.67	66.98	155.19	166.13
154.16	17.25	154.68	68.66	155.20	168.30
154.17	17.39	154.69	70.36	155.21	170.49
154.18	17.62	154.70	72.09	155.22	172.68
154.19	17.92	154.71	73.84	155.23	174.89
154.20	18.27	154.72	75.62	155.24	177.11
154.21	18.67	154.73	77.43	155.25	179.33
154.22	19.10	154.74	79.26	155.26	181.57
154.23	19.57	154.75	81.13	155.27	183.82
154.24	20.07	154.76	83.02	155.28	186.08
154.25	20.61	154.77	84.66	155.29	188.35
154.26	21.18	154.78	86.32	155.30	190.63
154.27	21.77	154.79	88.00	155.31	192.91
154.28	22.39	154.80	89.68	155.32	195.21
154.29	23.04	154.81	91.38	155.33	197.52
154.30	23.71	154.82	93.10	155.34	199.84
154.31	24.41	154.83	94.82	155.35	202.17
154.32	25.13	154.84	96.56	155.36	204.51
154.33	25.87	154.85	98.31	155.37	206.89
154.34	26.64	154.86	100.08	155.38	209.29
154.35	27.42	154.87	101.86	155.39	211.70
154.36	28.23	154.88	103.65	155.40	214.11
154.37	29.10	154.89	105.45	155.41	216.54
154.38	29.99	154.90	107.27	155.42	218.98
154.39	30.91	154.91	109.09	155.43	221.43
154.40	31.85	154.92	110.94	155.44	223.89
154.41	32.82	154.93	112.79	155.45	226.35
154.42	33.81	154.94	114.65	155.46	228.83
154.43	34.83	154.95	116.53	155.47	231.33
154.44	35.88	154.96	118.42	155.48	233.83
154.45	36.94	154.97	120.36	155.49	236.34
154.46	38.04	154.98	122.31	155.50	238.86
154.47	39.15	154.99	124.27		
154.48	40.30	155.00	126.25		
154.49	41.46	155.01	128.24		
154.50	42.65	155.02	130.25		
154.51	43.87	155.03	132.27		
154.52	45.10	155.04	134.30		
154.53	46.37	155.05	136.34		
154.54	47.65	155.06	138.40		
154.55	48.96	155.07	140.47		
154.56	50.30	155.08	142.55		
154.57	51.69	155.09	144.65		

Stage-Area-Storage for Pond B-21: Basin #21

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
149.90	0	0	150.42	5,238	2,360
149.91	485	2	150.43	5,247	2,413
149.92	970	10	150.44	5,256	2,465
149.93	1,454	22	150.45	5,266	2,518
149.94	1,939	39	150.46	5,275	2,571
149.95	2,424	61	150.47	5,284	2,623
149.96	2,909	87	150.48	5,293	2,676
149.97	3,394	119	150.49	5,303	2,729
149.98	3,878	155	150.50	5,312	2,782
149.99	4,363	196	150.51	5,321	2,836
150.00	4,848	242	150.52	5,331	2,889
150.01	4,857	291	150.53	5,340	2,942
150.02	4,867	340	150.54	5,349	2,996
150.03	4,876	388	150.55	5,358	3,049
150.04	4,885	437	150.56	5,368	3,103
150.05	4,894	486	150.57	5,377	3,157
150.06	4,904	535	150.58	5,386	3,210
150.07	4,913	584	150.59	5,396	3,264
150.08	4,922	633	150.60	5,405	3,318
150.09	4,932	682	150.61	5,414	3,372
150.10	4,941	732	150.62	5,423	3,427
150.11	4,950	781	150.63	5,433	3,481
150.12	4,959	831	150.64	5,442	3,535
150.13	4,969	880	150.65	5,451	3,590
150.14	4,978	930	150.66	5,460	3,644
150.15	4,987	980	150.67	5,470	3,699
150.16	4,996	1,030	150.68	5,479	3,754
150.17	5,006	1,080	150.69	5,488	3,808
150.18	5,015	1,130	150.70	5,498	3,863
150.19	5,024	1,180	150.71	5,507	3,918
150.20	5,034	1,231	150.72	5,516	3,973
150.21	5,043	1,281	150.73	5,525	4,029
150.22	5,052	1,331	150.74	5,535	4,084
150.23	5,061	1,382	150.75	5,544	4,139
150.24	5,071	1,433	150.76	5,553	4,195
150.25	5,080	1,483	150.77	5,563	4,250
150.26	5,089	1,534	150.78	5,572	4,306
150.27	5,099	1,585	150.79	5,581	4,362
150.28	5,108	1,636	150.80	5,590	4,418
150.29	5,117	1,687	150.81	5,600	4,474
150.30	5,126	1,739	150.82	5,609	4,530
150.31	5,136	1,790	150.83	5,618	4,586
150.32	5,145	1,841	150.84	5,628	4,642
150.33	5,154	1,893	150.85	5,637	4,698
150.34	5,164	1,944	150.86	5,646	4,755
150.35	5,173	1,996	150.87	5,655	4,811
150.36	5,182	2,048	150.88	5,665	4,868
150.37	5,191	2,100	150.89	5,674	4,925
150.38	5,201	2,152	150.90	5,683	4,981
150.39	5,210	2,204	150.91	5,692	5,038
150.40	5,219	2,256	150.92	5,702	5,095
150.41	5,228	2,308	150.93	5,711	5,152

Stage-Area-Storage for Pond B-21: Basin #21 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
150.94	5,720	5,210	151.46	6,229	8,316
150.95	5,730	5,267	151.47	6,239	8,378
150.96	5,739	5,324	151.48	6,249	8,440
150.97	5,748	5,382	151.49	6,259	8,503
150.98	5,757	5,439	151.50	6,269	8,566
150.99	5,767	5,497	151.51	6,278	8,628
151.00	5,776	5,554	151.52	6,288	8,691
151.01	5,786	5,612	151.53	6,298	8,754
151.02	5,796	5,670	151.54	6,308	8,817
151.03	5,806	5,728	151.55	6,318	8,880
151.04	5,815	5,786	151.56	6,328	8,943
151.05	5,825	5,844	151.57	6,337	9,007
151.06	5,835	5,903	151.58	6,347	9,070
151.07	5,845	5,961	151.59	6,357	9,134
151.08	5,855	6,020	151.60	6,367	9,197
151.09	5,865	6,078	151.61	6,377	9,261
151.10	5,874	6,137	151.62	6,387	9,325
151.11	5,884	6,196	151.63	6,397	9,389
151.12	5,894	6,255	151.64	6,406	9,453
151.13	5,904	6,314	151.65	6,416	9,517
151.14	5,914	6,373	151.66	6,426	9,581
151.15	5,924	6,432	151.67	6,436	9,645
151.16	5,934	6,491	151.68	6,446	9,710
151.17	5,943	6,551	151.69	6,456	9,774
151.18	5,953	6,610	151.70	6,466	9,839
151.19	5,963	6,670	151.71	6,475	9,904
151.20	5,973	6,729	151.72	6,485	9,968
151.21	5,983	6,789	151.73	6,495	10,033
151.22	5,993	6,849	151.74	6,505	10,098
151.23	6,003	6,909	151.75	6,515	10,163
151.24	6,012	6,969	151.76	6,525	10,229
151.25	6,022	7,029	151.77	6,534	10,294
151.26	6,032	7,089	151.78	6,544	10,359
151.27	6,042	7,150	151.79	6,554	10,425
151.28	6,052	7,210	151.80	6,564	10,490
151.29	6,062	7,271	151.81	6,574	10,556
151.30	6,072	7,332	151.82	6,584	10,622
151.31	6,081	7,392	151.83	6,594	10,688
151.32	6,091	7,453	151.84	6,603	10,754
151.33	6,101	7,514	151.85	6,613	10,820
151.34	6,111	7,575	151.86	6,623	10,886
151.35	6,121	7,636	151.87	6,633	10,952
151.36	6,131	7,698	151.88	6,643	11,019
151.37	6,140	7,759	151.89	6,653	11,085
151.38	6,150	7,820	151.90	6,663	11,152
151.39	6,160	7,882	151.91	6,672	11,218
151.40	6,170	7,944	151.92	6,682	11,285
151.41	6,180	8,005	151.93	6,692	11,352
151.42	6,190	8,067	151.94	6,702	11,419
151.43	6,200	8,129	151.95	6,712	11,486
151.44	6,209	8,191	151.96	6,722	11,553
151.45	6,219	8,253	151.97	6,731	11,621

Stage-Area-Storage for Pond B-21: Basin #21 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
151.98	6,741	11,688	152.50	7,282	15,334
151.99	6,751	11,755	152.51	7,292	15,406
152.00	6,761	11,823	152.52	7,302	15,479
152.01	6,771	11,891	152.53	7,313	15,552
152.02	6,782	11,958	152.54	7,323	15,626
152.03	6,792	12,026	152.55	7,334	15,699
152.04	6,803	12,094	152.56	7,344	15,772
152.05	6,813	12,162	152.57	7,354	15,846
152.06	6,823	12,230	152.58	7,365	15,919
152.07	6,834	12,299	152.59	7,375	15,993
152.08	6,844	12,367	152.60	7,386	16,067
152.09	6,855	12,436	152.61	7,396	16,141
152.10	6,865	12,504	152.62	7,406	16,215
152.11	6,876	12,573	152.63	7,417	16,289
152.12	6,886	12,642	152.64	7,427	16,363
152.13	6,896	12,711	152.65	7,438	16,437
152.14	6,907	12,780	152.66	7,448	16,512
152.15	6,917	12,849	152.67	7,458	16,586
152.16	6,928	12,918	152.68	7,469	16,661
152.17	6,938	12,987	152.69	7,479	16,736
152.18	6,948	13,057	152.70	7,490	16,811
152.19	6,959	13,126	152.71	7,500	16,886
152.20	6,969	13,196	152.72	7,511	16,961
152.21	6,980	13,266	152.73	7,521	17,036
152.22	6,990	13,336	152.74	7,531	17,111
152.23	7,000	13,405	152.75	7,542	17,186
152.24	7,011	13,476	152.76	7,552	17,262
152.25	7,021	13,546	152.77	7,563	17,337
152.26	7,032	13,616	152.78	7,573	17,413
152.27	7,042	13,686	152.79	7,583	17,489
152.28	7,052	13,757	152.80	7,594	17,565
152.29	7,063	13,827	152.81	7,604	17,641
152.30	7,073	13,898	152.82	7,615	17,717
152.31	7,084	13,969	152.83	7,625	17,793
152.32	7,094	14,040	152.84	7,635	17,869
152.33	7,105	14,111	152.85	7,646	17,946
152.34	7,115	14,182	152.86	7,656	18,022
152.35	7,125	14,253	152.87	7,667	18,099
152.36	7,136	14,324	152.88	7,677	18,176
152.37	7,146	14,396	152.89	7,687	18,252
152.38	7,157	14,467	152.90	7,698	18,329
152.39	7,167	14,539	152.91	7,708	18,406
152.40	7,177	14,611	152.92	7,719	18,484
152.41	7,188	14,682	152.93	7,729	18,561
152.42	7,198	14,754	152.94	7,740	18,638
152.43	7,209	14,826	152.95	7,750	18,716
152.44	7,219	14,899	152.96	7,760	18,793
152.45	7,229	14,971	152.97	7,771	18,871
152.46	7,240	15,043	152.98	7,781	18,949
152.47	7,250	15,116	152.99	7,792	19,026
152.48	7,261	15,188	153.00	7,802	19,104
152.49	7,271	15,261	153.01	7,813	19,182

Stage-Area-Storage for Pond B-21: Basin #21 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
153.02	7,824	19,261	153.54	8,395	23,478
153.03	7,835	19,339	153.55	8,406	23,562
153.04	7,846	19,417	153.56	8,417	23,646
153.05	7,857	19,496	153.57	8,428	23,730
153.06	7,868	19,574	153.58	8,439	23,814
153.07	7,879	19,653	153.59	8,450	23,899
153.08	7,890	19,732	153.60	8,461	23,983
153.09	7,901	19,811	153.61	8,472	24,068
153.10	7,912	19,890	153.62	8,483	24,153
153.11	7,923	19,969	153.63	8,494	24,238
153.12	7,934	20,049	153.64	8,505	24,323
153.13	7,945	20,128	153.65	8,516	24,408
153.14	7,956	20,207	153.66	8,527	24,493
153.15	7,967	20,287	153.67	8,538	24,578
153.16	7,978	20,367	153.68	8,549	24,664
153.17	7,989	20,447	153.69	8,560	24,749
153.18	8,000	20,527	153.70	8,571	24,835
153.19	8,011	20,607	153.71	8,582	24,921
153.20	8,022	20,687	153.72	8,593	25,006
153.21	8,033	20,767	153.73	8,604	25,092
153.22	8,044	20,847	153.74	8,615	25,179
153.23	8,055	20,928	153.75	8,626	25,265
153.24	8,066	21,009	153.76	8,636	25,351
153.25	8,077	21,089	153.77	8,647	25,437
153.26	8,087	21,170	153.78	8,658	25,524
153.27	8,098	21,251	153.79	8,669	25,611
153.28	8,109	21,332	153.80	8,680	25,697
153.29	8,120	21,413	153.81	8,691	25,784
153.30	8,131	21,494	153.82	8,702	25,871
153.31	8,142	21,576	153.83	8,713	25,958
153.32	8,153	21,657	153.84	8,724	26,045
153.33	8,164	21,739	153.85	8,735	26,133
153.34	8,175	21,821	153.86	8,746	26,220
153.35	8,186	21,902	153.87	8,757	26,308
153.36	8,197	21,984	153.88	8,768	26,395
153.37	8,208	22,066	153.89	8,779	26,483
153.38	8,219	22,148	153.90	8,790	26,571
153.39	8,230	22,231	153.91	8,801	26,659
153.40	8,241	22,313	153.92	8,812	26,747
153.41	8,252	22,396	153.93	8,823	26,835
153.42	8,263	22,478	153.94	8,834	26,923
153.43	8,274	22,561	153.95	8,845	27,012
153.44	8,285	22,644	153.96	8,856	27,100
153.45	8,296	22,726	153.97	8,867	27,189
153.46	8,307	22,809	153.98	8,878	27,278
153.47	8,318	22,893	153.99	8,889	27,366
153.48	8,329	22,976	154.00	8,900	27,455
153.49	8,340	23,059	154.01	8,912	27,544
153.50	8,351	23,143	154.02	8,923	27,634
153.51	8,362	23,226	154.03	8,935	27,723
153.52	8,373	23,310	154.04	8,946	27,812
153.53	8,384	23,394	154.05	8,958	27,902

Stage-Area-Storage for Pond B-21: Basin #21 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
154.06	8,969	27,991	154.58	9,569	32,812
154.07	8,981	28,081	154.59	9,581	32,907
154.08	8,992	28,171	154.60	9,592	33,003
154.09	9,004	28,261	154.61	9,604	33,099
154.10	9,015	28,351	154.62	9,615	33,195
154.11	9,027	28,441	154.63	9,627	33,291
154.12	9,038	28,532	154.64	9,639	33,388
154.13	9,050	28,622	154.65	9,650	33,484
154.14	9,062	28,713	154.66	9,662	33,581
154.15	9,073	28,803	154.67	9,673	33,677
154.16	9,085	28,894	154.68	9,685	33,774
154.17	9,096	28,985	154.69	9,696	33,871
154.18	9,108	29,076	154.70	9,708	33,968
154.19	9,119	29,167	154.71	9,719	34,065
154.20	9,131	29,258	154.72	9,731	34,163
154.21	9,142	29,350	154.73	9,742	34,260
154.22	9,154	29,441	154.74	9,754	34,357
154.23	9,165	29,533	154.75	9,766	34,455
154.24	9,177	29,625	154.76	9,777	34,553
154.25	9,189	29,716	154.77	9,789	34,651
154.26	9,200	29,808	154.78	9,800	34,748
154.27	9,212	29,900	154.79	9,812	34,847
154.28	9,223	29,993	154.80	9,823	34,945
154.29	9,235	30,085	154.81	9,835	35,043
154.30	9,246	30,177	154.82	9,846	35,141
154.31	9,258	30,270	154.83	9,858	35,240
154.32	9,269	30,362	154.84	9,869	35,339
154.33	9,281	30,455	154.85	9,881	35,437
154.34	9,292	30,548	154.86	9,892	35,536
154.35	9,304	30,641	154.87	9,904	35,635
154.36	9,315	30,734	154.88	9,916	35,734
154.37	9,327	30,827	154.89	9,927	35,833
154.38	9,339	30,921	154.90	9,939	35,933
154.39	9,350	31,014	154.91	9,950	36,032
154.40	9,362	31,108	154.92	9,962	36,132
154.41	9,373	31,201	154.93	9,973	36,231
154.42	9,385	31,295	154.94	9,985	36,331
154.43	9,396	31,389	154.95	9,996	36,431
154.44	9,408	31,483	154.96	10,008	36,531
154.45	9,419	31,577	154.97	10,019	36,631
154.46	9,431	31,671	154.98	10,031	36,732
154.47	9,442	31,766	154.99	10,042	36,832
154.48	9,454	31,860	155.00	10,054	36,932
154.49	9,465	31,955	155.01	10,066	37,033
154.50	9,477	32,050	155.02	10,078	37,134
154.51	9,489	32,144	155.03	10,090	37,235
154.52	9,500	32,239	155.04	10,102	37,336
154.53	9,512	32,334	155.05	10,114	37,437
154.54	9,523	32,430	155.06	10,126	37,538
154.55	9,535	32,525	155.07	10,138	37,639
154.56	9,546	32,620	155.08	10,150	37,741
154.57	9,558	32,716	155.09	10,162	37,842

Stage-Area-Storage for Pond B-21: Basin #21 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
155.10	10,174	37,944
155.11	10,186	38,046
155.12	10,198	38,148
155.13	10,210	38,250
155.14	10,222	38,352
155.15	10,234	38,454
155.16	10,246	38,556
155.17	10,258	38,659
155.18	10,270	38,762
155.19	10,282	38,864
155.20	10,294	38,967
155.21	10,306	39,070
155.22	10,318	39,173
155.23	10,330	39,277
155.24	10,342	39,380
155.25	10,354	39,483
155.26	10,365	39,587
155.27	10,377	39,691
155.28	10,389	39,794
155.29	10,401	39,898
155.30	10,413	40,003
155.31	10,425	40,107
155.32	10,437	40,211
155.33	10,449	40,315
155.34	10,461	40,420
155.35	10,473	40,525
155.36	10,485	40,629
155.37	10,497	40,734
155.38	10,509	40,839
155.39	10,521	40,945
155.40	10,533	41,050
155.41	10,545	41,155
155.42	10,557	41,261
155.43	10,569	41,366
155.44	10,581	41,472
155.45	10,593	41,578
155.46	10,605	41,684
155.47	10,617	41,790
155.48	10,629	41,896
155.49	10,641	42,003
155.50	10,653	42,109

Summary for Pond B-22: Basin #22

Inflow Area = 2.460 ac, 33.05% Impervious, Inflow Depth = 3.24" for Current 10 yr event
 Inflow = 8.22 cfs @ 12.17 hrs, Volume= 0.665 af
 Outflow = 1.73 cfs @ 12.64 hrs, Volume= 0.532 af, Atten= 79%, Lag= 28.2 min
 Primary = 1.73 cfs @ 12.64 hrs, Volume= 0.532 af
 Routed to Link PDA-2 : Proposed Drainage Area #2

Routing by Stor-Ind method, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 Peak Elev= 149.71' @ 12.64 hrs Surf.Area= 8,695 sf Storage= 15,767 cf

Plug-Flow detention time= 518.5 min calculated for 0.532 af (80% of inflow)
 Center-of-Mass det. time= 435.6 min (1,233.9 - 798.3)

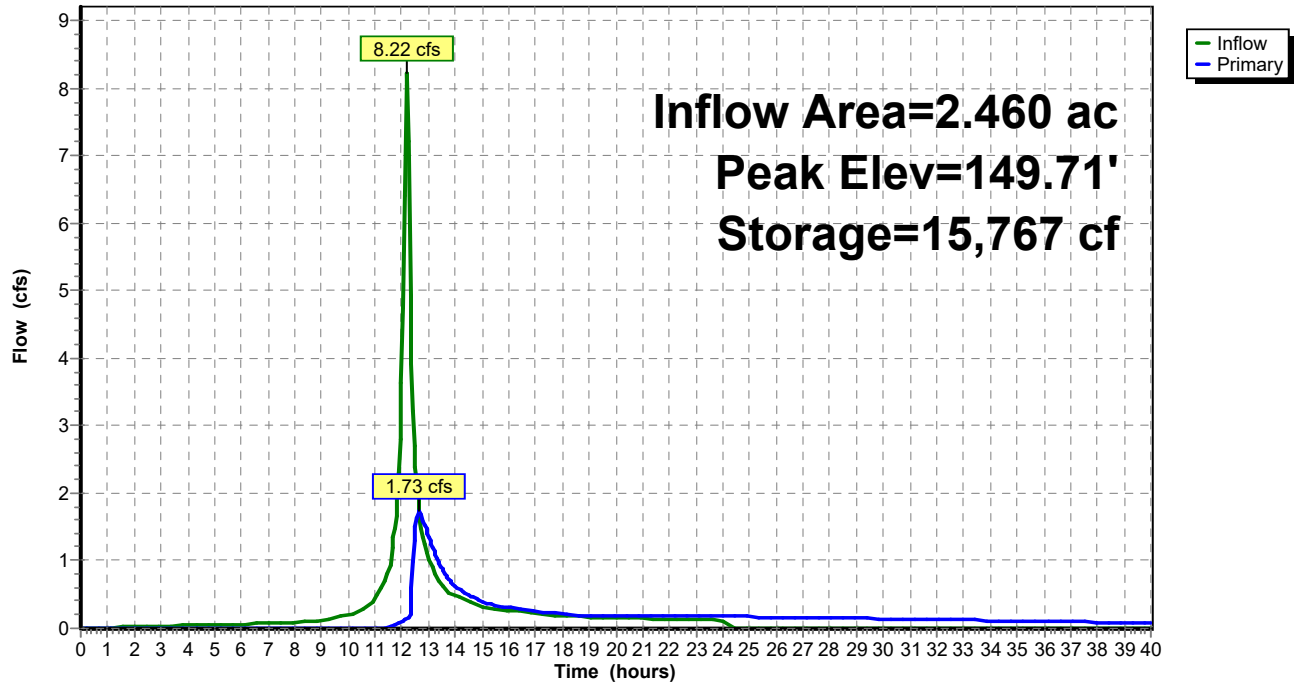
Volume	Invert	Avail.Storage	Storage Description
#1	147.30'	50,528 cf	Custom Stage Data (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
147.30	0	0	0
148.00	6,928	2,425	2,425
149.00	7,937	7,433	9,857
150.00	9,003	8,470	18,327
151.00	10,125	9,564	27,891
152.00	11,304	10,715	38,606
153.00	12,540	11,922	50,528

Device	Routing	Invert	Outlet Devices
#1	Primary	147.30'	18.0" Round Culvert L= 24.0' Ke= 0.500 Inlet / Outlet Invert= 147.30' / 146.20' S= 0.0458 '/' Cc= 0.900 n= 0.013, Flow Area= 1.77 sf
#2	Device 1	148.15'	2.5" Vert. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#3	Device 1	149.47'	4.0' long Sharp-Crested Rectangular Weir 2 End Contraction(s)
#4	Primary	152.95'	50.0' long + 3.0 '/' SideZ x 5.0' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 Coef. (English) 2.34 2.50 2.70 2.68 2.68 2.66 2.65 2.65 2.65 2.65 2.67 2.66 2.68 2.70 2.74 2.79 2.88

Primary OutFlow Max=1.72 cfs @ 12.64 hrs HW=149.71' (Free Discharge)

1=Culvert (Passes 1.72 cfs of 10.96 cfs potential flow)
 2=Orifice/Grate (Orifice Controls 0.20 cfs @ 5.81 fps)
 3=Sharp-Crested Rectangular Weir (Weir Controls 1.52 cfs @ 1.60 fps)
 4=Broad-Crested Rectangular Weir (Controls 0.00 cfs)

Pond B-22: Basin #22**Hydrograph**

Stage-Discharge for Pond B-22: Basin #22

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
147.30	0.00	147.82	0.00	148.34	0.05	148.86	0.13
147.31	0.00	147.83	0.00	148.35	0.05	148.87	0.13
147.32	0.00	147.84	0.00	148.36	0.05	148.88	0.13
147.33	0.00	147.85	0.00	148.37	0.06	148.89	0.13
147.34	0.00	147.86	0.00	148.38	0.06	148.90	0.13
147.35	0.00	147.87	0.00	148.39	0.06	148.91	0.13
147.36	0.00	147.88	0.00	148.40	0.06	148.92	0.13
147.37	0.00	147.89	0.00	148.41	0.06	148.93	0.13
147.38	0.00	147.90	0.00	148.42	0.07	148.94	0.14
147.39	0.00	147.91	0.00	148.43	0.07	148.95	0.14
147.40	0.00	147.92	0.00	148.44	0.07	148.96	0.14
147.41	0.00	147.93	0.00	148.45	0.07	148.97	0.14
147.42	0.00	147.94	0.00	148.46	0.07	148.98	0.14
147.43	0.00	147.95	0.00	148.47	0.08	148.99	0.14
147.44	0.00	147.96	0.00	148.48	0.08	149.00	0.14
147.45	0.00	147.97	0.00	148.49	0.08	149.01	0.14
147.46	0.00	147.98	0.00	148.50	0.08	149.02	0.14
147.47	0.00	147.99	0.00	148.51	0.08	149.03	0.14
147.48	0.00	148.00	0.00	148.52	0.08	149.04	0.15
147.49	0.00	148.01	0.00	148.53	0.09	149.05	0.15
147.50	0.00	148.02	0.00	148.54	0.09	149.06	0.15
147.51	0.00	148.03	0.00	148.55	0.09	149.07	0.15
147.52	0.00	148.04	0.00	148.56	0.09	149.08	0.15
147.53	0.00	148.05	0.00	148.57	0.09	149.09	0.15
147.54	0.00	148.06	0.00	148.58	0.09	149.10	0.15
147.55	0.00	148.07	0.00	148.59	0.10	149.11	0.15
147.56	0.00	148.08	0.00	148.60	0.10	149.12	0.15
147.57	0.00	148.09	0.00	148.61	0.10	149.13	0.15
147.58	0.00	148.10	0.00	148.62	0.10	149.14	0.15
147.59	0.00	148.11	0.00	148.63	0.10	149.15	0.16
147.60	0.00	148.12	0.00	148.64	0.10	149.16	0.16
147.61	0.00	148.13	0.00	148.65	0.10	149.17	0.16
147.62	0.00	148.14	0.00	148.66	0.10	149.18	0.16
147.63	0.00	148.15	0.00	148.67	0.11	149.19	0.16
147.64	0.00	148.16	0.00	148.68	0.11	149.20	0.16
147.65	0.00	148.17	0.00	148.69	0.11	149.21	0.16
147.66	0.00	148.18	0.00	148.70	0.11	149.22	0.16
147.67	0.00	148.19	0.00	148.71	0.11	149.23	0.16
147.68	0.00	148.20	0.00	148.72	0.11	149.24	0.16
147.69	0.00	148.21	0.01	148.73	0.11	149.25	0.16
147.70	0.00	148.22	0.01	148.74	0.11	149.26	0.16
147.71	0.00	148.23	0.01	148.75	0.12	149.27	0.17
147.72	0.00	148.24	0.01	148.76	0.12	149.28	0.17
147.73	0.00	148.25	0.02	148.77	0.12	149.29	0.17
147.74	0.00	148.26	0.02	148.78	0.12	149.30	0.17
147.75	0.00	148.27	0.02	148.79	0.12	149.31	0.17
147.76	0.00	148.28	0.03	148.80	0.12	149.32	0.17
147.77	0.00	148.29	0.03	148.81	0.12	149.33	0.17
147.78	0.00	148.30	0.03	148.82	0.12	149.34	0.17
147.79	0.00	148.31	0.04	148.83	0.12	149.35	0.17
147.80	0.00	148.32	0.04	148.84	0.13	149.36	0.17
147.81	0.00	148.33	0.05	148.85	0.13	149.37	0.17

Stage-Discharge for Pond B-22: Basin #22 (continued)

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
149.38	0.17	149.90	3.82	150.42	11.78	150.94	14.46
149.39	0.17	149.91	3.94	150.43	11.95	150.95	14.49
149.40	0.18	149.92	4.07	150.44	12.13	150.96	14.51
149.41	0.18	149.93	4.20	150.45	12.31	150.97	14.54
149.42	0.18	149.94	4.33	150.46	12.49	150.98	14.56
149.43	0.18	149.95	4.46	150.47	12.67	150.99	14.59
149.44	0.18	149.96	4.59	150.48	12.85	151.00	14.61
149.45	0.18	149.97	4.72	150.49	13.03	151.01	14.64
149.46	0.18	149.98	4.86	150.50	13.21	151.02	14.66
149.47	0.18	149.99	4.99	150.51	13.35	151.03	14.69
149.48	0.19	150.00	5.13	150.52	13.37	151.04	14.71
149.49	0.22	150.01	5.27	150.53	13.40	151.05	14.74
149.50	0.25	150.02	5.41	150.54	13.43	151.06	14.76
149.51	0.29	150.03	5.55	150.55	13.45	151.07	14.79
149.52	0.33	150.04	5.69	150.56	13.48	151.08	14.81
149.53	0.38	150.05	5.83	150.57	13.51	151.09	14.84
149.54	0.43	150.06	5.97	150.58	13.53	151.10	14.86
149.55	0.48	150.07	6.12	150.59	13.56	151.11	14.88
149.56	0.54	150.08	6.26	150.60	13.59	151.12	14.91
149.57	0.60	150.09	6.41	150.61	13.61	151.13	14.93
149.58	0.66	150.10	6.56	150.62	13.64	151.14	14.96
149.59	0.73	150.11	6.71	150.63	13.67	151.15	14.98
149.60	0.80	150.12	6.86	150.64	13.69	151.16	15.01
149.61	0.87	150.13	7.01	150.65	13.72	151.17	15.03
149.62	0.95	150.14	7.16	150.66	13.75	151.18	15.05
149.63	1.02	150.15	7.31	150.67	13.77	151.19	15.08
149.64	1.10	150.16	7.46	150.68	13.80	151.20	15.10
149.65	1.18	150.17	7.62	150.69	13.83	151.21	15.13
149.66	1.27	150.18	7.78	150.70	13.85	151.22	15.15
149.67	1.35	150.19	7.93	150.71	13.88	151.23	15.17
149.68	1.44	150.20	8.09	150.72	13.90	151.24	15.20
149.69	1.53	150.21	8.25	150.73	13.93	151.25	15.22
149.70	1.62	150.22	8.41	150.74	13.96	151.26	15.24
149.71	1.72	150.23	8.57	150.75	13.98	151.27	15.27
149.72	1.81	150.24	8.73	150.76	14.01	151.28	15.29
149.73	1.91	150.25	8.89	150.77	14.03	151.29	15.32
149.74	2.01	150.26	9.05	150.78	14.06	151.30	15.34
149.75	2.11	150.27	9.22	150.79	14.08	151.31	15.36
149.76	2.21	150.28	9.38	150.80	14.11	151.32	15.39
149.77	2.32	150.29	9.55	150.81	14.14	151.33	15.41
149.78	2.43	150.30	9.71	150.82	14.16	151.34	15.43
149.79	2.53	150.31	9.88	150.83	14.19	151.35	15.46
149.80	2.64	150.32	10.05	150.84	14.21	151.36	15.48
149.81	2.75	150.33	10.22	150.85	14.24	151.37	15.50
149.82	2.87	150.34	10.39	150.86	14.26	151.38	15.53
149.83	2.98	150.35	10.56	150.87	14.29	151.39	15.55
149.84	3.10	150.36	10.73	150.88	14.31	151.40	15.57
149.85	3.21	150.37	10.90	150.89	14.34	151.41	15.60
149.86	3.33	150.38	11.08	150.90	14.36	151.42	15.62
149.87	3.45	150.39	11.25	150.91	14.39	151.43	15.64
149.88	3.57	150.40	11.43	150.92	14.41	151.44	15.67
149.89	3.70	150.41	11.60	150.93	14.44	151.45	15.69

Stage-Discharge for Pond B-22: Basin #22 (continued)

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
151.46	15.71	151.98	16.87	152.50	17.95
151.47	15.74	151.99	16.89	152.51	17.97
151.48	15.76	152.00	16.91	152.52	17.99
151.49	15.78	152.01	16.93	152.53	18.01
151.50	15.80	152.02	16.95	152.54	18.03
151.51	15.83	152.03	16.97	152.55	18.05
151.52	15.85	152.04	17.00	152.56	18.07
151.53	15.87	152.05	17.02	152.57	18.09
151.54	15.90	152.06	17.04	152.58	18.11
151.55	15.92	152.07	17.06	152.59	18.13
151.56	15.94	152.08	17.08	152.60	18.15
151.57	15.96	152.09	17.10	152.61	18.17
151.58	15.99	152.10	17.12	152.62	18.19
151.59	16.01	152.11	17.14	152.63	18.21
151.60	16.03	152.12	17.17	152.64	18.23
151.61	16.05	152.13	17.19	152.65	18.25
151.62	16.08	152.14	17.21	152.66	18.27
151.63	16.10	152.15	17.23	152.67	18.29
151.64	16.12	152.16	17.25	152.68	18.31
151.65	16.14	152.17	17.27	152.69	18.33
151.66	16.17	152.18	17.29	152.70	18.35
151.67	16.19	152.19	17.31	152.71	18.37
151.68	16.21	152.20	17.33	152.72	18.39
151.69	16.23	152.21	17.35	152.73	18.41
151.70	16.26	152.22	17.38	152.74	18.43
151.71	16.28	152.23	17.40	152.75	18.45
151.72	16.30	152.24	17.42	152.76	18.47
151.73	16.32	152.25	17.44	152.77	18.49
151.74	16.34	152.26	17.46	152.78	18.51
151.75	16.37	152.27	17.48	152.79	18.52
151.76	16.39	152.28	17.50	152.80	18.54
151.77	16.41	152.29	17.52	152.81	18.56
151.78	16.43	152.30	17.54	152.82	18.58
151.79	16.46	152.31	17.56	152.83	18.60
151.80	16.48	152.32	17.58	152.84	18.62
151.81	16.50	152.33	17.60	152.85	18.64
151.82	16.52	152.34	17.62	152.86	18.66
151.83	16.54	152.35	17.64	152.87	18.68
151.84	16.56	152.36	17.66	152.88	18.70
151.85	16.59	152.37	17.69	152.89	18.72
151.86	16.61	152.38	17.71	152.90	18.74
151.87	16.63	152.39	17.73	152.91	18.76
151.88	16.65	152.40	17.75	152.92	18.78
151.89	16.67	152.41	17.77	152.93	18.80
151.90	16.70	152.42	17.79	152.94	18.82
151.91	16.72	152.43	17.81	152.95	18.83
151.92	16.74	152.44	17.83	152.96	18.97
151.93	16.76	152.45	17.85	152.97	19.20
151.94	16.78	152.46	17.87	152.98	19.50
151.95	16.80	152.47	17.89	152.99	19.85
151.96	16.82	152.48	17.91	153.00	20.24
151.97	16.85	152.49	17.93		

Stage-Area-Storage for Pond B-22: Basin #22

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
147.30	0	0	147.82	5,147	1,338
147.31	99	0	147.83	5,245	1,390
147.32	198	2	147.84	5,344	1,443
147.33	297	4	147.85	5,443	1,497
147.34	396	8	147.86	5,542	1,552
147.35	495	12	147.87	5,641	1,608
147.36	594	18	147.88	5,740	1,665
147.37	693	24	147.89	5,839	1,723
147.38	792	32	147.90	5,938	1,781
147.39	891	40	147.91	6,037	1,841
147.40	990	49	147.92	6,136	1,902
147.41	1,089	60	147.93	6,235	1,964
147.42	1,188	71	147.94	6,334	2,027
147.43	1,287	84	147.95	6,433	2,091
147.44	1,386	97	147.96	6,532	2,156
147.45	1,485	111	147.97	6,631	2,221
147.46	1,584	127	147.98	6,730	2,288
147.47	1,683	143	147.99	6,829	2,356
147.48	1,781	160	148.00	6,928	2,425
147.49	1,880	179	148.01	6,938	2,494
147.50	1,979	198	148.02	6,948	2,564
147.51	2,078	218	148.03	6,958	2,633
147.52	2,177	240	148.04	6,968	2,703
147.53	2,276	262	148.05	6,978	2,772
147.54	2,375	285	148.06	6,989	2,842
147.55	2,474	309	148.07	6,999	2,912
147.56	2,573	335	148.08	7,009	2,982
147.57	2,672	361	148.09	7,019	3,052
147.58	2,771	388	148.10	7,029	3,123
147.59	2,870	416	148.11	7,039	3,193
147.60	2,969	445	148.12	7,049	3,263
147.61	3,068	476	148.13	7,059	3,334
147.62	3,167	507	148.14	7,069	3,405
147.63	3,266	539	148.15	7,079	3,475
147.64	3,365	572	148.16	7,089	3,546
147.65	3,464	606	148.17	7,100	3,617
147.66	3,563	641	148.18	7,110	3,688
147.67	3,662	677	148.19	7,120	3,759
147.68	3,761	715	148.20	7,130	3,831
147.69	3,860	753	148.21	7,140	3,902
147.70	3,959	792	148.22	7,150	3,973
147.71	4,058	832	148.23	7,160	4,045
147.72	4,157	873	148.24	7,170	4,117
147.73	4,256	915	148.25	7,180	4,188
147.74	4,355	958	148.26	7,190	4,260
147.75	4,454	1,002	148.27	7,200	4,332
147.76	4,553	1,047	148.28	7,211	4,404
147.77	4,652	1,093	148.29	7,221	4,476
147.78	4,751	1,140	148.30	7,231	4,549
147.79	4,850	1,188	148.31	7,241	4,621
147.80	4,949	1,237	148.32	7,251	4,693
147.81	5,048	1,287	148.33	7,261	4,766

Stage-Area-Storage for Pond B-22: Basin #22 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
148.34	7,271	4,839	148.86	7,796	8,756
148.35	7,281	4,911	148.87	7,806	8,834
148.36	7,291	4,984	148.88	7,816	8,912
148.37	7,301	5,057	148.89	7,826	8,990
148.38	7,311	5,130	148.90	7,836	9,069
148.39	7,322	5,203	148.91	7,846	9,147
148.40	7,332	5,277	148.92	7,856	9,226
148.41	7,342	5,350	148.93	7,866	9,304
148.42	7,352	5,424	148.94	7,876	9,383
148.43	7,362	5,497	148.95	7,887	9,462
148.44	7,372	5,571	148.96	7,897	9,541
148.45	7,382	5,645	148.97	7,907	9,620
148.46	7,392	5,718	148.98	7,917	9,699
148.47	7,402	5,792	148.99	7,927	9,778
148.48	7,412	5,866	149.00	7,937	9,857
148.49	7,422	5,941	149.01	7,948	9,937
148.50	7,433	6,015	149.02	7,958	10,016
148.51	7,443	6,089	149.03	7,969	10,096
148.52	7,453	6,164	149.04	7,980	10,176
148.53	7,463	6,238	149.05	7,990	10,255
148.54	7,473	6,313	149.06	8,001	10,335
148.55	7,483	6,388	149.07	8,012	10,416
148.56	7,493	6,463	149.08	8,022	10,496
148.57	7,503	6,538	149.09	8,033	10,576
148.58	7,513	6,613	149.10	8,044	10,656
148.59	7,523	6,688	149.11	8,054	10,737
148.60	7,533	6,763	149.12	8,065	10,817
148.61	7,543	6,839	149.13	8,076	10,898
148.62	7,554	6,914	149.14	8,086	10,979
148.63	7,564	6,990	149.15	8,097	11,060
148.64	7,574	7,065	149.16	8,108	11,141
148.65	7,584	7,141	149.17	8,118	11,222
148.66	7,594	7,217	149.18	8,129	11,303
148.67	7,604	7,293	149.19	8,140	11,385
148.68	7,614	7,369	149.20	8,150	11,466
148.69	7,624	7,445	149.21	8,161	11,548
148.70	7,634	7,522	149.22	8,172	11,629
148.71	7,644	7,598	149.23	8,182	11,711
148.72	7,654	7,674	149.24	8,193	11,793
148.73	7,665	7,751	149.25	8,204	11,875
148.74	7,675	7,828	149.26	8,214	11,957
148.75	7,685	7,905	149.27	8,225	12,039
148.76	7,695	7,981	149.28	8,235	12,121
148.77	7,705	8,058	149.29	8,246	12,204
148.78	7,715	8,136	149.30	8,257	12,286
148.79	7,725	8,213	149.31	8,267	12,369
148.80	7,735	8,290	149.32	8,278	12,452
148.81	7,745	8,367	149.33	8,289	12,535
148.82	7,755	8,445	149.34	8,299	12,617
148.83	7,765	8,523	149.35	8,310	12,701
148.84	7,776	8,600	149.36	8,321	12,784
148.85	7,786	8,678	149.37	8,331	12,867

Stage-Area-Storage for Pond B-22: Basin #22 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
149.38	8,342	12,950	149.90	8,896	17,432
149.39	8,353	13,034	149.91	8,907	17,521
149.40	8,363	13,117	149.92	8,918	17,610
149.41	8,374	13,201	149.93	8,928	17,700
149.42	8,385	13,285	149.94	8,939	17,789
149.43	8,395	13,369	149.95	8,950	17,878
149.44	8,406	13,453	149.96	8,960	17,968
149.45	8,417	13,537	149.97	8,971	18,058
149.46	8,427	13,621	149.98	8,982	18,147
149.47	8,438	13,705	149.99	8,992	18,237
149.48	8,449	13,790	150.00	9,003	18,327
149.49	8,459	13,874	150.01	9,014	18,417
149.50	8,470	13,959	150.02	9,025	18,508
149.51	8,481	14,044	150.03	9,037	18,598
149.52	8,491	14,129	150.04	9,048	18,688
149.53	8,502	14,214	150.05	9,059	18,779
149.54	8,513	14,299	150.06	9,070	18,869
149.55	8,523	14,384	150.07	9,082	18,960
149.56	8,534	14,469	150.08	9,093	19,051
149.57	8,545	14,555	150.09	9,104	19,142
149.58	8,555	14,640	150.10	9,115	19,233
149.59	8,566	14,726	150.11	9,126	19,324
149.60	8,577	14,811	150.12	9,138	19,416
149.61	8,587	14,897	150.13	9,149	19,507
149.62	8,598	14,983	150.14	9,160	19,599
149.63	8,609	15,069	150.15	9,171	19,690
149.64	8,619	15,155	150.16	9,183	19,782
149.65	8,630	15,242	150.17	9,194	19,874
149.66	8,641	15,328	150.18	9,205	19,966
149.67	8,651	15,414	150.19	9,216	20,058
149.68	8,662	15,501	150.20	9,227	20,150
149.69	8,673	15,588	150.21	9,239	20,243
149.70	8,683	15,674	150.22	9,250	20,335
149.71	8,694	15,761	150.23	9,261	20,428
149.72	8,705	15,848	150.24	9,272	20,520
149.73	8,715	15,935	150.25	9,284	20,613
149.74	8,726	16,023	150.26	9,295	20,706
149.75	8,737	16,110	150.27	9,306	20,799
149.76	8,747	16,197	150.28	9,317	20,892
149.77	8,758	16,285	150.29	9,328	20,985
149.78	8,768	16,372	150.30	9,340	21,079
149.79	8,779	16,460	150.31	9,351	21,172
149.80	8,790	16,548	150.32	9,362	21,266
149.81	8,800	16,636	150.33	9,373	21,359
149.82	8,811	16,724	150.34	9,384	21,453
149.83	8,822	16,812	150.35	9,396	21,547
149.84	8,832	16,900	150.36	9,407	21,641
149.85	8,843	16,989	150.37	9,418	21,735
149.86	8,854	17,077	150.38	9,429	21,829
149.87	8,864	17,166	150.39	9,441	21,924
149.88	8,875	17,255	150.40	9,452	22,018
149.89	8,886	17,343	150.41	9,463	22,113

Stage-Area-Storage for Pond B-22: Basin #22 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
150.42	9,474	22,208	150.94	10,058	27,286
150.43	9,485	22,302	150.95	10,069	27,386
150.44	9,497	22,397	150.96	10,080	27,487
150.45	9,508	22,492	150.97	10,091	27,588
150.46	9,519	22,587	150.98	10,103	27,689
150.47	9,530	22,683	150.99	10,114	27,790
150.48	9,542	22,778	151.00	10,125	27,891
150.49	9,553	22,873	151.01	10,137	27,993
150.50	9,564	22,969	151.02	10,149	28,094
150.51	9,575	23,065	151.03	10,160	28,196
150.52	9,586	23,161	151.04	10,172	28,297
150.53	9,598	23,256	151.05	10,184	28,399
150.54	9,609	23,353	151.06	10,196	28,501
150.55	9,620	23,449	151.07	10,208	28,603
150.56	9,631	23,545	151.08	10,219	28,705
150.57	9,643	23,641	151.09	10,231	28,807
150.58	9,654	23,738	151.10	10,243	28,910
150.59	9,665	23,834	151.11	10,255	29,012
150.60	9,676	23,931	151.12	10,266	29,115
150.61	9,687	24,028	151.13	10,278	29,218
150.62	9,699	24,125	151.14	10,290	29,320
150.63	9,710	24,222	151.15	10,302	29,423
150.64	9,721	24,319	151.16	10,314	29,526
150.65	9,732	24,416	151.17	10,325	29,630
150.66	9,744	24,514	151.18	10,337	29,733
150.67	9,755	24,611	151.19	10,349	29,836
150.68	9,766	24,709	151.20	10,361	29,940
150.69	9,777	24,806	151.21	10,373	30,044
150.70	9,788	24,904	151.22	10,384	30,147
150.71	9,800	25,002	151.23	10,396	30,251
150.72	9,811	25,100	151.24	10,408	30,355
150.73	9,822	25,198	151.25	10,420	30,459
150.74	9,833	25,297	151.26	10,432	30,564
150.75	9,845	25,395	151.27	10,443	30,668
150.76	9,856	25,494	151.28	10,455	30,773
150.77	9,867	25,592	151.29	10,467	30,877
150.78	9,878	25,691	151.30	10,479	30,982
150.79	9,889	25,790	151.31	10,490	31,087
150.80	9,901	25,889	151.32	10,502	31,192
150.81	9,912	25,988	151.33	10,514	31,297
150.82	9,923	26,087	151.34	10,526	31,402
150.83	9,934	26,186	151.35	10,538	31,507
150.84	9,945	26,286	151.36	10,549	31,613
150.85	9,957	26,385	151.37	10,561	31,718
150.86	9,968	26,485	151.38	10,573	31,824
150.87	9,979	26,585	151.39	10,585	31,930
150.88	9,990	26,684	151.40	10,597	32,036
150.89	10,002	26,784	151.41	10,608	32,142
150.90	10,013	26,884	151.42	10,620	32,248
150.91	10,024	26,985	151.43	10,632	32,354
150.92	10,035	27,085	151.44	10,644	32,460
150.93	10,046	27,185	151.45	10,656	32,567

Stage-Area-Storage for Pond B-22: Basin #22 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
151.46	10,667	32,674	151.98	11,280	38,380
151.47	10,679	32,780	151.99	11,292	38,493
151.48	10,691	32,887	152.00	11,304	38,606
151.49	10,703	32,994	152.01	11,316	38,719
151.50	10,715	33,101	152.02	11,329	38,832
151.51	10,726	33,208	152.03	11,341	38,945
151.52	10,738	33,316	152.04	11,353	39,059
151.53	10,750	33,423	152.05	11,366	39,173
151.54	10,762	33,531	152.06	11,378	39,286
151.55	10,773	33,638	152.07	11,391	39,400
151.56	10,785	33,746	152.08	11,403	39,514
151.57	10,797	33,854	152.09	11,415	39,628
151.58	10,809	33,962	152.10	11,428	39,742
151.59	10,821	34,070	152.11	11,440	39,857
151.60	10,832	34,179	152.12	11,452	39,971
151.61	10,844	34,287	152.13	11,465	40,086
151.62	10,856	34,395	152.14	11,477	40,200
151.63	10,868	34,504	152.15	11,489	40,315
151.64	10,880	34,613	152.16	11,502	40,430
151.65	10,891	34,722	152.17	11,514	40,545
151.66	10,903	34,831	152.18	11,526	40,661
151.67	10,915	34,940	152.19	11,539	40,776
151.68	10,927	35,049	152.20	11,551	40,891
151.69	10,939	35,158	152.21	11,564	41,007
151.70	10,950	35,268	152.22	11,576	41,123
151.71	10,962	35,377	152.23	11,588	41,238
151.72	10,974	35,487	152.24	11,601	41,354
151.73	10,986	35,597	152.25	11,613	41,470
151.74	10,997	35,707	152.26	11,625	41,587
151.75	11,009	35,817	152.27	11,638	41,703
151.76	11,021	35,927	152.28	11,650	41,819
151.77	11,033	36,037	152.29	11,662	41,936
151.78	11,045	36,147	152.30	11,675	42,053
151.79	11,056	36,258	152.31	11,687	42,169
151.80	11,068	36,369	152.32	11,700	42,286
151.81	11,080	36,479	152.33	11,712	42,403
151.82	11,092	36,590	152.34	11,724	42,521
151.83	11,104	36,701	152.35	11,737	42,638
151.84	11,115	36,812	152.36	11,749	42,755
151.85	11,127	36,923	152.37	11,761	42,873
151.86	11,139	37,035	152.38	11,774	42,991
151.87	11,151	37,146	152.39	11,786	43,108
151.88	11,163	37,258	152.40	11,798	43,226
151.89	11,174	37,369	152.41	11,811	43,344
151.90	11,186	37,481	152.42	11,823	43,462
151.91	11,198	37,593	152.43	11,835	43,581
151.92	11,210	37,705	152.44	11,848	43,699
151.93	11,221	37,817	152.45	11,860	43,818
151.94	11,233	37,930	152.46	11,873	43,936
151.95	11,245	38,042	152.47	11,885	44,055
151.96	11,257	38,155	152.48	11,897	44,174
151.97	11,269	38,267	152.49	11,910	44,293

Stage-Area-Storage for Pond B-22: Basin #22 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
152.50	11,922	44,412
152.51	11,934	44,532
152.52	11,947	44,651
152.53	11,959	44,771
152.54	11,971	44,890
152.55	11,984	45,010
152.56	11,996	45,130
152.57	12,009	45,250
152.58	12,021	45,370
152.59	12,033	45,490
152.60	12,046	45,611
152.61	12,058	45,731
152.62	12,070	45,852
152.63	12,083	45,973
152.64	12,095	46,093
152.65	12,107	46,215
152.66	12,120	46,336
152.67	12,132	46,457
152.68	12,144	46,578
152.69	12,157	46,700
152.70	12,169	46,821
152.71	12,182	46,943
152.72	12,194	47,065
152.73	12,206	47,187
152.74	12,219	47,309
152.75	12,231	47,431
152.76	12,243	47,554
152.77	12,256	47,676
152.78	12,268	47,799
152.79	12,280	47,922
152.80	12,293	48,045
152.81	12,305	48,168
152.82	12,318	48,291
152.83	12,330	48,414
152.84	12,342	48,537
152.85	12,355	48,661
152.86	12,367	48,784
152.87	12,379	48,908
152.88	12,392	49,032
152.89	12,404	49,156
152.90	12,416	49,280
152.91	12,429	49,404
152.92	12,441	49,529
152.93	12,453	49,653
152.94	12,466	49,778
152.95	12,478	49,902
152.96	12,491	50,027
152.97	12,503	50,152
152.98	12,515	50,277
152.99	12,528	50,402
153.00	12,540	50,528

Summary for Pond B-23: Basin #23

Inflow Area = 2.449 ac, 33.56% Impervious, Inflow Depth = 3.26" for Current 10 yr event
 Inflow = 8.21 cfs @ 12.17 hrs, Volume= 0.665 af
 Outflow = 2.85 cfs @ 12.44 hrs, Volume= 0.579 af, Atten= 65%, Lag= 16.0 min
 Primary = 2.85 cfs @ 12.44 hrs, Volume= 0.579 af
 Routed to Link PDA-2 : Proposed Drainage Area #2

Routing by Stor-Ind method, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 Peak Elev= 146.82' @ 12.44 hrs Surf.Area= 7,409 sf Storage= 13,681 cf

Plug-Flow detention time= 288.9 min calculated for 0.578 af (87% of inflow)
 Center-of-Mass det. time= 227.4 min (1,025.2 - 797.8)

Volume	Invert	Avail.Storage	Storage Description
#1	144.30'	23,175 cf	Custom Stage Data (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
144.30	0	0	0
145.00	5,512	1,929	1,929
146.00	6,527	6,020	7,949
147.00	7,599	7,063	15,012
148.00	8,727	8,163	23,175

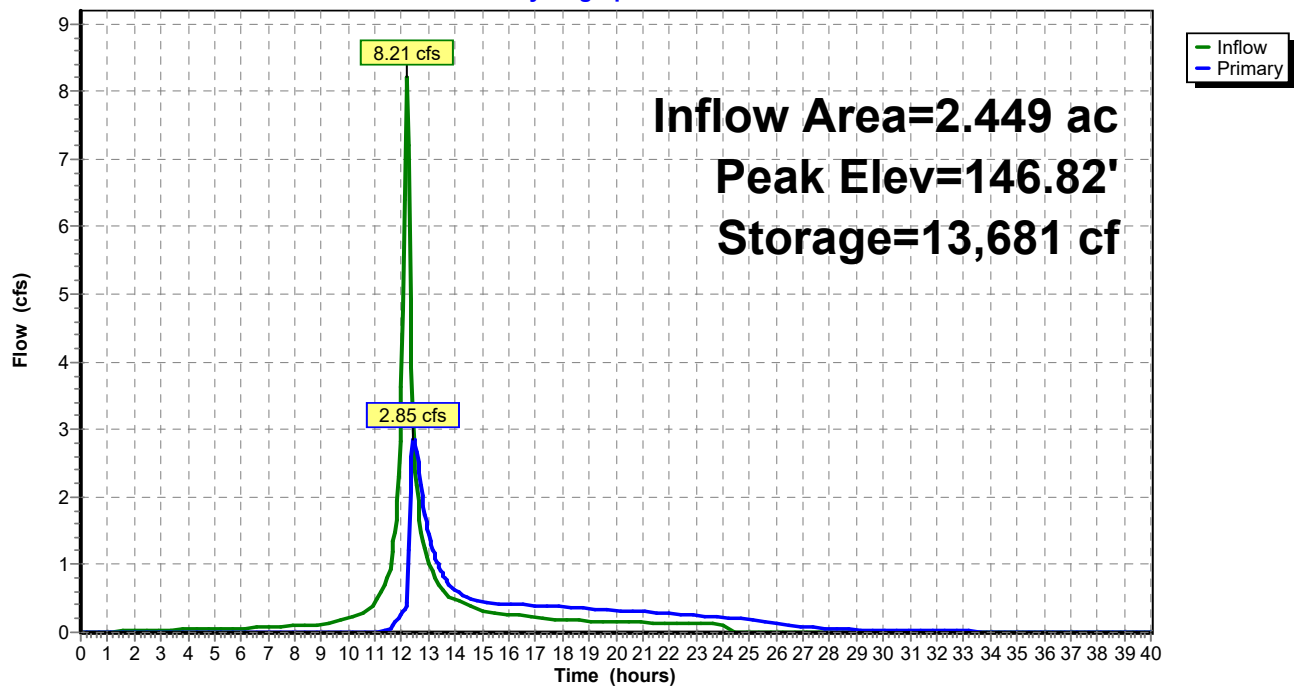
Device	Routing	Invert	Outlet Devices
#1	Primary	144.30'	18.0" Round Culvert L= 45.0' Ke= 0.500 Inlet / Outlet Invert= 144.30' / 141.44' S= 0.0636 '/' Cc= 0.900 n= 0.013, Flow Area= 1.77 sf
#2	Device 1	145.28'	4.0" Vert. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#3	Device 1	146.50'	4.0' long Sharp-Crested Rectangular Weir 2 End Contraction(s)
#4	Primary	147.95'	50.0' long + 3.0 '/' SideZ x 5.0' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 Coef. (English) 2.34 2.50 2.70 2.68 2.68 2.66 2.65 2.65 2.65 2.65 2.67 2.66 2.68 2.70 2.74 2.79 2.88

Primary OutFlow Max=2.84 cfs @ 12.44 hrs HW=146.82' (Free Discharge)

1=Culvert (Passes 2.84 cfs of 11.33 cfs potential flow)
 2=Orifice/Grate (Orifice Controls 0.49 cfs @ 5.65 fps)
 3=Sharp-Crested Rectangular Weir (Weir Controls 2.35 cfs @ 1.86 fps)
 4=Broad-Crested Rectangular Weir (Controls 0.00 cfs)

Pond B-23: Basin #23

Hydrograph



Stage-Discharge for Pond B-23: Basin #23

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
144.30	0.00	144.82	0.00	145.34	0.01	145.86	0.27
144.31	0.00	144.83	0.00	145.35	0.01	145.87	0.27
144.32	0.00	144.84	0.00	145.36	0.02	145.88	0.28
144.33	0.00	144.85	0.00	145.37	0.02	145.89	0.28
144.34	0.00	144.86	0.00	145.38	0.02	145.90	0.28
144.35	0.00	144.87	0.00	145.39	0.03	145.91	0.29
144.36	0.00	144.88	0.00	145.40	0.03	145.92	0.29
144.37	0.00	144.89	0.00	145.41	0.04	145.93	0.29
144.38	0.00	144.90	0.00	145.42	0.04	145.94	0.30
144.39	0.00	144.91	0.00	145.43	0.05	145.95	0.30
144.40	0.00	144.92	0.00	145.44	0.06	145.96	0.30
144.41	0.00	144.93	0.00	145.45	0.06	145.97	0.30
144.42	0.00	144.94	0.00	145.46	0.07	145.98	0.31
144.43	0.00	144.95	0.00	145.47	0.08	145.99	0.31
144.44	0.00	144.96	0.00	145.48	0.08	146.00	0.31
144.45	0.00	144.97	0.00	145.49	0.09	146.01	0.32
144.46	0.00	144.98	0.00	145.50	0.10	146.02	0.32
144.47	0.00	144.99	0.00	145.51	0.10	146.03	0.32
144.48	0.00	145.00	0.00	145.52	0.11	146.04	0.32
144.49	0.00	145.01	0.00	145.53	0.12	146.05	0.33
144.50	0.00	145.02	0.00	145.54	0.13	146.06	0.33
144.51	0.00	145.03	0.00	145.55	0.13	146.07	0.33
144.52	0.00	145.04	0.00	145.56	0.14	146.08	0.33
144.53	0.00	145.05	0.00	145.57	0.15	146.09	0.34
144.54	0.00	145.06	0.00	145.58	0.15	146.10	0.34
144.55	0.00	145.07	0.00	145.59	0.16	146.11	0.34
144.56	0.00	145.08	0.00	145.60	0.17	146.12	0.34
144.57	0.00	145.09	0.00	145.61	0.17	146.13	0.35
144.58	0.00	145.10	0.00	145.62	0.17	146.14	0.35
144.59	0.00	145.11	0.00	145.63	0.18	146.15	0.35
144.60	0.00	145.12	0.00	145.64	0.18	146.16	0.35
144.61	0.00	145.13	0.00	145.65	0.19	146.17	0.36
144.62	0.00	145.14	0.00	145.66	0.19	146.18	0.36
144.63	0.00	145.15	0.00	145.67	0.20	146.19	0.36
144.64	0.00	145.16	0.00	145.68	0.20	146.20	0.36
144.65	0.00	145.17	0.00	145.69	0.21	146.21	0.37
144.66	0.00	145.18	0.00	145.70	0.21	146.22	0.37
144.67	0.00	145.19	0.00	145.71	0.22	146.23	0.37
144.68	0.00	145.20	0.00	145.72	0.22	146.24	0.37
144.69	0.00	145.21	0.00	145.73	0.22	146.25	0.38
144.70	0.00	145.22	0.00	145.74	0.23	146.26	0.38
144.71	0.00	145.23	0.00	145.75	0.23	146.27	0.38
144.72	0.00	145.24	0.00	145.76	0.24	146.28	0.38
144.73	0.00	145.25	0.00	145.77	0.24	146.29	0.39
144.74	0.00	145.26	0.00	145.78	0.24	146.30	0.39
144.75	0.00	145.27	0.00	145.79	0.25	146.31	0.39
144.76	0.00	145.28	0.00	145.80	0.25	146.32	0.39
144.77	0.00	145.29	0.00	145.81	0.25	146.33	0.39
144.78	0.00	145.30	0.00	145.82	0.26	146.34	0.40
144.79	0.00	145.31	0.00	145.83	0.26	146.35	0.40
144.80	0.00	145.32	0.00	145.84	0.26	146.36	0.40
144.81	0.00	145.33	0.01	145.85	0.27	146.37	0.40

Stage-Discharge for Pond B-23: Basin #23 (continued)

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
146.38	0.41	146.90	3.75	147.42	11.60	147.94	14.46
146.39	0.41	146.91	3.87	147.43	11.78	147.95	14.49
146.40	0.41	146.92	4.00	147.44	11.95	147.96	14.63
146.41	0.41	146.93	4.12	147.45	12.13	147.97	14.87
146.42	0.41	146.94	4.25	147.46	12.31	147.98	15.17
146.43	0.42	146.95	4.37	147.47	12.49	147.99	15.53
146.44	0.42	146.96	4.50	147.48	12.67	148.00	15.93
146.45	0.42	146.97	4.63	147.49	12.85		
146.46	0.42	146.98	4.77	147.50	13.03		
146.47	0.43	146.99	4.90	147.51	13.21		
146.48	0.43	147.00	5.03	147.52	13.37		
146.49	0.43	147.01	5.17	147.53	13.40		
146.50	0.43	147.02	5.30	147.54	13.43		
146.51	0.45	147.03	5.44	147.55	13.45		
146.52	0.47	147.04	5.58	147.56	13.48		
146.53	0.51	147.05	5.72	147.57	13.51		
146.54	0.54	147.06	5.86	147.58	13.53		
146.55	0.59	147.07	6.00	147.59	13.56		
146.56	0.64	147.08	6.15	147.60	13.59		
146.57	0.69	147.09	6.29	147.61	13.61		
146.58	0.74	147.10	6.44	147.62	13.64		
146.59	0.80	147.11	6.58	147.63	13.67		
146.60	0.86	147.12	6.73	147.64	13.69		
146.61	0.93	147.13	6.88	147.65	13.72		
146.62	1.00	147.14	7.03	147.66	13.75		
146.63	1.07	147.15	7.18	147.67	13.77		
146.64	1.14	147.16	7.33	147.68	13.80		
146.65	1.22	147.17	7.48	147.69	13.83		
146.66	1.29	147.18	7.64	147.70	13.85		
146.67	1.37	147.19	7.79	147.71	13.88		
146.68	1.46	147.20	7.95	147.72	13.90		
146.69	1.54	147.21	8.11	147.73	13.93		
146.70	1.63	147.22	8.26	147.74	13.96		
146.71	1.72	147.23	8.42	147.75	13.98		
146.72	1.81	147.24	8.58	147.76	14.01		
146.73	1.90	147.25	8.74	147.77	14.03		
146.74	2.00	147.26	8.90	147.78	14.06		
146.75	2.09	147.27	9.06	147.79	14.08		
146.76	2.19	147.28	9.23	147.80	14.11		
146.77	2.29	147.29	9.39	147.81	14.14		
146.78	2.40	147.30	9.56	147.82	14.16		
146.79	2.50	147.31	9.72	147.83	14.19		
146.80	2.61	147.32	9.89	147.84	14.21		
146.81	2.71	147.33	10.06	147.85	14.24		
146.82	2.82	147.34	10.23	147.86	14.26		
146.83	2.93	147.35	10.39	147.87	14.29		
146.84	3.05	147.36	10.56	147.88	14.31		
146.85	3.16	147.37	10.74	147.89	14.34		
146.86	3.27	147.38	10.91	147.90	14.36		
146.87	3.39	147.39	11.08	147.91	14.39		
146.88	3.51	147.40	11.25	147.92	14.41		
146.89	3.63	147.41	11.43	147.93	14.44		

Stage-Area-Storage for Pond B-23: Basin #23

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
144.30	0	0	144.82	4,095	1,065
144.31	79	0	144.83	4,173	1,106
144.32	157	2	144.84	4,252	1,148
144.33	236	4	144.85	4,331	1,191
144.34	315	6	144.86	4,410	1,235
144.35	394	10	144.87	4,488	1,279
144.36	472	14	144.88	4,567	1,324
144.37	551	19	144.89	4,646	1,371
144.38	630	25	144.90	4,725	1,417
144.39	709	32	144.91	4,803	1,465
144.40	787	39	144.92	4,882	1,513
144.41	866	48	144.93	4,961	1,563
144.42	945	57	144.94	5,040	1,613
144.43	1,024	67	144.95	5,118	1,663
144.44	1,102	77	144.96	5,197	1,715
144.45	1,181	89	144.97	5,276	1,767
144.46	1,260	101	144.98	5,355	1,821
144.47	1,339	114	144.99	5,433	1,874
144.48	1,417	128	145.00	5,512	1,929
144.49	1,496	142	145.01	5,522	1,984
144.50	1,575	157	145.02	5,532	2,040
144.51	1,654	174	145.03	5,542	2,095
144.52	1,732	191	145.04	5,553	2,150
144.53	1,811	208	145.05	5,563	2,206
144.54	1,890	227	145.06	5,573	2,262
144.55	1,969	246	145.07	5,583	2,318
144.56	2,047	266	145.08	5,593	2,373
144.57	2,126	287	145.09	5,603	2,429
144.58	2,205	309	145.10	5,614	2,485
144.59	2,284	331	145.11	5,624	2,542
144.60	2,362	354	145.12	5,634	2,598
144.61	2,441	378	145.13	5,644	2,654
144.62	2,520	403	145.14	5,654	2,711
144.63	2,599	429	145.15	5,664	2,767
144.64	2,677	455	145.16	5,674	2,824
144.65	2,756	482	145.17	5,685	2,881
144.66	2,835	510	145.18	5,695	2,938
144.67	2,913	539	145.19	5,705	2,995
144.68	2,992	569	145.20	5,715	3,052
144.69	3,071	599	145.21	5,725	3,109
144.70	3,150	630	145.22	5,735	3,166
144.71	3,228	662	145.23	5,745	3,224
144.72	3,307	695	145.24	5,756	3,281
144.73	3,386	728	145.25	5,766	3,339
144.74	3,465	762	145.26	5,776	3,397
144.75	3,543	797	145.27	5,786	3,454
144.76	3,622	833	145.28	5,796	3,512
144.77	3,701	870	145.29	5,806	3,570
144.78	3,780	907	145.30	5,817	3,628
144.79	3,858	945	145.31	5,827	3,687
144.80	3,937	984	145.32	5,837	3,745
144.81	4,016	1,024	145.33	5,847	3,803

Stage-Area-Storage for Pond B-23: Basin #23 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
145.34	5,857	3,862	145.86	6,385	7,045
145.35	5,867	3,921	145.87	6,395	7,109
145.36	5,877	3,979	145.88	6,405	7,173
145.37	5,888	4,038	145.89	6,415	7,237
145.38	5,898	4,097	145.90	6,426	7,301
145.39	5,908	4,156	145.91	6,436	7,365
145.40	5,918	4,215	145.92	6,446	7,430
145.41	5,928	4,274	145.93	6,456	7,494
145.42	5,938	4,334	145.94	6,466	7,559
145.43	5,948	4,393	145.95	6,476	7,624
145.44	5,959	4,453	145.96	6,486	7,688
145.45	5,969	4,512	145.97	6,497	7,753
145.46	5,979	4,572	145.98	6,507	7,818
145.47	5,989	4,632	145.99	6,517	7,883
145.48	5,999	4,692	146.00	6,527	7,949
145.49	6,009	4,752	146.01	6,538	8,014
145.50	6,020	4,812	146.02	6,548	8,079
145.51	6,030	4,872	146.03	6,559	8,145
145.52	6,040	4,933	146.04	6,570	8,211
145.53	6,050	4,993	146.05	6,581	8,276
145.54	6,060	5,054	146.06	6,591	8,342
145.55	6,070	5,114	146.07	6,602	8,408
145.56	6,080	5,175	146.08	6,613	8,474
145.57	6,091	5,236	146.09	6,623	8,540
145.58	6,101	5,297	146.10	6,634	8,607
145.59	6,111	5,358	146.11	6,645	8,673
145.60	6,121	5,419	146.12	6,656	8,740
145.61	6,131	5,480	146.13	6,666	8,806
145.62	6,141	5,542	146.14	6,677	8,873
145.63	6,151	5,603	146.15	6,688	8,940
145.64	6,162	5,665	146.16	6,699	9,007
145.65	6,172	5,726	146.17	6,709	9,074
145.66	6,182	5,788	146.18	6,720	9,141
145.67	6,192	5,850	146.19	6,731	9,208
145.68	6,202	5,912	146.20	6,741	9,276
145.69	6,212	5,974	146.21	6,752	9,343
145.70	6,223	6,036	146.22	6,763	9,411
145.71	6,233	6,099	146.23	6,774	9,478
145.72	6,243	6,161	146.24	6,784	9,546
145.73	6,253	6,223	146.25	6,795	9,614
145.74	6,263	6,286	146.26	6,806	9,682
145.75	6,273	6,349	146.27	6,816	9,750
145.76	6,283	6,411	146.28	6,827	9,818
145.77	6,294	6,474	146.29	6,838	9,887
145.78	6,304	6,537	146.30	6,849	9,955
145.79	6,314	6,600	146.31	6,859	10,024
145.80	6,324	6,664	146.32	6,870	10,092
145.81	6,334	6,727	146.33	6,881	10,161
145.82	6,344	6,790	146.34	6,891	10,230
145.83	6,354	6,854	146.35	6,902	10,299
145.84	6,365	6,917	146.36	6,913	10,368
145.85	6,375	6,981	146.37	6,924	10,437

Stage-Area-Storage for Pond B-23: Basin #23 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
146.38	6,934	10,506	146.90	7,492	14,257
146.39	6,945	10,576	146.91	7,503	14,332
146.40	6,956	10,645	146.92	7,513	14,407
146.41	6,967	10,715	146.93	7,524	14,482
146.42	6,977	10,785	146.94	7,535	14,558
146.43	6,988	10,854	146.95	7,545	14,633
146.44	6,999	10,924	146.96	7,556	14,709
146.45	7,009	10,994	146.97	7,567	14,784
146.46	7,020	11,065	146.98	7,578	14,860
146.47	7,031	11,135	146.99	7,588	14,936
146.48	7,042	11,205	147.00	7,599	15,012
146.49	7,052	11,276	147.01	7,610	15,088
146.50	7,063	11,346	147.02	7,622	15,164
146.51	7,074	11,417	147.03	7,633	15,240
146.52	7,084	11,488	147.04	7,644	15,317
146.53	7,095	11,559	147.05	7,655	15,393
146.54	7,106	11,630	147.06	7,667	15,470
146.55	7,117	11,701	147.07	7,678	15,546
146.56	7,127	11,772	147.08	7,689	15,623
146.57	7,138	11,843	147.09	7,701	15,700
146.58	7,149	11,915	147.10	7,712	15,777
146.59	7,159	11,986	147.11	7,723	15,854
146.60	7,170	12,058	147.12	7,734	15,932
146.61	7,181	12,130	147.13	7,746	16,009
146.62	7,192	12,201	147.14	7,757	16,087
146.63	7,202	12,273	147.15	7,768	16,164
146.64	7,213	12,346	147.16	7,779	16,242
146.65	7,224	12,418	147.17	7,791	16,320
146.66	7,235	12,490	147.18	7,802	16,398
146.67	7,245	12,562	147.19	7,813	16,476
146.68	7,256	12,635	147.20	7,825	16,554
146.69	7,267	12,708	147.21	7,836	16,632
146.70	7,277	12,780	147.22	7,847	16,711
146.71	7,288	12,853	147.23	7,858	16,789
146.72	7,299	12,926	147.24	7,870	16,868
146.73	7,310	12,999	147.25	7,881	16,947
146.74	7,320	13,072	147.26	7,892	17,026
146.75	7,331	13,145	147.27	7,904	17,105
146.76	7,342	13,219	147.28	7,915	17,184
146.77	7,352	13,292	147.29	7,926	17,263
146.78	7,363	13,366	147.30	7,937	17,342
146.79	7,374	13,440	147.31	7,949	17,422
146.80	7,385	13,513	147.32	7,960	17,501
146.81	7,395	13,587	147.33	7,971	17,581
146.82	7,406	13,661	147.34	7,983	17,661
146.83	7,417	13,735	147.35	7,994	17,740
146.84	7,427	13,810	147.36	8,005	17,820
146.85	7,438	13,884	147.37	8,016	17,901
146.86	7,449	13,958	147.38	8,028	17,981
146.87	7,460	14,033	147.39	8,039	18,061
146.88	7,470	14,108	147.40	8,050	18,142
146.89	7,481	14,182	147.41	8,061	18,222

Stage-Area-Storage for Pond B-23: Basin #23 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
147.42	8,073	18,303	147.94	8,659	22,653
147.43	8,084	18,384	147.95	8,671	22,740
147.44	8,095	18,464	147.96	8,682	22,827
147.45	8,107	18,545	147.97	8,693	22,913
147.46	8,118	18,627	147.98	8,704	23,000
147.47	8,129	18,708	147.99	8,716	23,087
147.48	8,140	18,789	148.00	8,727	23,175
147.49	8,152	18,871			
147.50	8,163	18,952			
147.51	8,174	19,034			
147.52	8,186	19,116			
147.53	8,197	19,198			
147.54	8,208	19,280			
147.55	8,219	19,362			
147.56	8,231	19,444			
147.57	8,242	19,526			
147.58	8,253	19,609			
147.59	8,265	19,691			
147.60	8,276	19,774			
147.61	8,287	19,857			
147.62	8,298	19,940			
147.63	8,310	20,023			
147.64	8,321	20,106			
147.65	8,332	20,189			
147.66	8,343	20,273			
147.67	8,355	20,356			
147.68	8,366	20,440			
147.69	8,377	20,524			
147.70	8,389	20,607			
147.71	8,400	20,691			
147.72	8,411	20,775			
147.73	8,422	20,860			
147.74	8,434	20,944			
147.75	8,445	21,028			
147.76	8,456	21,113			
147.77	8,468	21,197			
147.78	8,479	21,282			
147.79	8,490	21,367			
147.80	8,501	21,452			
147.81	8,513	21,537			
147.82	8,524	21,622			
147.83	8,535	21,707			
147.84	8,547	21,793			
147.85	8,558	21,878			
147.86	8,569	21,964			
147.87	8,580	22,050			
147.88	8,592	22,136			
147.89	8,603	22,222			
147.90	8,614	22,308			
147.91	8,625	22,394			
147.92	8,637	22,480			
147.93	8,648	22,567			

Summary for Pond B-24: Basin #24

Inflow Area = 2.408 ac, 37.46% Impervious, Inflow Depth = 3.35" for Current 10 yr event
 Inflow = 8.25 cfs @ 12.17 hrs, Volume= 0.672 af
 Outflow = 2.27 cfs @ 12.53 hrs, Volume= 0.578 af, Atten= 72%, Lag= 21.1 min
 Primary = 2.27 cfs @ 12.53 hrs, Volume= 0.578 af
 Routed to Link PDA-2 : Proposed Drainage Area #2

Routing by Stor-Ind method, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 Peak Elev= 146.50' @ 12.53 hrs Surf.Area= 8,836 sf Storage= 14,651 cf

Plug-Flow detention time= 278.3 min calculated for 0.577 af (86% of inflow)
 Center-of-Mass det. time= 213.1 min (1,007.0 - 793.9)

Volume	Invert	Avail.Storage	Storage Description
#1	144.30'	40,061 cf	Custom Stage Data (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
144.30	0	0	0
145.00	7,331	2,566	2,566
146.00	8,327	7,829	10,395
147.00	9,353	8,840	19,235
148.00	10,406	9,880	29,114
149.00	11,488	10,947	40,061

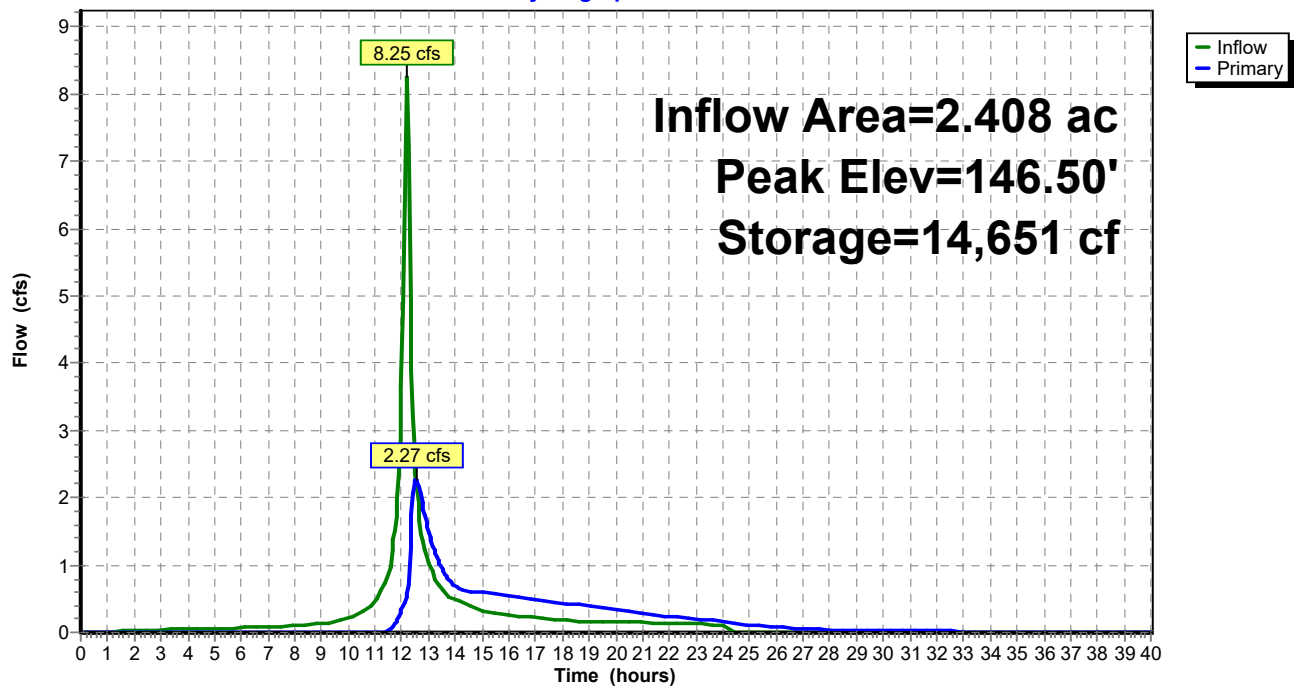
Device	Routing	Invert	Outlet Devices
#1	Primary	144.30'	18.0" Round Culvert L= 22.0' Ke= 0.500 Inlet / Outlet Invert= 144.30' / 143.04' S= 0.0573 '/' Cc= 0.900 n= 0.013, Flow Area= 1.77 sf
#2	Device 1	145.17'	5.0" Vert. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#3	Device 1	146.25'	4.0' long Sharp-Crested Rectangular Weir 2 End Contraction(s)
#4	Primary	147.99'	50.0' long + 3.0 ' SideZ x 5.0' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 Coef. (English) 2.34 2.50 2.70 2.68 2.68 2.66 2.65 2.65 2.65 2.65 2.67 2.66 2.68 2.70 2.74 2.79 2.88

Primary OutFlow Max=2.27 cfs @ 12.53 hrs HW=146.50' (Free Discharge)

1=Culvert (Passes 2.27 cfs of 10.23 cfs potential flow)
 2=Orifice/Grate (Orifice Controls 0.69 cfs @ 5.09 fps)
 3=Sharp-Crested Rectangular Weir (Weir Controls 1.57 cfs @ 1.62 fps)
 4=Broad-Crested Rectangular Weir (Controls 0.00 cfs)

Pond B-24: Basin #24

Hydrograph



Stage-Discharge for Pond B-24: Basin #24

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
144.30	0.00	144.82	0.00	145.34	0.07	145.86	0.46
144.31	0.00	144.83	0.00	145.35	0.08	145.87	0.46
144.32	0.00	144.84	0.00	145.36	0.09	145.88	0.47
144.33	0.00	144.85	0.00	145.37	0.10	145.89	0.47
144.34	0.00	144.86	0.00	145.38	0.11	145.90	0.47
144.35	0.00	144.87	0.00	145.39	0.12	145.91	0.48
144.36	0.00	144.88	0.00	145.40	0.13	145.92	0.48
144.37	0.00	144.89	0.00	145.41	0.14	145.93	0.49
144.38	0.00	144.90	0.00	145.42	0.15	145.94	0.49
144.39	0.00	144.91	0.00	145.43	0.16	145.95	0.50
144.40	0.00	144.92	0.00	145.44	0.17	145.96	0.50
144.41	0.00	144.93	0.00	145.45	0.18	145.97	0.51
144.42	0.00	144.94	0.00	145.46	0.19	145.98	0.51
144.43	0.00	144.95	0.00	145.47	0.20	145.99	0.51
144.44	0.00	144.96	0.00	145.48	0.21	146.00	0.52
144.45	0.00	144.97	0.00	145.49	0.22	146.01	0.52
144.46	0.00	144.98	0.00	145.50	0.23	146.02	0.53
144.47	0.00	144.99	0.00	145.51	0.24	146.03	0.53
144.48	0.00	145.00	0.00	145.52	0.25	146.04	0.53
144.49	0.00	145.01	0.00	145.53	0.26	146.05	0.54
144.50	0.00	145.02	0.00	145.54	0.27	146.06	0.54
144.51	0.00	145.03	0.00	145.55	0.27	146.07	0.55
144.52	0.00	145.04	0.00	145.56	0.28	146.08	0.55
144.53	0.00	145.05	0.00	145.57	0.29	146.09	0.55
144.54	0.00	145.06	0.00	145.58	0.30	146.10	0.56
144.55	0.00	145.07	0.00	145.59	0.30	146.11	0.56
144.56	0.00	145.08	0.00	145.60	0.31	146.12	0.57
144.57	0.00	145.09	0.00	145.61	0.32	146.13	0.57
144.58	0.00	145.10	0.00	145.62	0.32	146.14	0.57
144.59	0.00	145.11	0.00	145.63	0.33	146.15	0.58
144.60	0.00	145.12	0.00	145.64	0.34	146.16	0.58
144.61	0.00	145.13	0.00	145.65	0.34	146.17	0.58
144.62	0.00	145.14	0.00	145.66	0.35	146.18	0.59
144.63	0.00	145.15	0.00	145.67	0.35	146.19	0.59
144.64	0.00	145.16	0.00	145.68	0.36	146.20	0.60
144.65	0.00	145.17	0.00	145.69	0.37	146.21	0.60
144.66	0.00	145.18	0.00	145.70	0.37	146.22	0.60
144.67	0.00	145.19	0.00	145.71	0.38	146.23	0.61
144.68	0.00	145.20	0.00	145.72	0.38	146.24	0.61
144.69	0.00	145.21	0.00	145.73	0.39	146.25	0.61
144.70	0.00	145.22	0.01	145.74	0.39	146.26	0.63
144.71	0.00	145.23	0.01	145.75	0.40	146.27	0.66
144.72	0.00	145.24	0.01	145.76	0.41	146.28	0.69
144.73	0.00	145.25	0.02	145.77	0.41	146.29	0.73
144.74	0.00	145.26	0.02	145.78	0.42	146.30	0.78
144.75	0.00	145.27	0.03	145.79	0.42	146.31	0.83
144.76	0.00	145.28	0.03	145.80	0.43	146.32	0.88
144.77	0.00	145.29	0.04	145.81	0.43	146.33	0.94
144.78	0.00	145.30	0.04	145.82	0.44	146.34	1.00
144.79	0.00	145.31	0.05	145.83	0.44	146.35	1.06
144.80	0.00	145.32	0.06	145.84	0.45	146.36	1.13
144.81	0.00	145.33	0.07	145.85	0.45	146.37	1.19

Stage-Discharge for Pond B-24: Basin #24 (continued)

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
146.38	1.27	146.90	7.44	147.42	13.10	147.94	14.46
146.39	1.34	146.91	7.59	147.43	13.13	147.95	14.49
146.40	1.42	146.92	7.75	147.44	13.15	147.96	14.51
146.41	1.50	146.93	7.90	147.45	13.18	147.97	14.54
146.42	1.58	146.94	8.06	147.46	13.21	147.98	14.56
146.43	1.66	146.95	8.22	147.47	13.24	147.99	14.59
146.44	1.75	146.96	8.37	147.48	13.26	148.00	14.73
146.45	1.84	146.97	8.53	147.49	13.29	148.01	14.97
146.46	1.93	146.98	8.69	147.50	13.32	148.02	15.27
146.47	2.02	146.99	8.85	147.51	13.35	148.03	15.63
146.48	2.12	147.00	9.01	147.52	13.37	148.04	16.02
146.49	2.21	147.01	9.18	147.53	13.40	148.05	16.46
146.50	2.31	147.02	9.34	147.54	13.43	148.06	16.94
146.51	2.41	147.03	9.50	147.55	13.45	148.07	17.44
146.52	2.51	147.04	9.67	147.56	13.48	148.08	17.98
146.53	2.62	147.05	9.83	147.57	13.51	148.09	18.55
146.54	2.72	147.06	10.00	147.58	13.53	148.10	19.15
146.55	2.83	147.07	10.17	147.59	13.56	148.11	19.78
146.56	2.94	147.08	10.34	147.60	13.59	148.12	20.43
146.57	3.05	147.09	10.51	147.61	13.61	148.13	21.10
146.58	3.16	147.10	10.68	147.62	13.64	148.14	21.80
146.59	3.27	147.11	10.85	147.63	13.67	148.15	22.53
146.60	3.39	147.12	11.02	147.64	13.69	148.16	23.27
146.61	3.50	147.13	11.19	147.65	13.72	148.17	24.04
146.62	3.62	147.14	11.36	147.66	13.75	148.18	24.83
146.63	3.74	147.15	11.54	147.67	13.77	148.19	25.64
146.64	3.86	147.16	11.71	147.68	13.80	148.20	26.51
146.65	3.98	147.17	11.89	147.69	13.83	148.21	27.41
146.66	4.11	147.18	12.07	147.70	13.85	148.22	28.33
146.67	4.23	147.19	12.24	147.71	13.88	148.23	29.28
146.68	4.36	147.20	12.42	147.72	13.90	148.24	30.25
146.69	4.49	147.21	12.51	147.73	13.93	148.25	31.25
146.70	4.61	147.22	12.53	147.74	13.96	148.26	32.27
146.71	4.74	147.23	12.56	147.75	13.98	148.27	33.32
146.72	4.88	147.24	12.59	147.76	14.01	148.28	34.39
146.73	5.01	147.25	12.62	147.77	14.03	148.29	35.48
146.74	5.14	147.26	12.65	147.78	14.06	148.30	36.60
146.75	5.28	147.27	12.68	147.79	14.08	148.31	37.75
146.76	5.41	147.28	12.71	147.80	14.11	148.32	38.92
146.77	5.55	147.29	12.73	147.81	14.14	148.33	40.11
146.78	5.69	147.30	12.76	147.82	14.16	148.34	41.33
146.79	5.83	147.31	12.79	147.83	14.19	148.35	42.57
146.80	5.97	147.32	12.82	147.84	14.21	148.36	43.84
146.81	6.11	147.33	12.85	147.85	14.24	148.37	45.13
146.82	6.26	147.34	12.88	147.86	14.26	148.38	46.44
146.83	6.40	147.35	12.90	147.87	14.29	148.39	47.78
146.84	6.55	147.36	12.93	147.88	14.31	148.40	49.17
146.85	6.69	147.37	12.96	147.89	14.34	148.41	50.58
146.86	6.84	147.38	12.99	147.90	14.36	148.42	52.03
146.87	6.99	147.39	13.02	147.91	14.39	148.43	53.49
146.88	7.14	147.40	13.04	147.92	14.41	148.44	54.99
146.89	7.29	147.41	13.07	147.93	14.44	148.45	56.51

Stage-Discharge for Pond B-24: Basin #24 (continued)

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
148.46	58.05	148.98	155.14
148.47	59.62	148.99	157.32
148.48	61.22	149.00	159.47
148.49	62.85		
148.50	64.50		
148.51	66.18		
148.52	67.88		
148.53	69.61		
148.54	71.37		
148.55	73.15		
148.56	74.96		
148.57	76.80		
148.58	78.67		
148.59	80.56		
148.60	82.21		
148.61	83.87		
148.62	85.55		
148.63	87.24		
148.64	88.94		
148.65	90.66		
148.66	92.39		
148.67	94.13		
148.68	95.88		
148.69	97.65		
148.70	99.43		
148.71	101.23		
148.72	103.03		
148.73	104.85		
148.74	106.68		
148.75	108.53		
148.76	110.38		
148.77	112.25		
148.78	114.13		
148.79	116.02		
148.80	117.96		
148.81	119.92		
148.82	121.88		
148.83	123.87		
148.84	125.86		
148.85	127.87		
148.86	129.89		
148.87	131.92		
148.88	133.97		
148.89	136.03		
148.90	138.10		
148.91	140.18		
148.92	142.28		
148.93	144.39		
148.94	146.52		
148.95	148.65		
148.96	150.80		
148.97	152.96		

Stage-Area-Storage for Pond B-24: Basin #24

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
144.30	0	0	144.82	5,446	1,416
144.31	105	1	144.83	5,551	1,471
144.32	209	2	144.84	5,655	1,527
144.33	314	5	144.85	5,760	1,584
144.34	419	8	144.86	5,865	1,642
144.35	524	13	144.87	5,970	1,701
144.36	628	19	144.88	6,074	1,762
144.37	733	26	144.89	6,179	1,823
144.38	838	34	144.90	6,284	1,885
144.39	943	42	144.91	6,388	1,948
144.40	1,047	52	144.92	6,493	2,013
144.41	1,152	63	144.93	6,598	2,078
144.42	1,257	75	144.94	6,703	2,145
144.43	1,361	88	144.95	6,807	2,212
144.44	1,466	103	144.96	6,912	2,281
144.45	1,571	118	144.97	7,017	2,351
144.46	1,676	134	144.98	7,122	2,421
144.47	1,780	151	144.99	7,226	2,493
144.48	1,885	170	145.00	7,331	2,566
144.49	1,990	189	145.01	7,341	2,639
144.50	2,095	209	145.02	7,351	2,713
144.51	2,199	231	145.03	7,361	2,786
144.52	2,304	253	145.04	7,371	2,860
144.53	2,409	277	145.05	7,381	2,934
144.54	2,513	302	145.06	7,391	3,008
144.55	2,618	327	145.07	7,401	3,081
144.56	2,723	354	145.08	7,411	3,156
144.57	2,828	382	145.09	7,421	3,230
144.58	2,932	411	145.10	7,431	3,304
144.59	3,037	440	145.11	7,441	3,378
144.60	3,142	471	145.12	7,451	3,453
144.61	3,247	503	145.13	7,460	3,527
144.62	3,351	536	145.14	7,470	3,602
144.63	3,456	570	145.15	7,480	3,677
144.64	3,561	605	145.16	7,490	3,752
144.65	3,666	641	145.17	7,500	3,827
144.66	3,770	679	145.18	7,510	3,902
144.67	3,875	717	145.19	7,520	3,977
144.68	3,980	756	145.20	7,530	4,052
144.69	4,084	796	145.21	7,540	4,127
144.70	4,189	838	145.22	7,550	4,203
144.71	4,294	880	145.23	7,560	4,278
144.72	4,399	924	145.24	7,570	4,354
144.73	4,503	968	145.25	7,580	4,430
144.74	4,608	1,014	145.26	7,590	4,506
144.75	4,713	1,060	145.27	7,600	4,582
144.76	4,818	1,108	145.28	7,610	4,658
144.77	4,922	1,157	145.29	7,620	4,734
144.78	5,027	1,206	145.30	7,630	4,810
144.79	5,132	1,257	145.31	7,640	4,886
144.80	5,236	1,309	145.32	7,650	4,963
144.81	5,341	1,362	145.33	7,660	5,039

Stage-Area-Storage for Pond B-24: Basin #24 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
145.34	7,670	5,116	145.86	8,188	9,239
145.35	7,680	5,193	145.87	8,198	9,321
145.36	7,690	5,270	145.88	8,207	9,403
145.37	7,700	5,346	145.89	8,217	9,485
145.38	7,709	5,424	145.90	8,227	9,567
145.39	7,719	5,501	145.91	8,237	9,649
145.40	7,729	5,578	145.92	8,247	9,732
145.41	7,739	5,655	145.93	8,257	9,814
145.42	7,749	5,733	145.94	8,267	9,897
145.43	7,759	5,810	145.95	8,277	9,980
145.44	7,769	5,888	145.96	8,287	10,063
145.45	7,779	5,966	145.97	8,297	10,145
145.46	7,789	6,043	145.98	8,307	10,229
145.47	7,799	6,121	145.99	8,317	10,312
145.48	7,809	6,199	146.00	8,327	10,395
145.49	7,819	6,278	146.01	8,337	10,478
145.50	7,829	6,356	146.02	8,348	10,562
145.51	7,839	6,434	146.03	8,358	10,645
145.52	7,849	6,513	146.04	8,368	10,729
145.53	7,859	6,591	146.05	8,378	10,812
145.54	7,869	6,670	146.06	8,389	10,896
145.55	7,879	6,749	146.07	8,399	10,980
145.56	7,889	6,827	146.08	8,409	11,064
145.57	7,899	6,906	146.09	8,419	11,148
145.58	7,909	6,985	146.10	8,430	11,233
145.59	7,919	7,064	146.11	8,440	11,317
145.60	7,929	7,144	146.12	8,450	11,401
145.61	7,939	7,223	146.13	8,460	11,486
145.62	7,949	7,303	146.14	8,471	11,571
145.63	7,958	7,382	146.15	8,481	11,655
145.64	7,968	7,462	146.16	8,491	11,740
145.65	7,978	7,541	146.17	8,501	11,825
145.66	7,988	7,621	146.18	8,512	11,910
145.67	7,998	7,701	146.19	8,522	11,995
145.68	8,008	7,781	146.20	8,532	12,081
145.69	8,018	7,861	146.21	8,542	12,166
145.70	8,028	7,942	146.22	8,553	12,252
145.71	8,038	8,022	146.23	8,563	12,337
145.72	8,048	8,102	146.24	8,573	12,423
145.73	8,058	8,183	146.25	8,584	12,509
145.74	8,068	8,263	146.26	8,594	12,595
145.75	8,078	8,344	146.27	8,604	12,681
145.76	8,088	8,425	146.28	8,614	12,767
145.77	8,098	8,506	146.29	8,625	12,853
145.78	8,108	8,587	146.30	8,635	12,939
145.79	8,118	8,668	146.31	8,645	13,026
145.80	8,128	8,749	146.32	8,655	13,112
145.81	8,138	8,831	146.33	8,666	13,199
145.82	8,148	8,912	146.34	8,676	13,285
145.83	8,158	8,994	146.35	8,686	13,372
145.84	8,168	9,075	146.36	8,696	13,459
145.85	8,178	9,157	146.37	8,707	13,546

Stage-Area-Storage for Pond B-24: Basin #24 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
146.38	8,717	13,633	146.90	9,250	18,305
146.39	8,727	13,720	146.91	9,261	18,397
146.40	8,737	13,808	146.92	9,271	18,490
146.41	8,748	13,895	146.93	9,281	18,583
146.42	8,758	13,983	146.94	9,291	18,676
146.43	8,768	14,070	146.95	9,302	18,768
146.44	8,778	14,158	146.96	9,312	18,862
146.45	8,789	14,246	146.97	9,322	18,955
146.46	8,799	14,334	146.98	9,332	19,048
146.47	8,809	14,422	146.99	9,343	19,141
146.48	8,819	14,510	147.00	9,353	19,235
146.49	8,830	14,598	147.01	9,364	19,328
146.50	8,840	14,687	147.02	9,374	19,422
146.51	8,850	14,775	147.03	9,385	19,516
146.52	8,861	14,864	147.04	9,395	19,610
146.53	8,871	14,952	147.05	9,406	19,704
146.54	8,881	15,041	147.06	9,416	19,798
146.55	8,891	15,130	147.07	9,427	19,892
146.56	8,902	15,219	147.08	9,437	19,986
146.57	8,912	15,308	147.09	9,448	20,081
146.58	8,922	15,397	147.10	9,458	20,175
146.59	8,932	15,486	147.11	9,469	20,270
146.60	8,943	15,576	147.12	9,479	20,365
146.61	8,953	15,665	147.13	9,490	20,460
146.62	8,963	15,755	147.14	9,500	20,555
146.63	8,973	15,844	147.15	9,511	20,650
146.64	8,984	15,934	147.16	9,521	20,745
146.65	8,994	16,024	147.17	9,532	20,840
146.66	9,004	16,114	147.18	9,543	20,935
146.67	9,014	16,204	147.19	9,553	21,031
146.68	9,025	16,294	147.20	9,564	21,127
146.69	9,035	16,385	147.21	9,574	21,222
146.70	9,045	16,475	147.22	9,585	21,318
146.71	9,055	16,566	147.23	9,595	21,414
146.72	9,066	16,656	147.24	9,606	21,510
146.73	9,076	16,747	147.25	9,616	21,606
146.74	9,086	16,838	147.26	9,627	21,702
146.75	9,097	16,929	147.27	9,637	21,799
146.76	9,107	17,020	147.28	9,648	21,895
146.77	9,117	17,111	147.29	9,658	21,991
146.78	9,127	17,202	147.30	9,669	22,088
146.79	9,138	17,293	147.31	9,679	22,185
146.80	9,148	17,385	147.32	9,690	22,282
146.81	9,158	17,476	147.33	9,700	22,379
146.82	9,168	17,568	147.34	9,711	22,476
146.83	9,179	17,660	147.35	9,722	22,573
146.84	9,189	17,752	147.36	9,732	22,670
146.85	9,199	17,843	147.37	9,743	22,768
146.86	9,209	17,935	147.38	9,753	22,865
146.87	9,220	18,028	147.39	9,764	22,963
146.88	9,230	18,120	147.40	9,774	23,060
146.89	9,240	18,212	147.41	9,785	23,158

Stage-Area-Storage for Pond B-24: Basin #24 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
147.42	9,795	23,256	147.94	10,343	28,492
147.43	9,806	23,354	147.95	10,353	28,595
147.44	9,816	23,452	147.96	10,364	28,699
147.45	9,827	23,550	147.97	10,374	28,803
147.46	9,837	23,649	147.98	10,385	28,906
147.47	9,848	23,747	147.99	10,395	29,010
147.48	9,858	23,846	148.00	10,406	29,114
147.49	9,869	23,944	148.01	10,417	29,218
147.50	9,880	24,043	148.02	10,428	29,323
147.51	9,890	24,142	148.03	10,438	29,427
147.52	9,901	24,241	148.04	10,449	29,531
147.53	9,911	24,340	148.05	10,460	29,636
147.54	9,922	24,439	148.06	10,471	29,741
147.55	9,932	24,538	148.07	10,482	29,845
147.56	9,943	24,638	148.08	10,493	29,950
147.57	9,953	24,737	148.09	10,503	30,055
147.58	9,964	24,837	148.10	10,514	30,160
147.59	9,974	24,936	148.11	10,525	30,266
147.60	9,985	25,036	148.12	10,536	30,371
147.61	9,995	25,136	148.13	10,547	30,476
147.62	10,006	25,236	148.14	10,557	30,582
147.63	10,016	25,336	148.15	10,568	30,687
147.64	10,027	25,436	148.16	10,579	30,793
147.65	10,037	25,537	148.17	10,590	30,899
147.66	10,048	25,637	148.18	10,601	31,005
147.67	10,059	25,738	148.19	10,612	31,111
147.68	10,069	25,838	148.20	10,622	31,217
147.69	10,080	25,939	148.21	10,633	31,323
147.70	10,090	26,040	148.22	10,644	31,430
147.71	10,101	26,141	148.23	10,655	31,536
147.72	10,111	26,242	148.24	10,666	31,643
147.73	10,122	26,343	148.25	10,677	31,750
147.74	10,132	26,444	148.26	10,687	31,856
147.75	10,143	26,546	148.27	10,698	31,963
147.76	10,153	26,647	148.28	10,709	32,070
147.77	10,164	26,749	148.29	10,720	32,178
147.78	10,174	26,851	148.30	10,731	32,285
147.79	10,185	26,952	148.31	10,741	32,392
147.80	10,195	27,054	148.32	10,752	32,500
147.81	10,206	27,156	148.33	10,763	32,607
147.82	10,216	27,258	148.34	10,774	32,715
147.83	10,227	27,361	148.35	10,785	32,823
147.84	10,238	27,463	148.36	10,796	32,931
147.85	10,248	27,565	148.37	10,806	33,039
147.86	10,259	27,668	148.38	10,817	33,147
147.87	10,269	27,770	148.39	10,828	33,255
147.88	10,280	27,873	148.40	10,839	33,363
147.89	10,290	27,976	148.41	10,850	33,472
147.90	10,301	28,079	148.42	10,860	33,580
147.91	10,311	28,182	148.43	10,871	33,689
147.92	10,322	28,285	148.44	10,882	33,798
147.93	10,332	28,389	148.45	10,893	33,907

Stage-Area-Storage for Pond B-24: Basin #24 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
148.46	10,904	34,016	148.98	11,466	39,832
148.47	10,915	34,125	148.99	11,477	39,947
148.48	10,925	34,234	149.00	11,488	40,061
148.49	10,936	34,343			
148.50	10,947	34,453			
148.51	10,958	34,562			
148.52	10,969	34,672			
148.53	10,979	34,781			
148.54	10,990	34,891			
148.55	11,001	35,001			
148.56	11,012	35,111			
148.57	11,023	35,222			
148.58	11,034	35,332			
148.59	11,044	35,442			
148.60	11,055	35,553			
148.61	11,066	35,663			
148.62	11,077	35,774			
148.63	11,088	35,885			
148.64	11,098	35,996			
148.65	11,109	36,107			
148.66	11,120	36,218			
148.67	11,131	36,329			
148.68	11,142	36,441			
148.69	11,153	36,552			
148.70	11,163	36,664			
148.71	11,174	36,775			
148.72	11,185	36,887			
148.73	11,196	36,999			
148.74	11,207	37,111			
148.75	11,218	37,223			
148.76	11,228	37,335			
148.77	11,239	37,448			
148.78	11,250	37,560			
148.79	11,261	37,673			
148.80	11,272	37,785			
148.81	11,282	37,898			
148.82	11,293	38,011			
148.83	11,304	38,124			
148.84	11,315	38,237			
148.85	11,326	38,350			
148.86	11,337	38,464			
148.87	11,347	38,577			
148.88	11,358	38,691			
148.89	11,369	38,804			
148.90	11,380	38,918			
148.91	11,391	39,032			
148.92	11,401	39,146			
148.93	11,412	39,260			
148.94	11,423	39,374			
148.95	11,434	39,488			
148.96	11,445	39,603			
148.97	11,456	39,717			

Summary for Pond B-25: Basin #25

Inflow Area = 2.500 ac, 34.96% Impervious, Inflow Depth = 3.29" for Current 10 yr event
 Inflow = 8.45 cfs @ 12.17 hrs, Volume= 0.685 af
 Outflow = 2.67 cfs @ 12.47 hrs, Volume= 0.597 af, Atten= 68%, Lag= 17.8 min
 Primary = 2.67 cfs @ 12.47 hrs, Volume= 0.597 af
 Routed to Link PDA-2 : Proposed Drainage Area #2

Routing by Stor-Ind method, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 Peak Elev= 146.24' @ 12.47 hrs Surf.Area= 6,714 sf Storage= 14,390 cf

Plug-Flow detention time= 263.4 min calculated for 0.597 af (87% of inflow)
 Center-of-Mass det. time= 201.0 min (997.4 - 796.3)

Volume	Invert	Avail.Storage	Storage Description
#1	143.30'	36,587 cf	Custom Stage Data (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
143.30	0	0	0
144.00	4,702	1,646	1,646
145.00	5,584	5,143	6,789
146.00	6,492	6,038	12,827
147.00	7,428	6,960	19,787
148.00	8,393	7,911	27,697
149.00	9,386	8,890	36,587

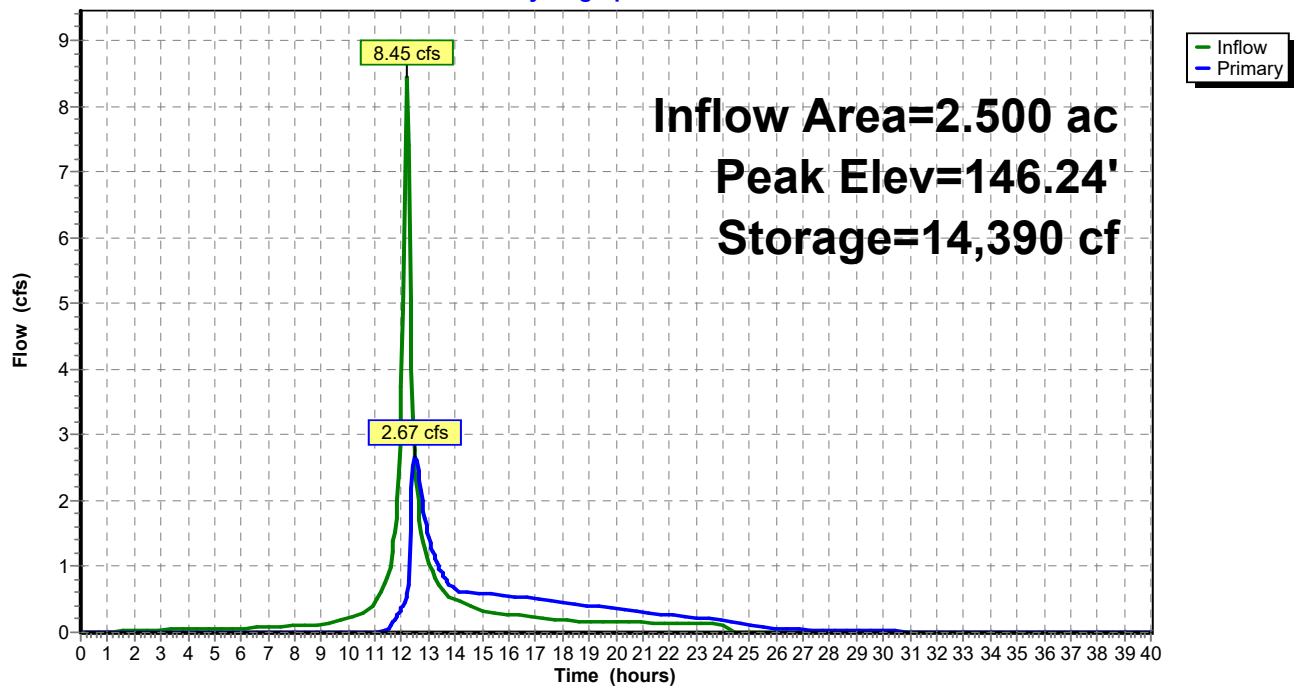
Device	Routing	Invert	Outlet Devices
#1	Primary	143.30'	18.0" Round Culvert L= 186.0' Ke= 0.500 Inlet / Outlet Invert= 143.30' / 142.00' S= 0.0070 '/' Cc= 0.900 n= 0.013, Flow Area= 1.77 sf
#2	Device 1	144.42'	4.5" Vert. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#3	Device 1	145.95'	4.0' long Sharp-Crested Rectangular Weir 2 End Contraction(s)
#4	Primary	147.96'	50.0' long + 3.0 '/' SideZ x 5.0' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 Coef. (English) 2.34 2.50 2.70 2.68 2.68 2.66 2.65 2.65 2.65 2.65 2.67 2.66 2.68 2.70 2.74 2.79 2.88

Primary OutFlow Max=2.64 cfs @ 12.47 hrs HW=146.24' (Free Discharge)

1=Culvert (Passes 2.64 cfs of 10.59 cfs potential flow)
 2=Orifice/Grate (Orifice Controls 0.68 cfs @ 6.14 fps)
 3=Sharp-Crested Rectangular Weir (Weir Controls 1.96 cfs @ 1.75 fps)
 4=Broad-Crested Rectangular Weir (Controls 0.00 cfs)

Pond B-25: Basin #25

Hydrograph



Stage-Discharge for Pond B-25: Basin #25

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
143.30	0.00	143.82	0.00	144.34	0.00	144.86	0.27
143.31	0.00	143.83	0.00	144.35	0.00	144.87	0.27
143.32	0.00	143.84	0.00	144.36	0.00	144.88	0.28
143.33	0.00	143.85	0.00	144.37	0.00	144.89	0.28
143.34	0.00	143.86	0.00	144.38	0.00	144.90	0.29
143.35	0.00	143.87	0.00	144.39	0.00	144.91	0.29
143.36	0.00	143.88	0.00	144.40	0.00	144.92	0.30
143.37	0.00	143.89	0.00	144.41	0.00	144.93	0.30
143.38	0.00	143.90	0.00	144.42	0.00	144.94	0.31
143.39	0.00	143.91	0.00	144.43	0.00	144.95	0.31
143.40	0.00	143.92	0.00	144.44	0.00	144.96	0.32
143.41	0.00	143.93	0.00	144.45	0.00	144.97	0.32
143.42	0.00	143.94	0.00	144.46	0.00	144.98	0.32
143.43	0.00	143.95	0.00	144.47	0.01	144.99	0.33
143.44	0.00	143.96	0.00	144.48	0.01	145.00	0.33
143.45	0.00	143.97	0.00	144.49	0.01	145.01	0.34
143.46	0.00	143.98	0.00	144.50	0.02	145.02	0.34
143.47	0.00	143.99	0.00	144.51	0.02	145.03	0.35
143.48	0.00	144.00	0.00	144.52	0.03	145.04	0.35
143.49	0.00	144.01	0.00	144.53	0.03	145.05	0.35
143.50	0.00	144.02	0.00	144.54	0.04	145.06	0.36
143.51	0.00	144.03	0.00	144.55	0.04	145.07	0.36
143.52	0.00	144.04	0.00	144.56	0.05	145.08	0.37
143.53	0.00	144.05	0.00	144.57	0.05	145.09	0.37
143.54	0.00	144.06	0.00	144.58	0.06	145.10	0.37
143.55	0.00	144.07	0.00	144.59	0.07	145.11	0.38
143.56	0.00	144.08	0.00	144.60	0.08	145.12	0.38
143.57	0.00	144.09	0.00	144.61	0.08	145.13	0.38
143.58	0.00	144.10	0.00	144.62	0.09	145.14	0.39
143.59	0.00	144.11	0.00	144.63	0.10	145.15	0.39
143.60	0.00	144.12	0.00	144.64	0.11	145.16	0.40
143.61	0.00	144.13	0.00	144.65	0.12	145.17	0.40
143.62	0.00	144.14	0.00	144.66	0.12	145.18	0.40
143.63	0.00	144.15	0.00	144.67	0.13	145.19	0.41
143.64	0.00	144.16	0.00	144.68	0.14	145.20	0.41
143.65	0.00	144.17	0.00	144.69	0.15	145.21	0.41
143.66	0.00	144.18	0.00	144.70	0.16	145.22	0.42
143.67	0.00	144.19	0.00	144.71	0.17	145.23	0.42
143.68	0.00	144.20	0.00	144.72	0.18	145.24	0.42
143.69	0.00	144.21	0.00	144.73	0.19	145.25	0.43
143.70	0.00	144.22	0.00	144.74	0.19	145.26	0.43
143.71	0.00	144.23	0.00	144.75	0.20	145.27	0.43
143.72	0.00	144.24	0.00	144.76	0.21	145.28	0.44
143.73	0.00	144.25	0.00	144.77	0.22	145.29	0.44
143.74	0.00	144.26	0.00	144.78	0.22	145.30	0.44
143.75	0.00	144.27	0.00	144.79	0.23	145.31	0.45
143.76	0.00	144.28	0.00	144.80	0.23	145.32	0.45
143.77	0.00	144.29	0.00	144.81	0.24	145.33	0.45
143.78	0.00	144.30	0.00	144.82	0.25	145.34	0.46
143.79	0.00	144.31	0.00	144.83	0.25	145.35	0.46
143.80	0.00	144.32	0.00	144.84	0.26	145.36	0.46
143.81	0.00	144.33	0.00	144.85	0.26	145.37	0.46

Stage-Discharge for Pond B-25: Basin #25 (continued)

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
145.38	0.47	145.90	0.60	146.42	4.83	146.94	11.88
145.39	0.47	145.91	0.61	146.43	4.96	146.95	11.90
145.40	0.47	145.92	0.61	146.44	5.10	146.96	11.91
145.41	0.48	145.93	0.61	146.45	5.23	146.97	11.93
145.42	0.48	145.94	0.61	146.46	5.37	146.98	11.95
145.43	0.48	145.95	0.62	146.47	5.50	146.99	11.97
145.44	0.49	145.96	0.63	146.48	5.64	147.00	11.98
145.45	0.49	145.97	0.66	146.49	5.78	147.01	12.00
145.46	0.49	145.98	0.69	146.50	5.92	147.02	12.02
145.47	0.49	145.99	0.73	146.51	6.06	147.03	12.03
145.48	0.50	146.00	0.77	146.52	6.20	147.04	12.05
145.49	0.50	146.01	0.82	146.53	6.35	147.05	12.07
145.50	0.50	146.02	0.87	146.54	6.49	147.06	12.09
145.51	0.51	146.03	0.93	146.55	6.64	147.07	12.10
145.52	0.51	146.04	0.99	146.56	6.78	147.08	12.12
145.53	0.51	146.05	1.05	146.57	6.93	147.09	12.14
145.54	0.51	146.06	1.12	146.58	7.08	147.10	12.15
145.55	0.52	146.07	1.18	146.59	7.23	147.11	12.17
145.56	0.52	146.08	1.25	146.60	7.38	147.12	12.19
145.57	0.52	146.09	1.33	146.61	7.53	147.13	12.20
145.58	0.52	146.10	1.40	146.62	7.69	147.14	12.22
145.59	0.53	146.11	1.48	146.63	7.84	147.15	12.24
145.60	0.53	146.12	1.56	146.64	8.00	147.16	12.25
145.61	0.53	146.13	1.65	146.65	8.15	147.17	12.27
145.62	0.54	146.14	1.73	146.66	8.31	147.18	12.29
145.63	0.54	146.15	1.82	146.67	8.47	147.19	12.30
145.64	0.54	146.16	1.91	146.68	8.63	147.20	12.32
145.65	0.54	146.17	2.00	146.69	8.79	147.21	12.34
145.66	0.55	146.18	2.09	146.70	8.95	147.22	12.35
145.67	0.55	146.19	2.19	146.71	9.11	147.23	12.37
145.68	0.55	146.20	2.29	146.72	9.27	147.24	12.39
145.69	0.55	146.21	2.38	146.73	9.43	147.25	12.40
145.70	0.56	146.22	2.49	146.74	9.60	147.26	12.42
145.71	0.56	146.23	2.59	146.75	9.76	147.27	12.44
145.72	0.56	146.24	2.69	146.76	9.93	147.28	12.45
145.73	0.56	146.25	2.80	146.77	10.10	147.29	12.47
145.74	0.57	146.26	2.91	146.78	10.26	147.30	12.49
145.75	0.57	146.27	3.02	146.79	10.43	147.31	12.50
145.76	0.57	146.28	3.13	146.80	10.60	147.32	12.52
145.77	0.57	146.29	3.24	146.81	10.77	147.33	12.54
145.78	0.58	146.30	3.35	146.82	10.94	147.34	12.55
145.79	0.58	146.31	3.47	146.83	11.12	147.35	12.57
145.80	0.58	146.32	3.59	146.84	11.29	147.36	12.58
145.81	0.58	146.33	3.70	146.85	11.46	147.37	12.60
145.82	0.59	146.34	3.82	146.86	11.64	147.38	12.62
145.83	0.59	146.35	3.94	146.87	11.76	147.39	12.63
145.84	0.59	146.36	4.07	146.88	11.78	147.40	12.65
145.85	0.59	146.37	4.19	146.89	11.79	147.41	12.67
145.86	0.60	146.38	4.32	146.90	11.81	147.42	12.68
145.87	0.60	146.39	4.44	146.91	11.83	147.43	12.70
145.88	0.60	146.40	4.57	146.92	11.85	147.44	12.71
145.89	0.60	146.41	4.70	146.93	11.86	147.45	12.73

Stage-Discharge for Pond B-25: Basin #25 (continued)

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
147.46	12.75	147.98	13.89	148.50	68.06
147.47	12.76	147.99	14.18	148.51	69.81
147.48	12.78	148.00	14.53	148.52	71.59
147.49	12.79	148.01	14.91	148.53	73.39
147.50	12.81	148.02	15.34	148.54	75.22
147.51	12.83	148.03	15.81	148.55	77.07
147.52	12.84	148.04	16.31	148.56	78.96
147.53	12.86	148.05	16.84	148.57	80.60
147.54	12.87	148.06	17.40	148.58	82.25
147.55	12.89	148.07	17.98	148.59	83.92
147.56	12.91	148.08	18.60	148.60	85.60
147.57	12.92	148.09	19.24	148.61	87.30
147.58	12.94	148.10	19.91	148.62	89.01
147.59	12.95	148.11	20.60	148.63	90.73
147.60	12.97	148.12	21.31	148.64	92.46
147.61	12.99	148.13	22.05	148.65	94.21
147.62	13.00	148.14	22.81	148.66	95.97
147.63	13.02	148.15	23.59	148.67	97.74
147.64	13.03	148.16	24.39	148.68	99.53
147.65	13.05	148.17	25.25	148.69	101.32
147.66	13.06	148.18	26.14	148.70	103.13
147.67	13.08	148.19	27.05	148.71	104.96
147.68	13.10	148.20	27.99	148.72	106.79
147.69	13.11	148.21	28.95	148.73	108.64
147.70	13.13	148.22	29.94	148.74	110.50
147.71	13.14	148.23	30.96	148.75	112.37
147.72	13.16	148.24	31.99	148.76	114.26
147.73	13.17	148.25	33.06	148.77	116.19
147.74	13.19	148.26	34.14	148.78	118.14
147.75	13.21	148.27	35.26	148.79	120.10
147.76	13.22	148.28	36.39	148.80	122.07
147.77	13.24	148.29	37.55	148.81	124.06
147.78	13.25	148.30	38.74	148.82	126.05
147.79	13.27	148.31	39.94	148.83	128.07
147.80	13.28	148.32	41.18	148.84	130.09
147.81	13.30	148.33	42.43	148.85	132.13
147.82	13.31	148.34	43.72	148.86	134.18
147.83	13.33	148.35	45.02	148.87	136.25
147.84	13.34	148.36	46.35	148.88	138.33
147.85	13.36	148.37	47.73	148.89	140.42
147.86	13.37	148.38	49.14	148.90	142.52
147.87	13.39	148.39	50.57	148.91	144.63
147.88	13.41	148.40	52.03	148.92	146.76
147.89	13.42	148.41	53.51	148.93	148.90
147.90	13.44	148.42	55.02	148.94	151.06
147.91	13.45	148.43	56.56	148.95	153.22
147.92	13.47	148.44	58.12	148.96	155.40
147.93	13.48	148.45	59.71	148.97	157.54
147.94	13.50	148.46	61.33	148.98	159.69
147.95	13.51	148.47	62.97	148.99	161.84
147.96	13.53	148.48	64.64	149.00	164.01
147.97	13.66	148.49	66.34		

Stage-Area-Storage for Pond B-25: Basin #25

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
143.30	0	0	143.82	3,493	908
143.31	67	0	143.83	3,560	943
143.32	134	1	143.84	3,627	979
143.33	202	3	143.85	3,694	1,016
143.34	269	5	143.86	3,762	1,053
143.35	336	8	143.87	3,829	1,091
143.36	403	12	143.88	3,896	1,130
143.37	470	16	143.89	3,963	1,169
143.38	537	21	143.90	4,030	1,209
143.39	605	27	143.91	4,097	1,250
143.40	672	34	143.92	4,165	1,291
143.41	739	41	143.93	4,232	1,333
143.42	806	48	143.94	4,299	1,376
143.43	873	57	143.95	4,366	1,419
143.44	940	66	143.96	4,433	1,463
143.45	1,008	76	143.97	4,500	1,508
143.46	1,075	86	143.98	4,568	1,553
143.47	1,142	97	143.99	4,635	1,599
143.48	1,209	109	144.00	4,702	1,646
143.49	1,276	121	144.01	4,711	1,693
143.50	1,343	134	144.02	4,720	1,740
143.51	1,411	148	144.03	4,728	1,787
143.52	1,478	163	144.04	4,737	1,834
143.53	1,545	178	144.05	4,746	1,882
143.54	1,612	193	144.06	4,755	1,929
143.55	1,679	210	144.07	4,764	1,977
143.56	1,746	227	144.08	4,773	2,025
143.57	1,814	245	144.09	4,781	2,072
143.58	1,881	263	144.10	4,790	2,120
143.59	1,948	282	144.11	4,799	2,168
143.60	2,015	302	144.12	4,808	2,216
143.61	2,082	323	144.13	4,817	2,264
143.62	2,149	344	144.14	4,825	2,313
143.63	2,217	366	144.15	4,834	2,361
143.64	2,284	388	144.16	4,843	2,409
143.65	2,351	411	144.17	4,852	2,458
143.66	2,418	435	144.18	4,861	2,506
143.67	2,485	460	144.19	4,870	2,555
143.68	2,553	485	144.20	4,878	2,604
143.69	2,620	511	144.21	4,887	2,653
143.70	2,687	537	144.22	4,896	2,701
143.71	2,754	565	144.23	4,905	2,750
143.72	2,821	592	144.24	4,914	2,800
143.73	2,888	621	144.25	4,923	2,849
143.74	2,956	650	144.26	4,931	2,898
143.75	3,023	680	144.27	4,940	2,947
143.76	3,090	711	144.28	4,949	2,997
143.77	3,157	742	144.29	4,958	3,046
143.78	3,224	774	144.30	4,967	3,096
143.79	3,291	806	144.31	4,975	3,146
143.80	3,359	840	144.32	4,984	3,195
143.81	3,426	874	144.33	4,993	3,245

Stage-Area-Storage for Pond B-25: Basin #25 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
144.34	5,002	3,295	144.86	5,461	6,016
144.35	5,011	3,345	144.87	5,469	6,070
144.36	5,020	3,396	144.88	5,478	6,125
144.37	5,028	3,446	144.89	5,487	6,180
144.38	5,037	3,496	144.90	5,496	6,235
144.39	5,046	3,547	144.91	5,505	6,290
144.40	5,055	3,597	144.92	5,513	6,345
144.41	5,064	3,648	144.93	5,522	6,400
144.42	5,072	3,698	144.94	5,531	6,455
144.43	5,081	3,749	144.95	5,540	6,511
144.44	5,090	3,800	144.96	5,549	6,566
144.45	5,099	3,851	144.97	5,558	6,622
144.46	5,108	3,902	144.98	5,566	6,677
144.47	5,117	3,953	144.99	5,575	6,733
144.48	5,125	4,004	145.00	5,584	6,789
144.49	5,134	4,056	145.01	5,593	6,845
144.50	5,143	4,107	145.02	5,602	6,901
144.51	5,152	4,158	145.03	5,611	6,957
144.52	5,161	4,210	145.04	5,620	7,013
144.53	5,169	4,262	145.05	5,629	7,069
144.54	5,178	4,313	145.06	5,638	7,125
144.55	5,187	4,365	145.07	5,648	7,182
144.56	5,196	4,417	145.08	5,657	7,238
144.57	5,205	4,469	145.09	5,666	7,295
144.58	5,214	4,521	145.10	5,675	7,352
144.59	5,222	4,573	145.11	5,684	7,408
144.60	5,231	4,626	145.12	5,693	7,465
144.61	5,240	4,678	145.13	5,702	7,522
144.62	5,249	4,730	145.14	5,711	7,579
144.63	5,258	4,783	145.15	5,720	7,637
144.64	5,266	4,836	145.16	5,729	7,694
144.65	5,275	4,888	145.17	5,738	7,751
144.66	5,284	4,941	145.18	5,747	7,809
144.67	5,293	4,994	145.19	5,757	7,866
144.68	5,302	5,047	145.20	5,766	7,924
144.69	5,311	5,100	145.21	5,775	7,981
144.70	5,319	5,153	145.22	5,784	8,039
144.71	5,328	5,206	145.23	5,793	8,097
144.72	5,337	5,260	145.24	5,802	8,155
144.73	5,346	5,313	145.25	5,811	8,213
144.74	5,355	5,367	145.26	5,820	8,271
144.75	5,364	5,420	145.27	5,829	8,329
144.76	5,372	5,474	145.28	5,838	8,388
144.77	5,381	5,528	145.29	5,847	8,446
144.78	5,390	5,582	145.30	5,856	8,505
144.79	5,399	5,636	145.31	5,865	8,563
144.80	5,408	5,690	145.32	5,875	8,622
144.81	5,416	5,744	145.33	5,884	8,681
144.82	5,425	5,798	145.34	5,893	8,740
144.83	5,434	5,852	145.35	5,902	8,799
144.84	5,443	5,907	145.36	5,911	8,858
144.85	5,452	5,961	145.37	5,920	8,917

Stage-Area-Storage for Pond B-25: Basin #25 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
145.38	5,929	8,976	145.90	6,401	12,182
145.39	5,938	9,036	145.91	6,410	12,246
145.40	5,947	9,095	145.92	6,419	12,310
145.41	5,956	9,154	145.93	6,428	12,374
145.42	5,965	9,214	145.94	6,438	12,439
145.43	5,974	9,274	145.95	6,447	12,503
145.44	5,984	9,334	145.96	6,456	12,568
145.45	5,993	9,393	145.97	6,465	12,632
145.46	6,002	9,453	145.98	6,474	12,697
145.47	6,011	9,513	145.99	6,483	12,762
145.48	6,020	9,574	146.00	6,492	12,827
145.49	6,029	9,634	146.01	6,501	12,892
145.50	6,038	9,694	146.02	6,511	12,957
145.51	6,047	9,755	146.03	6,520	13,022
145.52	6,056	9,815	146.04	6,529	13,087
145.53	6,065	9,876	146.05	6,539	13,152
145.54	6,074	9,936	146.06	6,548	13,218
145.55	6,083	9,997	146.07	6,558	13,283
145.56	6,092	10,058	146.08	6,567	13,349
145.57	6,102	10,119	146.09	6,576	13,415
145.58	6,111	10,180	146.10	6,586	13,481
145.59	6,120	10,241	146.11	6,595	13,546
145.60	6,129	10,303	146.12	6,604	13,612
145.61	6,138	10,364	146.13	6,614	13,679
145.62	6,147	10,425	146.14	6,623	13,745
145.63	6,156	10,487	146.15	6,632	13,811
145.64	6,165	10,548	146.16	6,642	13,877
145.65	6,174	10,610	146.17	6,651	13,944
145.66	6,183	10,672	146.18	6,660	14,010
145.67	6,192	10,734	146.19	6,670	14,077
145.68	6,201	10,796	146.20	6,679	14,144
145.69	6,211	10,858	146.21	6,689	14,211
145.70	6,220	10,920	146.22	6,698	14,278
145.71	6,229	10,982	146.23	6,707	14,345
145.72	6,238	11,045	146.24	6,717	14,412
145.73	6,247	11,107	146.25	6,726	14,479
145.74	6,256	11,169	146.26	6,735	14,546
145.75	6,265	11,232	146.27	6,745	14,614
145.76	6,274	11,295	146.28	6,754	14,681
145.77	6,283	11,358	146.29	6,763	14,749
145.78	6,292	11,420	146.30	6,773	14,816
145.79	6,301	11,483	146.31	6,782	14,884
145.80	6,310	11,546	146.32	6,792	14,952
145.81	6,319	11,610	146.33	6,801	15,020
145.82	6,329	11,673	146.34	6,810	15,088
145.83	6,338	11,736	146.35	6,820	15,156
145.84	6,347	11,800	146.36	6,829	15,224
145.85	6,356	11,863	146.37	6,838	15,293
145.86	6,365	11,927	146.38	6,848	15,361
145.87	6,374	11,990	146.39	6,857	15,430
145.88	6,383	12,054	146.40	6,866	15,498
145.89	6,392	12,118	146.41	6,876	15,567

Stage-Area-Storage for Pond B-25: Basin #25 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
146.42	6,885	15,636	146.94	7,372	19,343
146.43	6,894	15,705	146.95	7,381	19,416
146.44	6,904	15,774	146.96	7,391	19,490
146.45	6,913	15,843	146.97	7,400	19,564
146.46	6,923	15,912	146.98	7,409	19,638
146.47	6,932	15,981	146.99	7,419	19,712
146.48	6,941	16,051	147.00	7,428	19,787
146.49	6,951	16,120	147.01	7,438	19,861
146.50	6,960	16,190	147.02	7,447	19,935
146.51	6,969	16,259	147.03	7,457	20,010
146.52	6,979	16,329	147.04	7,467	20,085
146.53	6,988	16,399	147.05	7,476	20,159
146.54	6,997	16,469	147.06	7,486	20,234
146.55	7,007	16,539	147.07	7,496	20,309
146.56	7,016	16,609	147.08	7,505	20,384
146.57	7,026	16,679	147.09	7,515	20,459
146.58	7,035	16,749	147.10	7,525	20,534
146.59	7,044	16,820	147.11	7,534	20,610
146.60	7,054	16,890	147.12	7,544	20,685
146.61	7,063	16,961	147.13	7,553	20,760
146.62	7,072	17,032	147.14	7,563	20,836
146.63	7,082	17,102	147.15	7,573	20,912
146.64	7,091	17,173	147.16	7,582	20,988
146.65	7,100	17,244	147.17	7,592	21,063
146.66	7,110	17,315	147.18	7,602	21,139
146.67	7,119	17,386	147.19	7,611	21,215
146.68	7,128	17,458	147.20	7,621	21,292
146.69	7,138	17,529	147.21	7,631	21,368
146.70	7,147	17,600	147.22	7,640	21,444
146.71	7,157	17,672	147.23	7,650	21,521
146.72	7,166	17,744	147.24	7,660	21,597
146.73	7,175	17,815	147.25	7,669	21,674
146.74	7,185	17,887	147.26	7,679	21,751
146.75	7,194	17,959	147.27	7,689	21,827
146.76	7,203	18,031	147.28	7,698	21,904
146.77	7,213	18,103	147.29	7,708	21,981
146.78	7,222	18,175	147.30	7,718	22,059
146.79	7,231	18,247	147.31	7,727	22,136
146.80	7,241	18,320	147.32	7,737	22,213
146.81	7,250	18,392	147.33	7,746	22,290
146.82	7,260	18,465	147.34	7,756	22,368
146.83	7,269	18,537	147.35	7,766	22,446
146.84	7,278	18,610	147.36	7,775	22,523
146.85	7,288	18,683	147.37	7,785	22,601
146.86	7,297	18,756	147.38	7,795	22,679
146.87	7,306	18,829	147.39	7,804	22,757
146.88	7,316	18,902	147.40	7,814	22,835
146.89	7,325	18,975	147.41	7,824	22,913
146.90	7,334	19,049	147.42	7,833	22,992
146.91	7,344	19,122	147.43	7,843	23,070
146.92	7,353	19,195	147.44	7,853	23,148
146.93	7,362	19,269	147.45	7,862	23,227

Stage-Area-Storage for Pond B-25: Basin #25 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
147.46	7,872	23,306	147.98	8,374	27,530
147.47	7,882	23,384	147.99	8,383	27,613
147.48	7,891	23,463	148.00	8,393	27,697
147.49	7,901	23,542	148.01	8,403	27,781
147.50	7,911	23,621	148.02	8,413	27,865
147.51	7,920	23,700	148.03	8,423	27,949
147.52	7,930	23,780	148.04	8,433	28,034
147.53	7,939	23,859	148.05	8,443	28,118
147.54	7,949	23,939	148.06	8,453	28,203
147.55	7,959	24,018	148.07	8,463	28,287
147.56	7,968	24,098	148.08	8,472	28,372
147.57	7,978	24,177	148.09	8,482	28,457
147.58	7,988	24,257	148.10	8,492	28,541
147.59	7,997	24,337	148.11	8,502	28,626
147.60	8,007	24,417	148.12	8,512	28,712
147.61	8,017	24,497	148.13	8,522	28,797
147.62	8,026	24,578	148.14	8,532	28,882
147.63	8,036	24,658	148.15	8,542	28,967
147.64	8,046	24,738	148.16	8,552	29,053
147.65	8,055	24,819	148.17	8,562	29,138
147.66	8,065	24,899	148.18	8,572	29,224
147.67	8,075	24,980	148.19	8,582	29,310
147.68	8,084	25,061	148.20	8,592	29,396
147.69	8,094	25,142	148.21	8,602	29,482
147.70	8,104	25,223	148.22	8,611	29,568
147.71	8,113	25,304	148.23	8,621	29,654
147.72	8,123	25,385	148.24	8,631	29,740
147.73	8,132	25,466	148.25	8,641	29,826
147.74	8,142	25,548	148.26	8,651	29,913
147.75	8,152	25,629	148.27	8,661	30,000
147.76	8,161	25,711	148.28	8,671	30,086
147.77	8,171	25,792	148.29	8,681	30,173
147.78	8,181	25,874	148.30	8,691	30,260
147.79	8,190	25,956	148.31	8,701	30,347
147.80	8,200	26,038	148.32	8,711	30,434
147.81	8,210	26,120	148.33	8,721	30,521
147.82	8,219	26,202	148.34	8,731	30,608
147.83	8,229	26,284	148.35	8,741	30,696
147.84	8,239	26,367	148.36	8,750	30,783
147.85	8,248	26,449	148.37	8,760	30,871
147.86	8,258	26,532	148.38	8,770	30,958
147.87	8,268	26,614	148.39	8,780	31,046
147.88	8,277	26,697	148.40	8,790	31,134
147.89	8,287	26,780	148.41	8,800	31,222
147.90	8,297	26,863	148.42	8,810	31,310
147.91	8,306	26,946	148.43	8,820	31,398
147.92	8,316	27,029	148.44	8,830	31,486
147.93	8,325	27,112	148.45	8,840	31,575
147.94	8,335	27,195	148.46	8,850	31,663
147.95	8,345	27,279	148.47	8,860	31,752
147.96	8,354	27,362	148.48	8,870	31,840
147.97	8,364	27,446	148.49	8,880	31,929

Stage-Area-Storage for Pond B-25: Basin #25 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
148.50	8,890	32,018
148.51	8,899	32,107
148.52	8,909	32,196
148.53	8,919	32,285
148.54	8,929	32,374
148.55	8,939	32,464
148.56	8,949	32,553
148.57	8,959	32,643
148.58	8,969	32,732
148.59	8,979	32,822
148.60	8,989	32,912
148.61	8,999	33,002
148.62	9,009	33,092
148.63	9,019	33,182
148.64	9,029	33,272
148.65	9,038	33,362
148.66	9,048	33,453
148.67	9,058	33,543
148.68	9,068	33,634
148.69	9,078	33,725
148.70	9,088	33,816
148.71	9,098	33,907
148.72	9,108	33,998
148.73	9,118	34,089
148.74	9,128	34,180
148.75	9,138	34,271
148.76	9,148	34,363
148.77	9,158	34,454
148.78	9,168	34,546
148.79	9,177	34,638
148.80	9,187	34,729
148.81	9,197	34,821
148.82	9,207	34,913
148.83	9,217	35,005
148.84	9,227	35,098
148.85	9,237	35,190
148.86	9,247	35,282
148.87	9,257	35,375
148.88	9,267	35,468
148.89	9,277	35,560
148.90	9,287	35,653
148.91	9,297	35,746
148.92	9,307	35,839
148.93	9,316	35,932
148.94	9,326	36,025
148.95	9,336	36,119
148.96	9,346	36,212
148.97	9,356	36,306
148.98	9,366	36,399
148.99	9,376	36,493
149.00	9,386	36,587

Summary for Pond B-26: Basin #26

Inflow Area = 2.366 ac, 39.90% Impervious, Inflow Depth = 3.41" for Current 10 yr event
 Inflow = 8.22 cfs @ 12.17 hrs, Volume= 0.672 af
 Outflow = 2.11 cfs @ 12.56 hrs, Volume= 0.550 af, Atten= 74%, Lag= 23.3 min
 Primary = 2.11 cfs @ 12.56 hrs, Volume= 0.550 af
 Routed to Link PDA-2 : Proposed Drainage Area #2

Routing by Stor-Ind method, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 Peak Elev= 146.28' @ 12.56 hrs Surf.Area= 6,633 sf Storage= 15,672 cf

Plug-Flow detention time= 508.0 min calculated for 0.549 af (82% of inflow)
 Center-of-Mass det. time= 430.6 min (1,222.2 - 791.6)

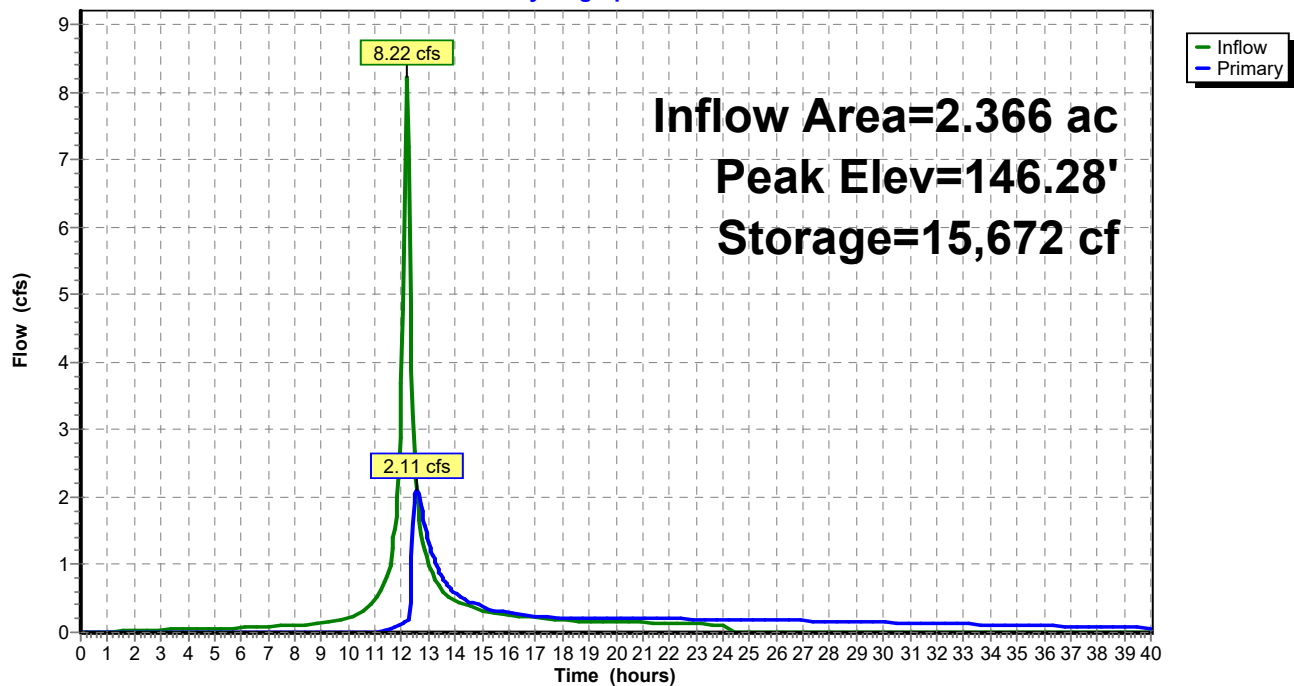
Volume	Invert	Avail.Storage	Storage Description
#1	143.30'	35,348 cf	Custom Stage Data (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
143.30	0	0	0
144.00	5,466	1,913	1,913
145.00	5,967	5,717	7,630
146.00	6,486	6,227	13,856
147.00	7,018	6,752	20,608
148.00	7,563	7,291	27,899
148.95	8,120	7,449	35,348

Device	Routing	Invert	Outlet Devices
#1	Primary	143.30'	18.0" Round Culvert L= 234.0' Ke= 0.500 Inlet / Outlet Invert= 143.30' / 142.00' S= 0.0056 '/' Cc= 0.900 n= 0.013, Flow Area= 1.77 sf
#2	Device 1	144.36'	2.5" Vert. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#3	Device 1	146.00'	4.0' long Sharp-Crested Rectangular Weir 2 End Contraction(s)
#4	Primary	148.05'	50.0' long + 3.0 '/' SideZ x 5.0' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 Coef. (English) 2.34 2.50 2.70 2.68 2.68 2.66 2.65 2.65 2.65 2.65 2.67 2.66 2.68 2.70 2.74 2.79 2.88

Primary OutFlow Max=2.09 cfs @ 12.56 hrs HW=146.28' (Free Discharge)

1=Culvert (Passes 2.09 cfs of 9.83 cfs potential flow)
 2=Orifice/Grate (Orifice Controls 0.22 cfs @ 6.48 fps)
 3=Sharp-Crested Rectangular Weir (Weir Controls 1.87 cfs @ 1.72 fps)
 4=Broad-Crested Rectangular Weir (Controls 0.00 cfs)

Pond B-26: Basin #26**Hydrograph**

Stage-Discharge for Pond B-26: Basin #26

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
143.30	0.00	143.82	0.00	144.34	0.00	144.86	0.10
143.31	0.00	143.83	0.00	144.35	0.00	144.87	0.10
143.32	0.00	143.84	0.00	144.36	0.00	144.88	0.11
143.33	0.00	143.85	0.00	144.37	0.00	144.89	0.11
143.34	0.00	143.86	0.00	144.38	0.00	144.90	0.11
143.35	0.00	143.87	0.00	144.39	0.00	144.91	0.11
143.36	0.00	143.88	0.00	144.40	0.00	144.92	0.11
143.37	0.00	143.89	0.00	144.41	0.00	144.93	0.11
143.38	0.00	143.90	0.00	144.42	0.01	144.94	0.11
143.39	0.00	143.91	0.00	144.43	0.01	144.95	0.11
143.40	0.00	143.92	0.00	144.44	0.01	144.96	0.12
143.41	0.00	143.93	0.00	144.45	0.01	144.97	0.12
143.42	0.00	143.94	0.00	144.46	0.02	144.98	0.12
143.43	0.00	143.95	0.00	144.47	0.02	144.99	0.12
143.44	0.00	143.96	0.00	144.48	0.02	145.00	0.12
143.45	0.00	143.97	0.00	144.49	0.03	145.01	0.12
143.46	0.00	143.98	0.00	144.50	0.03	145.02	0.12
143.47	0.00	143.99	0.00	144.51	0.03	145.03	0.12
143.48	0.00	144.00	0.00	144.52	0.04	145.04	0.12
143.49	0.00	144.01	0.00	144.53	0.04	145.05	0.13
143.50	0.00	144.02	0.00	144.54	0.05	145.06	0.13
143.51	0.00	144.03	0.00	144.55	0.05	145.07	0.13
143.52	0.00	144.04	0.00	144.56	0.05	145.08	0.13
143.53	0.00	144.05	0.00	144.57	0.05	145.09	0.13
143.54	0.00	144.06	0.00	144.58	0.06	145.10	0.13
143.55	0.00	144.07	0.00	144.59	0.06	145.11	0.13
143.56	0.00	144.08	0.00	144.60	0.06	145.12	0.13
143.57	0.00	144.09	0.00	144.61	0.06	145.13	0.13
143.58	0.00	144.10	0.00	144.62	0.06	145.14	0.13
143.59	0.00	144.11	0.00	144.63	0.07	145.15	0.14
143.60	0.00	144.12	0.00	144.64	0.07	145.16	0.14
143.61	0.00	144.13	0.00	144.65	0.07	145.17	0.14
143.62	0.00	144.14	0.00	144.66	0.07	145.18	0.14
143.63	0.00	144.15	0.00	144.67	0.07	145.19	0.14
143.64	0.00	144.16	0.00	144.68	0.08	145.20	0.14
143.65	0.00	144.17	0.00	144.69	0.08	145.21	0.14
143.66	0.00	144.18	0.00	144.70	0.08	145.22	0.14
143.67	0.00	144.19	0.00	144.71	0.08	145.23	0.14
143.68	0.00	144.20	0.00	144.72	0.08	145.24	0.14
143.69	0.00	144.21	0.00	144.73	0.08	145.25	0.15
143.70	0.00	144.22	0.00	144.74	0.09	145.26	0.15
143.71	0.00	144.23	0.00	144.75	0.09	145.27	0.15
143.72	0.00	144.24	0.00	144.76	0.09	145.28	0.15
143.73	0.00	144.25	0.00	144.77	0.09	145.29	0.15
143.74	0.00	144.26	0.00	144.78	0.09	145.30	0.15
143.75	0.00	144.27	0.00	144.79	0.09	145.31	0.15
143.76	0.00	144.28	0.00	144.80	0.10	145.32	0.15
143.77	0.00	144.29	0.00	144.81	0.10	145.33	0.15
143.78	0.00	144.30	0.00	144.82	0.10	145.34	0.15
143.79	0.00	144.31	0.00	144.83	0.10	145.35	0.15
143.80	0.00	144.32	0.00	144.84	0.10	145.36	0.16
143.81	0.00	144.33	0.00	144.85	0.10	145.37	0.16

Stage-Discharge for Pond B-26: Basin #26 (continued)

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
145.38	0.16	145.90	0.20	146.42	3.72	146.94	10.94
145.39	0.16	145.91	0.20	146.43	3.84	146.95	10.96
145.40	0.16	145.92	0.20	146.44	3.96	146.96	10.97
145.41	0.16	145.93	0.20	146.45	4.09	146.97	10.99
145.42	0.16	145.94	0.20	146.46	4.22	146.98	11.00
145.43	0.16	145.95	0.20	146.47	4.35	146.99	11.02
145.44	0.16	145.96	0.20	146.48	4.48	147.00	11.04
145.45	0.16	145.97	0.20	146.49	4.61	147.01	11.05
145.46	0.16	145.98	0.20	146.50	4.74	147.02	11.07
145.47	0.16	145.99	0.20	146.51	4.88	147.03	11.08
145.48	0.17	146.00	0.20	146.52	5.01	147.04	11.10
145.49	0.17	146.01	0.22	146.53	5.15	147.05	11.11
145.50	0.17	146.02	0.24	146.54	5.29	147.06	11.13
145.51	0.17	146.03	0.27	146.55	5.43	147.07	11.15
145.52	0.17	146.04	0.31	146.56	5.57	147.08	11.16
145.53	0.17	146.05	0.35	146.57	5.71	147.09	11.18
145.54	0.17	146.06	0.40	146.58	5.85	147.10	11.19
145.55	0.17	146.07	0.45	146.59	5.99	147.11	11.21
145.56	0.17	146.08	0.50	146.60	6.14	147.12	11.22
145.57	0.17	146.09	0.56	146.61	6.28	147.13	11.24
145.58	0.17	146.10	0.62	146.62	6.43	147.14	11.25
145.59	0.17	146.11	0.69	146.63	6.58	147.15	11.27
145.60	0.17	146.12	0.75	146.64	6.72	147.16	11.29
145.61	0.18	146.13	0.82	146.65	6.87	147.17	11.30
145.62	0.18	146.14	0.89	146.66	7.03	147.18	11.32
145.63	0.18	146.15	0.97	146.67	7.18	147.19	11.33
145.64	0.18	146.16	1.04	146.68	7.33	147.20	11.35
145.65	0.18	146.17	1.12	146.69	7.48	147.21	11.36
145.66	0.18	146.18	1.20	146.70	7.64	147.22	11.38
145.67	0.18	146.19	1.29	146.71	7.79	147.23	11.39
145.68	0.18	146.20	1.37	146.72	7.95	147.24	11.41
145.69	0.18	146.21	1.46	146.73	8.11	147.25	11.42
145.70	0.18	146.22	1.55	146.74	8.27	147.26	11.44
145.71	0.18	146.23	1.64	146.75	8.43	147.27	11.45
145.72	0.18	146.24	1.74	146.76	8.59	147.28	11.47
145.73	0.18	146.25	1.83	146.77	8.75	147.29	11.48
145.74	0.19	146.26	1.93	146.78	8.91	147.30	11.50
145.75	0.19	146.27	2.03	146.79	9.07	147.31	11.51
145.76	0.19	146.28	2.13	146.80	9.24	147.32	11.53
145.77	0.19	146.29	2.23	146.81	9.40	147.33	11.54
145.78	0.19	146.30	2.34	146.82	9.57	147.34	11.56
145.79	0.19	146.31	2.45	146.83	9.73	147.35	11.57
145.80	0.19	146.32	2.55	146.84	9.90	147.36	11.59
145.81	0.19	146.33	2.66	146.85	10.07	147.37	11.60
145.82	0.19	146.34	2.77	146.86	10.24	147.38	11.62
145.83	0.19	146.35	2.89	146.87	10.41	147.39	11.63
145.84	0.19	146.36	3.00	146.88	10.58	147.40	11.65
145.85	0.19	146.37	3.12	146.89	10.75	147.41	11.66
145.86	0.19	146.38	3.23	146.90	10.88	147.42	11.68
145.87	0.19	146.39	3.35	146.91	10.89	147.43	11.69
145.88	0.20	146.40	3.47	146.92	10.91	147.44	11.71
145.89	0.20	146.41	3.59	146.93	10.92	147.45	11.72

Stage-Discharge for Pond B-26: Basin #26 (continued)

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
147.46	11.74	147.98	12.49	148.50	52.51
147.47	11.75	147.99	12.50	148.51	54.02
147.48	11.77	148.00	12.51	148.52	55.56
147.49	11.78	148.01	12.53	148.53	57.12
147.50	11.80	148.02	12.54	148.54	58.71
147.51	11.81	148.03	12.56	148.55	60.32
147.52	11.83	148.04	12.57	148.56	61.96
147.53	11.84	148.05	12.58	148.57	63.63
147.54	11.86	148.06	12.71	148.58	65.33
147.55	11.87	148.07	12.94	148.59	67.05
147.56	11.89	148.08	13.23	148.60	68.79
147.57	11.90	148.09	13.58	148.61	70.57
147.58	11.92	148.10	13.96	148.62	72.37
147.59	11.93	148.11	14.39	148.63	74.20
147.60	11.94	148.12	14.85	148.64	76.05
147.61	11.96	148.13	15.35	148.65	77.94
147.62	11.97	148.14	15.88	148.66	79.58
147.63	11.99	148.15	16.44	148.67	81.23
147.64	12.00	148.16	17.03	148.68	82.90
147.65	12.02	148.17	17.64	148.69	84.58
147.66	12.03	148.18	18.28	148.70	86.27
147.67	12.05	148.19	18.95	148.71	87.98
147.68	12.06	148.20	19.63	148.72	89.70
147.69	12.07	148.21	20.35	148.73	91.43
147.70	12.09	148.22	21.08	148.74	93.18
147.71	12.10	148.23	21.84	148.75	94.93
147.72	12.12	148.24	22.62	148.76	96.71
147.73	12.13	148.25	23.42	148.77	98.49
147.74	12.15	148.26	24.28	148.78	100.29
147.75	12.16	148.27	25.17	148.79	102.10
147.76	12.18	148.28	26.08	148.80	103.92
147.77	12.19	148.29	27.02	148.81	105.75
147.78	12.20	148.30	27.98	148.82	107.60
147.79	12.22	148.31	28.96	148.83	109.46
147.80	12.23	148.32	29.98	148.84	111.33
147.81	12.25	148.33	31.01	148.85	113.21
147.82	12.26	148.34	32.07	148.86	115.14
147.83	12.27	148.35	33.16	148.87	117.09
147.84	12.29	148.36	34.27	148.88	119.05
147.85	12.30	148.37	35.40	148.89	121.02
147.86	12.32	148.38	36.56	148.90	123.00
147.87	12.33	148.39	37.75	148.91	125.00
147.88	12.35	148.40	38.95	148.92	127.01
147.89	12.36	148.41	40.19	148.93	129.04
147.90	12.37	148.42	41.44	148.94	131.07
147.91	12.39	148.43	42.72	148.95	133.12
147.92	12.40	148.44	44.03		
147.93	12.42	148.45	45.35		
147.94	12.43	148.46	46.73		
147.95	12.44	148.47	48.14		
147.96	12.46	148.48	49.57		
147.97	12.47	148.49	51.03		

Stage-Area-Storage for Pond B-26: Basin #26

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
143.30	0	0	143.82	4,060	1,056
143.31	78	0	143.83	4,139	1,097
143.32	156	2	143.84	4,217	1,138
143.33	234	4	143.85	4,295	1,181
143.34	312	6	143.86	4,373	1,224
143.35	390	10	143.87	4,451	1,269
143.36	469	14	143.88	4,529	1,313
143.37	547	19	143.89	4,607	1,359
143.38	625	25	143.90	4,685	1,406
143.39	703	32	143.91	4,763	1,453
143.40	781	39	143.92	4,841	1,501
143.41	859	47	143.93	4,919	1,550
143.42	937	56	143.94	4,997	1,599
143.43	1,015	66	143.95	5,076	1,650
143.44	1,093	77	143.96	5,154	1,701
143.45	1,171	88	143.97	5,232	1,753
143.46	1,249	100	143.98	5,310	1,805
143.47	1,327	113	143.99	5,388	1,859
143.48	1,406	126	144.00	5,466	1,913
143.49	1,484	141	144.01	5,471	1,968
143.50	1,562	156	144.02	5,476	2,023
143.51	1,640	172	144.03	5,481	2,077
143.52	1,718	189	144.04	5,486	2,132
143.53	1,796	207	144.05	5,491	2,187
143.54	1,874	225	144.06	5,496	2,242
143.55	1,952	244	144.07	5,501	2,297
143.56	2,030	264	144.08	5,506	2,352
143.57	2,108	285	144.09	5,511	2,407
143.58	2,186	306	144.10	5,516	2,462
143.59	2,264	328	144.11	5,521	2,517
143.60	2,343	351	144.12	5,526	2,573
143.61	2,421	375	144.13	5,531	2,628
143.62	2,499	400	144.14	5,536	2,683
143.63	2,577	425	144.15	5,541	2,739
143.64	2,655	451	144.16	5,546	2,794
143.65	2,733	478	144.17	5,551	2,850
143.66	2,811	506	144.18	5,556	2,905
143.67	2,889	534	144.19	5,561	2,961
143.68	2,967	564	144.20	5,566	3,016
143.69	3,045	594	144.21	5,571	3,072
143.70	3,123	625	144.22	5,576	3,128
143.71	3,202	656	144.23	5,581	3,184
143.72	3,280	689	144.24	5,586	3,239
143.73	3,358	722	144.25	5,591	3,295
143.74	3,436	756	144.26	5,596	3,351
143.75	3,514	791	144.27	5,601	3,407
143.76	3,592	826	144.28	5,606	3,463
143.77	3,670	862	144.29	5,611	3,519
143.78	3,748	900	144.30	5,616	3,575
143.79	3,826	937	144.31	5,621	3,632
143.80	3,904	976	144.32	5,626	3,688
143.81	3,982	1,016	144.33	5,631	3,744

Stage-Area-Storage for Pond B-26: Basin #26 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
144.34	5,636	3,800	144.86	5,897	6,799
144.35	5,641	3,857	144.87	5,902	6,858
144.36	5,646	3,913	144.88	5,907	6,917
144.37	5,651	3,970	144.89	5,912	6,976
144.38	5,656	4,026	144.90	5,917	7,035
144.39	5,661	4,083	144.91	5,922	7,095
144.40	5,666	4,140	144.92	5,927	7,154
144.41	5,671	4,196	144.93	5,932	7,213
144.42	5,676	4,253	144.94	5,937	7,272
144.43	5,681	4,310	144.95	5,942	7,332
144.44	5,686	4,367	144.96	5,947	7,391
144.45	5,691	4,424	144.97	5,952	7,451
144.46	5,696	4,480	144.98	5,957	7,510
144.47	5,701	4,537	144.99	5,962	7,570
144.48	5,706	4,594	145.00	5,967	7,630
144.49	5,711	4,652	145.01	5,972	7,689
144.50	5,717	4,709	145.02	5,977	7,749
144.51	5,722	4,766	145.03	5,983	7,809
144.52	5,727	4,823	145.04	5,988	7,869
144.53	5,732	4,880	145.05	5,993	7,929
144.54	5,737	4,938	145.06	5,998	7,989
144.55	5,742	4,995	145.07	6,003	8,049
144.56	5,747	5,053	145.08	6,009	8,109
144.57	5,752	5,110	145.09	6,014	8,169
144.58	5,757	5,168	145.10	6,019	8,229
144.59	5,762	5,225	145.11	6,024	8,289
144.60	5,767	5,283	145.12	6,029	8,349
144.61	5,772	5,341	145.13	6,034	8,410
144.62	5,777	5,398	145.14	6,040	8,470
144.63	5,782	5,456	145.15	6,045	8,530
144.64	5,787	5,514	145.16	6,050	8,591
144.65	5,792	5,572	145.17	6,055	8,651
144.66	5,797	5,630	145.18	6,060	8,712
144.67	5,802	5,688	145.19	6,066	8,773
144.68	5,807	5,746	145.20	6,071	8,833
144.69	5,812	5,804	145.21	6,076	8,894
144.70	5,817	5,862	145.22	6,081	8,955
144.71	5,822	5,920	145.23	6,086	9,016
144.72	5,827	5,978	145.24	6,092	9,077
144.73	5,832	6,037	145.25	6,097	9,138
144.74	5,837	6,095	145.26	6,102	9,199
144.75	5,842	6,154	145.27	6,107	9,260
144.76	5,847	6,212	145.28	6,112	9,321
144.77	5,852	6,270	145.29	6,118	9,382
144.78	5,857	6,329	145.30	6,123	9,443
144.79	5,862	6,388	145.31	6,128	9,504
144.80	5,867	6,446	145.32	6,133	9,566
144.81	5,872	6,505	145.33	6,138	9,627
144.82	5,877	6,564	145.34	6,143	9,688
144.83	5,882	6,622	145.35	6,149	9,750
144.84	5,887	6,681	145.36	6,154	9,811
144.85	5,892	6,740	145.37	6,159	9,873

Stage-Area-Storage for Pond B-26: Basin #26 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
145.38	6,164	9,935	145.90	6,434	13,210
145.39	6,169	9,996	145.91	6,439	13,274
145.40	6,175	10,058	145.92	6,444	13,339
145.41	6,180	10,120	145.93	6,450	13,403
145.42	6,185	10,182	145.94	6,455	13,468
145.43	6,190	10,243	145.95	6,460	13,532
145.44	6,195	10,305	145.96	6,465	13,597
145.45	6,201	10,367	145.97	6,470	13,662
145.46	6,206	10,429	145.98	6,476	13,726
145.47	6,211	10,491	145.99	6,481	13,791
145.48	6,216	10,554	146.00	6,486	13,856
145.49	6,221	10,616	146.01	6,491	13,921
145.50	6,227	10,678	146.02	6,497	13,986
145.51	6,232	10,740	146.03	6,502	14,051
145.52	6,237	10,803	146.04	6,507	14,116
145.53	6,242	10,865	146.05	6,513	14,181
145.54	6,247	10,927	146.06	6,518	14,246
145.55	6,252	10,990	146.07	6,523	14,311
145.56	6,258	11,052	146.08	6,529	14,377
145.57	6,263	11,115	146.09	6,534	14,442
145.58	6,268	11,178	146.10	6,539	14,507
145.59	6,273	11,240	146.11	6,545	14,573
145.60	6,278	11,303	146.12	6,550	14,638
145.61	6,284	11,366	146.13	6,555	14,704
145.62	6,289	11,429	146.14	6,560	14,769
145.63	6,294	11,492	146.15	6,566	14,835
145.64	6,299	11,555	146.16	6,571	14,901
145.65	6,304	11,618	146.17	6,576	14,966
145.66	6,310	11,681	146.18	6,582	15,032
145.67	6,315	11,744	146.19	6,587	15,098
145.68	6,320	11,807	146.20	6,592	15,164
145.69	6,325	11,870	146.21	6,598	15,230
145.70	6,330	11,934	146.22	6,603	15,296
145.71	6,335	11,997	146.23	6,608	15,362
145.72	6,341	12,060	146.24	6,614	15,428
145.73	6,346	12,124	146.25	6,619	15,494
145.74	6,351	12,187	146.26	6,624	15,560
145.75	6,356	12,251	146.27	6,630	15,627
145.76	6,361	12,314	146.28	6,635	15,693
145.77	6,367	12,378	146.29	6,640	15,759
145.78	6,372	12,442	146.30	6,646	15,826
145.79	6,377	12,505	146.31	6,651	15,892
145.80	6,382	12,569	146.32	6,656	15,959
145.81	6,387	12,633	146.33	6,662	16,025
145.82	6,393	12,697	146.34	6,667	16,092
145.83	6,398	12,761	146.35	6,672	16,159
145.84	6,403	12,825	146.36	6,678	16,226
145.85	6,408	12,889	146.37	6,683	16,292
145.86	6,413	12,953	146.38	6,688	16,359
145.87	6,419	13,017	146.39	6,693	16,426
145.88	6,424	13,082	146.40	6,699	16,493
145.89	6,429	13,146	146.41	6,704	16,560

Stage-Area-Storage for Pond B-26: Basin #26 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
146.42	6,709	16,627	146.94	6,986	20,188
146.43	6,715	16,694	146.95	6,991	20,258
146.44	6,720	16,761	146.96	6,997	20,328
146.45	6,725	16,829	146.97	7,002	20,398
146.46	6,731	16,896	146.98	7,007	20,468
146.47	6,736	16,963	146.99	7,013	20,538
146.48	6,741	17,031	147.00	7,018	20,608
146.49	6,747	17,098	147.01	7,023	20,678
146.50	6,752	17,166	147.02	7,029	20,749
146.51	6,757	17,233	147.03	7,034	20,819
146.52	6,763	17,301	147.04	7,040	20,889
146.53	6,768	17,368	147.05	7,045	20,960
146.54	6,773	17,436	147.06	7,051	21,030
146.55	6,779	17,504	147.07	7,056	21,101
146.56	6,784	17,572	147.08	7,062	21,171
146.57	6,789	17,640	147.09	7,067	21,242
146.58	6,795	17,707	147.10	7,073	21,313
146.59	6,800	17,775	147.11	7,078	21,383
146.60	6,805	17,843	147.12	7,083	21,454
146.61	6,811	17,912	147.13	7,089	21,525
146.62	6,816	17,980	147.14	7,094	21,596
146.63	6,821	18,048	147.15	7,100	21,667
146.64	6,826	18,116	147.16	7,105	21,738
146.65	6,832	18,184	147.17	7,111	21,809
146.66	6,837	18,253	147.18	7,116	21,880
146.67	6,842	18,321	147.19	7,122	21,951
146.68	6,848	18,390	147.20	7,127	22,023
146.69	6,853	18,458	147.21	7,132	22,094
146.70	6,858	18,527	147.22	7,138	22,165
146.71	6,864	18,595	147.23	7,143	22,237
146.72	6,869	18,664	147.24	7,149	22,308
146.73	6,874	18,733	147.25	7,154	22,380
146.74	6,880	18,801	147.26	7,160	22,451
146.75	6,885	18,870	147.27	7,165	22,523
146.76	6,890	18,939	147.28	7,171	22,595
146.77	6,896	19,008	147.29	7,176	22,666
146.78	6,901	19,077	147.30	7,182	22,738
146.79	6,906	19,146	147.31	7,187	22,810
146.80	6,912	19,215	147.32	7,192	22,882
146.81	6,917	19,284	147.33	7,198	22,954
146.82	6,922	19,353	147.34	7,203	23,026
146.83	6,928	19,423	147.35	7,209	23,098
146.84	6,933	19,492	147.36	7,214	23,170
146.85	6,938	19,561	147.37	7,220	23,242
146.86	6,944	19,631	147.38	7,225	23,314
146.87	6,949	19,700	147.39	7,231	23,387
146.88	6,954	19,770	147.40	7,236	23,459
146.89	6,959	19,839	147.41	7,241	23,531
146.90	6,965	19,909	147.42	7,247	23,604
146.91	6,970	19,979	147.43	7,252	23,676
146.92	6,975	20,048	147.44	7,258	23,749
146.93	6,981	20,118	147.45	7,263	23,821

Stage-Area-Storage for Pond B-26: Basin #26 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
147.46	7,269	23,894	147.98	7,552	27,747
147.47	7,274	23,967	147.99	7,558	27,823
147.48	7,280	24,040	148.00	7,563	27,899
147.49	7,285	24,112	148.01	7,569	27,974
147.50	7,291	24,185	148.02	7,575	28,050
147.51	7,296	24,258	148.03	7,581	28,126
147.52	7,301	24,331	148.04	7,586	28,202
147.53	7,307	24,404	148.05	7,592	28,277
147.54	7,312	24,477	148.06	7,598	28,353
147.55	7,318	24,550	148.07	7,604	28,429
147.56	7,323	24,624	148.08	7,610	28,506
147.57	7,329	24,697	148.09	7,616	28,582
147.58	7,334	24,770	148.10	7,622	28,658
147.59	7,340	24,844	148.11	7,627	28,734
147.60	7,345	24,917	148.12	7,633	28,810
147.61	7,350	24,990	148.13	7,639	28,887
147.62	7,356	25,064	148.14	7,645	28,963
147.63	7,361	25,138	148.15	7,651	29,040
147.64	7,367	25,211	148.16	7,657	29,116
147.65	7,372	25,285	148.17	7,663	29,193
147.66	7,378	25,359	148.18	7,669	29,269
147.67	7,383	25,432	148.19	7,674	29,346
147.68	7,389	25,506	148.20	7,680	29,423
147.69	7,394	25,580	148.21	7,686	29,500
147.70	7,400	25,654	148.22	7,692	29,577
147.71	7,405	25,728	148.23	7,698	29,654
147.72	7,410	25,802	148.24	7,704	29,731
147.73	7,416	25,876	148.25	7,710	29,808
147.74	7,421	25,951	148.26	7,715	29,885
147.75	7,427	26,025	148.27	7,721	29,962
147.76	7,432	26,099	148.28	7,727	30,039
147.77	7,438	26,174	148.29	7,733	30,117
147.78	7,443	26,248	148.30	7,739	30,194
147.79	7,449	26,322	148.31	7,745	30,271
147.80	7,454	26,397	148.32	7,751	30,349
147.81	7,459	26,471	148.33	7,756	30,426
147.82	7,465	26,546	148.34	7,762	30,504
147.83	7,470	26,621	148.35	7,768	30,582
147.84	7,476	26,695	148.36	7,774	30,659
147.85	7,481	26,770	148.37	7,780	30,737
147.86	7,487	26,845	148.38	7,786	30,815
147.87	7,492	26,920	148.39	7,792	30,893
147.88	7,498	26,995	148.40	7,798	30,971
147.89	7,503	27,070	148.41	7,803	31,049
147.90	7,509	27,145	148.42	7,809	31,127
147.91	7,514	27,220	148.43	7,815	31,205
147.92	7,519	27,295	148.44	7,821	31,283
147.93	7,525	27,371	148.45	7,827	31,361
147.94	7,530	27,446	148.46	7,833	31,440
147.95	7,536	27,521	148.47	7,839	31,518
147.96	7,541	27,597	148.48	7,844	31,596
147.97	7,547	27,672	148.49	7,850	31,675

Stage-Area-Storage for Pond B-26: Basin #26 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
148.50	7,856	31,753
148.51	7,862	31,832
148.52	7,868	31,911
148.53	7,874	31,989
148.54	7,880	32,068
148.55	7,885	32,147
148.56	7,891	32,226
148.57	7,897	32,305
148.58	7,903	32,384
148.59	7,909	32,463
148.60	7,915	32,542
148.61	7,921	32,621
148.62	7,927	32,700
148.63	7,932	32,780
148.64	7,938	32,859
148.65	7,944	32,938
148.66	7,950	33,018
148.67	7,956	33,097
148.68	7,962	33,177
148.69	7,968	33,257
148.70	7,973	33,336
148.71	7,979	33,416
148.72	7,985	33,496
148.73	7,991	33,576
148.74	7,997	33,656
148.75	8,003	33,736
148.76	8,009	33,816
148.77	8,014	33,896
148.78	8,020	33,976
148.79	8,026	34,056
148.80	8,032	34,137
148.81	8,038	34,217
148.82	8,044	34,297
148.83	8,050	34,378
148.84	8,056	34,458
148.85	8,061	34,539
148.86	8,067	34,620
148.87	8,073	34,700
148.88	8,079	34,781
148.89	8,085	34,862
148.90	8,091	34,943
148.91	8,097	35,024
148.92	8,102	35,105
148.93	8,108	35,186
148.94	8,114	35,267
148.95	8,120	35,348

Summary for Pond B-27: Basin #27

Inflow Area = 1.935 ac, 46.41% Impervious, Inflow Depth = 4.16" for Current 10 yr event
 Inflow = 8.17 cfs @ 12.17 hrs, Volume= 0.672 af
 Outflow = 5.69 cfs @ 12.27 hrs, Volume= 0.565 af, Atten= 30%, Lag= 6.2 min
 Primary = 5.69 cfs @ 12.27 hrs, Volume= 0.565 af
 Routed to Link PDA-2 : Proposed Drainage Area #2

Routing by Stor-Ind method, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 Peak Elev= 172.37' @ 12.27 hrs Surf.Area= 3,824 sf Storage= 10,783 cf

Plug-Flow detention time= 155.9 min calculated for 0.564 af (84% of inflow)
 Center-of-Mass det. time= 86.7 min (865.5 - 778.8)

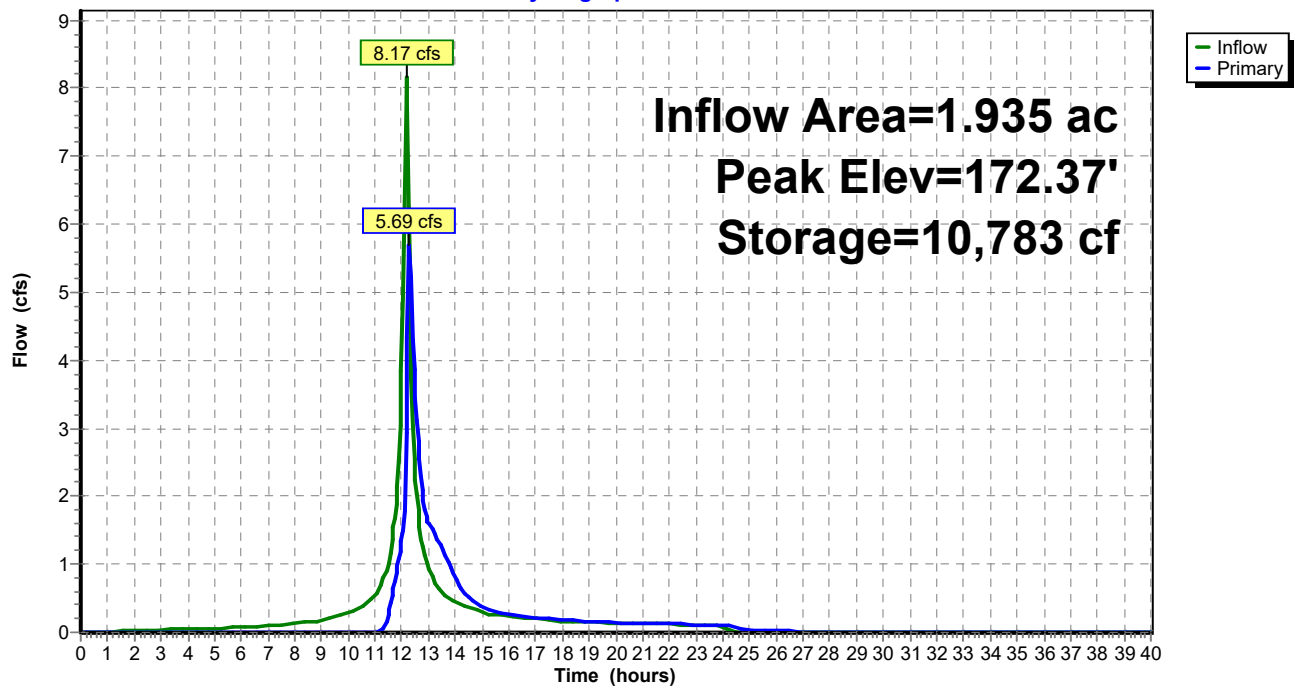
Volume	Invert	Avail.Storage	Storage Description
#1	167.35'	13,052 cf	Custom Stage Data (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
167.35	0	0	0
168.00	1,002	326	326
169.00	1,583	1,293	1,618
170.00	2,221	1,902	3,520
171.00	2,916	2,569	6,089
172.00	3,667	3,292	9,380
172.95	4,064	3,672	13,052

Device	Routing	Invert	Outlet Devices
#1	Primary	167.65'	24.0" Round Culvert L= 61.0' Ke= 0.500 Inlet / Outlet Invert= 167.65' / 165.16' S= 0.0408 '/' Cc= 0.900 n= 0.013, Flow Area= 3.14 sf
#2	Device 1	170.47'	8.0" Vert. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#3	Device 1	171.75'	2.0' long Sharp-Crested Rectangular Weir 2 End Contraction(s)
#4	Device 1	172.25'	4.0' long Sharp-Crested Rectangular Weir 2 End Contraction(s)
#5	Primary	172.90'	50.0' long + 3.0 '/' SideZ x 5.0' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 Coef. (English) 2.34 2.50 2.70 2.68 2.68 2.66 2.65 2.65 2.65 2.65 2.67 2.66 2.68 2.70 2.74 2.79 2.88

Primary OutFlow Max=5.52 cfs @ 12.27 hrs HW=172.36' (Free Discharge)

1=Culvert (Passes 5.52 cfs of 29.14 cfs potential flow)
 2=Orifice/Grate (Orifice Controls 2.10 cfs @ 6.01 fps)
 3=Sharp-Crested Rectangular Weir (Weir Controls 2.94 cfs @ 2.56 fps)
 4=Sharp-Crested Rectangular Weir (Weir Controls 0.49 cfs @ 1.09 fps)
 5=Broad-Crested Rectangular Weir (Controls 0.00 cfs)

Pond B-27: Basin #27**Hydrograph**

Stage-Discharge for Pond B-27: Basin #27

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
167.35	0.00	167.87	0.00	168.39	0.00	168.91	0.00
167.36	0.00	167.88	0.00	168.40	0.00	168.92	0.00
167.37	0.00	167.89	0.00	168.41	0.00	168.93	0.00
167.38	0.00	167.90	0.00	168.42	0.00	168.94	0.00
167.39	0.00	167.91	0.00	168.43	0.00	168.95	0.00
167.40	0.00	167.92	0.00	168.44	0.00	168.96	0.00
167.41	0.00	167.93	0.00	168.45	0.00	168.97	0.00
167.42	0.00	167.94	0.00	168.46	0.00	168.98	0.00
167.43	0.00	167.95	0.00	168.47	0.00	168.99	0.00
167.44	0.00	167.96	0.00	168.48	0.00	169.00	0.00
167.45	0.00	167.97	0.00	168.49	0.00	169.01	0.00
167.46	0.00	167.98	0.00	168.50	0.00	169.02	0.00
167.47	0.00	167.99	0.00	168.51	0.00	169.03	0.00
167.48	0.00	168.00	0.00	168.52	0.00	169.04	0.00
167.49	0.00	168.01	0.00	168.53	0.00	169.05	0.00
167.50	0.00	168.02	0.00	168.54	0.00	169.06	0.00
167.51	0.00	168.03	0.00	168.55	0.00	169.07	0.00
167.52	0.00	168.04	0.00	168.56	0.00	169.08	0.00
167.53	0.00	168.05	0.00	168.57	0.00	169.09	0.00
167.54	0.00	168.06	0.00	168.58	0.00	169.10	0.00
167.55	0.00	168.07	0.00	168.59	0.00	169.11	0.00
167.56	0.00	168.08	0.00	168.60	0.00	169.12	0.00
167.57	0.00	168.09	0.00	168.61	0.00	169.13	0.00
167.58	0.00	168.10	0.00	168.62	0.00	169.14	0.00
167.59	0.00	168.11	0.00	168.63	0.00	169.15	0.00
167.60	0.00	168.12	0.00	168.64	0.00	169.16	0.00
167.61	0.00	168.13	0.00	168.65	0.00	169.17	0.00
167.62	0.00	168.14	0.00	168.66	0.00	169.18	0.00
167.63	0.00	168.15	0.00	168.67	0.00	169.19	0.00
167.64	0.00	168.16	0.00	168.68	0.00	169.20	0.00
167.65	0.00	168.17	0.00	168.69	0.00	169.21	0.00
167.66	0.00	168.18	0.00	168.70	0.00	169.22	0.00
167.67	0.00	168.19	0.00	168.71	0.00	169.23	0.00
167.68	0.00	168.20	0.00	168.72	0.00	169.24	0.00
167.69	0.00	168.21	0.00	168.73	0.00	169.25	0.00
167.70	0.00	168.22	0.00	168.74	0.00	169.26	0.00
167.71	0.00	168.23	0.00	168.75	0.00	169.27	0.00
167.72	0.00	168.24	0.00	168.76	0.00	169.28	0.00
167.73	0.00	168.25	0.00	168.77	0.00	169.29	0.00
167.74	0.00	168.26	0.00	168.78	0.00	169.30	0.00
167.75	0.00	168.27	0.00	168.79	0.00	169.31	0.00
167.76	0.00	168.28	0.00	168.80	0.00	169.32	0.00
167.77	0.00	168.29	0.00	168.81	0.00	169.33	0.00
167.78	0.00	168.30	0.00	168.82	0.00	169.34	0.00
167.79	0.00	168.31	0.00	168.83	0.00	169.35	0.00
167.80	0.00	168.32	0.00	168.84	0.00	169.36	0.00
167.81	0.00	168.33	0.00	168.85	0.00	169.37	0.00
167.82	0.00	168.34	0.00	168.86	0.00	169.38	0.00
167.83	0.00	168.35	0.00	168.87	0.00	169.39	0.00
167.84	0.00	168.36	0.00	168.88	0.00	169.40	0.00
167.85	0.00	168.37	0.00	168.89	0.00	169.41	0.00
167.86	0.00	168.38	0.00	168.90	0.00	169.42	0.00

Stage-Discharge for Pond B-27: Basin #27 (continued)

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
169.43	0.00	169.95	0.00	170.47	0.00	170.99	0.72
169.44	0.00	169.96	0.00	170.48	0.00	171.00	0.74
169.45	0.00	169.97	0.00	170.49	0.00	171.01	0.76
169.46	0.00	169.98	0.00	170.50	0.00	171.02	0.78
169.47	0.00	169.99	0.00	170.51	0.01	171.03	0.80
169.48	0.00	170.00	0.00	170.52	0.01	171.04	0.82
169.49	0.00	170.01	0.00	170.53	0.01	171.05	0.84
169.50	0.00	170.02	0.00	170.54	0.02	171.06	0.85
169.51	0.00	170.03	0.00	170.55	0.02	171.07	0.87
169.52	0.00	170.04	0.00	170.56	0.03	171.08	0.89
169.53	0.00	170.05	0.00	170.57	0.04	171.09	0.91
169.54	0.00	170.06	0.00	170.58	0.04	171.10	0.92
169.55	0.00	170.07	0.00	170.59	0.05	171.11	0.94
169.56	0.00	170.08	0.00	170.60	0.06	171.12	0.95
169.57	0.00	170.09	0.00	170.61	0.07	171.13	0.96
169.58	0.00	170.10	0.00	170.62	0.08	171.14	0.98
169.59	0.00	170.11	0.00	170.63	0.09	171.15	0.99
169.60	0.00	170.12	0.00	170.64	0.10	171.16	1.00
169.61	0.00	170.13	0.00	170.65	0.11	171.17	1.02
169.62	0.00	170.14	0.00	170.66	0.12	171.18	1.03
169.63	0.00	170.15	0.00	170.67	0.13	171.19	1.05
169.64	0.00	170.16	0.00	170.68	0.15	171.20	1.06
169.65	0.00	170.17	0.00	170.69	0.16	171.21	1.07
169.66	0.00	170.18	0.00	170.70	0.17	171.22	1.08
169.67	0.00	170.19	0.00	170.71	0.19	171.23	1.10
169.68	0.00	170.20	0.00	170.72	0.20	171.24	1.11
169.69	0.00	170.21	0.00	170.73	0.22	171.25	1.12
169.70	0.00	170.22	0.00	170.74	0.23	171.26	1.14
169.71	0.00	170.23	0.00	170.75	0.25	171.27	1.15
169.72	0.00	170.24	0.00	170.76	0.27	171.28	1.16
169.73	0.00	170.25	0.00	170.77	0.28	171.29	1.17
169.74	0.00	170.26	0.00	170.78	0.30	171.30	1.18
169.75	0.00	170.27	0.00	170.79	0.32	171.31	1.20
169.76	0.00	170.28	0.00	170.80	0.34	171.32	1.21
169.77	0.00	170.29	0.00	170.81	0.36	171.33	1.22
169.78	0.00	170.30	0.00	170.82	0.37	171.34	1.23
169.79	0.00	170.31	0.00	170.83	0.39	171.35	1.24
169.80	0.00	170.32	0.00	170.84	0.41	171.36	1.25
169.81	0.00	170.33	0.00	170.85	0.43	171.37	1.27
169.82	0.00	170.34	0.00	170.86	0.45	171.38	1.28
169.83	0.00	170.35	0.00	170.87	0.47	171.39	1.29
169.84	0.00	170.36	0.00	170.88	0.49	171.40	1.30
169.85	0.00	170.37	0.00	170.89	0.51	171.41	1.31
169.86	0.00	170.38	0.00	170.90	0.53	171.42	1.32
169.87	0.00	170.39	0.00	170.91	0.55	171.43	1.33
169.88	0.00	170.40	0.00	170.92	0.57	171.44	1.34
169.89	0.00	170.41	0.00	170.93	0.59	171.45	1.35
169.90	0.00	170.42	0.00	170.94	0.61	171.46	1.36
169.91	0.00	170.43	0.00	170.95	0.63	171.47	1.37
169.92	0.00	170.44	0.00	170.96	0.66	171.48	1.38
169.93	0.00	170.45	0.00	170.97	0.68	171.49	1.39
169.94	0.00	170.46	0.00	170.98	0.70	171.50	1.40

Stage-Discharge for Pond B-27: Basin #27 (continued)

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
171.51	1.41	172.03	2.80	172.55	8.64
171.52	1.42	172.04	2.86	172.56	8.83
171.53	1.43	172.05	2.92	172.57	9.02
171.54	1.44	172.06	2.98	172.58	9.21
171.55	1.45	172.07	3.04	172.59	9.41
171.56	1.46	172.08	3.10	172.60	9.60
171.57	1.47	172.09	3.16	172.61	9.80
171.58	1.48	172.10	3.22	172.62	10.00
171.59	1.49	172.11	3.28	172.63	10.20
171.60	1.50	172.12	3.35	172.64	10.40
171.61	1.51	172.13	3.41	172.65	10.61
171.62	1.52	172.14	3.47	172.66	10.81
171.63	1.53	172.15	3.54	172.67	11.02
171.64	1.54	172.16	3.60	172.68	11.23
171.65	1.55	172.17	3.67	172.69	11.44
171.66	1.56	172.18	3.74	172.70	11.65
171.67	1.56	172.19	3.80	172.71	11.87
171.68	1.57	172.20	3.87	172.72	12.08
171.69	1.58	172.21	3.94	172.73	12.30
171.70	1.59	172.22	4.01	172.74	12.52
171.71	1.60	172.23	4.08	172.75	12.74
171.72	1.61	172.24	4.15	172.76	12.96
171.73	1.62	172.25	4.22	172.77	13.18
171.74	1.63	172.26	4.30	172.78	13.41
171.75	1.64	172.27	4.40	172.79	13.63
171.76	1.65	172.28	4.50	172.80	13.86
171.77	1.67	172.29	4.61	172.81	14.09
171.78	1.69	172.30	4.72	172.82	14.32
171.79	1.72	172.31	4.84	172.83	14.55
171.80	1.75	172.32	4.97	172.84	14.78
171.81	1.78	172.33	5.09	172.85	15.02
171.82	1.81	172.34	5.22	172.86	15.25
171.83	1.85	172.35	5.36	172.87	15.49
171.84	1.89	172.36	5.50	172.88	15.72
171.85	1.92	172.37	5.64	172.89	15.96
171.86	1.96	172.38	5.78	172.90	16.20
171.87	2.00	172.39	5.93	172.91	16.56
171.88	2.05	172.40	6.08	172.92	17.02
171.89	2.09	172.41	6.24	172.93	17.54
171.90	2.13	172.42	6.39	172.94	18.11
171.91	2.18	172.43	6.55	172.95	18.73
171.92	2.23	172.44	6.71		
171.93	2.27	172.45	6.88		
171.94	2.32	172.46	7.04		
171.95	2.37	172.47	7.21		
171.96	2.42	172.48	7.38		
171.97	2.48	172.49	7.56		
171.98	2.53	172.50	7.73		
171.99	2.58	172.51	7.91		
172.00	2.64	172.52	8.09		
172.01	2.69	172.53	8.27		
172.02	2.75	172.54	8.46		

Stage-Area-Storage for Pond B-27: Basin #27

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
167.35	0	0	167.87	802	208
167.36	15	0	167.88	817	217
167.37	31	0	167.89	832	225
167.38	46	1	167.90	848	233
167.39	62	1	167.91	863	242
167.40	77	2	167.92	879	250
167.41	92	3	167.93	894	259
167.42	108	4	167.94	910	268
167.43	123	5	167.95	925	277
167.44	139	6	167.96	940	287
167.45	154	8	167.97	956	296
167.46	170	9	167.98	971	306
167.47	185	11	167.99	987	316
167.48	200	13	168.00	1,002	326
167.49	216	15	168.01	1,008	336
167.50	231	17	168.02	1,014	346
167.51	247	20	168.03	1,019	356
167.52	262	22	168.04	1,025	366
167.53	277	25	168.05	1,031	376
167.54	293	28	168.06	1,037	387
167.55	308	31	168.07	1,043	397
167.56	324	34	168.08	1,048	408
167.57	339	37	168.09	1,054	418
167.58	355	41	168.10	1,060	429
167.59	370	44	168.11	1,066	439
167.60	385	48	168.12	1,072	450
167.61	401	52	168.13	1,078	461
167.62	416	56	168.14	1,083	472
167.63	432	60	168.15	1,089	482
167.64	447	65	168.16	1,095	493
167.65	462	69	168.17	1,101	504
167.66	478	74	168.18	1,107	515
167.67	493	79	168.19	1,112	527
167.68	509	84	168.20	1,118	538
167.69	524	89	168.21	1,124	549
167.70	540	94	168.22	1,130	560
167.71	555	100	168.23	1,136	571
167.72	570	106	168.24	1,141	583
167.73	586	111	168.25	1,147	594
167.74	601	117	168.26	1,153	606
167.75	617	123	168.27	1,159	617
167.76	632	130	168.28	1,165	629
167.77	647	136	168.29	1,170	641
167.78	663	143	168.30	1,176	652
167.79	678	149	168.31	1,182	664
167.80	694	156	168.32	1,188	676
167.81	709	163	168.33	1,194	688
167.82	725	170	168.34	1,200	700
167.83	740	178	168.35	1,205	712
167.84	755	185	168.36	1,211	724
167.85	771	193	168.37	1,217	736
167.86	786	200	168.38	1,223	748

Stage-Area-Storage for Pond B-27: Basin #27 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
168.39	1,229	761	168.91	1,531	1,478
168.40	1,234	773	168.92	1,537	1,493
168.41	1,240	785	168.93	1,542	1,509
168.42	1,246	798	168.94	1,548	1,524
168.43	1,252	810	168.95	1,554	1,540
168.44	1,258	823	168.96	1,560	1,555
168.45	1,263	835	168.97	1,566	1,571
168.46	1,269	848	168.98	1,571	1,587
168.47	1,275	861	168.99	1,577	1,602
168.48	1,281	874	169.00	1,583	1,618
168.49	1,287	886	169.01	1,589	1,634
168.50	1,293	899	169.02	1,596	1,650
168.51	1,298	912	169.03	1,602	1,666
168.52	1,304	925	169.04	1,609	1,682
168.53	1,310	938	169.05	1,615	1,698
168.54	1,316	951	169.06	1,621	1,714
168.55	1,322	965	169.07	1,628	1,731
168.56	1,327	978	169.08	1,634	1,747
168.57	1,333	991	169.09	1,640	1,763
168.58	1,339	1,005	169.10	1,647	1,780
168.59	1,345	1,018	169.11	1,653	1,796
168.60	1,351	1,031	169.12	1,660	1,813
168.61	1,356	1,045	169.13	1,666	1,829
168.62	1,362	1,059	169.14	1,672	1,846
168.63	1,368	1,072	169.15	1,679	1,863
168.64	1,374	1,086	169.16	1,685	1,880
168.65	1,380	1,100	169.17	1,691	1,896
168.66	1,385	1,114	169.18	1,698	1,913
168.67	1,391	1,127	169.19	1,704	1,930
168.68	1,397	1,141	169.20	1,711	1,948
168.69	1,403	1,155	169.21	1,717	1,965
168.70	1,409	1,169	169.22	1,723	1,982
168.71	1,415	1,184	169.23	1,730	1,999
168.72	1,420	1,198	169.24	1,736	2,016
168.73	1,426	1,212	169.25	1,743	2,034
168.74	1,432	1,226	169.26	1,749	2,051
168.75	1,438	1,241	169.27	1,755	2,069
168.76	1,444	1,255	169.28	1,762	2,086
168.77	1,449	1,269	169.29	1,768	2,104
168.78	1,455	1,284	169.30	1,774	2,122
168.79	1,461	1,299	169.31	1,781	2,140
168.80	1,467	1,313	169.32	1,787	2,157
168.81	1,473	1,328	169.33	1,794	2,175
168.82	1,478	1,343	169.34	1,800	2,193
168.83	1,484	1,357	169.35	1,806	2,211
168.84	1,490	1,372	169.36	1,813	2,229
168.85	1,496	1,387	169.37	1,819	2,248
168.86	1,502	1,402	169.38	1,825	2,266
168.87	1,507	1,417	169.39	1,832	2,284
168.88	1,513	1,432	169.40	1,838	2,302
168.89	1,519	1,448	169.41	1,845	2,321
168.90	1,525	1,463	169.42	1,851	2,339

Stage-Area-Storage for Pond B-27: Basin #27 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
169.43	1,857	2,358	169.95	2,189	3,410
169.44	1,864	2,376	169.96	2,195	3,432
169.45	1,870	2,395	169.97	2,202	3,454
169.46	1,876	2,414	169.98	2,208	3,476
169.47	1,883	2,433	169.99	2,215	3,498
169.48	1,889	2,451	170.00	2,221	3,520
169.49	1,896	2,470	170.01	2,228	3,542
169.50	1,902	2,489	170.02	2,235	3,565
169.51	1,908	2,508	170.03	2,242	3,587
169.52	1,915	2,528	170.04	2,249	3,610
169.53	1,921	2,547	170.05	2,256	3,632
169.54	1,928	2,566	170.06	2,263	3,655
169.55	1,934	2,585	170.07	2,270	3,677
169.56	1,940	2,605	170.08	2,277	3,700
169.57	1,947	2,624	170.09	2,284	3,723
169.58	1,953	2,644	170.10	2,290	3,746
169.59	1,959	2,663	170.11	2,297	3,769
169.60	1,966	2,683	170.12	2,304	3,792
169.61	1,972	2,702	170.13	2,311	3,815
169.62	1,979	2,722	170.14	2,318	3,838
169.63	1,985	2,742	170.15	2,325	3,861
169.64	1,991	2,762	170.16	2,332	3,884
169.65	1,998	2,782	170.17	2,339	3,908
169.66	2,004	2,802	170.18	2,346	3,931
169.67	2,010	2,822	170.19	2,353	3,955
169.68	2,017	2,842	170.20	2,360	3,978
169.69	2,023	2,862	170.21	2,367	4,002
169.70	2,030	2,883	170.22	2,374	4,026
169.71	2,036	2,903	170.23	2,381	4,049
169.72	2,042	2,923	170.24	2,388	4,073
169.73	2,049	2,944	170.25	2,395	4,097
169.74	2,055	2,964	170.26	2,402	4,121
169.75	2,062	2,985	170.27	2,409	4,145
169.76	2,068	3,005	170.28	2,416	4,169
169.77	2,074	3,026	170.29	2,423	4,193
169.78	2,081	3,047	170.30	2,429	4,218
169.79	2,087	3,068	170.31	2,436	4,242
169.80	2,093	3,089	170.32	2,443	4,266
169.81	2,100	3,110	170.33	2,450	4,291
169.82	2,106	3,131	170.34	2,457	4,315
169.83	2,113	3,152	170.35	2,464	4,340
169.84	2,119	3,173	170.36	2,471	4,365
169.85	2,125	3,194	170.37	2,478	4,389
169.86	2,132	3,215	170.38	2,485	4,414
169.87	2,138	3,237	170.39	2,492	4,439
169.88	2,144	3,258	170.40	2,499	4,464
169.89	2,151	3,280	170.41	2,506	4,489
169.90	2,157	3,301	170.42	2,513	4,514
169.91	2,164	3,323	170.43	2,520	4,539
169.92	2,170	3,345	170.44	2,527	4,565
169.93	2,176	3,366	170.45	2,534	4,590
169.94	2,183	3,388	170.46	2,541	4,615

Stage-Area-Storage for Pond B-27: Basin #27 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
170.47	2,548	4,641	170.99	2,909	6,060
170.48	2,555	4,666	171.00	2,916	6,089
170.49	2,562	4,692	171.01	2,924	6,118
170.50	2,569	4,718	171.02	2,931	6,147
170.51	2,575	4,743	171.03	2,939	6,176
170.52	2,582	4,769	171.04	2,946	6,206
170.53	2,589	4,795	171.05	2,954	6,235
170.54	2,596	4,821	171.06	2,961	6,265
170.55	2,603	4,847	171.07	2,969	6,295
170.56	2,610	4,873	171.08	2,976	6,324
170.57	2,617	4,899	171.09	2,984	6,354
170.58	2,624	4,925	171.10	2,991	6,384
170.59	2,631	4,952	171.11	2,999	6,414
170.60	2,638	4,978	171.12	3,006	6,444
170.61	2,645	5,004	171.13	3,014	6,474
170.62	2,652	5,031	171.14	3,021	6,504
170.63	2,659	5,057	171.15	3,029	6,534
170.64	2,666	5,084	171.16	3,036	6,565
170.65	2,673	5,111	171.17	3,044	6,595
170.66	2,680	5,137	171.18	3,051	6,626
170.67	2,687	5,164	171.19	3,059	6,656
170.68	2,694	5,191	171.20	3,066	6,687
170.69	2,701	5,218	171.21	3,074	6,718
170.70	2,707	5,245	171.22	3,081	6,748
170.71	2,714	5,272	171.23	3,089	6,779
170.72	2,721	5,299	171.24	3,096	6,810
170.73	2,728	5,327	171.25	3,104	6,841
170.74	2,735	5,354	171.26	3,111	6,872
170.75	2,742	5,381	171.27	3,119	6,903
170.76	2,749	5,409	171.28	3,126	6,935
170.77	2,756	5,436	171.29	3,134	6,966
170.78	2,763	5,464	171.30	3,141	6,997
170.79	2,770	5,492	171.31	3,149	7,029
170.80	2,777	5,519	171.32	3,156	7,060
170.81	2,784	5,547	171.33	3,164	7,092
170.82	2,791	5,575	171.34	3,171	7,123
170.83	2,798	5,603	171.35	3,179	7,155
170.84	2,805	5,631	171.36	3,186	7,187
170.85	2,812	5,659	171.37	3,194	7,219
170.86	2,819	5,687	171.38	3,201	7,251
170.87	2,826	5,715	171.39	3,209	7,283
170.88	2,833	5,744	171.40	3,216	7,315
170.89	2,840	5,772	171.41	3,224	7,347
170.90	2,847	5,801	171.42	3,231	7,380
170.91	2,853	5,829	171.43	3,239	7,412
170.92	2,860	5,858	171.44	3,246	7,444
170.93	2,867	5,886	171.45	3,254	7,477
170.94	2,874	5,915	171.46	3,261	7,509
170.95	2,881	5,944	171.47	3,269	7,542
170.96	2,888	5,973	171.48	3,276	7,575
170.97	2,895	6,001	171.49	3,284	7,608
170.98	2,902	6,030	171.50	3,292	7,641

Stage-Area-Storage for Pond B-27: Basin #27 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
171.51	3,299	7,673	172.03	3,680	9,490
171.52	3,307	7,707	172.04	3,684	9,527
171.53	3,314	7,740	172.05	3,688	9,564
171.54	3,322	7,773	172.06	3,692	9,601
171.55	3,329	7,806	172.07	3,696	9,638
171.56	3,337	7,839	172.08	3,700	9,675
171.57	3,344	7,873	172.09	3,705	9,712
171.58	3,352	7,906	172.10	3,709	9,749
171.59	3,359	7,940	172.11	3,713	9,786
171.60	3,367	7,973	172.12	3,717	9,823
171.61	3,374	8,007	172.13	3,721	9,860
171.62	3,382	8,041	172.14	3,726	9,898
171.63	3,389	8,075	172.15	3,730	9,935
171.64	3,397	8,109	172.16	3,734	9,972
171.65	3,404	8,143	172.17	3,738	10,010
171.66	3,412	8,177	172.18	3,742	10,047
171.67	3,419	8,211	172.19	3,746	10,084
171.68	3,427	8,245	172.20	3,751	10,122
171.69	3,434	8,279	172.21	3,755	10,159
171.70	3,442	8,314	172.22	3,759	10,197
171.71	3,449	8,348	172.23	3,763	10,235
171.72	3,457	8,383	172.24	3,767	10,272
171.73	3,464	8,417	172.25	3,771	10,310
171.74	3,472	8,452	172.26	3,776	10,348
171.75	3,479	8,487	172.27	3,780	10,385
171.76	3,487	8,522	172.28	3,784	10,423
171.77	3,494	8,557	172.29	3,788	10,461
171.78	3,502	8,592	172.30	3,792	10,499
171.79	3,509	8,627	172.31	3,797	10,537
171.80	3,517	8,662	172.32	3,801	10,575
171.81	3,524	8,697	172.33	3,805	10,613
171.82	3,532	8,732	172.34	3,809	10,651
171.83	3,539	8,768	172.35	3,813	10,689
171.84	3,547	8,803	172.36	3,817	10,727
171.85	3,554	8,839	172.37	3,822	10,766
171.86	3,562	8,874	172.38	3,826	10,804
171.87	3,569	8,910	172.39	3,830	10,842
171.88	3,577	8,946	172.40	3,834	10,880
171.89	3,584	8,981	172.41	3,838	10,919
171.90	3,592	9,017	172.42	3,843	10,957
171.91	3,599	9,053	172.43	3,847	10,996
171.92	3,607	9,089	172.44	3,851	11,034
171.93	3,614	9,125	172.45	3,855	11,073
171.94	3,622	9,161	172.46	3,859	11,111
171.95	3,629	9,198	172.47	3,863	11,150
171.96	3,637	9,234	172.48	3,868	11,188
171.97	3,644	9,270	172.49	3,872	11,227
171.98	3,652	9,307	172.50	3,876	11,266
171.99	3,659	9,344	172.51	3,880	11,305
172.00	3,667	9,380	172.52	3,884	11,343
172.01	3,671	9,417	172.53	3,888	11,382
172.02	3,675	9,454	172.54	3,893	11,421

Stage-Area-Storage for Pond B-27: Basin #27 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
172.55	3,897	11,460
172.56	3,901	11,499
172.57	3,905	11,538
172.58	3,909	11,577
172.59	3,914	11,616
172.60	3,918	11,656
172.61	3,922	11,695
172.62	3,926	11,734
172.63	3,930	11,773
172.64	3,934	11,813
172.65	3,939	11,852
172.66	3,943	11,891
172.67	3,947	11,931
172.68	3,951	11,970
172.69	3,955	12,010
172.70	3,960	12,049
172.71	3,964	12,089
172.72	3,968	12,129
172.73	3,972	12,168
172.74	3,976	12,208
172.75	3,980	12,248
172.76	3,985	12,288
172.77	3,989	12,328
172.78	3,993	12,368
172.79	3,997	12,407
172.80	4,001	12,447
172.81	4,005	12,488
172.82	4,010	12,528
172.83	4,014	12,568
172.84	4,018	12,608
172.85	4,022	12,648
172.86	4,026	12,688
172.87	4,031	12,729
172.88	4,035	12,769
172.89	4,039	12,809
172.90	4,043	12,850
172.91	4,047	12,890
172.92	4,051	12,931
172.93	4,056	12,971
172.94	4,060	13,012
172.95	4,064	13,052

Summary for Pond B-28: Basin #28

Inflow Area = 2.333 ac, 34.85% Impervious, Inflow Depth = 3.29" for Current 10 yr event
 Inflow = 7.88 cfs @ 12.17 hrs, Volume= 0.639 af
 Outflow = 6.50 cfs @ 12.24 hrs, Volume= 0.559 af, Atten= 18%, Lag= 4.2 min
 Primary = 6.50 cfs @ 12.24 hrs, Volume= 0.559 af
 Routed to Link PDA-2 : Proposed Drainage Area #2

Routing by Stor-Ind method, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 Peak Elev= 168.79' @ 12.24 hrs Surf.Area= 3,051 sf Storage= 5,954 cf

Plug-Flow detention time= 112.3 min calculated for 0.559 af (87% of inflow)
 Center-of-Mass det. time= 51.7 min (848.1 - 796.5)

Volume	Invert	Avail.Storage	Storage Description
#1	165.65'	12,318 cf	Custom Stage Data (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
165.65	0	0	0
166.00	1,145	200	200
167.00	1,778	1,462	1,662
168.00	2,465	2,122	3,783
169.00	3,210	2,838	6,621
170.00	4,012	3,611	10,232
170.50	4,334	2,087	12,318

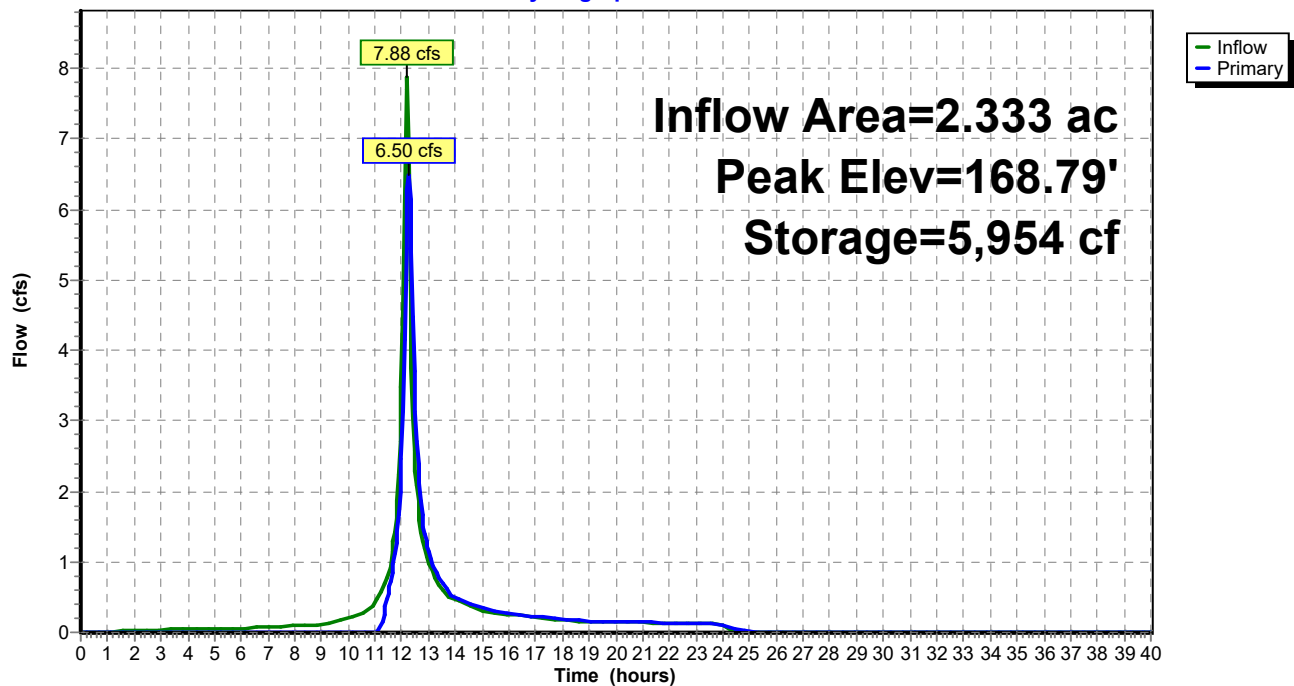
Device	Routing	Invert	Outlet Devices
#1	Primary	165.65'	18.0" Round Culvert L= 186.0' Ke= 0.500 Inlet / Outlet Invert= 165.65' / 163.70' S= 0.0105 '/' Cc= 0.900 n= 0.013, Flow Area= 1.77 sf
#2	Device 1	167.87'	30.0" W x 9.0" H Vert. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#3	Device 1	169.50'	1.0' long Sharp-Crested Rectangular Weir 2 End Contraction(s)
#4	Device 1	170.00'	4.0' long Sharp-Crested Rectangular Weir 2 End Contraction(s)
#5	Primary	170.49'	50.0' long + 3.0 ' SideZ x 5.0' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 Coef. (English) 2.34 2.50 2.70 2.68 2.68 2.66 2.65 2.65 2.65 2.65 2.67 2.66 2.68 2.70 2.74 2.79 2.88

Primary OutFlow Max=6.47 cfs @ 12.24 hrs HW=168.78' (Free Discharge)

1=Culvert (Passes 6.47 cfs of 12.12 cfs potential flow)
 2=Orifice/Grate (Orifice Controls 6.47 cfs @ 3.45 fps)
 3=Sharp-Crested Rectangular Weir(Controls 0.00 cfs)
 4=Sharp-Crested Rectangular Weir(Controls 0.00 cfs)
 5=Broad-Crested Rectangular Weir(Controls 0.00 cfs)

Pond B-28: Basin #28

Hydrograph



Stage-Discharge for Pond B-28: Basin #28

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
165.65	0.00	166.17	0.00	166.69	0.00	167.21	0.00
165.66	0.00	166.18	0.00	166.70	0.00	167.22	0.00
165.67	0.00	166.19	0.00	166.71	0.00	167.23	0.00
165.68	0.00	166.20	0.00	166.72	0.00	167.24	0.00
165.69	0.00	166.21	0.00	166.73	0.00	167.25	0.00
165.70	0.00	166.22	0.00	166.74	0.00	167.26	0.00
165.71	0.00	166.23	0.00	166.75	0.00	167.27	0.00
165.72	0.00	166.24	0.00	166.76	0.00	167.28	0.00
165.73	0.00	166.25	0.00	166.77	0.00	167.29	0.00
165.74	0.00	166.26	0.00	166.78	0.00	167.30	0.00
165.75	0.00	166.27	0.00	166.79	0.00	167.31	0.00
165.76	0.00	166.28	0.00	166.80	0.00	167.32	0.00
165.77	0.00	166.29	0.00	166.81	0.00	167.33	0.00
165.78	0.00	166.30	0.00	166.82	0.00	167.34	0.00
165.79	0.00	166.31	0.00	166.83	0.00	167.35	0.00
165.80	0.00	166.32	0.00	166.84	0.00	167.36	0.00
165.81	0.00	166.33	0.00	166.85	0.00	167.37	0.00
165.82	0.00	166.34	0.00	166.86	0.00	167.38	0.00
165.83	0.00	166.35	0.00	166.87	0.00	167.39	0.00
165.84	0.00	166.36	0.00	166.88	0.00	167.40	0.00
165.85	0.00	166.37	0.00	166.89	0.00	167.41	0.00
165.86	0.00	166.38	0.00	166.90	0.00	167.42	0.00
165.87	0.00	166.39	0.00	166.91	0.00	167.43	0.00
165.88	0.00	166.40	0.00	166.92	0.00	167.44	0.00
165.89	0.00	166.41	0.00	166.93	0.00	167.45	0.00
165.90	0.00	166.42	0.00	166.94	0.00	167.46	0.00
165.91	0.00	166.43	0.00	166.95	0.00	167.47	0.00
165.92	0.00	166.44	0.00	166.96	0.00	167.48	0.00
165.93	0.00	166.45	0.00	166.97	0.00	167.49	0.00
165.94	0.00	166.46	0.00	166.98	0.00	167.50	0.00
165.95	0.00	166.47	0.00	166.99	0.00	167.51	0.00
165.96	0.00	166.48	0.00	167.00	0.00	167.52	0.00
165.97	0.00	166.49	0.00	167.01	0.00	167.53	0.00
165.98	0.00	166.50	0.00	167.02	0.00	167.54	0.00
165.99	0.00	166.51	0.00	167.03	0.00	167.55	0.00
166.00	0.00	166.52	0.00	167.04	0.00	167.56	0.00
166.01	0.00	166.53	0.00	167.05	0.00	167.57	0.00
166.02	0.00	166.54	0.00	167.06	0.00	167.58	0.00
166.03	0.00	166.55	0.00	167.07	0.00	167.59	0.00
166.04	0.00	166.56	0.00	167.08	0.00	167.60	0.00
166.05	0.00	166.57	0.00	167.09	0.00	167.61	0.00
166.06	0.00	166.58	0.00	167.10	0.00	167.62	0.00
166.07	0.00	166.59	0.00	167.11	0.00	167.63	0.00
166.08	0.00	166.60	0.00	167.12	0.00	167.64	0.00
166.09	0.00	166.61	0.00	167.13	0.00	167.65	0.00
166.10	0.00	166.62	0.00	167.14	0.00	167.66	0.00
166.11	0.00	166.63	0.00	167.15	0.00	167.67	0.00
166.12	0.00	166.64	0.00	167.16	0.00	167.68	0.00
166.13	0.00	166.65	0.00	167.17	0.00	167.69	0.00
166.14	0.00	166.66	0.00	167.18	0.00	167.70	0.00
166.15	0.00	166.67	0.00	167.19	0.00	167.71	0.00
166.16	0.00	166.68	0.00	167.20	0.00	167.72	0.00

Stage-Discharge for Pond B-28: Basin #28 (continued)

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
167.73	0.00	168.25	1.88	168.77	6.39	169.29	9.18
167.74	0.00	168.26	1.95	168.78	6.45	169.30	9.22
167.75	0.00	168.27	2.03	168.79	6.52	169.31	9.27
167.76	0.00	168.28	2.11	168.80	6.58	169.32	9.31
167.77	0.00	168.29	2.18	168.81	6.65	169.33	9.36
167.78	0.00	168.30	2.26	168.82	6.71	169.34	9.40
167.79	0.00	168.31	2.34	168.83	6.78	169.35	9.44
167.80	0.00	168.32	2.42	168.84	6.84	169.36	9.49
167.81	0.00	168.33	2.50	168.85	6.90	169.37	9.53
167.82	0.00	168.34	2.59	168.86	6.96	169.38	9.57
167.83	0.00	168.35	2.67	168.87	7.02	169.39	9.62
167.84	0.00	168.36	2.75	168.88	7.08	169.40	9.66
167.85	0.00	168.37	2.84	168.89	7.14	169.41	9.70
167.86	0.00	168.38	2.92	168.90	7.20	169.42	9.74
167.87	0.00	168.39	3.01	168.91	7.26	169.43	9.79
167.88	0.01	168.40	3.10	168.92	7.32	169.44	9.83
167.89	0.02	168.41	3.18	168.93	7.37	169.45	9.87
167.90	0.04	168.42	3.27	168.94	7.43	169.46	9.91
167.91	0.06	168.43	3.36	168.95	7.49	169.47	9.95
167.92	0.09	168.44	3.45	168.96	7.54	169.48	9.99
167.93	0.12	168.45	3.54	168.97	7.60	169.49	10.03
167.94	0.15	168.46	3.64	168.98	7.65	169.50	10.08
167.95	0.18	168.47	3.73	168.99	7.71	169.51	10.12
167.96	0.22	168.48	3.82	169.00	7.76	169.52	10.17
167.97	0.25	168.49	3.92	169.01	7.81	169.53	10.21
167.98	0.29	168.50	4.01	169.02	7.87	169.54	10.26
167.99	0.33	168.51	4.11	169.03	7.92	169.55	10.31
168.00	0.38	168.52	4.21	169.04	7.97	169.56	10.36
168.01	0.42	168.53	4.30	169.05	8.02	169.57	10.42
168.02	0.47	168.54	4.40	169.06	8.08	169.58	10.47
168.03	0.51	168.55	4.50	169.07	8.13	169.59	10.52
168.04	0.56	168.56	4.60	169.08	8.18	169.60	10.58
168.05	0.61	168.57	4.70	169.09	8.23	169.61	10.63
168.06	0.66	168.58	4.80	169.10	8.28	169.62	10.69
168.07	0.72	168.59	4.90	169.11	8.33	169.63	10.74
168.08	0.77	168.60	5.01	169.12	8.38	169.64	10.80
168.09	0.83	168.61	5.11	169.13	8.43	169.65	10.85
168.10	0.89	168.62	5.21	169.14	8.48	169.66	10.91
168.11	0.94	168.63	5.31	169.15	8.52	169.67	10.97
168.12	1.00	168.64	5.40	169.16	8.57	169.68	11.02
168.13	1.06	168.65	5.49	169.17	8.62	169.69	11.08
168.14	1.13	168.66	5.57	169.18	8.67	169.70	11.14
168.15	1.19	168.67	5.65	169.19	8.72	169.71	11.20
168.16	1.25	168.68	5.73	169.20	8.76	169.72	11.26
168.17	1.32	168.69	5.81	169.21	8.81	169.73	11.32
168.18	1.39	168.70	5.89	169.22	8.86	169.74	11.38
168.19	1.45	168.71	5.96	169.23	8.90	169.75	11.43
168.20	1.52	168.72	6.04	169.24	8.95	169.76	11.49
168.21	1.59	168.73	6.11	169.25	9.00	169.77	11.55
168.22	1.66	168.74	6.18	169.26	9.04	169.78	11.61
168.23	1.73	168.75	6.25	169.27	9.09	169.79	11.67
168.24	1.81	168.76	6.32	169.28	9.13	169.80	11.74

Stage-Discharge for Pond B-28: Basin #28 (continued)

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
169.81	11.80	170.33	14.51
169.82	11.86	170.34	14.52
169.83	11.92	170.35	14.54
169.84	11.98	170.36	14.55
169.85	12.04	170.37	14.56
169.86	12.10	170.38	14.58
169.87	12.16	170.39	14.59
169.88	12.23	170.40	14.61
169.89	12.29	170.41	14.62
169.90	12.35	170.42	14.63
169.91	12.41	170.43	14.65
169.92	12.47	170.44	14.66
169.93	12.54	170.45	14.68
169.94	12.60	170.46	14.69
169.95	12.66	170.47	14.70
169.96	12.73	170.48	14.72
169.97	12.79	170.49	14.73
169.98	12.85	170.50	14.86
169.99	12.91		
170.00	12.98		
170.01	13.05		
170.02	13.14		
170.03	13.24		
170.04	13.34		
170.05	13.44		
170.06	13.55		
170.07	13.66		
170.08	13.78		
170.09	13.90		
170.10	14.02		
170.11	14.15		
170.12	14.21		
170.13	14.22		
170.14	14.24		
170.15	14.25		
170.16	14.27		
170.17	14.28		
170.18	14.29		
170.19	14.31		
170.20	14.32		
170.21	14.34		
170.22	14.35		
170.23	14.37		
170.24	14.38		
170.25	14.39		
170.26	14.41		
170.27	14.42		
170.28	14.44		
170.29	14.45		
170.30	14.47		
170.31	14.48		
170.32	14.49		

Stage-Area-Storage for Pond B-28: Basin #28

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
165.65	0	0	166.17	1,253	404
165.66	33	0	166.18	1,259	417
165.67	65	1	166.19	1,265	429
165.68	98	1	166.20	1,272	442
165.69	131	3	166.21	1,278	455
165.70	164	4	166.22	1,284	468
165.71	196	6	166.23	1,291	480
165.72	229	8	166.24	1,297	493
165.73	262	10	166.25	1,303	506
165.74	294	13	166.26	1,310	519
165.75	327	16	166.27	1,316	533
165.76	360	20	166.28	1,322	546
165.77	393	24	166.29	1,329	559
165.78	425	28	166.30	1,335	572
165.79	458	32	166.31	1,341	586
165.80	491	37	166.32	1,348	599
165.81	523	42	166.33	1,354	613
165.82	556	47	166.34	1,360	626
165.83	589	53	166.35	1,367	640
165.84	622	59	166.36	1,373	654
165.85	654	65	166.37	1,379	667
165.86	687	72	166.38	1,386	681
165.87	720	79	166.39	1,392	695
165.88	752	87	166.40	1,398	709
165.89	785	94	166.41	1,405	723
165.90	818	102	166.42	1,411	737
165.91	851	111	166.43	1,417	751
165.92	883	119	166.44	1,424	765
165.93	916	128	166.45	1,430	780
165.94	949	138	166.46	1,436	794
165.95	981	147	166.47	1,443	808
165.96	1,014	157	166.48	1,449	823
165.97	1,047	167	166.49	1,455	837
165.98	1,080	178	166.50	1,462	852
165.99	1,112	189	166.51	1,468	867
166.00	1,145	200	166.52	1,474	881
166.01	1,151	212	166.53	1,480	896
166.02	1,158	223	166.54	1,487	911
166.03	1,164	235	166.55	1,493	926
166.04	1,170	247	166.56	1,499	941
166.05	1,177	258	166.57	1,506	956
166.06	1,183	270	166.58	1,512	971
166.07	1,189	282	166.59	1,518	986
166.08	1,196	294	166.60	1,525	1,001
166.09	1,202	306	166.61	1,531	1,017
166.10	1,208	318	166.62	1,537	1,032
166.11	1,215	330	166.63	1,544	1,047
166.12	1,221	342	166.64	1,550	1,063
166.13	1,227	355	166.65	1,556	1,078
166.14	1,234	367	166.66	1,563	1,094
166.15	1,240	379	166.67	1,569	1,110
166.16	1,246	392	166.68	1,575	1,125

Stage-Area-Storage for Pond B-28: Basin #28 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
166.69	1,582	1,141	167.21	1,922	2,050
166.70	1,588	1,157	167.22	1,929	2,070
166.71	1,594	1,173	167.23	1,936	2,089
166.72	1,601	1,189	167.24	1,943	2,108
166.73	1,607	1,205	167.25	1,950	2,128
166.74	1,613	1,221	167.26	1,957	2,147
166.75	1,620	1,237	167.27	1,963	2,167
166.76	1,626	1,253	167.28	1,970	2,187
166.77	1,632	1,270	167.29	1,977	2,206
166.78	1,639	1,286	167.30	1,984	2,226
166.79	1,645	1,302	167.31	1,991	2,246
166.80	1,651	1,319	167.32	1,998	2,266
166.81	1,658	1,335	167.33	2,005	2,286
166.82	1,664	1,352	167.34	2,012	2,306
166.83	1,670	1,369	167.35	2,018	2,326
166.84	1,677	1,385	167.36	2,025	2,346
166.85	1,683	1,402	167.37	2,032	2,367
166.86	1,689	1,419	167.38	2,039	2,387
166.87	1,696	1,436	167.39	2,046	2,408
166.88	1,702	1,453	167.40	2,053	2,428
166.89	1,708	1,470	167.41	2,060	2,449
166.90	1,715	1,487	167.42	2,067	2,469
166.91	1,721	1,504	167.43	2,073	2,490
166.92	1,727	1,522	167.44	2,080	2,511
166.93	1,734	1,539	167.45	2,087	2,532
166.94	1,740	1,556	167.46	2,094	2,552
166.95	1,746	1,574	167.47	2,101	2,573
166.96	1,753	1,591	167.48	2,108	2,594
166.97	1,759	1,609	167.49	2,115	2,616
166.98	1,765	1,626	167.50	2,122	2,637
166.99	1,772	1,644	167.51	2,128	2,658
167.00	1,778	1,662	167.52	2,135	2,679
167.01	1,785	1,680	167.53	2,142	2,701
167.02	1,792	1,698	167.54	2,149	2,722
167.03	1,799	1,716	167.55	2,156	2,744
167.04	1,805	1,734	167.56	2,163	2,765
167.05	1,812	1,752	167.57	2,170	2,787
167.06	1,819	1,770	167.58	2,176	2,809
167.07	1,826	1,788	167.59	2,183	2,830
167.08	1,833	1,806	167.60	2,190	2,852
167.09	1,840	1,825	167.61	2,197	2,874
167.10	1,847	1,843	167.62	2,204	2,896
167.11	1,854	1,862	167.63	2,211	2,918
167.12	1,860	1,880	167.64	2,218	2,940
167.13	1,867	1,899	167.65	2,225	2,963
167.14	1,874	1,918	167.66	2,231	2,985
167.15	1,881	1,936	167.67	2,238	3,007
167.16	1,888	1,955	167.68	2,245	3,030
167.17	1,895	1,974	167.69	2,252	3,052
167.18	1,902	1,993	167.70	2,259	3,075
167.19	1,909	2,012	167.71	2,266	3,097
167.20	1,915	2,031	167.72	2,273	3,120

Stage-Area-Storage for Pond B-28: Basin #28 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
167.73	2,280	3,143	168.25	2,651	4,423
167.74	2,286	3,166	168.26	2,659	4,449
167.75	2,293	3,189	168.27	2,666	4,476
167.76	2,300	3,212	168.28	2,674	4,503
167.77	2,307	3,235	168.29	2,681	4,530
167.78	2,314	3,258	168.30	2,689	4,556
167.79	2,321	3,281	168.31	2,696	4,583
167.80	2,328	3,304	168.32	2,703	4,610
167.81	2,334	3,327	168.33	2,711	4,637
167.82	2,341	3,351	168.34	2,718	4,665
167.83	2,348	3,374	168.35	2,726	4,692
167.84	2,355	3,398	168.36	2,733	4,719
167.85	2,362	3,421	168.37	2,741	4,746
167.86	2,369	3,445	168.38	2,748	4,774
167.87	2,376	3,469	168.39	2,756	4,801
167.88	2,383	3,493	168.40	2,763	4,829
167.89	2,389	3,516	168.41	2,770	4,857
167.90	2,396	3,540	168.42	2,778	4,884
167.91	2,403	3,564	168.43	2,785	4,912
167.92	2,410	3,588	168.44	2,793	4,940
167.93	2,417	3,613	168.45	2,800	4,968
167.94	2,424	3,637	168.46	2,808	4,996
167.95	2,431	3,661	168.47	2,815	5,024
167.96	2,438	3,685	168.48	2,823	5,052
167.97	2,444	3,710	168.49	2,830	5,081
167.98	2,451	3,734	168.50	2,838	5,109
167.99	2,458	3,759	168.51	2,845	5,137
168.00	2,465	3,783	168.52	2,852	5,166
168.01	2,472	3,808	168.53	2,860	5,194
168.02	2,480	3,833	168.54	2,867	5,223
168.03	2,487	3,858	168.55	2,875	5,252
168.04	2,495	3,883	168.56	2,882	5,281
168.05	2,502	3,908	168.57	2,890	5,309
168.06	2,510	3,933	168.58	2,897	5,338
168.07	2,517	3,958	168.59	2,905	5,367
168.08	2,525	3,983	168.60	2,912	5,396
168.09	2,532	4,008	168.61	2,919	5,426
168.10	2,539	4,034	168.62	2,927	5,455
168.11	2,547	4,059	168.63	2,934	5,484
168.12	2,554	4,085	168.64	2,942	5,514
168.13	2,562	4,110	168.65	2,949	5,543
168.14	2,569	4,136	168.66	2,957	5,573
168.15	2,577	4,162	168.67	2,964	5,602
168.16	2,584	4,187	168.68	2,972	5,632
168.17	2,592	4,213	168.69	2,979	5,662
168.18	2,599	4,239	168.70	2,987	5,691
168.19	2,607	4,265	168.71	2,994	5,721
168.20	2,614	4,291	168.72	3,001	5,751
168.21	2,621	4,317	168.73	3,009	5,781
168.22	2,629	4,344	168.74	3,016	5,811
168.23	2,636	4,370	168.75	3,024	5,842
168.24	2,644	4,396	168.76	3,031	5,872

Stage-Area-Storage for Pond B-28: Basin #28 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
168.77	3,039	5,902	169.29	3,443	7,585
168.78	3,046	5,933	169.30	3,451	7,620
168.79	3,054	5,963	169.31	3,459	7,655
168.80	3,061	5,994	169.32	3,467	7,689
168.81	3,068	6,024	169.33	3,475	7,724
168.82	3,076	6,055	169.34	3,483	7,759
168.83	3,083	6,086	169.35	3,491	7,793
168.84	3,091	6,117	169.36	3,499	7,828
168.85	3,098	6,148	169.37	3,507	7,863
168.86	3,106	6,179	169.38	3,515	7,899
168.87	3,113	6,210	169.39	3,523	7,934
168.88	3,121	6,241	169.40	3,531	7,969
168.89	3,128	6,272	169.41	3,539	8,004
168.90	3,136	6,304	169.42	3,547	8,040
168.91	3,143	6,335	169.43	3,555	8,075
168.92	3,150	6,366	169.44	3,563	8,111
168.93	3,158	6,398	169.45	3,571	8,147
168.94	3,165	6,430	169.46	3,579	8,182
168.95	3,173	6,461	169.47	3,587	8,218
168.96	3,180	6,493	169.48	3,595	8,254
168.97	3,188	6,525	169.49	3,603	8,290
168.98	3,195	6,557	169.50	3,611	8,326
168.99	3,203	6,589	169.51	3,619	8,362
169.00	3,210	6,621	169.52	3,627	8,399
169.01	3,218	6,653	169.53	3,635	8,435
169.02	3,226	6,685	169.54	3,643	8,471
169.03	3,234	6,718	169.55	3,651	8,508
169.04	3,242	6,750	169.56	3,659	8,544
169.05	3,250	6,782	169.57	3,667	8,581
169.06	3,258	6,815	169.58	3,675	8,618
169.07	3,266	6,848	169.59	3,683	8,654
169.08	3,274	6,880	169.60	3,691	8,691
169.09	3,282	6,913	169.61	3,699	8,728
169.10	3,290	6,946	169.62	3,707	8,765
169.11	3,298	6,979	169.63	3,715	8,802
169.12	3,306	7,012	169.64	3,723	8,840
169.13	3,314	7,045	169.65	3,731	8,877
169.14	3,322	7,078	169.66	3,739	8,914
169.15	3,330	7,111	169.67	3,747	8,952
169.16	3,338	7,145	169.68	3,755	8,989
169.17	3,346	7,178	169.69	3,763	9,027
169.18	3,354	7,212	169.70	3,771	9,064
169.19	3,362	7,245	169.71	3,779	9,102
169.20	3,370	7,279	169.72	3,787	9,140
169.21	3,378	7,313	169.73	3,795	9,178
169.22	3,386	7,346	169.74	3,803	9,216
169.23	3,394	7,380	169.75	3,812	9,254
169.24	3,402	7,414	169.76	3,820	9,292
169.25	3,411	7,448	169.77	3,828	9,330
169.26	3,419	7,483	169.78	3,836	9,369
169.27	3,427	7,517	169.79	3,844	9,407
169.28	3,435	7,551	169.80	3,852	9,446

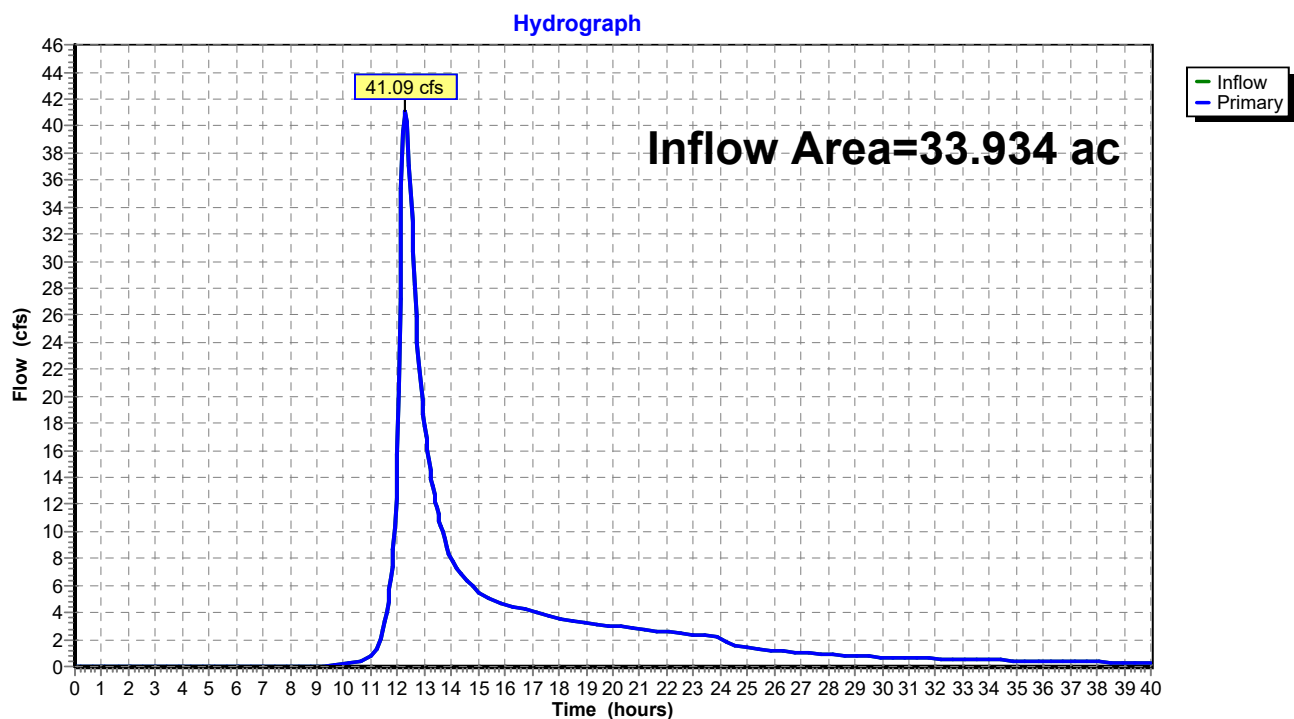
Stage-Area-Storage for Pond B-28: Basin #28 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
169.81	3,860	9,484	170.33	4,225	11,591
169.82	3,868	9,523	170.34	4,231	11,633
169.83	3,876	9,561	170.35	4,237	11,676
169.84	3,884	9,600	170.36	4,244	11,718
169.85	3,892	9,639	170.37	4,250	11,760
169.86	3,900	9,678	170.38	4,257	11,803
169.87	3,908	9,717	170.39	4,263	11,846
169.88	3,916	9,756	170.40	4,270	11,888
169.89	3,924	9,795	170.41	4,276	11,931
169.90	3,932	9,835	170.42	4,282	11,974
169.91	3,940	9,874	170.43	4,289	12,017
169.92	3,948	9,913	170.44	4,295	12,059
169.93	3,956	9,953	170.45	4,302	12,102
169.94	3,964	9,993	170.46	4,308	12,146
169.95	3,972	10,032	170.47	4,315	12,189
169.96	3,980	10,072	170.48	4,321	12,232
169.97	3,988	10,112	170.49	4,328	12,275
169.98	3,996	10,152	170.50	4,334	12,318
169.99	4,004	10,192			
170.00	4,012	10,232			
170.01	4,018	10,272			
170.02	4,025	10,312			
170.03	4,031	10,353			
170.04	4,038	10,393			
170.05	4,044	10,433			
170.06	4,051	10,474			
170.07	4,057	10,514			
170.08	4,064	10,555			
170.09	4,070	10,596			
170.10	4,076	10,636			
170.11	4,083	10,677			
170.12	4,089	10,718			
170.13	4,096	10,759			
170.14	4,102	10,800			
170.15	4,109	10,841			
170.16	4,115	10,882			
170.17	4,121	10,923			
170.18	4,128	10,964			
170.19	4,134	11,006			
170.20	4,141	11,047			
170.21	4,147	11,089			
170.22	4,154	11,130			
170.23	4,160	11,172			
170.24	4,167	11,213			
170.25	4,173	11,255			
170.26	4,179	11,297			
170.27	4,186	11,339			
170.28	4,192	11,380			
170.29	4,199	11,422			
170.30	4,205	11,464			
170.31	4,212	11,507			
170.32	4,218	11,549			

Summary for Link PDA-2: Proposed Drainage Area #2

Inflow Area = 33.934 ac, 26.90% Impervious, Inflow Depth > 2.75" for Current 10 yr event
Inflow = 41.09 cfs @ 12.30 hrs, Volume= 7.777 af
Primary = 41.09 cfs @ 12.30 hrs, Volume= 7.777 af, Atten= 0%, Lag= 0.0 min
Routed to nonexistent node DP-1

Primary outflow = Inflow, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs

Link PDA-2: Proposed Drainage Area #2

Summary for Subcatchment 18I: PDA-18 (impervious)

Runoff = 3.53 cfs @ 12.17 hrs, Volume= 0.313 af, Depth= 8.35"
 Routed to Pond B-18 : Basin #18

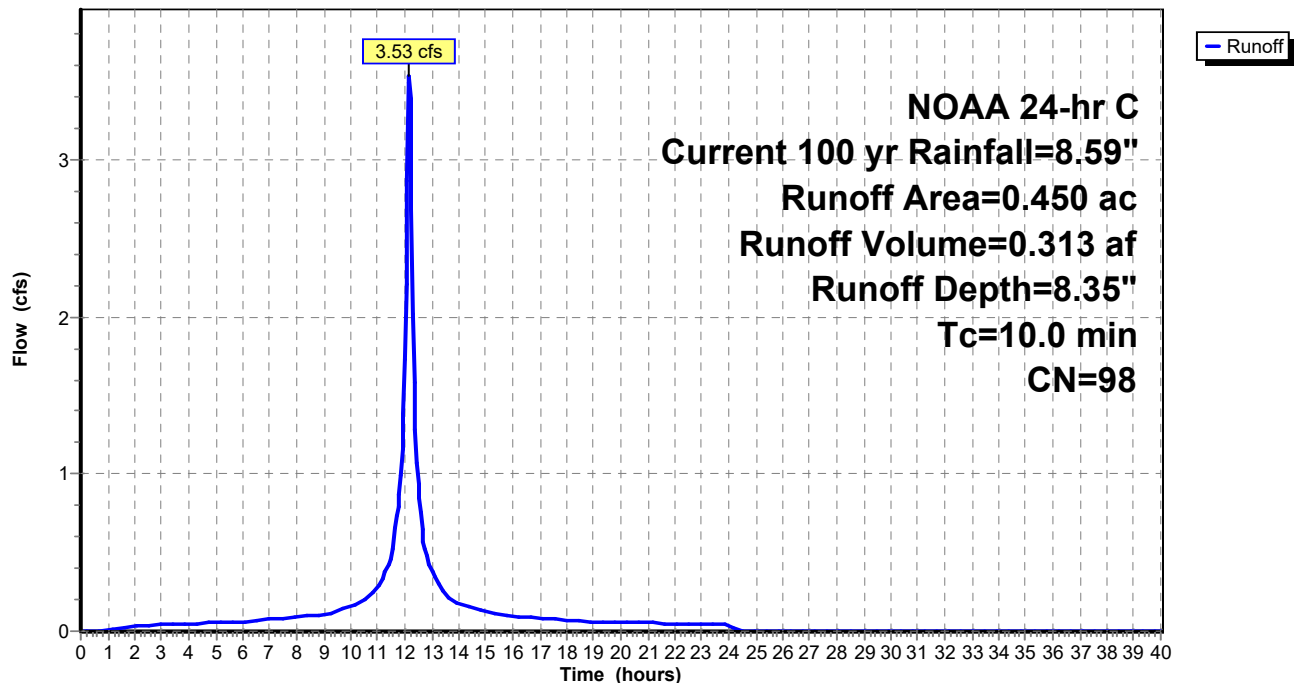
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 NOAA 24-hr C Current 100 yr Rainfall=8.59"

Area (ac)	CN	Description
* 0.000	98	Pavement, HSG C
* 0.450	98	Roof, HSG C
* 0.000	98	Concrete, HSG C
0.450	98	Weighted Average
0.450		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.0					Direct Entry,

Subcatchment 18I: PDA-18 (impervious)

Hydrograph



Summary for Subcatchment 18P: PDA-18 (pervious)

Runoff = 5.74 cfs @ 12.17 hrs, Volume= 0.437 af, Depth= 5.46"
 Routed to Pond B-18 : Basin #18

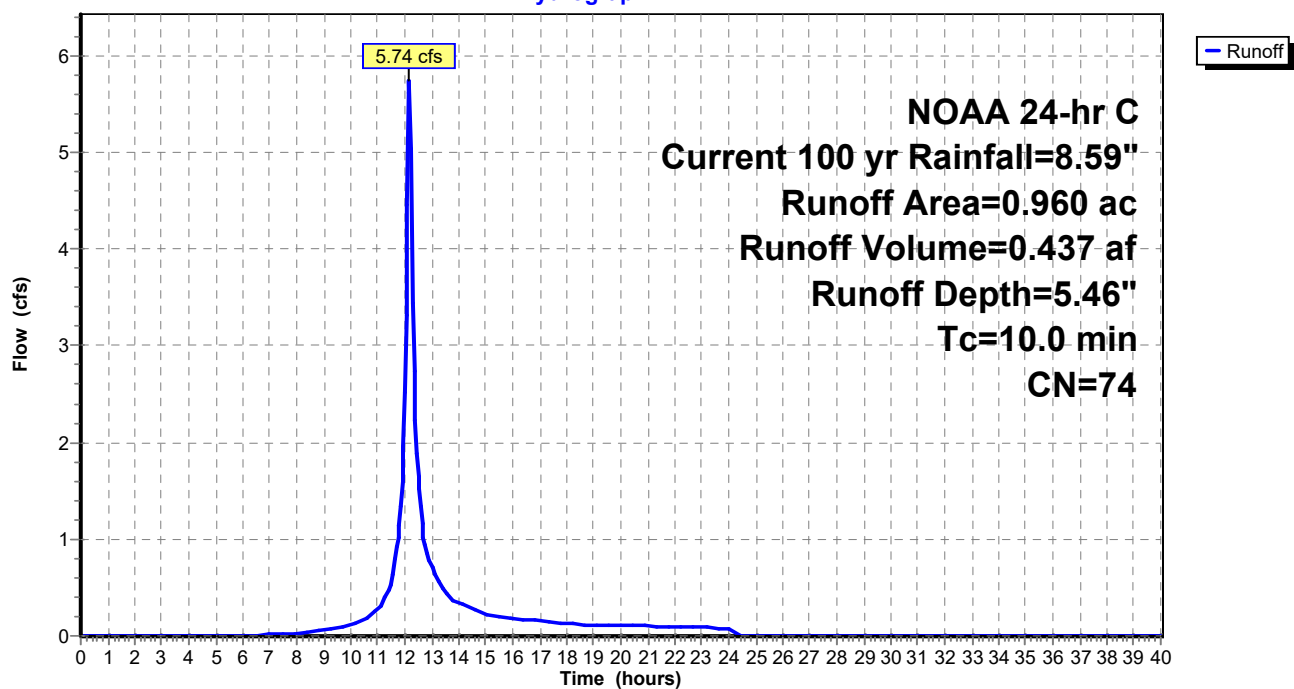
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 NOAA 24-hr C Current 100 yr Rainfall=8.59"

Area (ac)	CN	Description
0.960	74	>75% Grass cover, Good, HSG C
0.960		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.0					Direct Entry,

Subcatchment 18P: PDA-18 (pervious)

Hydrograph



Summary for Subcatchment 19I: PDA-19 (impervious)

Runoff = 4.69 cfs @ 12.17 hrs, Volume= 0.415 af, Depth= 8.35"
 Routed to Pond B-19 : Basin #19

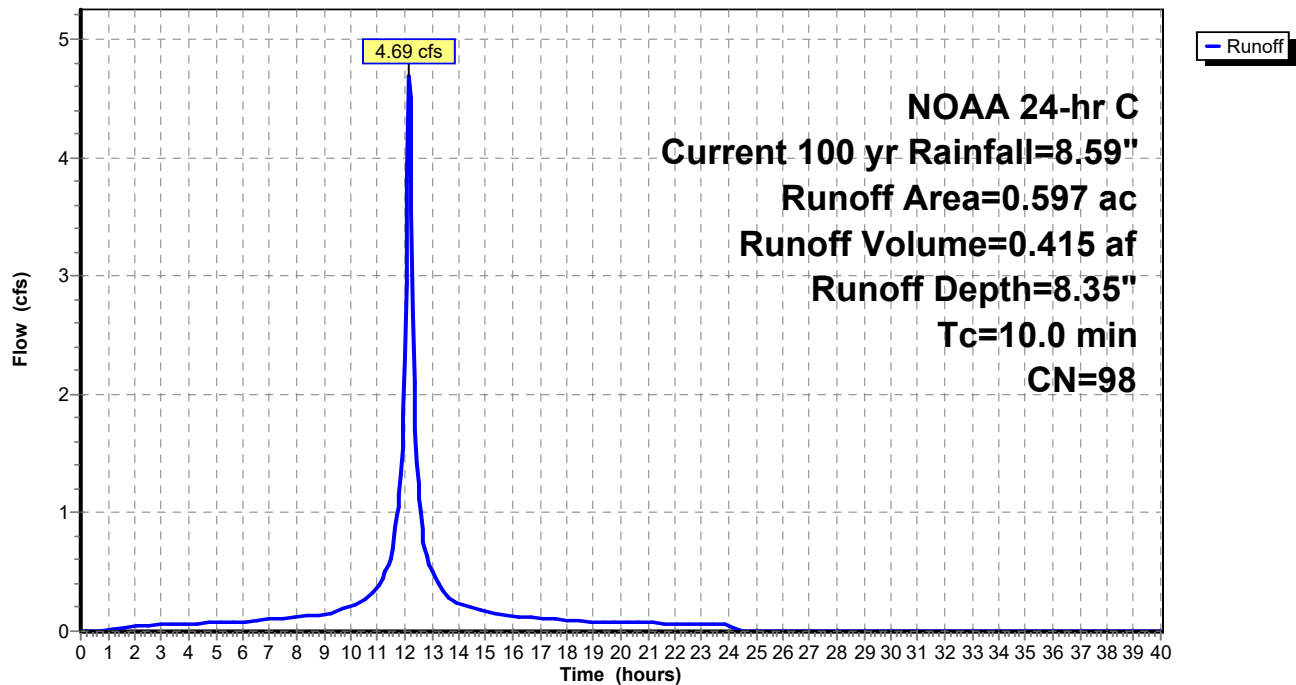
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 NOAA 24-hr C Current 100 yr Rainfall=8.59"

Area (ac)	CN	Description
* 0.132	98	Pavement, HSG C
* 0.450	98	Roof, HSG C
* 0.015	98	Concrete, HSG C
0.597	98	Weighted Average
0.597		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.0					Direct Entry,

Subcatchment 19I: PDA-19 (impervious)

Hydrograph



Summary for Subcatchment 19P: PDA-19 (pervious)

Runoff = 6.69 cfs @ 12.17 hrs, Volume= 0.508 af, Depth= 5.46"
 Routed to Pond B-19 : Basin #19

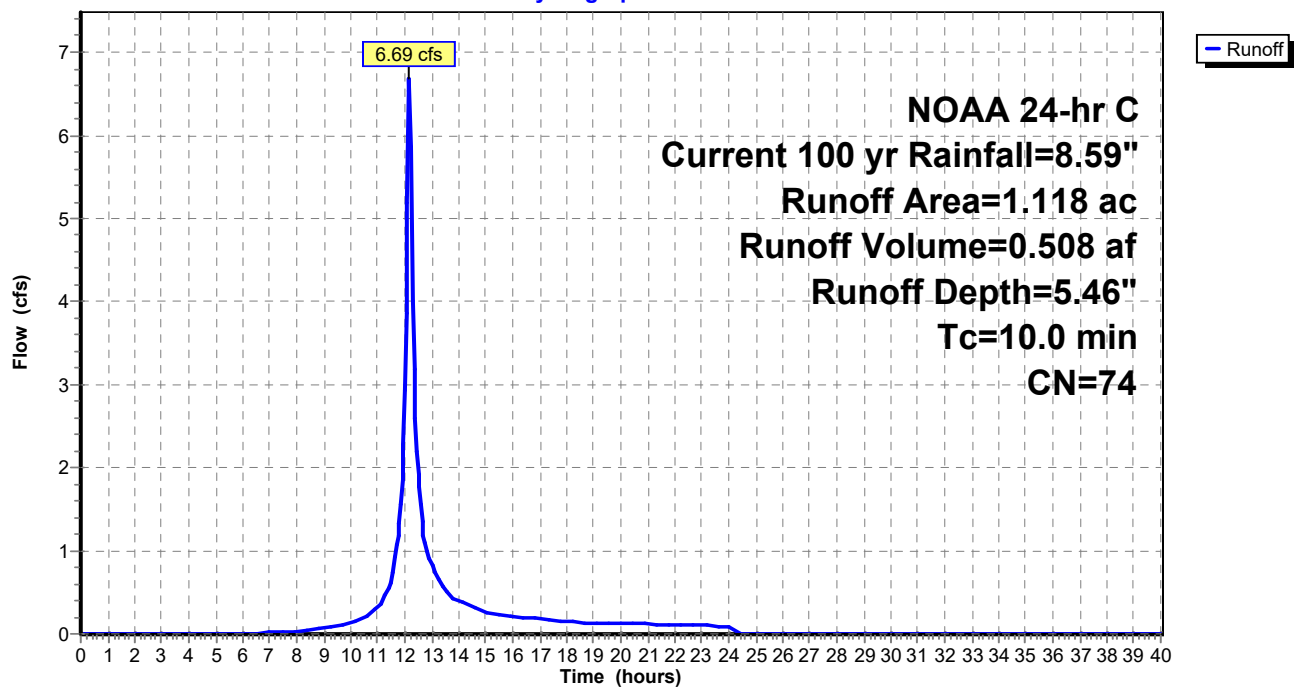
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 NOAA 24-hr C Current 100 yr Rainfall=8.59"

Area (ac)	CN	Description
1.118	74	>75% Grass cover, Good, HSG C
1.118		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.0					Direct Entry,

Subcatchment 19P: PDA-19 (pervious)

Hydrograph



Summary for Subcatchment 20I: PDA-20 (impervious)

Runoff = 8.87 cfs @ 12.17 hrs, Volume= 0.786 af, Depth= 8.35"
 Routed to Pond B-20 : Basin #20

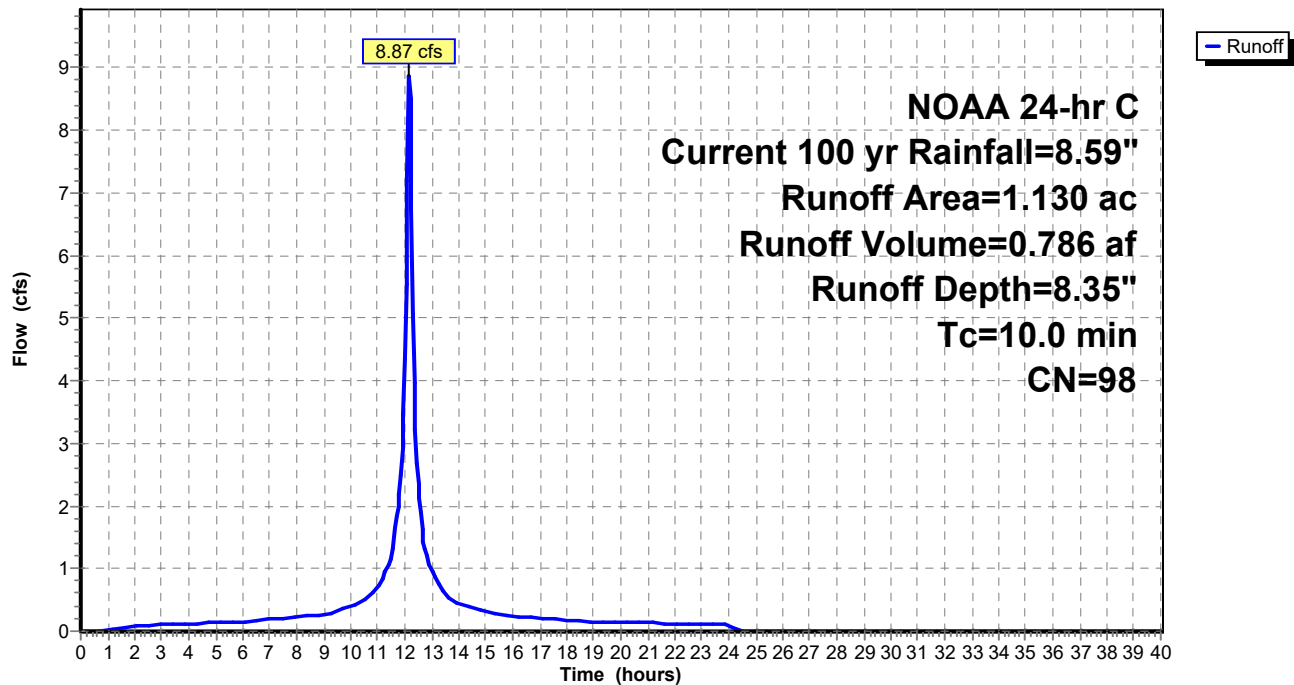
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 NOAA 24-hr C Current 100 yr Rainfall=8.59"

Area (ac)	CN	Description
* 0.572	98	Pavement, HSG C
* 0.450	98	Roof, HSG C
* 0.108	98	Concrete, HSC C
1.130	98	Weighted Average
1.130		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.0					Direct Entry,

Subcatchment 20I: PDA-20 (impervious)

Hydrograph



Summary for Subcatchment 20P: PDA-20 (pervious)

Runoff = 7.91 cfs @ 12.17 hrs, Volume= 0.602 af, Depth= 5.46"
 Routed to Pond B-20 : Basin #20

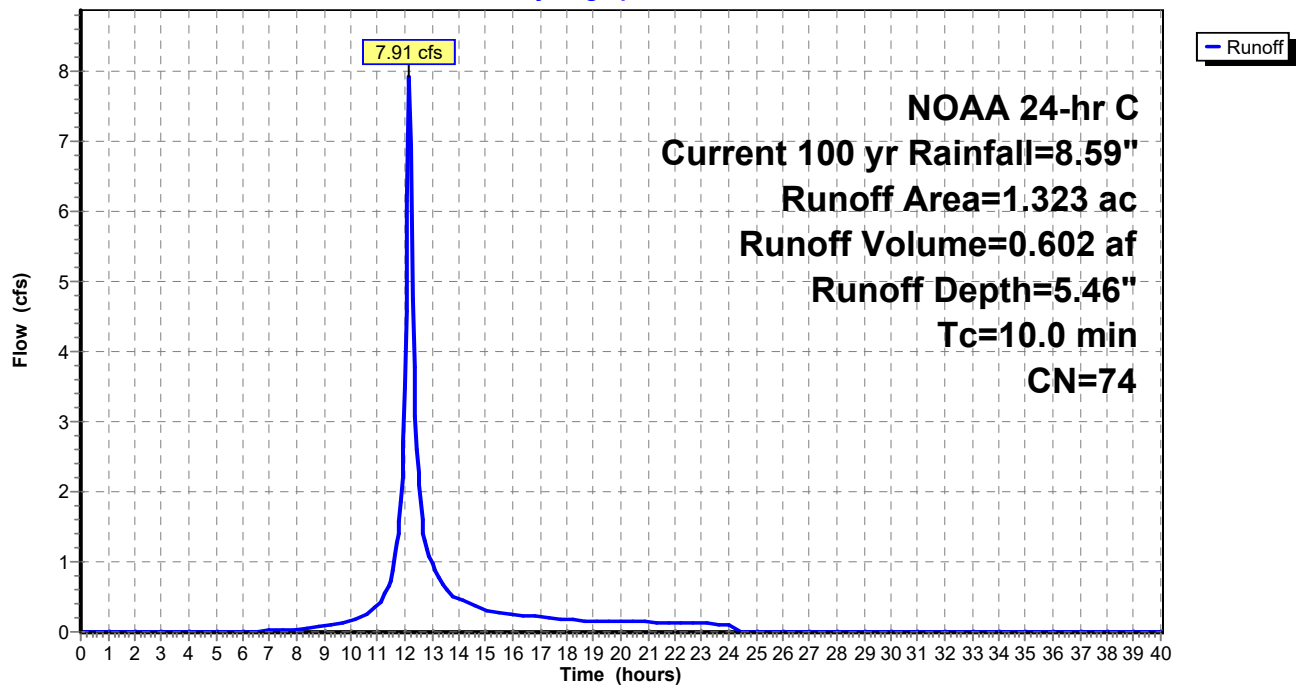
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 NOAA 24-hr C Current 100 yr Rainfall=8.59"

Area (ac)	CN	Description
1.323	74	>75% Grass cover, Good, HSG C
1.323		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.0					Direct Entry,

Subcatchment 20P: PDA-20 (pervious)

Hydrograph



Summary for Subcatchment 21I: PDA-21 (impervious)

Runoff = 6.96 cfs @ 12.17 hrs, Volume= 0.616 af, Depth= 8.35"
 Routed to Pond B-21 : Basin #21

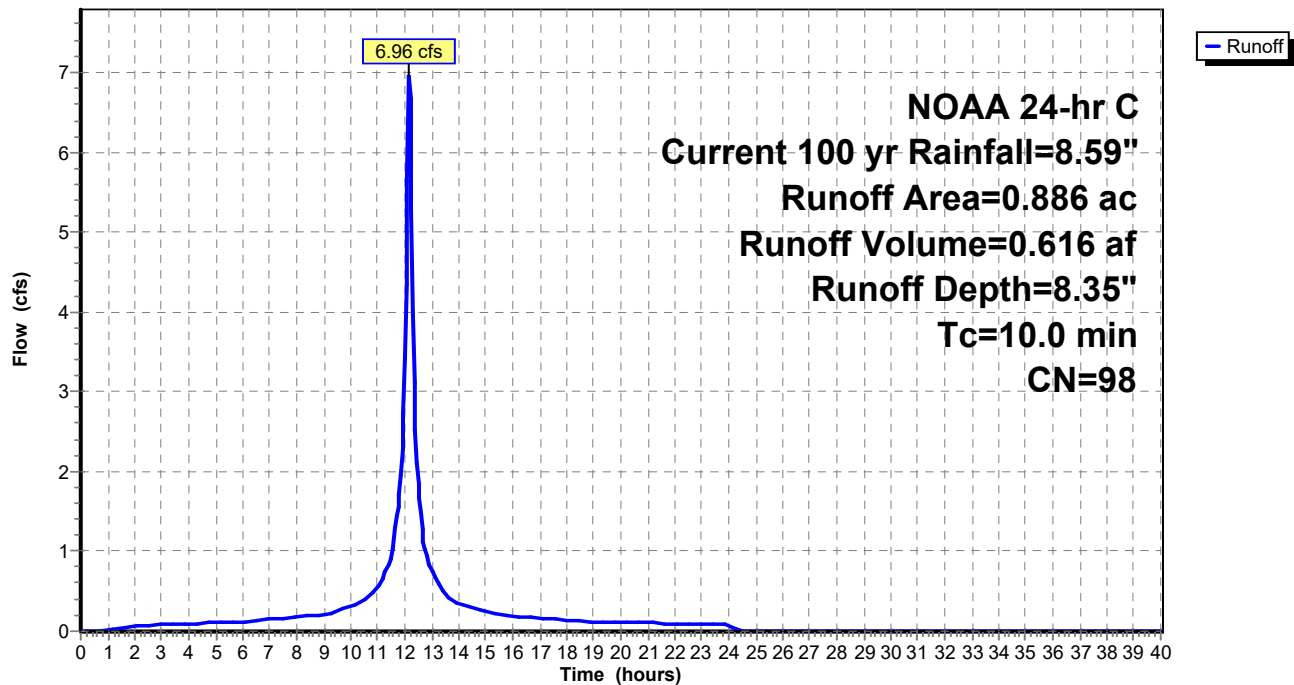
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 NOAA 24-hr C Current 100 yr Rainfall=8.59"

Area (ac)	CN	Description
* 0.511	98	Pavement, HSG C
* 0.321	98	Roof, HSG C
* 0.054	98	Concrete, HSC C
0.886	98	Weighted Average
0.886		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.0					Direct Entry,

Subcatchment 21I: PDA-21 (impervious)

Hydrograph



Summary for Subcatchment 21P: PDA-21 (pervious)

Runoff = 9.65 cfs @ 12.17 hrs, Volume= 0.734 af, Depth= 5.46"
 Routed to Pond B-21 : Basin #21

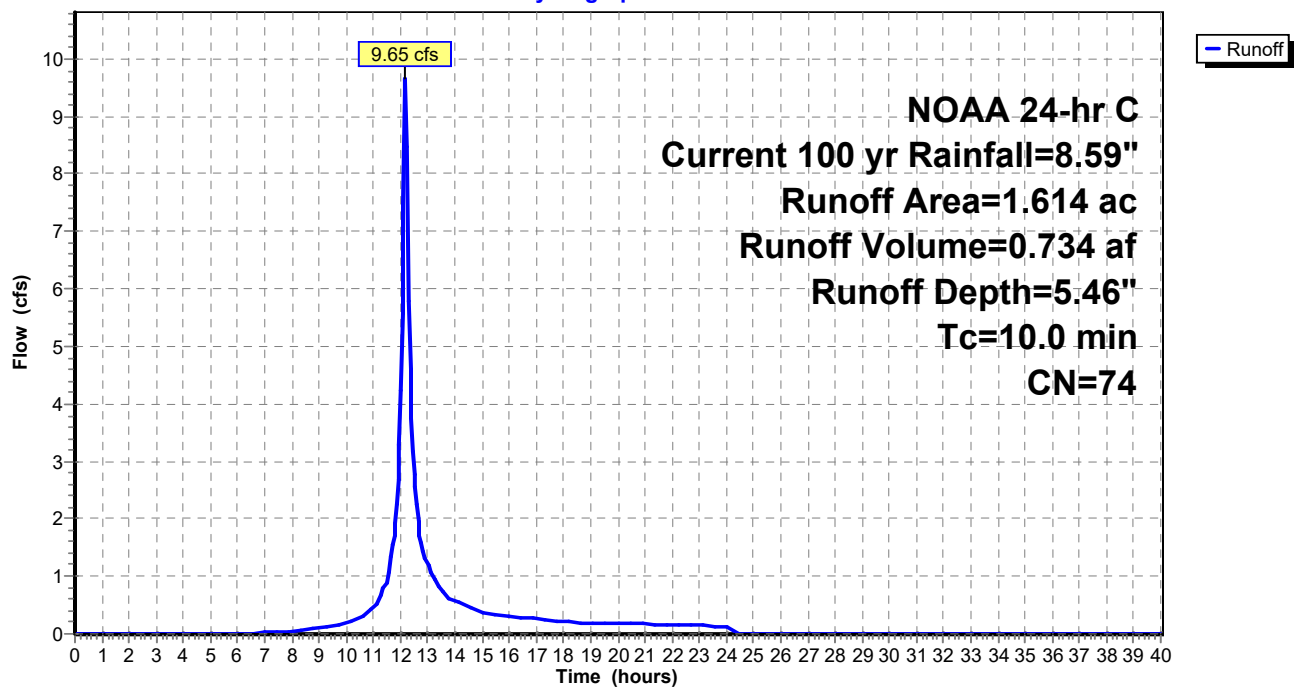
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 NOAA 24-hr C Current 100 yr Rainfall=8.59"

Area (ac)	CN	Description
1.614	74	>75% Grass cover, Good, HSG C
1.614		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.0					Direct Entry,

Subcatchment 21P: PDA-21 (pervious)

Hydrograph



Summary for Subcatchment 22I: PDA-22 (impervious)

Runoff = 6.38 cfs @ 12.17 hrs, Volume= 0.566 af, Depth= 8.35"
 Routed to Pond B-22 : Basin #22

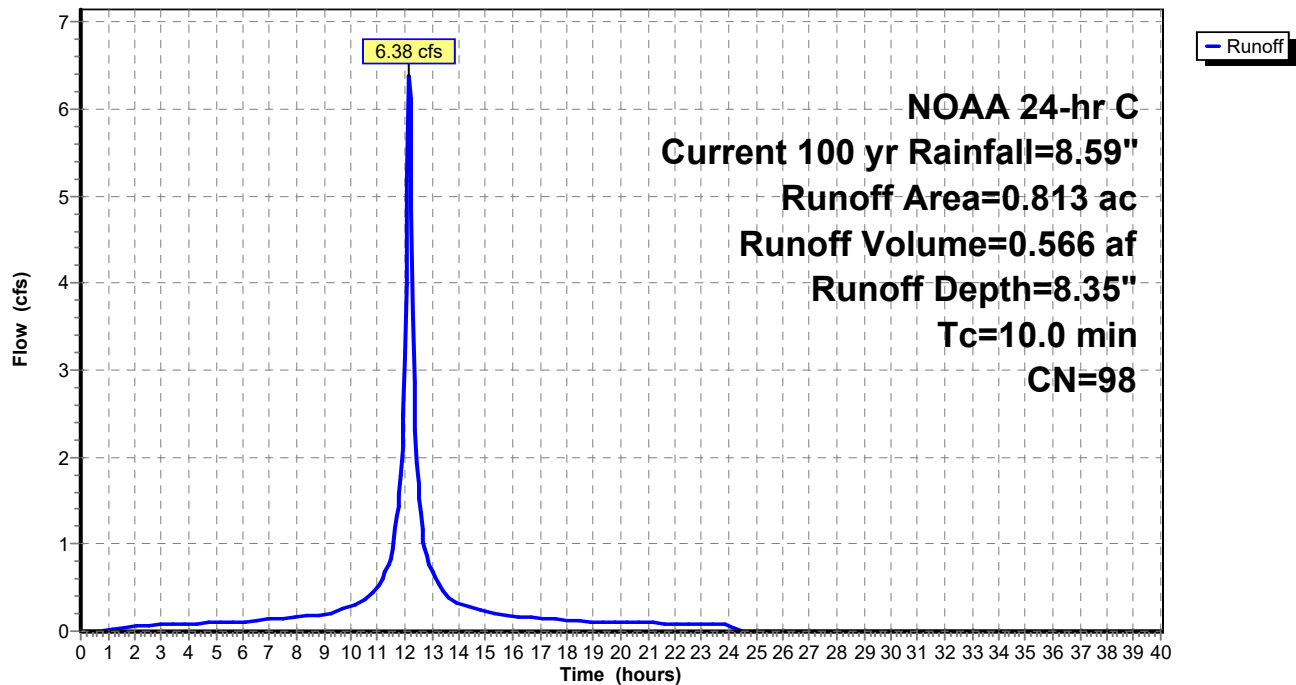
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 NOAA 24-hr C Current 100 yr Rainfall=8.59"

Area (ac)	CN	Description
* 0.083	98	Pavement, HSG C
* 0.707	98	Roof, HSG C
* 0.023	98	Concrete, HSC C
0.813	98	Weighted Average
0.813		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.0					Direct Entry,

Subcatchment 22I: PDA-22 (impervious)

Hydrograph



Summary for Subcatchment 22P: PDA-22 (pervious)

Runoff = 9.85 cfs @ 12.17 hrs, Volume= 0.749 af, Depth= 5.46"
 Routed to Pond B-22 : Basin #22

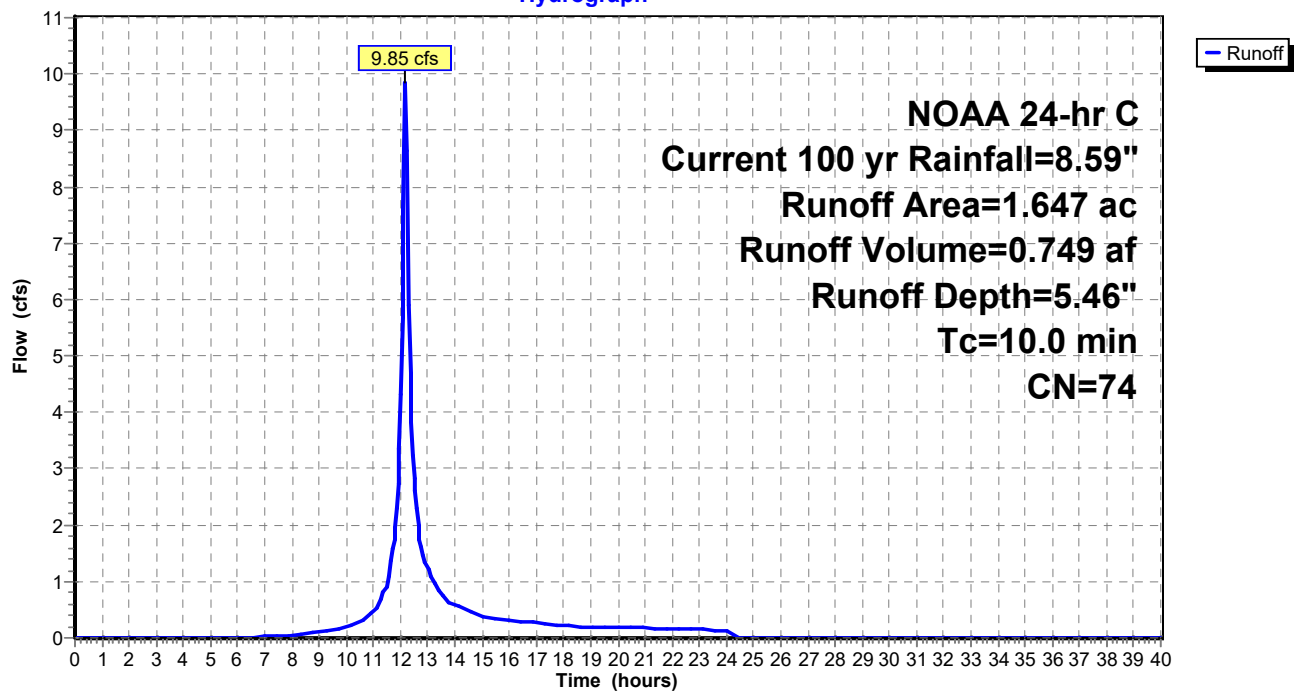
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 NOAA 24-hr C Current 100 yr Rainfall=8.59"

Area (ac)	CN	Description
1.647	74	>75% Grass cover, Good, HSG C
1.647		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.0					Direct Entry,

Subcatchment 22P: PDA-22 (pervious)

Hydrograph



Summary for Subcatchment 23I: PDA-23 (impervious)

Runoff = 6.45 cfs @ 12.17 hrs, Volume= 0.572 af, Depth= 8.35"
 Routed to Pond B-23 : Basin #23

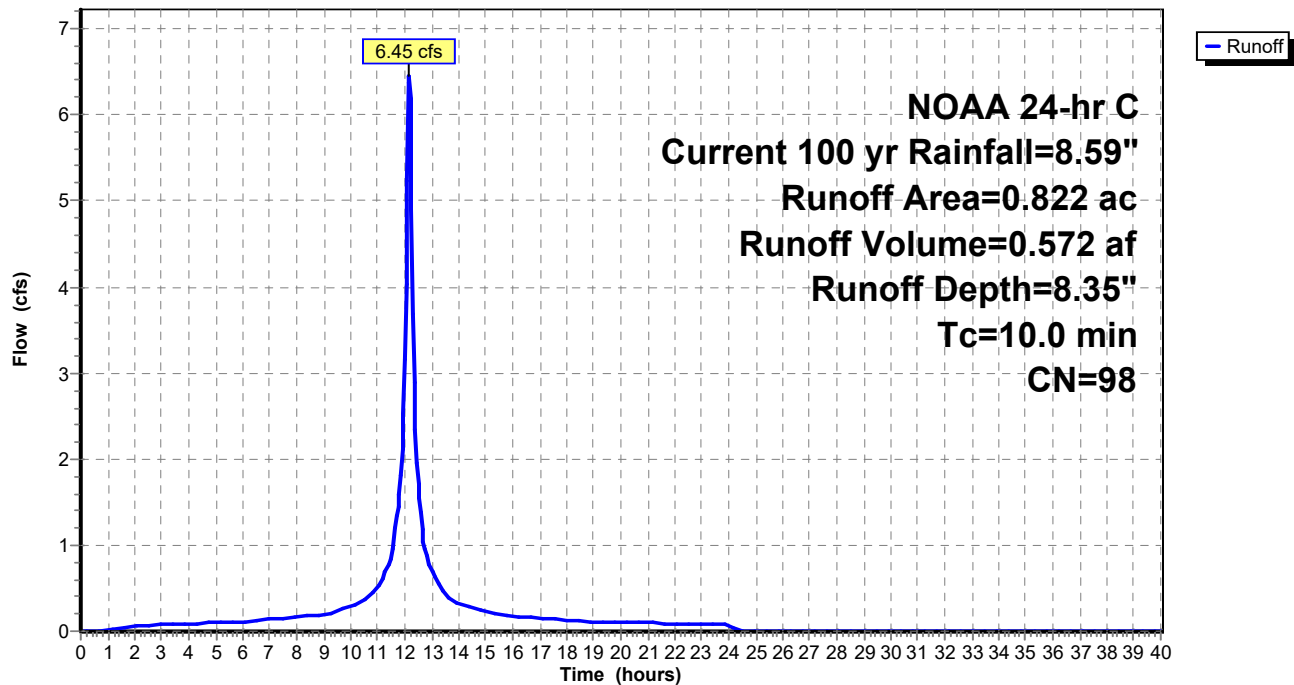
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 NOAA 24-hr C Current 100 yr Rainfall=8.59"

Area (ac)	CN	Description
* 0.719	98	Pavement, HSG C
* 0.103	98	Concrete, HSG C
0.000	98	Roofs, HSG C
0.822	98	Weighted Average
0.822		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.0					Direct Entry,

Subcatchment 23I: PDA-23 (impervious)

Hydrograph



Summary for Subcatchment 23P: PDA-23 (pervious)

Runoff = 9.73 cfs @ 12.17 hrs, Volume= 0.740 af, Depth= 5.46"
 Routed to Pond B-23 : Basin #23

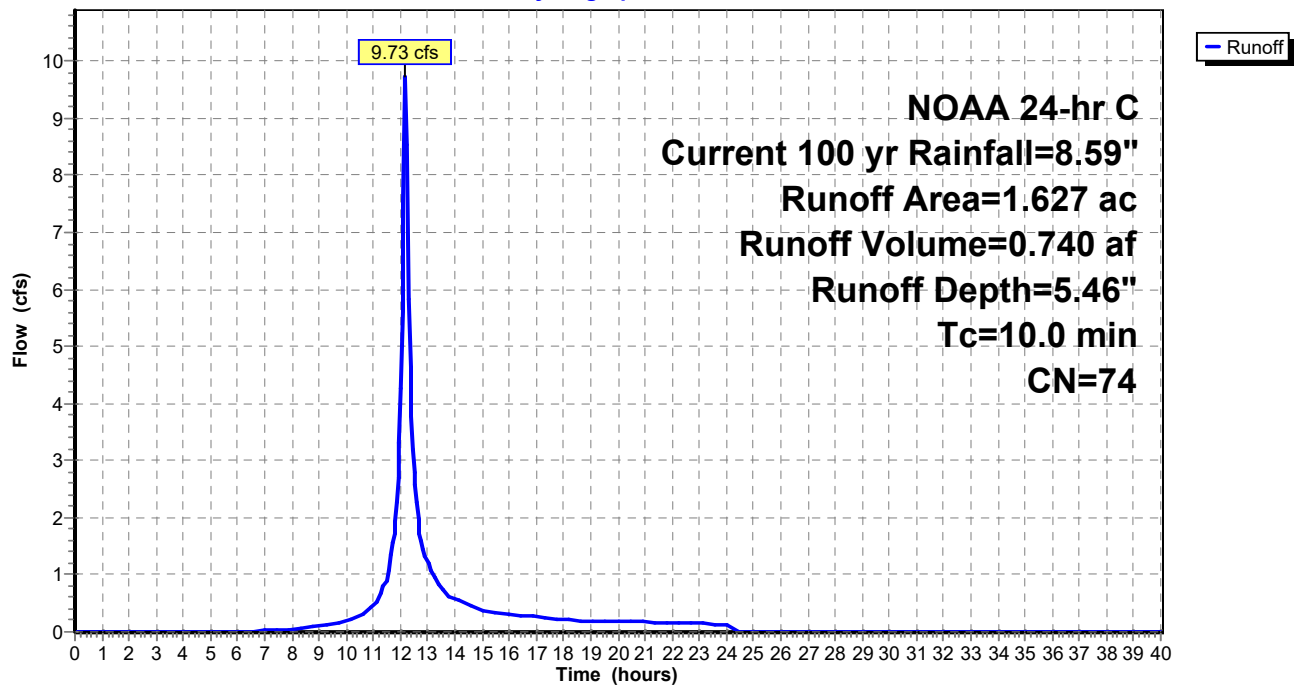
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 NOAA 24-hr C Current 100 yr Rainfall=8.59"

Area (ac)	CN	Description
1.627	74	>75% Grass cover, Good, HSG C
1.627		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.0					Direct Entry,

Subcatchment 23P: PDA-23 (pervious)

Hydrograph



Summary for Subcatchment 24I: PDA-24 (impervious)

Runoff = 7.08 cfs @ 12.17 hrs, Volume= 0.628 af, Depth= 8.35"
 Routed to Pond B-24 : Basin #24

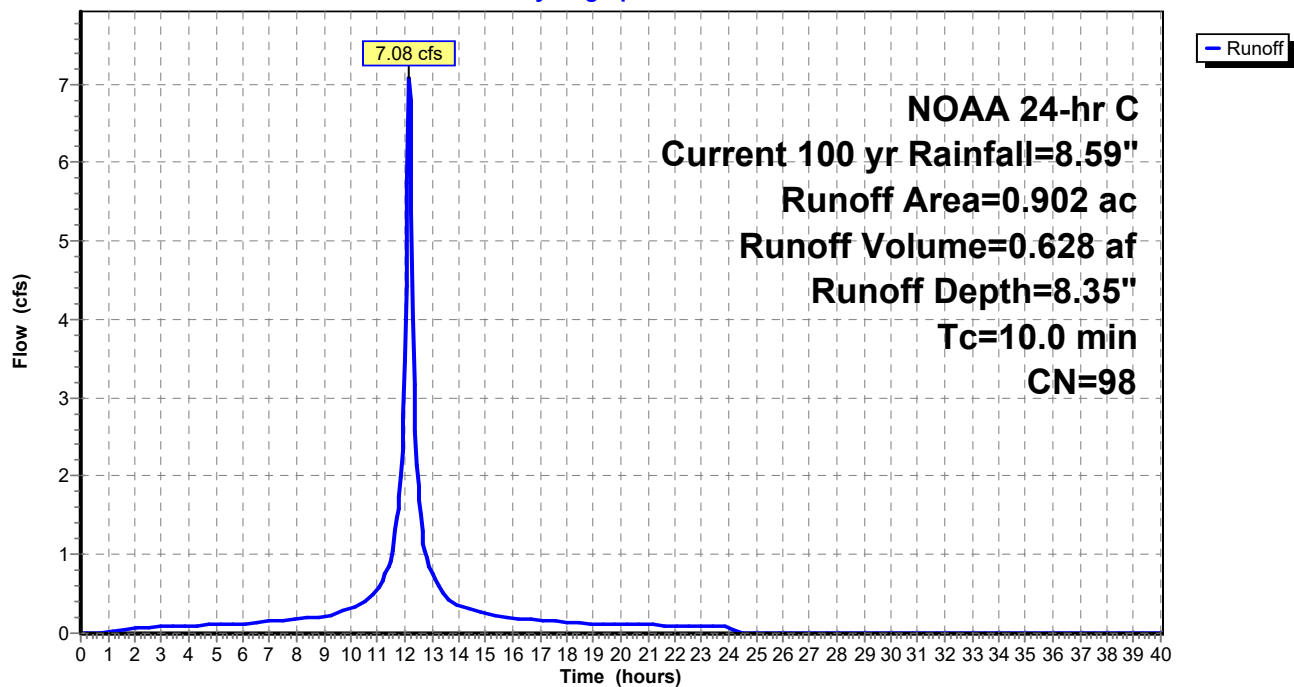
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 NOAA 24-hr C Current 100 yr Rainfall=8.59"

Area (ac)	CN	Description
* 0.277	98	Pavement, HSG C
* 0.579	98	Roof, HSG C
* 0.046	98	Concrete, HSC C
0.902	98	Weighted Average
0.902		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.0					Direct Entry,

Subcatchment 24I: PDA-24 (impervious)

Hydrograph



Summary for Subcatchment 24P: PDA-24 (pervious)

Runoff = 9.01 cfs @ 12.17 hrs, Volume= 0.685 af, Depth= 5.46"
 Routed to Pond B-24 : Basin #24

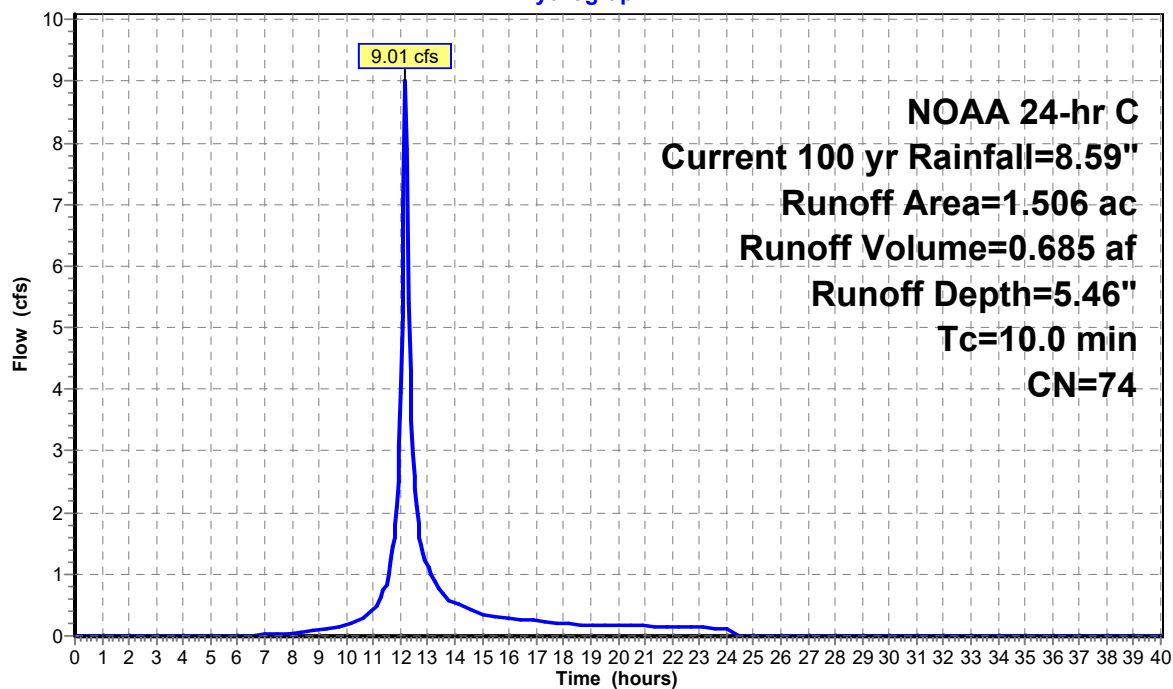
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 NOAA 24-hr C Current 100 yr Rainfall=8.59"

Area (ac)	CN	Description
1.506	74	>75% Grass cover, Good, HSG C
1.506		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.0					Direct Entry,

Subcatchment 24P: PDA-24 (pervious)

Hydrograph



Summary for Subcatchment 25I: PDA-25 (impervious)

Runoff = 6.86 cfs @ 12.17 hrs, Volume= 0.608 af, Depth= 8.35"
 Routed to Pond B-25 : Basin #25

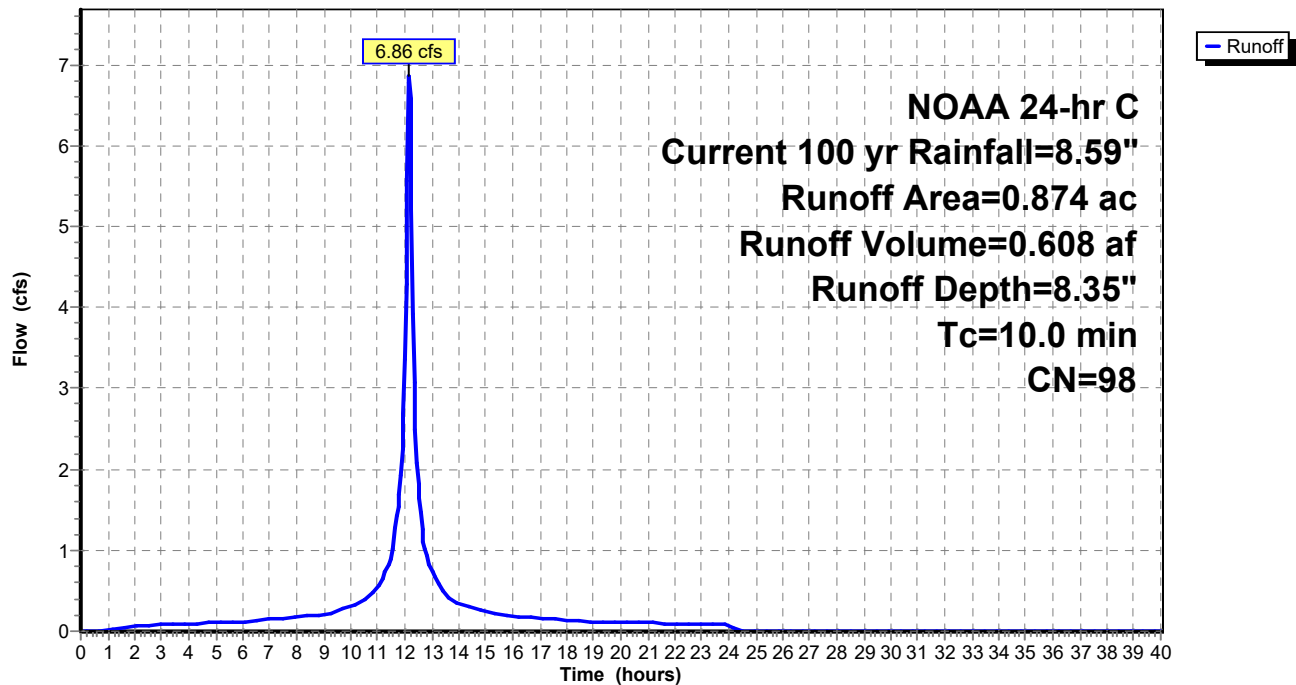
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 NOAA 24-hr C Current 100 yr Rainfall=8.59"

Area (ac)	CN	Description
* 0.388	98	Pavement, HSG C
* 0.450	98	Roof, HSG C
* 0.036	98	Concrete, HSC C
0.874	98	Weighted Average
0.874		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.0					Direct Entry,

Subcatchment 25I: PDA-25 (impervious)

Hydrograph



Summary for Subcatchment 25P: PDA-25 (pervious)

Runoff = 9.73 cfs @ 12.17 hrs, Volume= 0.739 af, Depth= 5.46"
 Routed to Pond B-25 : Basin #25

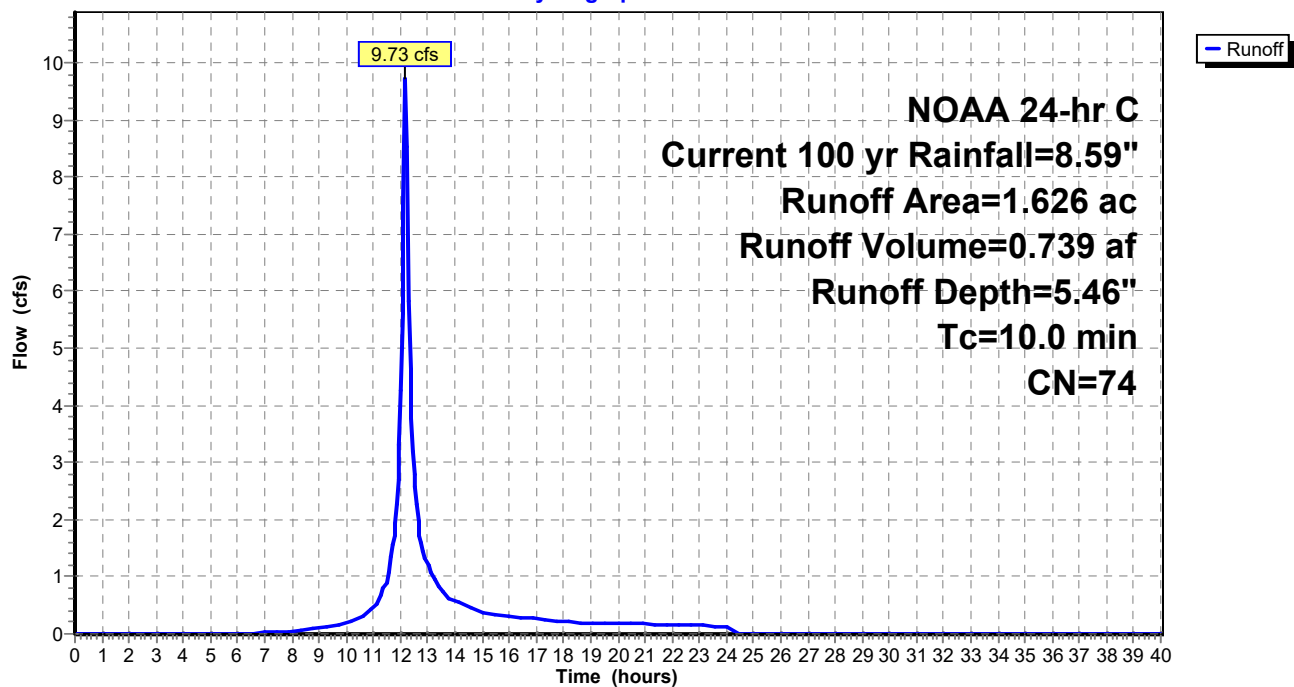
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 NOAA 24-hr C Current 100 yr Rainfall=8.59"

Area (ac)	CN	Description
1.626	74	>75% Grass cover, Good, HSG C
1.626		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.0					Direct Entry,

Subcatchment 25P: PDA-25 (pervious)

Hydrograph



Summary for Subcatchment 26I: PDA-26 (impervious)

Runoff = 7.41 cfs @ 12.17 hrs, Volume= 0.657 af, Depth= 8.35"
 Routed to Pond B-26 : Basin #26

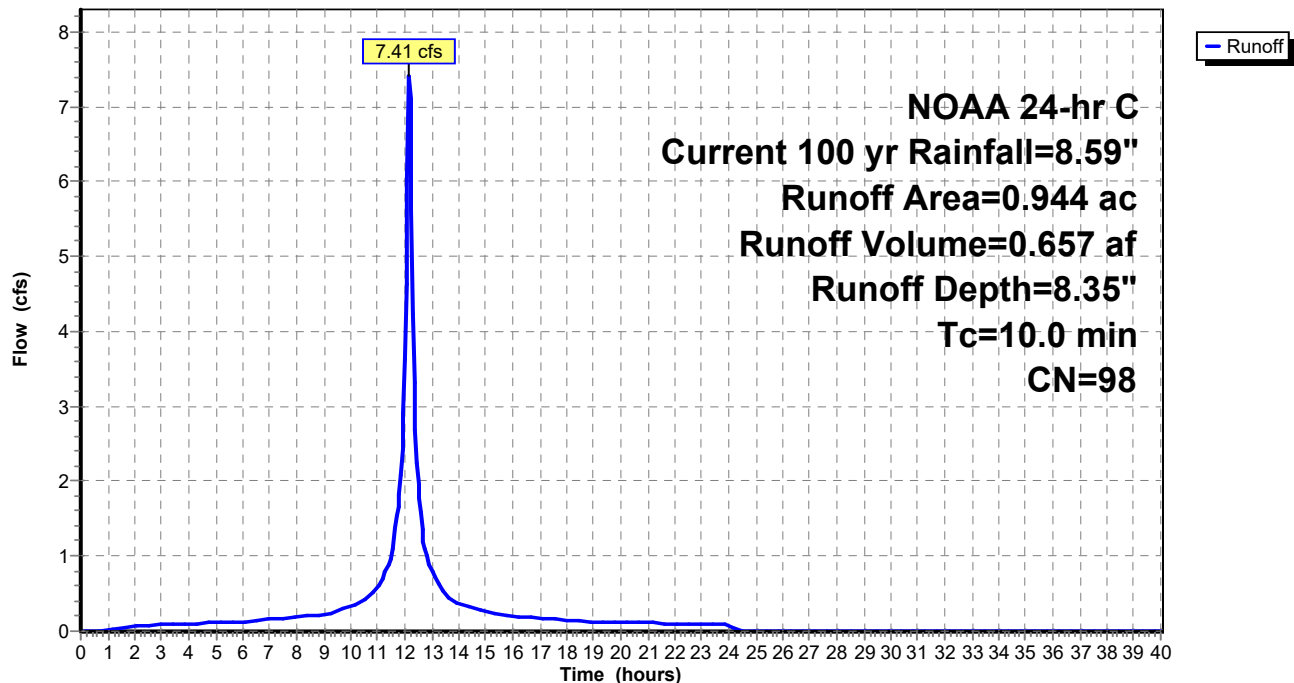
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 NOAA 24-hr C Current 100 yr Rainfall=8.59"

Area (ac)	CN	Description
* 0.000	98	Pavement, HSG C
* 0.944	98	Roof, HSG C
* 0.000	98	Concrete, HSC C
0.944	98	Weighted Average
0.944		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.0					Direct Entry,

Subcatchment 26I: PDA-26 (impervious)

Hydrograph



Summary for Subcatchment 26P: PDA-26 (pervious)

Runoff = 8.51 cfs @ 12.17 hrs, Volume= 0.647 af, Depth= 5.46"
 Routed to Pond B-26 : Basin #26

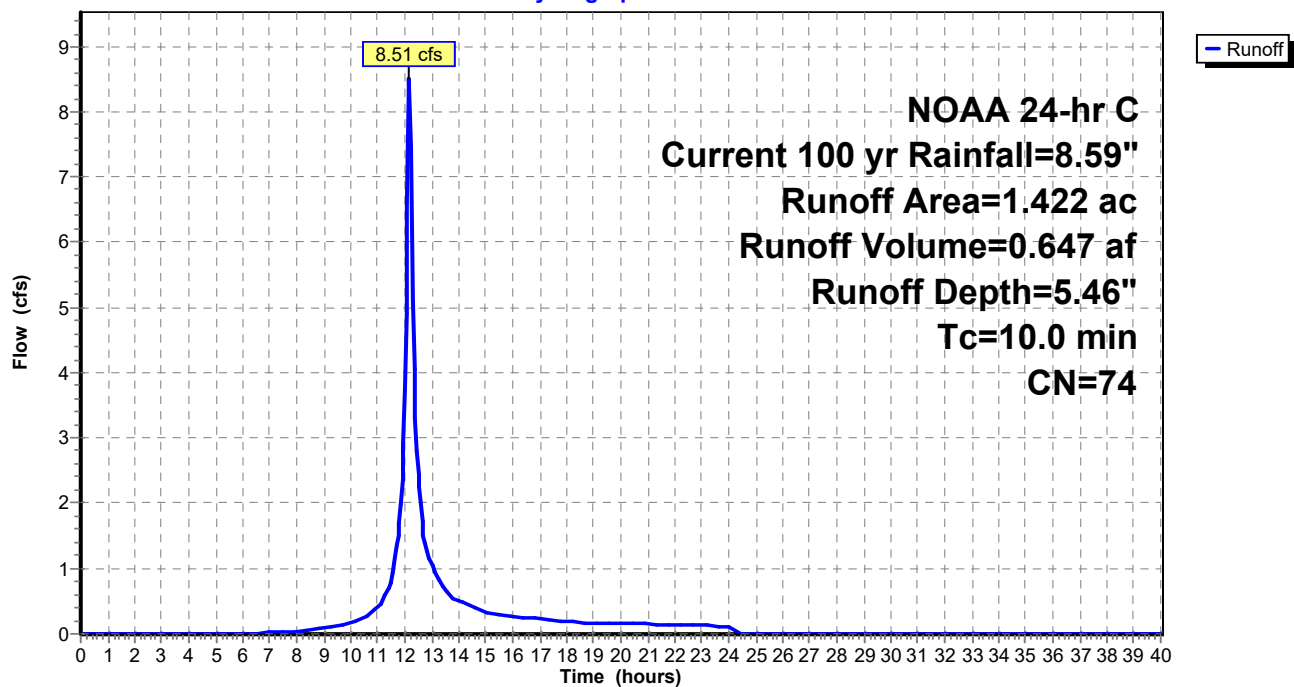
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 NOAA 24-hr C Current 100 yr Rainfall=8.59"

Area (ac)	CN	Description
1.422	74	>75% Grass cover, Good, HSG C
1.422		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.0					Direct Entry,

Subcatchment 26P: PDA-26 (pervious)

Hydrograph



Summary for Subcatchment 27I: PDA-27 (impervious)

Runoff = 7.05 cfs @ 12.17 hrs, Volume= 0.625 af, Depth= 8.35"
 Routed to Pond B-27 : Basin #27

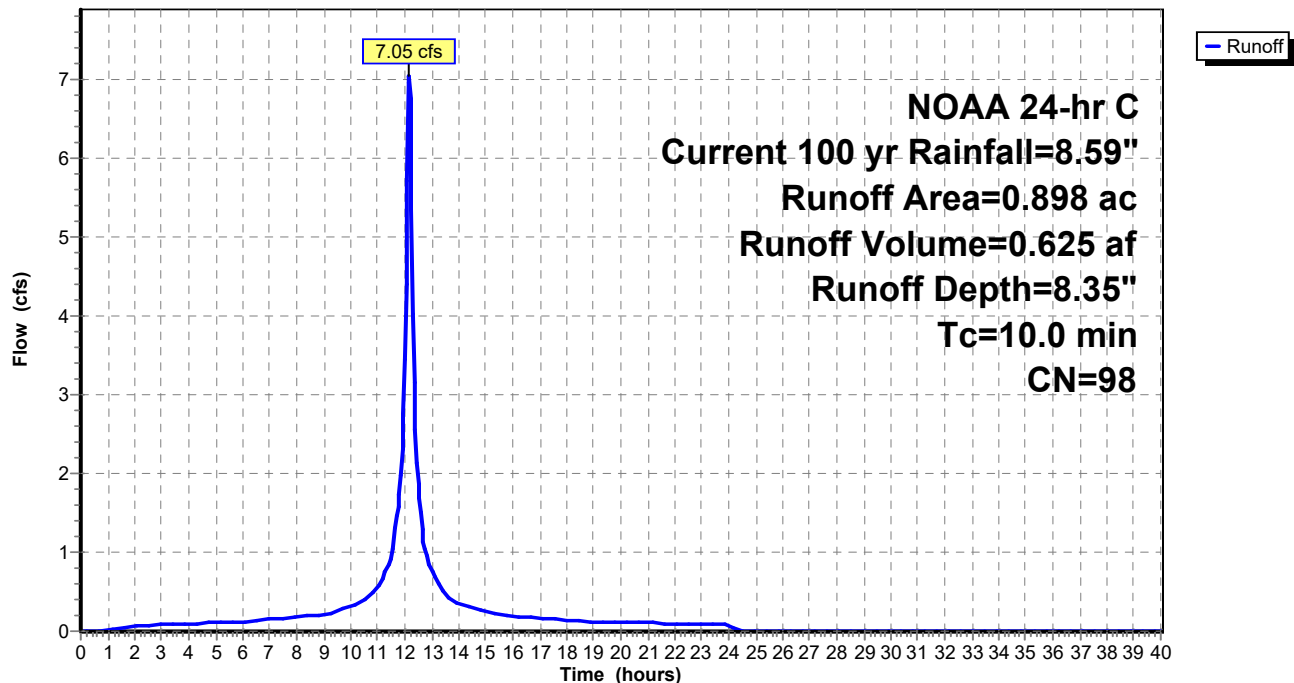
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 NOAA 24-hr C Current 100 yr Rainfall=8.59"

Area (ac)	CN	Description
* 0.233	98	Pavement, HSG C
* 0.643	98	Roof, HSG C
* 0.022	98	Concrete, HSC C
0.898	98	Weighted Average
0.898		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.0					Direct Entry,

Subcatchment 27I: PDA-27 (impervious)

Hydrograph



Summary for Subcatchment 27P: PDA-27 (pervious)

Runoff = 7.48 cfs @ 12.17 hrs, Volume= 0.597 af, Depth= 6.90"
 Routed to Pond B-27 : Basin #27

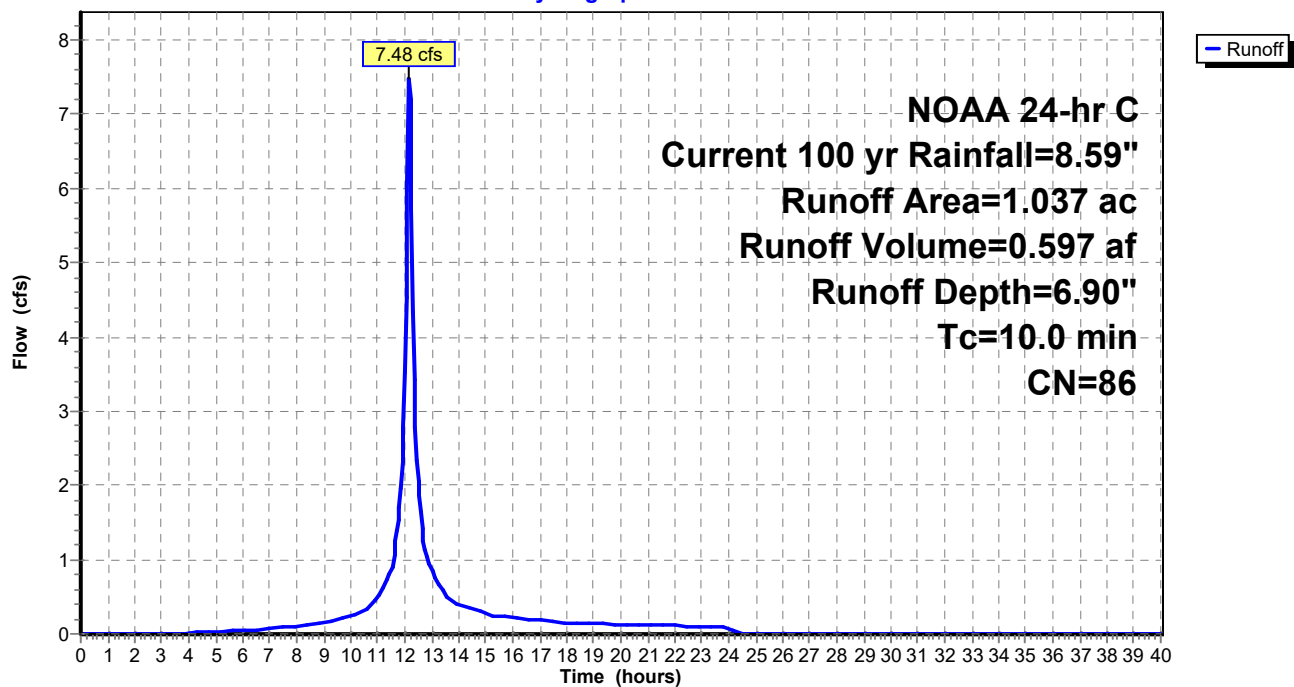
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 NOAA 24-hr C Current 100 yr Rainfall=8.59"

Area (ac)	CN	Description
1.037	86	<50% Grass cover, Poor, HSG C
1.037		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.0					Direct Entry,

Subcatchment 27P: PDA-27 (pervious)

Hydrograph



Summary for Subcatchment 28I: PDA-28 (impervious)

Runoff = 6.38 cfs @ 12.17 hrs, Volume= 0.566 af, Depth= 8.35"
 Routed to Pond B-28 : Basin #28

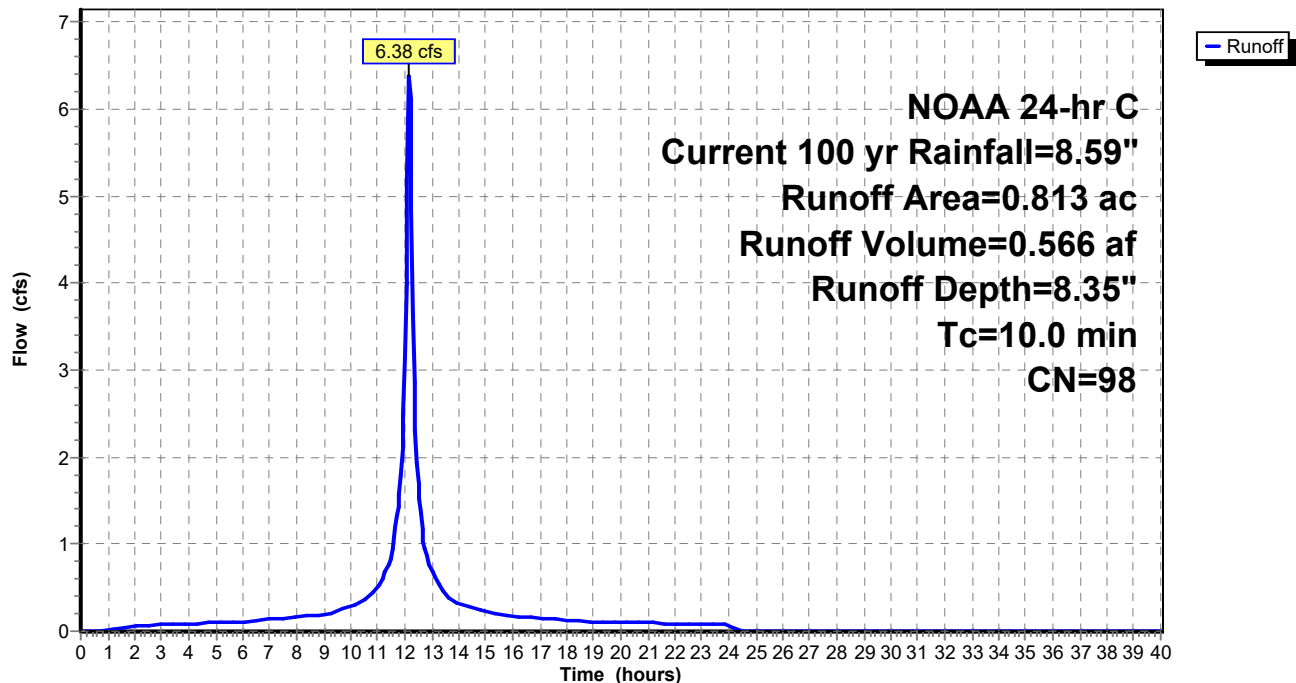
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 NOAA 24-hr C Current 100 yr Rainfall=8.59"

Area (ac)	CN	Description
* 0.235	98	Pavement, HSG C
* 0.541	98	Roof, HSG C
* 0.037	98	Concrete, HSC C
0.813	98	Weighted Average
0.813		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.0					Direct Entry,

Subcatchment 28I: PDA-28 (impervious)

Hydrograph



Summary for Subcatchment 28P: PDA-28 (pervious)

Runoff = 9.09 cfs @ 12.17 hrs, Volume= 0.691 af, Depth= 5.46"
 Routed to Pond B-28 : Basin #28

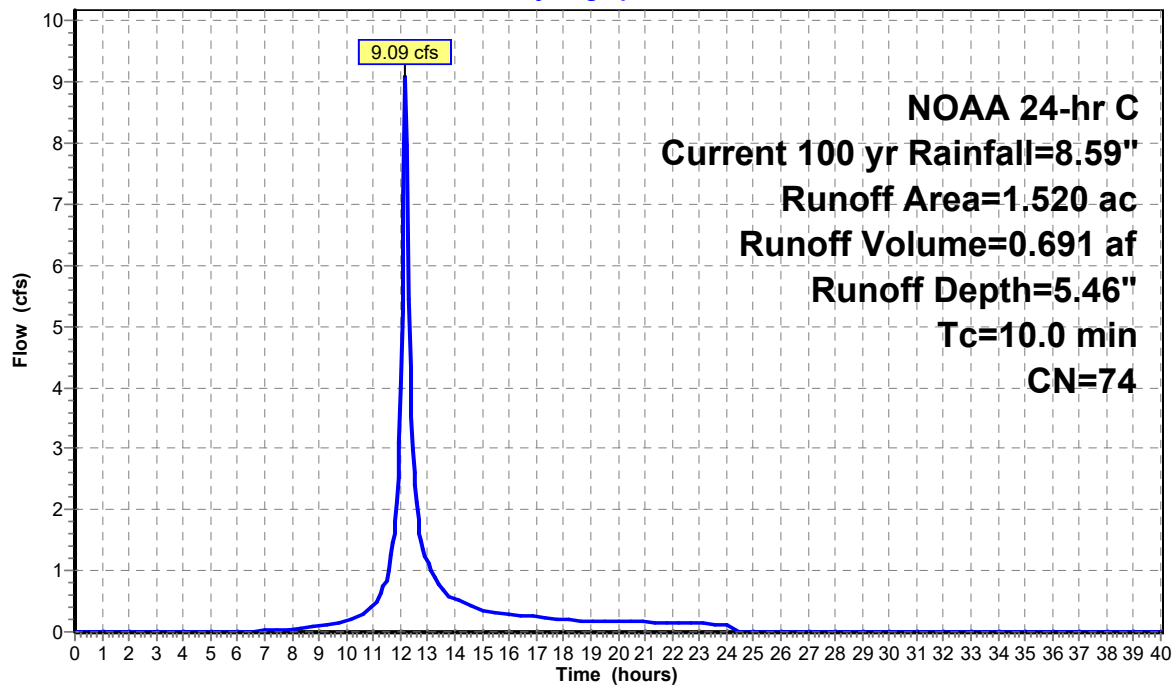
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 NOAA 24-hr C Current 100 yr Rainfall=8.59"

Area (ac)	CN	Description
1.520	74	>75% Grass cover, Good, HSG C
1.520		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.0					Direct Entry,

Subcatchment 28P: PDA-28 (pervious)

Hydrograph



Runoff

Summary for Subcatchment UPDA-2: PDA-2 (undetained)

Runoff = 56.26 cfs @ 12.17 hrs, Volume= 4.277 af, Depth= 5.46"
 Routed to Link PDA-2 : Proposed Drainage Area #2

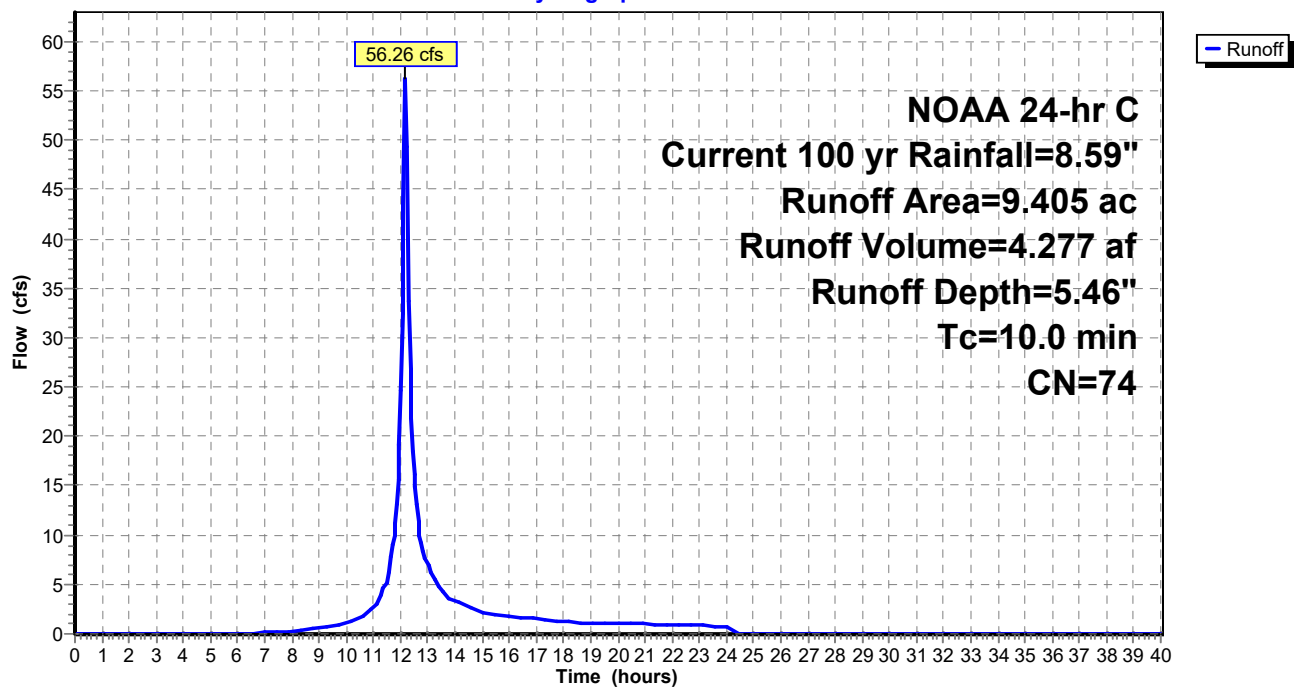
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 NOAA 24-hr C Current 100 yr Rainfall=8.59"

Area (ac)	CN	Description
9.405	74	>75% Grass cover, Good, HSG C
9.405		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.0					Direct Entry,

Subcatchment UPDA-2: PDA-2 (undetained)

Hydrograph



Summary for Pond B-18: Basin #18

Inflow Area = 1.410 ac, 31.91% Impervious, Inflow Depth = 6.38" for Current 100 yr event
 Inflow = 9.27 cfs @ 12.17 hrs, Volume= 0.750 af
 Outflow = 8.31 cfs @ 12.22 hrs, Volume= 0.704 af, Atten= 10%, Lag= 3.1 min
 Primary = 8.31 cfs @ 12.22 hrs, Volume= 0.704 af
 Routed to Link PDA-2 : Proposed Drainage Area #2

Routing by Stor-Ind method, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 Peak Elev= 190.08' @ 12.22 hrs Surf.Area= 3,292 sf Storage= 8,892 cf

Plug-Flow detention time= 192.4 min calculated for 0.704 af (94% of inflow)
 Center-of-Mass det. time= 159.3 min (947.9 - 788.6)

Volume	Invert	Avail.Storage	Storage Description
#1	185.65'	12,198 cf	Custom Stage Data (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
185.65	0	0	0
186.00	1,119	196	196
187.00	1,564	1,342	1,537
188.00	2,065	1,815	3,352
189.00	2,623	2,344	5,696
190.00	3,237	2,930	8,626
191.00	3,908	3,573	12,198

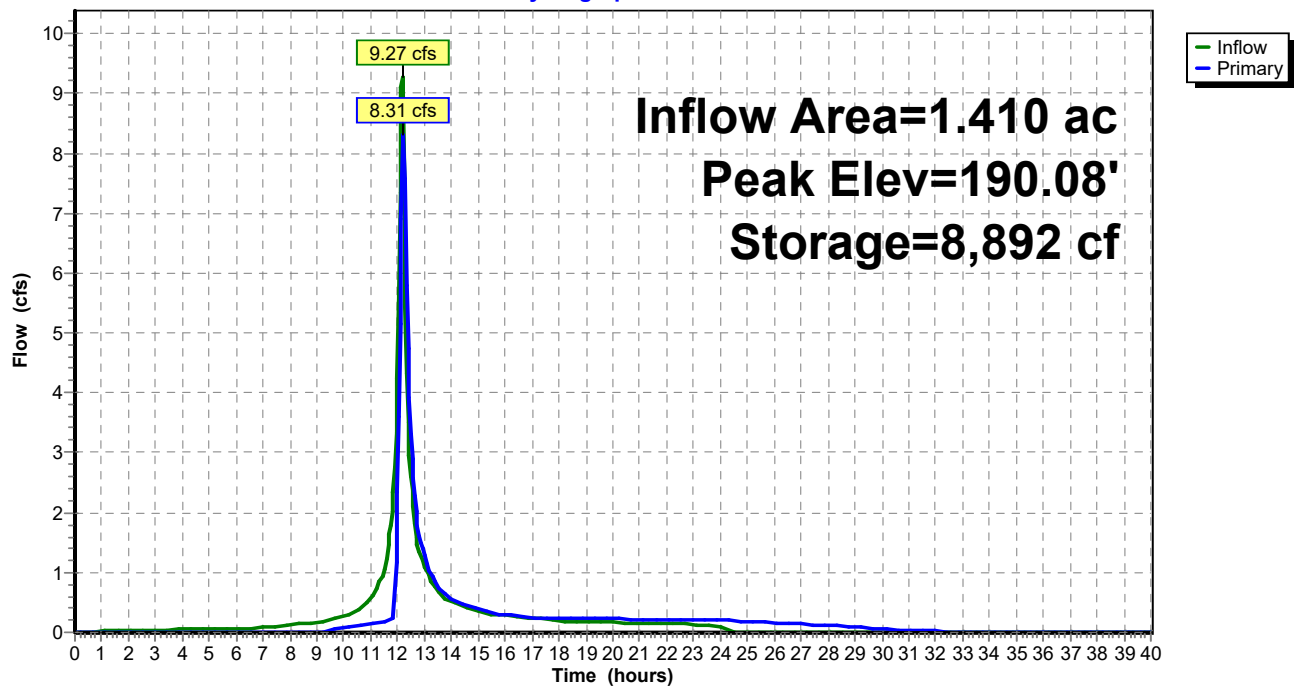
Device	Routing	Invert	Outlet Devices
#1	Primary	186.00'	15.0" Round Culvert L= 28.0' Ke= 0.500 Inlet / Outlet Invert= 186.00' / 185.86' S= 0.0050 '/' Cc= 0.900 n= 0.013, Flow Area= 1.23 sf
#2	Device 1	187.25'	2.5" Vert. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#3	Device 1	189.34'	4.0' long Sharp-Crested Rectangular Weir 2 End Contraction(s)
#4	Primary	190.95'	50.0' long + 3.0 '/' SideZ x 5.0' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 Coef. (English) 2.34 2.50 2.70 2.68 2.68 2.66 2.65 2.65 2.65 2.65 2.67 2.66 2.68 2.70 2.74 2.79 2.88

Primary OutFlow Max=8.15 cfs @ 12.22 hrs HW=190.07' (Free Discharge)

1=Culvert (Passes 8.15 cfs of 10.97 cfs potential flow)
 2=Orifice/Grate (Orifice Controls 0.27 cfs @ 7.94 fps)
 3=Sharp-Crested Rectangular Weir (Weir Controls 7.88 cfs @ 2.80 fps)
 4=Broad-Crested Rectangular Weir (Controls 0.00 cfs)

Pond B-18: Basin #18

Hydrograph



Stage-Discharge for Pond B-18: Basin #18

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
185.65	0.00	186.17	0.00	186.69	0.00	187.21	0.00
185.66	0.00	186.18	0.00	186.70	0.00	187.22	0.00
185.67	0.00	186.19	0.00	186.71	0.00	187.23	0.00
185.68	0.00	186.20	0.00	186.72	0.00	187.24	0.00
185.69	0.00	186.21	0.00	186.73	0.00	187.25	0.00
185.70	0.00	186.22	0.00	186.74	0.00	187.26	0.00
185.71	0.00	186.23	0.00	186.75	0.00	187.27	0.00
185.72	0.00	186.24	0.00	186.76	0.00	187.28	0.00
185.73	0.00	186.25	0.00	186.77	0.00	187.29	0.00
185.74	0.00	186.26	0.00	186.78	0.00	187.30	0.00
185.75	0.00	186.27	0.00	186.79	0.00	187.31	0.01
185.76	0.00	186.28	0.00	186.80	0.00	187.32	0.01
185.77	0.00	186.29	0.00	186.81	0.00	187.33	0.01
185.78	0.00	186.30	0.00	186.82	0.00	187.34	0.01
185.79	0.00	186.31	0.00	186.83	0.00	187.35	0.02
185.80	0.00	186.32	0.00	186.84	0.00	187.36	0.02
185.81	0.00	186.33	0.00	186.85	0.00	187.37	0.02
185.82	0.00	186.34	0.00	186.86	0.00	187.38	0.03
185.83	0.00	186.35	0.00	186.87	0.00	187.39	0.03
185.84	0.00	186.36	0.00	186.88	0.00	187.40	0.03
185.85	0.00	186.37	0.00	186.89	0.00	187.41	0.04
185.86	0.00	186.38	0.00	186.90	0.00	187.42	0.04
185.87	0.00	186.39	0.00	186.91	0.00	187.43	0.05
185.88	0.00	186.40	0.00	186.92	0.00	187.44	0.05
185.89	0.00	186.41	0.00	186.93	0.00	187.45	0.05
185.90	0.00	186.42	0.00	186.94	0.00	187.46	0.05
185.91	0.00	186.43	0.00	186.95	0.00	187.47	0.06
185.92	0.00	186.44	0.00	186.96	0.00	187.48	0.06
185.93	0.00	186.45	0.00	186.97	0.00	187.49	0.06
185.94	0.00	186.46	0.00	186.98	0.00	187.50	0.06
185.95	0.00	186.47	0.00	186.99	0.00	187.51	0.06
185.96	0.00	186.48	0.00	187.00	0.00	187.52	0.07
185.97	0.00	186.49	0.00	187.01	0.00	187.53	0.07
185.98	0.00	186.50	0.00	187.02	0.00	187.54	0.07
185.99	0.00	186.51	0.00	187.03	0.00	187.55	0.07
186.00	0.00	186.52	0.00	187.04	0.00	187.56	0.07
186.01	0.00	186.53	0.00	187.05	0.00	187.57	0.08
186.02	0.00	186.54	0.00	187.06	0.00	187.58	0.08
186.03	0.00	186.55	0.00	187.07	0.00	187.59	0.08
186.04	0.00	186.56	0.00	187.08	0.00	187.60	0.08
186.05	0.00	186.57	0.00	187.09	0.00	187.61	0.08
186.06	0.00	186.58	0.00	187.10	0.00	187.62	0.08
186.07	0.00	186.59	0.00	187.11	0.00	187.63	0.09
186.08	0.00	186.60	0.00	187.12	0.00	187.64	0.09
186.09	0.00	186.61	0.00	187.13	0.00	187.65	0.09
186.10	0.00	186.62	0.00	187.14	0.00	187.66	0.09
186.11	0.00	186.63	0.00	187.15	0.00	187.67	0.09
186.12	0.00	186.64	0.00	187.16	0.00	187.68	0.09
186.13	0.00	186.65	0.00	187.17	0.00	187.69	0.10
186.14	0.00	186.66	0.00	187.18	0.00	187.70	0.10
186.15	0.00	186.67	0.00	187.19	0.00	187.71	0.10
186.16	0.00	186.68	0.00	187.20	0.00	187.72	0.10

Stage-Discharge for Pond B-18: Basin #18 (continued)

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
187.73	0.10	188.25	0.16	188.77	0.20	189.29	0.23
187.74	0.10	188.26	0.16	188.78	0.20	189.30	0.23
187.75	0.10	188.27	0.16	188.79	0.20	189.31	0.23
187.76	0.10	188.28	0.16	188.80	0.20	189.32	0.23
187.77	0.11	188.29	0.16	188.81	0.20	189.33	0.23
187.78	0.11	188.30	0.16	188.82	0.20	189.34	0.23
187.79	0.11	188.31	0.16	188.83	0.20	189.35	0.24
187.80	0.11	188.32	0.16	188.84	0.20	189.36	0.27
187.81	0.11	188.33	0.16	188.85	0.20	189.37	0.30
187.82	0.11	188.34	0.16	188.86	0.20	189.38	0.34
187.83	0.11	188.35	0.16	188.87	0.20	189.39	0.38
187.84	0.11	188.36	0.16	188.88	0.20	189.40	0.43
187.85	0.12	188.37	0.17	188.89	0.20	189.41	0.48
187.86	0.12	188.38	0.17	188.90	0.20	189.42	0.53
187.87	0.12	188.39	0.17	188.91	0.20	189.43	0.59
187.88	0.12	188.40	0.17	188.92	0.21	189.44	0.65
187.89	0.12	188.41	0.17	188.93	0.21	189.45	0.71
187.90	0.12	188.42	0.17	188.94	0.21	189.46	0.78
187.91	0.12	188.43	0.17	188.95	0.21	189.47	0.85
187.92	0.12	188.44	0.17	188.96	0.21	189.48	0.92
187.93	0.12	188.45	0.17	188.97	0.21	189.49	0.99
187.94	0.13	188.46	0.17	188.98	0.21	189.50	1.07
187.95	0.13	188.47	0.17	188.99	0.21	189.51	1.15
187.96	0.13	188.48	0.17	189.00	0.21	189.52	1.23
187.97	0.13	188.49	0.17	189.01	0.21	189.53	1.32
187.98	0.13	188.50	0.18	189.02	0.21	189.54	1.40
187.99	0.13	188.51	0.18	189.03	0.21	189.55	1.49
188.00	0.13	188.52	0.18	189.04	0.21	189.56	1.58
188.01	0.13	188.53	0.18	189.05	0.21	189.57	1.67
188.02	0.13	188.54	0.18	189.06	0.21	189.58	1.76
188.03	0.13	188.55	0.18	189.07	0.22	189.59	1.86
188.04	0.14	188.56	0.18	189.08	0.22	189.60	1.96
188.05	0.14	188.57	0.18	189.09	0.22	189.61	2.06
188.06	0.14	188.58	0.18	189.10	0.22	189.62	2.16
188.07	0.14	188.59	0.18	189.11	0.22	189.63	2.26
188.08	0.14	188.60	0.18	189.12	0.22	189.64	2.37
188.09	0.14	188.61	0.18	189.13	0.22	189.65	2.47
188.10	0.14	188.62	0.18	189.14	0.22	189.66	2.58
188.11	0.14	188.63	0.19	189.15	0.22	189.67	2.69
188.12	0.14	188.64	0.19	189.16	0.22	189.68	2.80
188.13	0.14	188.65	0.19	189.17	0.22	189.69	2.91
188.14	0.15	188.66	0.19	189.18	0.22	189.70	3.03
188.15	0.15	188.67	0.19	189.19	0.22	189.71	3.14
188.16	0.15	188.68	0.19	189.20	0.22	189.72	3.26
188.17	0.15	188.69	0.19	189.21	0.22	189.73	3.38
188.18	0.15	188.70	0.19	189.22	0.22	189.74	3.50
188.19	0.15	188.71	0.19	189.23	0.22	189.75	3.62
188.20	0.15	188.72	0.19	189.24	0.23	189.76	3.74
188.21	0.15	188.73	0.19	189.25	0.23	189.77	3.86
188.22	0.15	188.74	0.19	189.26	0.23	189.78	3.99
188.23	0.15	188.75	0.19	189.27	0.23	189.79	4.12
188.24	0.15	188.76	0.19	189.28	0.23	189.80	4.24

Stage-Discharge for Pond B-18: Basin #18 (continued)

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
189.81	4.37	190.33	11.37	190.85	12.15
189.82	4.50	190.34	11.39	190.86	12.16
189.83	4.63	190.35	11.40	190.87	12.17
189.84	4.77	190.36	11.42	190.88	12.19
189.85	4.90	190.37	11.43	190.89	12.20
189.86	5.04	190.38	11.45	190.90	12.22
189.87	5.17	190.39	11.47	190.91	12.23
189.88	5.31	190.40	11.48	190.92	12.25
189.89	5.45	190.41	11.50	190.93	12.26
189.90	5.59	190.42	11.51	190.94	12.27
189.91	5.73	190.43	11.53	190.95	12.29
189.92	5.87	190.44	11.54	190.96	12.42
189.93	6.02	190.45	11.56	190.97	12.65
189.94	6.16	190.46	11.57	190.98	12.94
189.95	6.31	190.47	11.59	190.99	13.28
189.96	6.45	190.48	11.60	191.00	13.67
189.97	6.60	190.49	11.62		
189.98	6.75	190.50	11.63		
189.99	6.90	190.51	11.65		
190.00	7.05	190.52	11.66		
190.01	7.20	190.53	11.68		
190.02	7.35	190.54	11.69		
190.03	7.51	190.55	11.71		
190.04	7.66	190.56	11.72		
190.05	7.82	190.57	11.74		
190.06	7.97	190.58	11.75		
190.07	8.13	190.59	11.77		
190.08	8.29	190.60	11.78		
190.09	8.45	190.61	11.80		
190.10	8.61	190.62	11.81		
190.11	8.77	190.63	11.83		
190.12	8.93	190.64	11.84		
190.13	9.10	190.65	11.85		
190.14	9.26	190.66	11.87		
190.15	9.42	190.67	11.88		
190.16	9.59	190.68	11.90		
190.17	9.76	190.69	11.91		
190.18	9.92	190.70	11.93		
190.19	10.09	190.71	11.94		
190.20	10.26	190.72	11.96		
190.21	10.43	190.73	11.97		
190.22	10.60	190.74	11.99		
190.23	10.77	190.75	12.00		
190.24	10.94	190.76	12.02		
190.25	11.12	190.77	12.03		
190.26	11.27	190.78	12.04		
190.27	11.28	190.79	12.06		
190.28	11.30	190.80	12.07		
190.29	11.31	190.81	12.09		
190.30	11.33	190.82	12.10		
190.31	11.34	190.83	12.12		
190.32	11.36	190.84	12.13		

Stage-Area-Storage for Pond B-18: Basin #18

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
185.65	0	0	186.17	1,195	392
185.66	32	0	186.18	1,199	404
185.67	64	1	186.19	1,204	416
185.68	96	1	186.20	1,208	429
185.69	128	3	186.21	1,212	441
185.70	160	4	186.22	1,217	453
185.71	192	6	186.23	1,221	465
185.72	224	8	186.24	1,226	477
185.73	256	10	186.25	1,230	489
185.74	288	13	186.26	1,235	502
185.75	320	16	186.27	1,239	514
185.76	352	19	186.28	1,244	527
185.77	384	23	186.29	1,248	539
185.78	416	27	186.30	1,253	552
185.79	448	31	186.31	1,257	564
185.80	480	36	186.32	1,261	577
185.81	512	41	186.33	1,266	589
185.82	544	46	186.34	1,270	602
185.83	575	52	186.35	1,275	615
185.84	607	58	186.36	1,279	628
185.85	639	64	186.37	1,284	640
185.86	671	70	186.38	1,288	653
185.87	703	77	186.39	1,293	666
185.88	735	85	186.40	1,297	679
185.89	767	92	186.41	1,301	692
185.90	799	100	186.42	1,306	705
185.91	831	108	186.43	1,310	718
185.92	863	117	186.44	1,315	731
185.93	895	125	186.45	1,319	744
185.94	927	134	186.46	1,324	758
185.95	959	144	186.47	1,328	771
185.96	991	154	186.48	1,333	784
185.97	1,023	164	186.49	1,337	798
185.98	1,055	174	186.50	1,342	811
185.99	1,087	185	186.51	1,346	824
186.00	1,119	196	186.52	1,350	838
186.01	1,123	207	186.53	1,355	851
186.02	1,128	218	186.54	1,359	865
186.03	1,132	230	186.55	1,364	879
186.04	1,137	241	186.56	1,368	892
186.05	1,141	252	186.57	1,373	906
186.06	1,146	264	186.58	1,377	920
186.07	1,150	275	186.59	1,382	933
186.08	1,155	287	186.60	1,386	947
186.09	1,159	298	186.61	1,390	961
186.10	1,163	310	186.62	1,395	975
186.11	1,168	322	186.63	1,399	989
186.12	1,172	333	186.64	1,404	1,003
186.13	1,177	345	186.65	1,408	1,017
186.14	1,181	357	186.66	1,413	1,031
186.15	1,186	369	186.67	1,417	1,045
186.16	1,190	381	186.68	1,422	1,060

Stage-Area-Storage for Pond B-18: Basin #18 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
186.69	1,426	1,074	187.21	1,669	1,877
186.70	1,431	1,088	187.22	1,674	1,894
186.71	1,435	1,102	187.23	1,679	1,910
186.72	1,439	1,117	187.24	1,684	1,927
186.73	1,444	1,131	187.25	1,689	1,944
186.74	1,448	1,146	187.26	1,694	1,961
186.75	1,453	1,160	187.27	1,699	1,978
186.76	1,457	1,175	187.28	1,704	1,995
186.77	1,462	1,189	187.29	1,709	2,012
186.78	1,466	1,204	187.30	1,714	2,029
186.79	1,471	1,219	187.31	1,719	2,046
186.80	1,475	1,233	187.32	1,724	2,063
186.81	1,479	1,248	187.33	1,729	2,081
186.82	1,484	1,263	187.34	1,734	2,098
186.83	1,488	1,278	187.35	1,739	2,115
186.84	1,493	1,293	187.36	1,744	2,133
186.85	1,497	1,308	187.37	1,749	2,150
186.86	1,502	1,323	187.38	1,754	2,168
186.87	1,506	1,338	187.39	1,759	2,185
186.88	1,511	1,353	187.40	1,764	2,203
186.89	1,515	1,368	187.41	1,769	2,221
186.90	1,520	1,383	187.42	1,774	2,238
186.91	1,524	1,398	187.43	1,779	2,256
186.92	1,528	1,414	187.44	1,784	2,274
186.93	1,533	1,429	187.45	1,789	2,292
186.94	1,537	1,444	187.46	1,794	2,310
186.95	1,542	1,460	187.47	1,799	2,328
186.96	1,546	1,475	187.48	1,804	2,346
186.97	1,551	1,491	187.49	1,809	2,364
186.98	1,555	1,506	187.50	1,815	2,382
186.99	1,560	1,522	187.51	1,820	2,400
187.00	1,564	1,537	187.52	1,825	2,418
187.01	1,569	1,553	187.53	1,830	2,437
187.02	1,574	1,569	187.54	1,835	2,455
187.03	1,579	1,584	187.55	1,840	2,473
187.04	1,584	1,600	187.56	1,845	2,492
187.05	1,589	1,616	187.57	1,850	2,510
187.06	1,594	1,632	187.58	1,855	2,529
187.07	1,599	1,648	187.59	1,860	2,547
187.08	1,604	1,664	187.60	1,865	2,566
187.09	1,609	1,680	187.61	1,870	2,585
187.10	1,614	1,696	187.62	1,875	2,603
187.11	1,619	1,712	187.63	1,880	2,622
187.12	1,624	1,729	187.64	1,885	2,641
187.13	1,629	1,745	187.65	1,890	2,660
187.14	1,634	1,761	187.66	1,895	2,679
187.15	1,639	1,778	187.67	1,900	2,698
187.16	1,644	1,794	187.68	1,905	2,717
187.17	1,649	1,810	187.69	1,910	2,736
187.18	1,654	1,827	187.70	1,915	2,755
187.19	1,659	1,844	187.71	1,920	2,774
187.20	1,664	1,860	187.72	1,925	2,793

Stage-Area-Storage for Pond B-18: Basin #18 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
187.73	1,930	2,813	188.25	2,205	3,886
187.74	1,935	2,832	188.26	2,210	3,908
187.75	1,940	2,851	188.27	2,216	3,930
187.76	1,945	2,871	188.28	2,221	3,952
187.77	1,950	2,890	188.29	2,227	3,974
187.78	1,955	2,910	188.30	2,232	3,996
187.79	1,960	2,929	188.31	2,238	4,019
187.80	1,965	2,949	188.32	2,244	4,041
187.81	1,970	2,969	188.33	2,249	4,064
187.82	1,975	2,988	188.34	2,255	4,086
187.83	1,980	3,008	188.35	2,260	4,109
187.84	1,985	3,028	188.36	2,266	4,131
187.85	1,990	3,048	188.37	2,271	4,154
187.86	1,995	3,068	188.38	2,277	4,177
187.87	2,000	3,088	188.39	2,283	4,200
187.88	2,005	3,108	188.40	2,288	4,222
187.89	2,010	3,128	188.41	2,294	4,245
187.90	2,015	3,148	188.42	2,299	4,268
187.91	2,020	3,168	188.43	2,305	4,291
187.92	2,025	3,188	188.44	2,311	4,314
187.93	2,030	3,209	188.45	2,316	4,338
187.94	2,035	3,229	188.46	2,322	4,361
187.95	2,040	3,249	188.47	2,327	4,384
187.96	2,045	3,270	188.48	2,333	4,407
187.97	2,050	3,290	188.49	2,338	4,431
187.98	2,055	3,311	188.50	2,344	4,454
187.99	2,060	3,331	188.51	2,350	4,478
188.00	2,065	3,352	188.52	2,355	4,501
188.01	2,071	3,373	188.53	2,361	4,525
188.02	2,076	3,393	188.54	2,366	4,548
188.03	2,082	3,414	188.55	2,372	4,572
188.04	2,087	3,435	188.56	2,377	4,596
188.05	2,093	3,456	188.57	2,383	4,620
188.06	2,098	3,477	188.58	2,389	4,643
188.07	2,104	3,498	188.59	2,394	4,667
188.08	2,110	3,519	188.60	2,400	4,691
188.09	2,115	3,540	188.61	2,405	4,715
188.10	2,121	3,561	188.62	2,411	4,739
188.11	2,126	3,582	188.63	2,417	4,764
188.12	2,132	3,604	188.64	2,422	4,788
188.13	2,138	3,625	188.65	2,428	4,812
188.14	2,143	3,646	188.66	2,433	4,836
188.15	2,149	3,668	188.67	2,439	4,861
188.16	2,154	3,689	188.68	2,444	4,885
188.17	2,160	3,711	188.69	2,450	4,910
188.18	2,165	3,733	188.70	2,456	4,934
188.19	2,171	3,754	188.71	2,461	4,959
188.20	2,177	3,776	188.72	2,467	4,983
188.21	2,182	3,798	188.73	2,472	5,008
188.22	2,188	3,820	188.74	2,478	5,033
188.23	2,193	3,842	188.75	2,484	5,058
188.24	2,199	3,863	188.76	2,489	5,082

Stage-Area-Storage for Pond B-18: Basin #18 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
188.77	2,495	5,107	189.29	2,801	6,482
188.78	2,500	5,132	189.30	2,807	6,510
188.79	2,506	5,157	189.31	2,813	6,538
188.80	2,511	5,182	189.32	2,819	6,567
188.81	2,517	5,208	189.33	2,826	6,595
188.82	2,523	5,233	189.34	2,832	6,623
188.83	2,528	5,258	189.35	2,838	6,651
188.84	2,534	5,283	189.36	2,844	6,680
188.85	2,539	5,309	189.37	2,850	6,708
188.86	2,545	5,334	189.38	2,856	6,737
188.87	2,550	5,360	189.39	2,862	6,765
188.88	2,556	5,385	189.40	2,869	6,794
188.89	2,562	5,411	189.41	2,875	6,823
188.90	2,567	5,436	189.42	2,881	6,852
188.91	2,573	5,462	189.43	2,887	6,880
188.92	2,578	5,488	189.44	2,893	6,909
188.93	2,584	5,514	189.45	2,899	6,938
188.94	2,590	5,539	189.46	2,905	6,967
188.95	2,595	5,565	189.47	2,912	6,996
188.96	2,601	5,591	189.48	2,918	7,026
188.97	2,606	5,617	189.49	2,924	7,055
188.98	2,612	5,643	189.50	2,930	7,084
188.99	2,617	5,670	189.51	2,936	7,113
189.00	2,623	5,696	189.52	2,942	7,143
189.01	2,629	5,722	189.53	2,948	7,172
189.02	2,635	5,748	189.54	2,955	7,202
189.03	2,641	5,775	189.55	2,961	7,231
189.04	2,648	5,801	189.56	2,967	7,261
189.05	2,654	5,828	189.57	2,973	7,291
189.06	2,660	5,854	189.58	2,979	7,320
189.07	2,666	5,881	189.59	2,985	7,350
189.08	2,672	5,908	189.60	2,991	7,380
189.09	2,678	5,934	189.61	2,998	7,410
189.10	2,684	5,961	189.62	3,004	7,440
189.11	2,691	5,988	189.63	3,010	7,470
189.12	2,697	6,015	189.64	3,016	7,500
189.13	2,703	6,042	189.65	3,022	7,530
189.14	2,709	6,069	189.66	3,028	7,561
189.15	2,715	6,096	189.67	3,034	7,591
189.16	2,721	6,123	189.68	3,041	7,621
189.17	2,727	6,151	189.69	3,047	7,652
189.18	2,734	6,178	189.70	3,053	7,682
189.19	2,740	6,205	189.71	3,059	7,713
189.20	2,746	6,233	189.72	3,065	7,744
189.21	2,752	6,260	189.73	3,071	7,774
189.22	2,758	6,288	189.74	3,077	7,805
189.23	2,764	6,315	189.75	3,084	7,836
189.24	2,770	6,343	189.76	3,090	7,867
189.25	2,777	6,371	189.77	3,096	7,898
189.26	2,783	6,399	189.78	3,102	7,929
189.27	2,789	6,426	189.79	3,108	7,960
189.28	2,795	6,454	189.80	3,114	7,991

Stage-Area-Storage for Pond B-18: Basin #18 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
189.81	3,120	8,022	190.33	3,458	9,731
189.82	3,126	8,053	190.34	3,465	9,765
189.83	3,133	8,084	190.35	3,472	9,800
189.84	3,139	8,116	190.36	3,479	9,835
189.85	3,145	8,147	190.37	3,485	9,869
189.86	3,151	8,179	190.38	3,492	9,904
189.87	3,157	8,210	190.39	3,499	9,939
189.88	3,163	8,242	190.40	3,505	9,974
189.89	3,169	8,273	190.41	3,512	10,009
189.90	3,176	8,305	190.42	3,519	10,045
189.91	3,182	8,337	190.43	3,526	10,080
189.92	3,188	8,369	190.44	3,532	10,115
189.93	3,194	8,401	190.45	3,539	10,150
189.94	3,200	8,433	190.46	3,546	10,186
189.95	3,206	8,465	190.47	3,552	10,221
189.96	3,212	8,497	190.48	3,559	10,257
189.97	3,219	8,529	190.49	3,566	10,293
189.98	3,225	8,561	190.50	3,573	10,328
189.99	3,231	8,593	190.51	3,579	10,364
190.00	3,237	8,626	190.52	3,586	10,400
190.01	3,244	8,658	190.53	3,593	10,436
190.02	3,250	8,691	190.54	3,599	10,472
190.03	3,257	8,723	190.55	3,606	10,508
190.04	3,264	8,756	190.56	3,613	10,544
190.05	3,271	8,789	190.57	3,619	10,580
190.06	3,277	8,821	190.58	3,626	10,616
190.07	3,284	8,854	190.59	3,633	10,652
190.08	3,291	8,887	190.60	3,640	10,689
190.09	3,297	8,920	190.61	3,646	10,725
190.10	3,304	8,953	190.62	3,653	10,762
190.11	3,311	8,986	190.63	3,660	10,798
190.12	3,318	9,019	190.64	3,666	10,835
190.13	3,324	9,052	190.65	3,673	10,872
190.14	3,331	9,086	190.66	3,680	10,908
190.15	3,338	9,119	190.67	3,687	10,945
190.16	3,344	9,152	190.68	3,693	10,982
190.17	3,351	9,186	190.69	3,700	11,019
190.18	3,358	9,219	190.70	3,707	11,056
190.19	3,364	9,253	190.71	3,713	11,093
190.20	3,371	9,287	190.72	3,720	11,130
190.21	3,378	9,320	190.73	3,727	11,168
190.22	3,385	9,354	190.74	3,734	11,205
190.23	3,391	9,388	190.75	3,740	11,242
190.24	3,398	9,422	190.76	3,747	11,280
190.25	3,405	9,456	190.77	3,754	11,317
190.26	3,411	9,490	190.78	3,760	11,355
190.27	3,418	9,524	190.79	3,767	11,392
190.28	3,425	9,558	190.80	3,774	11,430
190.29	3,432	9,593	190.81	3,781	11,468
190.30	3,438	9,627	190.82	3,787	11,506
190.31	3,445	9,662	190.83	3,794	11,544
190.32	3,452	9,696	190.84	3,801	11,582

Stage-Area-Storage for Pond B-18: Basin #18 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
190.85	3,807	11,620
190.86	3,814	11,658
190.87	3,821	11,696
190.88	3,827	11,734
190.89	3,834	11,773
190.90	3,841	11,811
190.91	3,848	11,849
190.92	3,854	11,888
190.93	3,861	11,926
190.94	3,868	11,965
190.95	3,874	12,004
190.96	3,881	12,043
190.97	3,888	12,081
190.98	3,895	12,120
190.99	3,901	12,159
191.00	3,908	12,198

Summary for Pond B-19: Basin #19

Inflow Area = 1.715 ac, 34.81% Impervious, Inflow Depth = 6.46" for Current 100 yr event
 Inflow = 11.37 cfs @ 12.17 hrs, Volume= 0.924 af
 Outflow = 9.85 cfs @ 12.23 hrs, Volume= 0.863 af, Atten= 13%, Lag= 3.6 min
 Primary = 9.85 cfs @ 12.23 hrs, Volume= 0.863 af
 Routed to Link PDA-2 : Proposed Drainage Area #2

Routing by Stor-Ind method, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 Peak Elev= 198.59' @ 12.23 hrs Surf.Area= 4,241 sf Storage= 11,166 cf

Plug-Flow detention time= 210.0 min calculated for 0.862 af (93% of inflow)
 Center-of-Mass det. time= 174.2 min (960.4 - 786.2)

Volume	Invert	Avail.Storage	Storage Description
#1	194.65'	12,982 cf	Custom Stage Data (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
194.65	0	0	0
195.00	1,916	335	335
196.00	2,490	2,203	2,538
197.00	3,119	2,805	5,343
198.00	3,806	3,463	8,805
199.00	4,548	4,177	12,982

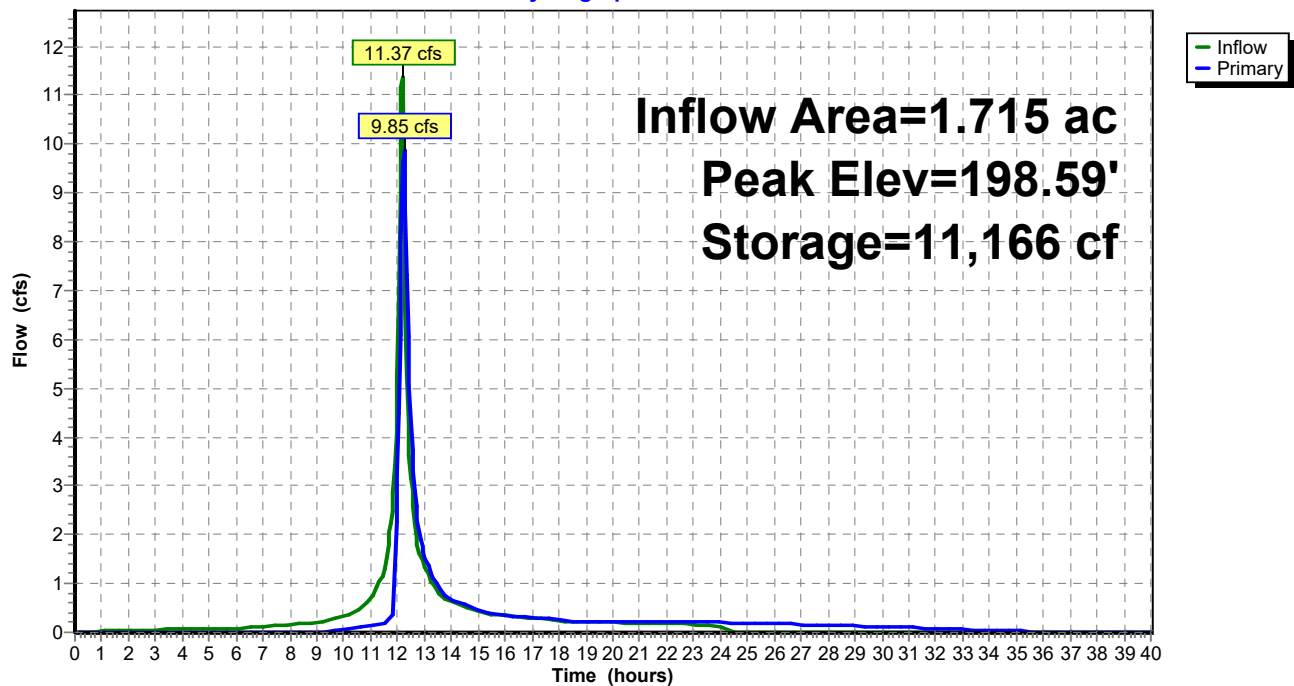
Device	Routing	Invert	Outlet Devices
#1	Primary	194.30'	18.0" Round Culvert L= 136.0' Ke= 0.500 Inlet / Outlet Invert= 194.30' / 185.86' S= 0.0621 '/' Cc= 0.900 n= 0.013, Flow Area= 1.77 sf
#2	Device 1	196.00'	2.5" Vert. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#3	Device 1	197.75'	4.0' long Sharp-Crested Rectangular Weir 2 End Contraction(s)
#4	Primary	198.95'	50.0' long + 3.0 '/' SideZ x 5.0' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 Coef. (English) 2.34 2.50 2.70 2.68 2.68 2.66 2.65 2.65 2.65 2.65 2.67 2.66 2.68 2.70 2.74 2.79 2.88

Primary OutFlow Max=9.71 cfs @ 12.23 hrs HW=198.58' (Free Discharge)

1=Culvert (Passes 9.71 cfs of 15.98 cfs potential flow)
 2=Orifice/Grate (Orifice Controls 0.26 cfs @ 7.57 fps)
 3=Sharp-Crested Rectangular Weir (Weir Controls 9.45 cfs @ 2.98 fps)
 4=Broad-Crested Rectangular Weir (Controls 0.00 cfs)

Pond B-19: Basin #19

Hydrograph



Stage-Discharge for Pond B-19: Basin #19

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
194.65	0.00	195.17	0.00	195.69	0.00	196.21	0.05
194.66	0.00	195.18	0.00	195.70	0.00	196.22	0.06
194.67	0.00	195.19	0.00	195.71	0.00	196.23	0.06
194.68	0.00	195.20	0.00	195.72	0.00	196.24	0.06
194.69	0.00	195.21	0.00	195.73	0.00	196.25	0.06
194.70	0.00	195.22	0.00	195.74	0.00	196.26	0.06
194.71	0.00	195.23	0.00	195.75	0.00	196.27	0.07
194.72	0.00	195.24	0.00	195.76	0.00	196.28	0.07
194.73	0.00	195.25	0.00	195.77	0.00	196.29	0.07
194.74	0.00	195.26	0.00	195.78	0.00	196.30	0.07
194.75	0.00	195.27	0.00	195.79	0.00	196.31	0.07
194.76	0.00	195.28	0.00	195.80	0.00	196.32	0.08
194.77	0.00	195.29	0.00	195.81	0.00	196.33	0.08
194.78	0.00	195.30	0.00	195.82	0.00	196.34	0.08
194.79	0.00	195.31	0.00	195.83	0.00	196.35	0.08
194.80	0.00	195.32	0.00	195.84	0.00	196.36	0.08
194.81	0.00	195.33	0.00	195.85	0.00	196.37	0.08
194.82	0.00	195.34	0.00	195.86	0.00	196.38	0.09
194.83	0.00	195.35	0.00	195.87	0.00	196.39	0.09
194.84	0.00	195.36	0.00	195.88	0.00	196.40	0.09
194.85	0.00	195.37	0.00	195.89	0.00	196.41	0.09
194.86	0.00	195.38	0.00	195.90	0.00	196.42	0.09
194.87	0.00	195.39	0.00	195.91	0.00	196.43	0.09
194.88	0.00	195.40	0.00	195.92	0.00	196.44	0.10
194.89	0.00	195.41	0.00	195.93	0.00	196.45	0.10
194.90	0.00	195.42	0.00	195.94	0.00	196.46	0.10
194.91	0.00	195.43	0.00	195.95	0.00	196.47	0.10
194.92	0.00	195.44	0.00	195.96	0.00	196.48	0.10
194.93	0.00	195.45	0.00	195.97	0.00	196.49	0.10
194.94	0.00	195.46	0.00	195.98	0.00	196.50	0.10
194.95	0.00	195.47	0.00	195.99	0.00	196.51	0.10
194.96	0.00	195.48	0.00	196.00	0.00	196.52	0.11
194.97	0.00	195.49	0.00	196.01	0.00	196.53	0.11
194.98	0.00	195.50	0.00	196.02	0.00	196.54	0.11
194.99	0.00	195.51	0.00	196.03	0.00	196.55	0.11
195.00	0.00	195.52	0.00	196.04	0.00	196.56	0.11
195.01	0.00	195.53	0.00	196.05	0.00	196.57	0.11
195.02	0.00	195.54	0.00	196.06	0.01	196.58	0.11
195.03	0.00	195.55	0.00	196.07	0.01	196.59	0.11
195.04	0.00	195.56	0.00	196.08	0.01	196.60	0.12
195.05	0.00	195.57	0.00	196.09	0.01	196.61	0.12
195.06	0.00	195.58	0.00	196.10	0.02	196.62	0.12
195.07	0.00	195.59	0.00	196.11	0.02	196.63	0.12
195.08	0.00	195.60	0.00	196.12	0.02	196.64	0.12
195.09	0.00	195.61	0.00	196.13	0.03	196.65	0.12
195.10	0.00	195.62	0.00	196.14	0.03	196.66	0.12
195.11	0.00	195.63	0.00	196.15	0.03	196.67	0.12
195.12	0.00	195.64	0.00	196.16	0.04	196.68	0.12
195.13	0.00	195.65	0.00	196.17	0.04	196.69	0.13
195.14	0.00	195.66	0.00	196.18	0.05	196.70	0.13
195.15	0.00	195.67	0.00	196.19	0.05	196.71	0.13
195.16	0.00	195.68	0.00	196.20	0.05	196.72	0.13

Stage-Discharge for Pond B-19: Basin #19 (continued)

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
196.73	0.13	197.25	0.18	197.77	0.25	198.29	5.29
196.74	0.13	197.26	0.18	197.78	0.28	198.30	5.43
196.75	0.13	197.27	0.18	197.79	0.32	198.31	5.57
196.76	0.13	197.28	0.18	197.80	0.36	198.32	5.71
196.77	0.13	197.29	0.18	197.81	0.41	198.33	5.85
196.78	0.13	197.30	0.18	197.82	0.46	198.34	6.00
196.79	0.14	197.31	0.18	197.83	0.51	198.35	6.14
196.80	0.14	197.32	0.18	197.84	0.57	198.36	6.29
196.81	0.14	197.33	0.18	197.85	0.63	198.37	6.43
196.82	0.14	197.34	0.18	197.86	0.69	198.38	6.58
196.83	0.14	197.35	0.18	197.87	0.76	198.39	6.73
196.84	0.14	197.36	0.18	197.88	0.83	198.40	6.88
196.85	0.14	197.37	0.18	197.89	0.90	198.41	7.03
196.86	0.14	197.38	0.19	197.90	0.97	198.42	7.18
196.87	0.14	197.39	0.19	197.91	1.05	198.43	7.34
196.88	0.14	197.40	0.19	197.92	1.13	198.44	7.49
196.89	0.15	197.41	0.19	197.93	1.21	198.45	7.64
196.90	0.15	197.42	0.19	197.94	1.30	198.46	7.80
196.91	0.15	197.43	0.19	197.95	1.38	198.47	7.96
196.92	0.15	197.44	0.19	197.96	1.47	198.48	8.11
196.93	0.15	197.45	0.19	197.97	1.56	198.49	8.27
196.94	0.15	197.46	0.19	197.98	1.65	198.50	8.43
196.95	0.15	197.47	0.19	197.99	1.74	198.51	8.59
196.96	0.15	197.48	0.19	198.00	1.84	198.52	8.75
196.97	0.15	197.49	0.19	198.01	1.94	198.53	8.91
196.98	0.15	197.50	0.19	198.02	2.04	198.54	9.08
196.99	0.15	197.51	0.19	198.03	2.14	198.55	9.24
197.00	0.16	197.52	0.20	198.04	2.24	198.56	9.41
197.01	0.16	197.53	0.20	198.05	2.35	198.57	9.57
197.02	0.16	197.54	0.20	198.06	2.45	198.58	9.74
197.03	0.16	197.55	0.20	198.07	2.56	198.59	9.91
197.04	0.16	197.56	0.20	198.08	2.67	198.60	10.07
197.05	0.16	197.57	0.20	198.09	2.78	198.61	10.24
197.06	0.16	197.58	0.20	198.10	2.89	198.62	10.41
197.07	0.16	197.59	0.20	198.11	3.01	198.63	10.58
197.08	0.16	197.60	0.20	198.12	3.12	198.64	10.75
197.09	0.16	197.61	0.20	198.13	3.24	198.65	10.93
197.10	0.16	197.62	0.20	198.14	3.36	198.66	11.10
197.11	0.16	197.63	0.20	198.15	3.48	198.67	11.27
197.12	0.17	197.64	0.20	198.16	3.60	198.68	11.45
197.13	0.17	197.65	0.20	198.17	3.72	198.69	11.62
197.14	0.17	197.66	0.20	198.18	3.85	198.70	11.80
197.15	0.17	197.67	0.21	198.19	3.97	198.71	11.98
197.16	0.17	197.68	0.21	198.20	4.10	198.72	12.16
197.17	0.17	197.69	0.21	198.21	4.23	198.73	12.33
197.18	0.17	197.70	0.21	198.22	4.35	198.74	12.51
197.19	0.17	197.71	0.21	198.23	4.48	198.75	12.69
197.20	0.17	197.72	0.21	198.24	4.62	198.76	12.87
197.21	0.17	197.73	0.21	198.25	4.75	198.77	13.06
197.22	0.17	197.74	0.21	198.26	4.88	198.78	13.24
197.23	0.17	197.75	0.21	198.27	5.02	198.79	13.42
197.24	0.17	197.76	0.22	198.28	5.16	198.80	13.60

Stage-Discharge for Pond B-19: Basin #19 (continued)

Elevation (feet)	Primary (cfs)
198.81	13.79
198.82	13.97
198.83	14.16
198.84	14.35
198.85	14.53
198.86	14.72
198.87	14.91
198.88	15.10
198.89	15.29
198.90	15.48
198.91	15.67
198.92	15.86
198.93	16.05
198.94	16.25
198.95	16.44
198.96	16.75
198.97	17.16
198.98	17.48
198.99	17.83
199.00	18.22

Stage-Area-Storage for Pond B-19: Basin #19

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
194.65	0	0	195.17	2,014	669
194.66	55	0	195.18	2,019	689
194.67	109	1	195.19	2,025	710
194.68	164	2	195.20	2,031	730
194.69	219	4	195.21	2,037	750
194.70	274	7	195.22	2,042	771
194.71	328	10	195.23	2,048	791
194.72	383	13	195.24	2,054	812
194.73	438	18	195.25	2,060	832
194.74	493	22	195.26	2,065	853
194.75	547	27	195.27	2,071	874
194.76	602	33	195.28	2,077	894
194.77	657	39	195.29	2,082	915
194.78	712	46	195.30	2,088	936
194.79	766	54	195.31	2,094	957
194.80	821	62	195.32	2,100	978
194.81	876	70	195.33	2,105	999
194.82	931	79	195.34	2,111	1,020
194.83	985	89	195.35	2,117	1,041
194.84	1,040	99	195.36	2,123	1,062
194.85	1,095	109	195.37	2,128	1,084
194.86	1,150	121	195.38	2,134	1,105
194.87	1,204	132	195.39	2,140	1,126
194.88	1,259	145	195.40	2,146	1,148
194.89	1,314	158	195.41	2,151	1,169
194.90	1,369	171	195.42	2,157	1,191
194.91	1,423	185	195.43	2,163	1,212
194.92	1,478	200	195.44	2,169	1,234
194.93	1,533	215	195.45	2,174	1,256
194.94	1,588	230	195.46	2,180	1,277
194.95	1,642	246	195.47	2,186	1,299
194.96	1,697	263	195.48	2,192	1,321
194.97	1,752	280	195.49	2,197	1,343
194.98	1,807	298	195.50	2,203	1,365
194.99	1,861	316	195.51	2,209	1,387
195.00	1,916	335	195.52	2,214	1,409
195.01	1,922	354	195.53	2,220	1,431
195.02	1,927	374	195.54	2,226	1,454
195.03	1,933	393	195.55	2,232	1,476
195.04	1,939	412	195.56	2,237	1,498
195.05	1,945	432	195.57	2,243	1,521
195.06	1,950	451	195.58	2,249	1,543
195.07	1,956	471	195.59	2,255	1,566
195.08	1,962	490	195.60	2,260	1,588
195.09	1,968	510	195.61	2,266	1,611
195.10	1,973	530	195.62	2,272	1,634
195.11	1,979	550	195.63	2,278	1,656
195.12	1,985	569	195.64	2,283	1,679
195.13	1,991	589	195.65	2,289	1,702
195.14	1,996	609	195.66	2,295	1,725
195.15	2,002	629	195.67	2,301	1,748
195.16	2,008	649	195.68	2,306	1,771

Stage-Area-Storage for Pond B-19: Basin #19 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
195.69	2,312	1,794	196.21	2,622	3,075
195.70	2,318	1,817	196.22	2,628	3,101
195.71	2,324	1,840	196.23	2,635	3,128
195.72	2,329	1,864	196.24	2,641	3,154
195.73	2,335	1,887	196.25	2,647	3,180
195.74	2,341	1,910	196.26	2,654	3,207
195.75	2,347	1,934	196.27	2,660	3,234
195.76	2,352	1,957	196.28	2,666	3,260
195.77	2,358	1,981	196.29	2,672	3,287
195.78	2,364	2,004	196.30	2,679	3,314
195.79	2,369	2,028	196.31	2,685	3,340
195.80	2,375	2,052	196.32	2,691	3,367
195.81	2,381	2,076	196.33	2,698	3,394
195.82	2,387	2,099	196.34	2,704	3,421
195.83	2,392	2,123	196.35	2,710	3,448
195.84	2,398	2,147	196.36	2,716	3,475
195.85	2,404	2,171	196.37	2,723	3,503
195.86	2,410	2,195	196.38	2,729	3,530
195.87	2,415	2,219	196.39	2,735	3,557
195.88	2,421	2,244	196.40	2,742	3,585
195.89	2,427	2,268	196.41	2,748	3,612
195.90	2,433	2,292	196.42	2,754	3,640
195.91	2,438	2,317	196.43	2,760	3,667
195.92	2,444	2,341	196.44	2,767	3,695
195.93	2,450	2,365	196.45	2,773	3,722
195.94	2,456	2,390	196.46	2,779	3,750
195.95	2,461	2,415	196.47	2,786	3,778
195.96	2,467	2,439	196.48	2,792	3,806
195.97	2,473	2,464	196.49	2,798	3,834
195.98	2,479	2,489	196.50	2,805	3,862
195.99	2,484	2,513	196.51	2,811	3,890
196.00	2,490	2,538	196.52	2,817	3,918
196.01	2,496	2,563	196.53	2,823	3,946
196.02	2,503	2,588	196.54	2,830	3,975
196.03	2,509	2,613	196.55	2,836	4,003
196.04	2,515	2,638	196.56	2,842	4,031
196.05	2,521	2,664	196.57	2,849	4,060
196.06	2,528	2,689	196.58	2,855	4,088
196.07	2,534	2,714	196.59	2,861	4,117
196.08	2,540	2,740	196.60	2,867	4,146
196.09	2,547	2,765	196.61	2,874	4,174
196.10	2,553	2,790	196.62	2,880	4,203
196.11	2,559	2,816	196.63	2,886	4,232
196.12	2,565	2,842	196.64	2,893	4,261
196.13	2,572	2,867	196.65	2,899	4,290
196.14	2,578	2,893	196.66	2,905	4,319
196.15	2,584	2,919	196.67	2,911	4,348
196.16	2,591	2,945	196.68	2,918	4,377
196.17	2,597	2,971	196.69	2,924	4,406
196.18	2,603	2,997	196.70	2,930	4,435
196.19	2,610	3,023	196.71	2,937	4,465
196.20	2,616	3,049	196.72	2,943	4,494

Stage-Area-Storage for Pond B-19: Basin #19 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
196.73	2,949	4,524	197.25	3,291	6,144
196.74	2,955	4,553	197.26	3,298	6,177
196.75	2,962	4,583	197.27	3,304	6,210
196.76	2,968	4,612	197.28	3,311	6,243
196.77	2,974	4,642	197.29	3,318	6,276
196.78	2,981	4,672	197.30	3,325	6,309
196.79	2,987	4,702	197.31	3,332	6,343
196.80	2,993	4,732	197.32	3,339	6,376
196.81	2,999	4,762	197.33	3,346	6,409
196.82	3,006	4,792	197.34	3,353	6,443
196.83	3,012	4,822	197.35	3,359	6,477
196.84	3,018	4,852	197.36	3,366	6,510
196.85	3,025	4,882	197.37	3,373	6,544
196.86	3,031	4,912	197.38	3,380	6,578
196.87	3,037	4,943	197.39	3,387	6,611
196.88	3,044	4,973	197.40	3,394	6,645
196.89	3,050	5,004	197.41	3,401	6,679
196.90	3,056	5,034	197.42	3,408	6,713
196.91	3,062	5,065	197.43	3,414	6,747
196.92	3,069	5,095	197.44	3,421	6,782
196.93	3,075	5,126	197.45	3,428	6,816
196.94	3,081	5,157	197.46	3,435	6,850
196.95	3,088	5,188	197.47	3,442	6,885
196.96	3,094	5,219	197.48	3,449	6,919
196.97	3,100	5,250	197.49	3,456	6,954
196.98	3,106	5,281	197.50	3,463	6,988
196.99	3,113	5,312	197.51	3,469	7,023
197.00	3,119	5,343	197.52	3,476	7,058
197.01	3,126	5,374	197.53	3,483	7,092
197.02	3,133	5,405	197.54	3,490	7,127
197.03	3,140	5,437	197.55	3,497	7,162
197.04	3,146	5,468	197.56	3,504	7,197
197.05	3,153	5,500	197.57	3,511	7,232
197.06	3,160	5,531	197.58	3,517	7,267
197.07	3,167	5,563	197.59	3,524	7,303
197.08	3,174	5,595	197.60	3,531	7,338
197.09	3,181	5,626	197.61	3,538	7,373
197.10	3,188	5,658	197.62	3,545	7,409
197.11	3,195	5,690	197.63	3,552	7,444
197.12	3,201	5,722	197.64	3,559	7,480
197.13	3,208	5,754	197.65	3,566	7,515
197.14	3,215	5,786	197.66	3,572	7,551
197.15	3,222	5,818	197.67	3,579	7,587
197.16	3,229	5,851	197.68	3,586	7,623
197.17	3,236	5,883	197.69	3,593	7,658
197.18	3,243	5,915	197.70	3,600	7,694
197.19	3,250	5,948	197.71	3,607	7,730
197.20	3,256	5,980	197.72	3,614	7,767
197.21	3,263	6,013	197.73	3,621	7,803
197.22	3,270	6,046	197.74	3,627	7,839
197.23	3,277	6,078	197.75	3,634	7,875
197.24	3,284	6,111	197.76	3,641	7,912

Stage-Area-Storage for Pond B-19: Basin #19 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
197.77	3,648	7,948	198.29	4,021	9,940
197.78	3,655	7,985	198.30	4,029	9,980
197.79	3,662	8,021	198.31	4,036	10,021
197.80	3,669	8,058	198.32	4,043	10,061
197.81	3,675	8,095	198.33	4,051	10,102
197.82	3,682	8,131	198.34	4,058	10,142
197.83	3,689	8,168	198.35	4,066	10,183
197.84	3,696	8,205	198.36	4,073	10,224
197.85	3,703	8,242	198.37	4,081	10,264
197.86	3,710	8,279	198.38	4,088	10,305
197.87	3,717	8,316	198.39	4,095	10,346
197.88	3,724	8,354	198.40	4,103	10,387
197.89	3,730	8,391	198.41	4,110	10,428
197.90	3,737	8,428	198.42	4,118	10,469
197.91	3,744	8,466	198.43	4,125	10,510
197.92	3,751	8,503	198.44	4,132	10,552
197.93	3,758	8,541	198.45	4,140	10,593
197.94	3,765	8,578	198.46	4,147	10,635
197.95	3,772	8,616	198.47	4,155	10,676
197.96	3,779	8,654	198.48	4,162	10,718
197.97	3,785	8,691	198.49	4,170	10,759
197.98	3,792	8,729	198.50	4,177	10,801
197.99	3,799	8,767	198.51	4,184	10,843
198.00	3,806	8,805	198.52	4,192	10,885
198.01	3,813	8,843	198.53	4,199	10,927
198.02	3,821	8,882	198.54	4,207	10,969
198.03	3,828	8,920	198.55	4,214	11,011
198.04	3,836	8,958	198.56	4,222	11,053
198.05	3,843	8,997	198.57	4,229	11,095
198.06	3,851	9,035	198.58	4,236	11,138
198.07	3,858	9,074	198.59	4,244	11,180
198.08	3,865	9,112	198.60	4,251	11,222
198.09	3,873	9,151	198.61	4,259	11,265
198.10	3,880	9,190	198.62	4,266	11,308
198.11	3,888	9,228	198.63	4,273	11,350
198.12	3,895	9,267	198.64	4,281	11,393
198.13	3,902	9,306	198.65	4,288	11,436
198.14	3,910	9,345	198.66	4,296	11,479
198.15	3,917	9,385	198.67	4,303	11,522
198.16	3,925	9,424	198.68	4,311	11,565
198.17	3,932	9,463	198.69	4,318	11,608
198.18	3,940	9,502	198.70	4,325	11,651
198.19	3,947	9,542	198.71	4,333	11,695
198.20	3,954	9,581	198.72	4,340	11,738
198.21	3,962	9,621	198.73	4,348	11,781
198.22	3,969	9,661	198.74	4,355	11,825
198.23	3,977	9,700	198.75	4,363	11,868
198.24	3,984	9,740	198.76	4,370	11,912
198.25	3,992	9,780	198.77	4,377	11,956
198.26	3,999	9,820	198.78	4,385	12,000
198.27	4,006	9,860	198.79	4,392	12,044
198.28	4,014	9,900	198.80	4,400	12,088

Stage-Area-Storage for Pond B-19: Basin #19 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
198.81	4,407	12,132
198.82	4,414	12,176
198.83	4,422	12,220
198.84	4,429	12,264
198.85	4,437	12,308
198.86	4,444	12,353
198.87	4,452	12,397
198.88	4,459	12,442
198.89	4,466	12,487
198.90	4,474	12,531
198.91	4,481	12,576
198.92	4,489	12,621
198.93	4,496	12,666
198.94	4,503	12,711
198.95	4,511	12,756
198.96	4,518	12,801
198.97	4,526	12,846
198.98	4,533	12,891
198.99	4,541	12,937
199.00	4,548	12,982

Summary for Pond B-20: Basin #20

Inflow Area = 2.453 ac, 46.07% Impervious, Inflow Depth = 6.79" for Current 100 yr event
 Inflow = 16.78 cfs @ 12.17 hrs, Volume= 1.388 af
 Outflow = 12.09 cfs @ 12.27 hrs, Volume= 1.252 af, Atten= 28%, Lag= 5.9 min
 Primary = 12.09 cfs @ 12.27 hrs, Volume= 1.252 af
 Routed to Link PDA-2 : Proposed Drainage Area #2

Routing by Stor-Ind method, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 Peak Elev= 153.76' @ 12.26 hrs Surf.Area= 8,150 sf Storage= 19,796 cf

Plug-Flow detention time= 235.3 min calculated for 1.252 af (90% of inflow)
 Center-of-Mass det. time= 184.1 min (961.5 - 777.4)

Volume	Invert	Avail.Storage	Storage Description
#1	150.87'	35,230 cf	Custom Stage Data (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
150.87	0	0	0
151.00	5,926	385	385
152.00	6,706	6,316	6,701
153.00	7,514	7,110	13,811
154.00	8,347	7,931	21,742
155.00	9,205	8,776	30,518
155.50	9,643	4,712	35,230

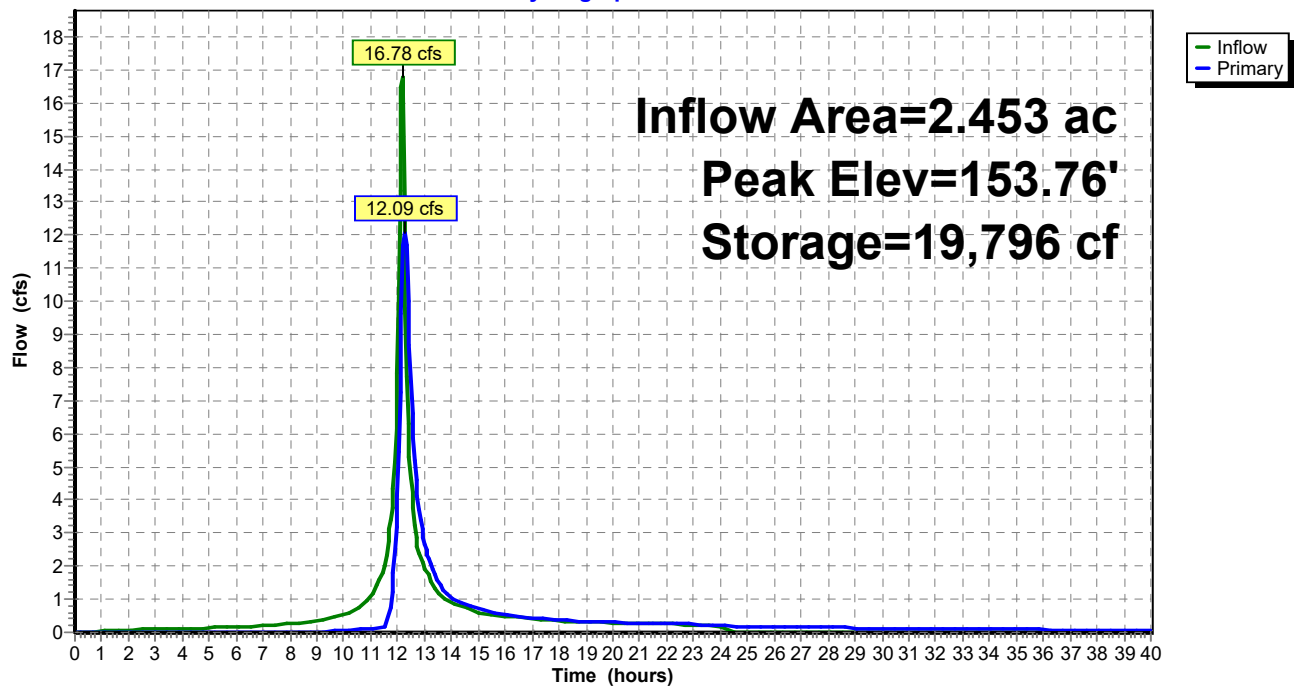
Device	Routing	Invert	Outlet Devices
#1	Primary	151.00'	18.0" Round Culvert L= 29.0' Ke= 0.500 Inlet / Outlet Invert= 151.00' / 150.71' S= 0.0100 '/' Cc= 0.900 n= 0.013, Flow Area= 1.77 sf
#2	Device 1	151.68'	2.5" Vert. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#3	Device 1	152.75'	4.0' long Sharp-Crested Rectangular Weir 2 End Contraction(s)
#4	Primary	154.32'	50.0' long + 3.0 '/' SideZ x 5.0' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 Coef. (English) 2.34 2.50 2.70 2.68 2.68 2.66 2.65 2.65 2.65 2.65 2.67 2.66 2.68 2.70 2.74 2.79 2.88

Primary OutFlow Max=12.05 cfs @ 12.27 hrs HW=153.76' (Free Discharge)

1=Culvert (Inlet Controls 12.05 cfs @ 6.82 fps)
 2=Orifice/Grate (Passes < 0.23 cfs potential flow)
 3=Sharp-Crested Rectangular Weir (Passes < 12.52 cfs potential flow)
 4=Broad-Crested Rectangular Weir (Controls 0.00 cfs)

Pond B-20: Basin #20

Hydrograph



Stage-Discharge for Pond B-20: Basin #20

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
150.87	0.00	151.39	0.00	151.91	0.06	152.43	0.13
150.88	0.00	151.40	0.00	151.92	0.06	152.44	0.13
150.89	0.00	151.41	0.00	151.93	0.06	152.45	0.13
150.90	0.00	151.42	0.00	151.94	0.06	152.46	0.13
150.91	0.00	151.43	0.00	151.95	0.07	152.47	0.14
150.92	0.00	151.44	0.00	151.96	0.07	152.48	0.14
150.93	0.00	151.45	0.00	151.97	0.07	152.49	0.14
150.94	0.00	151.46	0.00	151.98	0.07	152.50	0.14
150.95	0.00	151.47	0.00	151.99	0.07	152.51	0.14
150.96	0.00	151.48	0.00	152.00	0.08	152.52	0.14
150.97	0.00	151.49	0.00	152.01	0.08	152.53	0.14
150.98	0.00	151.50	0.00	152.02	0.08	152.54	0.14
150.99	0.00	151.51	0.00	152.03	0.08	152.55	0.14
151.00	0.00	151.52	0.00	152.04	0.08	152.56	0.14
151.01	0.00	151.53	0.00	152.05	0.08	152.57	0.15
151.02	0.00	151.54	0.00	152.06	0.09	152.58	0.15
151.03	0.00	151.55	0.00	152.07	0.09	152.59	0.15
151.04	0.00	151.56	0.00	152.08	0.09	152.60	0.15
151.05	0.00	151.57	0.00	152.09	0.09	152.61	0.15
151.06	0.00	151.58	0.00	152.10	0.09	152.62	0.15
151.07	0.00	151.59	0.00	152.11	0.09	152.63	0.15
151.08	0.00	151.60	0.00	152.12	0.10	152.64	0.15
151.09	0.00	151.61	0.00	152.13	0.10	152.65	0.15
151.10	0.00	151.62	0.00	152.14	0.10	152.66	0.15
151.11	0.00	151.63	0.00	152.15	0.10	152.67	0.15
151.12	0.00	151.64	0.00	152.16	0.10	152.68	0.16
151.13	0.00	151.65	0.00	152.17	0.10	152.69	0.16
151.14	0.00	151.66	0.00	152.18	0.10	152.70	0.16
151.15	0.00	151.67	0.00	152.19	0.10	152.71	0.16
151.16	0.00	151.68	0.00	152.20	0.11	152.72	0.16
151.17	0.00	151.69	0.00	152.21	0.11	152.73	0.16
151.18	0.00	151.70	0.00	152.22	0.11	152.74	0.16
151.19	0.00	151.71	0.00	152.23	0.11	152.75	0.16
151.20	0.00	151.72	0.00	152.24	0.11	152.76	0.18
151.21	0.00	151.73	0.00	152.25	0.11	152.77	0.20
151.22	0.00	151.74	0.01	152.26	0.11	152.78	0.23
151.23	0.00	151.75	0.01	152.27	0.11	152.79	0.27
151.24	0.00	151.76	0.01	152.28	0.12	152.80	0.31
151.25	0.00	151.77	0.01	152.29	0.12	152.81	0.36
151.26	0.00	151.78	0.02	152.30	0.12	152.82	0.41
151.27	0.00	151.79	0.02	152.31	0.12	152.83	0.46
151.28	0.00	151.80	0.02	152.32	0.12	152.84	0.52
151.29	0.00	151.81	0.03	152.33	0.12	152.85	0.58
151.30	0.00	151.82	0.03	152.34	0.12	152.86	0.64
151.31	0.00	151.83	0.03	152.35	0.12	152.87	0.71
151.32	0.00	151.84	0.04	152.36	0.12	152.88	0.78
151.33	0.00	151.85	0.04	152.37	0.13	152.89	0.85
151.34	0.00	151.86	0.05	152.38	0.13	152.90	0.93
151.35	0.00	151.87	0.05	152.39	0.13	152.91	1.00
151.36	0.00	151.88	0.05	152.40	0.13	152.92	1.08
151.37	0.00	151.89	0.05	152.41	0.13	152.93	1.17
151.38	0.00	151.90	0.06	152.42	0.13	152.94	1.25

Stage-Discharge for Pond B-20: Basin #20 (continued)

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
152.95	1.34	153.47	7.92	153.99	12.73	154.51	23.91
152.96	1.42	153.48	8.07	154.00	12.76	154.52	24.73
152.97	1.51	153.49	8.23	154.01	12.79	154.53	25.60
152.98	1.61	153.50	8.39	154.02	12.82	154.54	26.50
152.99	1.70	153.51	8.55	154.03	12.85	154.55	27.42
153.00	1.80	153.52	8.71	154.04	12.88	154.56	28.37
153.01	1.89	153.53	8.88	154.05	12.90	154.57	29.34
153.02	1.99	153.54	9.04	154.06	12.93	154.58	30.34
153.03	2.09	153.55	9.20	154.07	12.96	154.59	31.36
153.04	2.20	153.56	9.37	154.08	12.99	154.60	32.41
153.05	2.30	153.57	9.53	154.09	13.02	154.61	33.49
153.06	2.41	153.58	9.70	154.10	13.04	154.62	34.58
153.07	2.52	153.59	9.87	154.11	13.07	154.63	35.71
153.08	2.63	153.60	10.04	154.12	13.10	154.64	36.85
153.09	2.74	153.61	10.20	154.13	13.13	154.65	38.02
153.10	2.85	153.62	10.37	154.14	13.15	154.66	39.22
153.11	2.96	153.63	10.55	154.15	13.18	154.67	40.44
153.12	3.08	153.64	10.72	154.16	13.21	154.68	41.68
153.13	3.20	153.65	10.89	154.17	13.24	154.69	42.95
153.14	3.31	153.66	11.06	154.18	13.26	154.70	44.24
153.15	3.43	153.67	11.24	154.19	13.29	154.71	45.55
153.16	3.56	153.68	11.41	154.20	13.32	154.72	46.89
153.17	3.68	153.69	11.59	154.21	13.35	154.73	48.28
153.18	3.80	153.70	11.76	154.22	13.37	154.74	49.70
153.19	3.93	153.71	11.91	154.23	13.40	154.75	51.14
153.20	4.05	153.72	11.94	154.24	13.43	154.76	52.61
153.21	4.18	153.73	11.97	154.25	13.45	154.77	54.11
153.22	4.31	153.74	12.00	154.26	13.48	154.78	55.63
153.23	4.44	153.75	12.03	154.27	13.51	154.79	57.17
153.24	4.57	153.76	12.06	154.28	13.53	154.80	58.75
153.25	4.71	153.77	12.09	154.29	13.56	154.81	60.35
153.26	4.84	153.78	12.12	154.30	13.59	154.82	61.97
153.27	4.98	153.79	12.15	154.31	13.61	154.83	63.63
153.28	5.11	153.80	12.18	154.32	13.64	154.84	65.31
153.29	5.25	153.81	12.21	154.33	13.78	154.85	67.01
153.30	5.39	153.82	12.24	154.34	14.02	154.86	68.74
153.31	5.53	153.83	12.27	154.35	14.33	154.87	70.50
153.32	5.67	153.84	12.30	154.36	14.68	154.88	72.29
153.33	5.81	153.85	12.33	154.37	15.08	154.89	74.10
153.34	5.96	153.86	12.36	154.38	15.52	154.90	75.94
153.35	6.10	153.87	12.39	154.39	16.00	154.91	77.81
153.36	6.25	153.88	12.42	154.40	16.51	154.92	79.70
153.37	6.39	153.89	12.45	154.41	17.05	154.93	81.35
153.38	6.54	153.90	12.48	154.42	17.62	154.94	83.01
153.39	6.69	153.91	12.51	154.43	18.22	154.95	84.69
153.40	6.84	153.92	12.53	154.44	18.85	154.96	86.38
153.41	6.99	153.93	12.56	154.45	19.50	154.97	88.09
153.42	7.14	153.94	12.59	154.46	20.18	154.98	89.80
153.43	7.30	153.95	12.62	154.47	20.88	154.99	91.54
153.44	7.45	153.96	12.65	154.48	21.60	155.00	93.28
153.45	7.60	153.97	12.68	154.49	22.35	155.01	95.04
153.46	7.76	153.98	12.71	154.50	23.12	155.02	96.80

Stage-Discharge for Pond B-20: Basin #20 (continued)

Elevation (feet)	Primary (cfs)
155.03	98.59
155.04	100.38
155.05	102.19
155.06	104.01
155.07	105.84
155.08	107.69
155.09	109.54
155.10	111.41
155.11	113.29
155.12	115.18
155.13	117.13
155.14	119.08
155.15	121.05
155.16	123.03
155.17	125.03
155.18	127.04
155.19	129.06
155.20	131.10
155.21	133.14
155.22	135.20
155.23	137.28
155.24	139.36
155.25	141.46
155.26	143.57
155.27	145.70
155.28	147.84
155.29	149.99
155.30	152.15
155.31	154.32
155.32	156.51
155.33	158.66
155.34	160.81
155.35	162.98
155.36	165.16
155.37	167.35
155.38	169.55
155.39	171.76
155.40	173.98
155.41	176.21
155.42	178.45
155.43	180.70
155.44	182.96
155.45	185.24
155.46	187.52
155.47	189.81
155.48	192.11
155.49	194.43
155.50	196.75

Stage-Area-Storage for Pond B-20: Basin #20

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
150.87	0	0	151.39	6,230	2,756
150.88	456	2	151.40	6,238	2,818
150.89	912	9	151.41	6,246	2,880
150.90	1,368	21	151.42	6,254	2,943
150.91	1,823	36	151.43	6,261	3,005
150.92	2,279	57	151.44	6,269	3,068
150.93	2,735	82	151.45	6,277	3,131
150.94	3,191	112	151.46	6,285	3,194
150.95	3,647	146	151.47	6,293	3,257
150.96	4,103	185	151.48	6,300	3,320
150.97	4,558	228	151.49	6,308	3,383
150.98	5,014	276	151.50	6,316	3,446
150.99	5,470	328	151.51	6,324	3,509
151.00	5,926	385	151.52	6,332	3,572
151.01	5,934	444	151.53	6,339	3,636
151.02	5,942	504	151.54	6,347	3,699
151.03	5,949	563	151.55	6,355	3,762
151.04	5,957	623	151.56	6,363	3,826
151.05	5,965	682	151.57	6,371	3,890
151.06	5,973	742	151.58	6,378	3,953
151.07	5,981	802	151.59	6,386	4,017
151.08	5,988	862	151.60	6,394	4,081
151.09	5,996	922	151.61	6,402	4,145
151.10	6,004	982	151.62	6,410	4,209
151.11	6,012	1,042	151.63	6,417	4,273
151.12	6,020	1,102	151.64	6,425	4,338
151.13	6,027	1,162	151.65	6,433	4,402
151.14	6,035	1,222	151.66	6,441	4,466
151.15	6,043	1,283	151.67	6,449	4,531
151.16	6,051	1,343	151.68	6,456	4,595
151.17	6,059	1,404	151.69	6,464	4,660
151.18	6,066	1,465	151.70	6,472	4,724
151.19	6,074	1,525	151.71	6,480	4,789
151.20	6,082	1,586	151.72	6,488	4,854
151.21	6,090	1,647	151.73	6,495	4,919
151.22	6,098	1,708	151.74	6,503	4,984
151.23	6,105	1,769	151.75	6,511	5,049
151.24	6,113	1,830	151.76	6,519	5,114
151.25	6,121	1,891	151.77	6,527	5,179
151.26	6,129	1,952	151.78	6,534	5,245
151.27	6,137	2,014	151.79	6,542	5,310
151.28	6,144	2,075	151.80	6,550	5,376
151.29	6,152	2,137	151.81	6,558	5,441
151.30	6,160	2,198	151.82	6,566	5,507
151.31	6,168	2,260	151.83	6,573	5,572
151.32	6,176	2,321	151.84	6,581	5,638
151.33	6,183	2,383	151.85	6,589	5,704
151.34	6,191	2,445	151.86	6,597	5,770
151.35	6,199	2,507	151.87	6,605	5,836
151.36	6,207	2,569	151.88	6,612	5,902
151.37	6,215	2,631	151.89	6,620	5,968
151.38	6,222	2,693	151.90	6,628	6,034

Stage-Area-Storage for Pond B-20: Basin #20 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
151.91	6,636	6,101	152.43	7,053	9,659
151.92	6,644	6,167	152.44	7,062	9,730
151.93	6,651	6,234	152.45	7,070	9,801
151.94	6,659	6,300	152.46	7,078	9,871
151.95	6,667	6,367	152.47	7,086	9,942
151.96	6,675	6,434	152.48	7,094	10,013
151.97	6,683	6,500	152.49	7,102	10,084
151.98	6,690	6,567	152.50	7,110	10,155
151.99	6,698	6,634	152.51	7,118	10,226
152.00	6,706	6,701	152.52	7,126	10,298
152.01	6,714	6,768	152.53	7,134	10,369
152.02	6,722	6,835	152.54	7,142	10,440
152.03	6,730	6,903	152.55	7,150	10,512
152.04	6,738	6,970	152.56	7,158	10,583
152.05	6,746	7,038	152.57	7,167	10,655
152.06	6,754	7,105	152.58	7,175	10,727
152.07	6,763	7,173	152.59	7,183	10,798
152.08	6,771	7,240	152.60	7,191	10,870
152.09	6,779	7,308	152.61	7,199	10,942
152.10	6,787	7,376	152.62	7,207	11,014
152.11	6,795	7,444	152.63	7,215	11,086
152.12	6,803	7,512	152.64	7,223	11,159
152.13	6,811	7,580	152.65	7,231	11,231
152.14	6,819	7,648	152.66	7,239	11,303
152.15	6,827	7,716	152.67	7,247	11,376
152.16	6,835	7,784	152.68	7,255	11,448
152.17	6,843	7,853	152.69	7,264	11,521
152.18	6,851	7,921	152.70	7,272	11,593
152.19	6,860	7,990	152.71	7,280	11,666
152.20	6,868	8,059	152.72	7,288	11,739
152.21	6,876	8,127	152.73	7,296	11,812
152.22	6,884	8,196	152.74	7,304	11,885
152.23	6,892	8,265	152.75	7,312	11,958
152.24	6,900	8,334	152.76	7,320	12,031
152.25	6,908	8,403	152.77	7,328	12,104
152.26	6,916	8,472	152.78	7,336	12,178
152.27	6,924	8,541	152.79	7,344	12,251
152.28	6,932	8,611	152.80	7,352	12,325
152.29	6,940	8,680	152.81	7,360	12,398
152.30	6,948	8,749	152.82	7,369	12,472
152.31	6,956	8,819	152.83	7,377	12,545
152.32	6,965	8,888	152.84	7,385	12,619
152.33	6,973	8,958	152.85	7,393	12,693
152.34	6,981	9,028	152.86	7,401	12,767
152.35	6,989	9,098	152.87	7,409	12,841
152.36	6,997	9,168	152.88	7,417	12,915
152.37	7,005	9,238	152.89	7,425	12,990
152.38	7,013	9,308	152.90	7,433	13,064
152.39	7,021	9,378	152.91	7,441	13,138
152.40	7,029	9,448	152.92	7,449	13,213
152.41	7,037	9,519	152.93	7,457	13,287
152.42	7,045	9,589	152.94	7,466	13,362

Stage-Area-Storage for Pond B-20: Basin #20 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
152.95	7,474	13,437	153.47	7,906	17,435
152.96	7,482	13,511	153.48	7,914	17,514
152.97	7,490	13,586	153.49	7,922	17,593
152.98	7,498	13,661	153.50	7,931	17,672
152.99	7,506	13,736	153.51	7,939	17,752
153.00	7,514	13,811	153.52	7,947	17,831
153.01	7,522	13,886	153.53	7,955	17,911
153.02	7,531	13,962	153.54	7,964	17,990
153.03	7,539	14,037	153.55	7,972	18,070
153.04	7,547	14,112	153.56	7,980	18,150
153.05	7,556	14,188	153.57	7,989	18,229
153.06	7,564	14,264	153.58	7,997	18,309
153.07	7,572	14,339	153.59	8,005	18,389
153.08	7,581	14,415	153.60	8,014	18,470
153.09	7,589	14,491	153.61	8,022	18,550
153.10	7,597	14,567	153.62	8,030	18,630
153.11	7,606	14,643	153.63	8,039	18,710
153.12	7,614	14,719	153.64	8,047	18,791
153.13	7,622	14,795	153.65	8,055	18,871
153.14	7,631	14,871	153.66	8,064	18,952
153.15	7,639	14,948	153.67	8,072	19,033
153.16	7,647	15,024	153.68	8,080	19,113
153.17	7,656	15,101	153.69	8,089	19,194
153.18	7,664	15,177	153.70	8,097	19,275
153.19	7,672	15,254	153.71	8,105	19,356
153.20	7,681	15,331	153.72	8,114	19,437
153.21	7,689	15,407	153.73	8,122	19,518
153.22	7,697	15,484	153.74	8,130	19,600
153.23	7,706	15,561	153.75	8,139	19,681
153.24	7,714	15,639	153.76	8,147	19,762
153.25	7,722	15,716	153.77	8,155	19,844
153.26	7,731	15,793	153.78	8,164	19,926
153.27	7,739	15,870	153.79	8,172	20,007
153.28	7,747	15,948	153.80	8,180	20,089
153.29	7,756	16,025	153.81	8,189	20,171
153.30	7,764	16,103	153.82	8,197	20,253
153.31	7,772	16,181	153.83	8,205	20,335
153.32	7,781	16,258	153.84	8,214	20,417
153.33	7,789	16,336	153.85	8,222	20,499
153.34	7,797	16,414	153.86	8,230	20,581
153.35	7,806	16,492	153.87	8,239	20,664
153.36	7,814	16,570	153.88	8,247	20,746
153.37	7,822	16,648	153.89	8,255	20,829
153.38	7,831	16,727	153.90	8,264	20,911
153.39	7,839	16,805	153.91	8,272	20,994
153.40	7,847	16,883	153.92	8,280	21,077
153.41	7,856	16,962	153.93	8,289	21,159
153.42	7,864	17,041	153.94	8,297	21,242
153.43	7,872	17,119	153.95	8,305	21,325
153.44	7,881	17,198	153.96	8,314	21,408
153.45	7,889	17,277	153.97	8,322	21,492
153.46	7,897	17,356	153.98	8,330	21,575

Stage-Area-Storage for Pond B-20: Basin #20 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
153.99	8,339	21,658	154.51	8,785	26,110
154.00	8,347	21,742	154.52	8,793	26,198
154.01	8,356	21,825	154.53	8,802	26,286
154.02	8,364	21,909	154.54	8,810	26,374
154.03	8,373	21,992	154.55	8,819	26,462
154.04	8,381	22,076	154.56	8,827	26,551
154.05	8,390	22,160	154.57	8,836	26,639
154.06	8,398	22,244	154.58	8,845	26,727
154.07	8,407	22,328	154.59	8,853	26,816
154.08	8,416	22,412	154.60	8,862	26,904
154.09	8,424	22,496	154.61	8,870	26,993
154.10	8,433	22,581	154.62	8,879	27,082
154.11	8,441	22,665	154.63	8,888	27,171
154.12	8,450	22,750	154.64	8,896	27,259
154.13	8,459	22,834	154.65	8,905	27,348
154.14	8,467	22,919	154.66	8,913	27,438
154.15	8,476	23,003	154.67	8,922	27,527
154.16	8,484	23,088	154.68	8,930	27,616
154.17	8,493	23,173	154.69	8,939	27,705
154.18	8,501	23,258	154.70	8,948	27,795
154.19	8,510	23,343	154.71	8,956	27,884
154.20	8,519	23,428	154.72	8,965	27,974
154.21	8,527	23,513	154.73	8,973	28,064
154.22	8,536	23,599	154.74	8,982	28,153
154.23	8,544	23,684	154.75	8,991	28,243
154.24	8,553	23,770	154.76	8,999	28,333
154.25	8,562	23,855	154.77	9,008	28,423
154.26	8,570	23,941	154.78	9,016	28,513
154.27	8,579	24,027	154.79	9,025	28,604
154.28	8,587	24,112	154.80	9,033	28,694
154.29	8,596	24,198	154.81	9,042	28,784
154.30	8,604	24,284	154.82	9,051	28,875
154.31	8,613	24,370	154.83	9,059	28,965
154.32	8,622	24,457	154.84	9,068	29,056
154.33	8,630	24,543	154.85	9,076	29,147
154.34	8,639	24,629	154.86	9,085	29,237
154.35	8,647	24,716	154.87	9,093	29,328
154.36	8,656	24,802	154.88	9,102	29,419
154.37	8,664	24,889	154.89	9,111	29,510
154.38	8,673	24,975	154.90	9,119	29,601
154.39	8,682	25,062	154.91	9,128	29,693
154.40	8,690	25,149	154.92	9,136	29,784
154.41	8,699	25,236	154.93	9,145	29,875
154.42	8,707	25,323	154.94	9,154	29,967
154.43	8,716	25,410	154.95	9,162	30,059
154.44	8,725	25,497	154.96	9,171	30,150
154.45	8,733	25,585	154.97	9,179	30,242
154.46	8,742	25,672	154.98	9,188	30,334
154.47	8,750	25,760	154.99	9,196	30,426
154.48	8,759	25,847	155.00	9,205	30,518
154.49	8,767	25,935	155.01	9,214	30,610
154.50	8,776	26,022	155.02	9,223	30,702

Stage-Area-Storage for Pond B-20: Basin #20 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
155.03	9,231	30,794
155.04	9,240	30,887
155.05	9,249	30,979
155.06	9,258	31,072
155.07	9,266	31,164
155.08	9,275	31,257
155.09	9,284	31,350
155.10	9,293	31,443
155.11	9,301	31,536
155.12	9,310	31,629
155.13	9,319	31,722
155.14	9,328	31,815
155.15	9,336	31,908
155.16	9,345	32,002
155.17	9,354	32,095
155.18	9,363	32,189
155.19	9,371	32,282
155.20	9,380	32,376
155.21	9,389	32,470
155.22	9,398	32,564
155.23	9,406	32,658
155.24	9,415	32,752
155.25	9,424	32,846
155.26	9,433	32,941
155.27	9,442	33,035
155.28	9,450	33,129
155.29	9,459	33,224
155.30	9,468	33,319
155.31	9,477	33,413
155.32	9,485	33,508
155.33	9,494	33,603
155.34	9,503	33,698
155.35	9,512	33,793
155.36	9,520	33,888
155.37	9,529	33,984
155.38	9,538	34,079
155.39	9,547	34,174
155.40	9,555	34,270
155.41	9,564	34,365
155.42	9,573	34,461
155.43	9,582	34,557
155.44	9,590	34,653
155.45	9,599	34,749
155.46	9,608	34,845
155.47	9,617	34,941
155.48	9,625	35,037
155.49	9,634	35,133
155.50	9,643	35,230

Summary for Pond B-21: Basin #21

Inflow Area = 2.500 ac, 35.44% Impervious, Inflow Depth = 6.48" for Current 100 yr event
 Inflow = 16.61 cfs @ 12.17 hrs, Volume= 1.350 af
 Outflow = 11.94 cfs @ 12.27 hrs, Volume= 1.217 af, Atten= 28%, Lag= 5.8 min
 Primary = 11.94 cfs @ 12.27 hrs, Volume= 1.217 af
 Routed to Link PDA-2 : Proposed Drainage Area #2

Routing by Stor-Ind method, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 Peak Elev= 153.29' @ 12.27 hrs Surf.Area= 8,118 sf Storage= 21,399 cf

Plug-Flow detention time= 283.1 min calculated for 1.217 af (90% of inflow)
 Center-of-Mass det. time= 231.9 min (1,017.5 - 785.7)

Volume	Invert	Avail.Storage	Storage Description
#1	149.90'	42,109 cf	Custom Stage Data (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
149.90	0	0	0
150.00	4,848	242	242
151.00	5,776	5,312	5,554
152.00	6,761	6,269	11,823
153.00	7,802	7,282	19,104
154.00	8,900	8,351	27,455
155.00	10,054	9,477	36,932
155.50	10,653	5,177	42,109

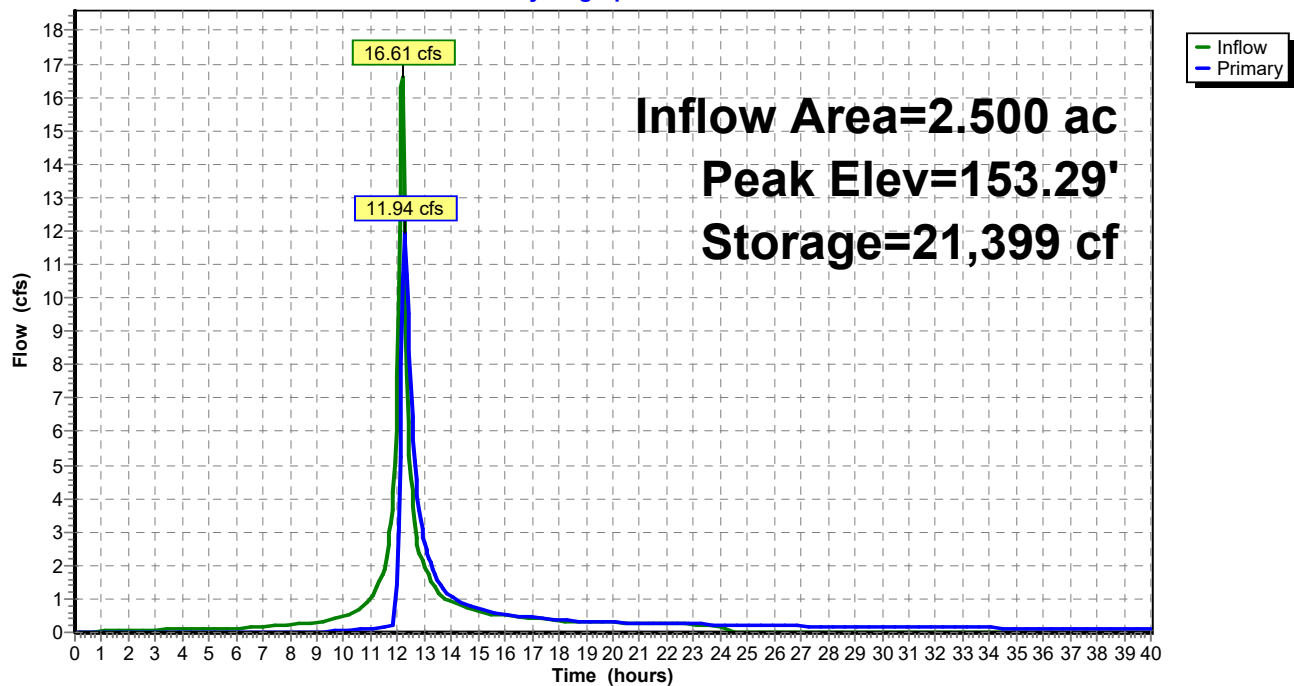
Device	Routing	Invert	Outlet Devices
#1	Primary	149.30'	18.0" Round Culvert L= 24.0' Ke= 0.500 Inlet / Outlet Invert= 149.30' / 148.32' S= 0.0408 '/' Cc= 0.900 n= 0.013, Flow Area= 1.77 sf
#2	Device 1	150.68'	2.5" Vert. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#3	Device 1	152.33'	4.0' long Sharp-Crested Rectangular Weir 2 End Contraction(s)
#4	Primary	154.16'	50.0' long + 3.0 '/' SideZ x 5.0' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 Coef. (English) 2.34 2.50 2.70 2.68 2.68 2.66 2.65 2.65 2.65 2.65 2.67 2.66 2.68 2.70 2.74 2.79 2.88

Primary OutFlow Max=11.77 cfs @ 12.27 hrs HW=153.28' (Free Discharge)

1=Culvert (Passes 11.77 cfs of 15.29 cfs potential flow)
 2=Orifice/Grate (Orifice Controls 0.26 cfs @ 7.60 fps)
 3=Sharp-Crested Rectangular Weir (Weir Controls 11.51 cfs @ 3.18 fps)
 4=Broad-Crested Rectangular Weir (Controls 0.00 cfs)

Pond B-21: Basin #21

Hydrograph



Stage-Discharge for Pond B-21: Basin #21

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
149.90	0.00	150.42	0.00	150.94	0.06	151.46	0.13
149.91	0.00	150.43	0.00	150.95	0.07	151.47	0.14
149.92	0.00	150.44	0.00	150.96	0.07	151.48	0.14
149.93	0.00	150.45	0.00	150.97	0.07	151.49	0.14
149.94	0.00	150.46	0.00	150.98	0.07	151.50	0.14
149.95	0.00	150.47	0.00	150.99	0.07	151.51	0.14
149.96	0.00	150.48	0.00	151.00	0.08	151.52	0.14
149.97	0.00	150.49	0.00	151.01	0.08	151.53	0.14
149.98	0.00	150.50	0.00	151.02	0.08	151.54	0.14
149.99	0.00	150.51	0.00	151.03	0.08	151.55	0.14
150.00	0.00	150.52	0.00	151.04	0.08	151.56	0.14
150.01	0.00	150.53	0.00	151.05	0.08	151.57	0.15
150.02	0.00	150.54	0.00	151.06	0.09	151.58	0.15
150.03	0.00	150.55	0.00	151.07	0.09	151.59	0.15
150.04	0.00	150.56	0.00	151.08	0.09	151.60	0.15
150.05	0.00	150.57	0.00	151.09	0.09	151.61	0.15
150.06	0.00	150.58	0.00	151.10	0.09	151.62	0.15
150.07	0.00	150.59	0.00	151.11	0.09	151.63	0.15
150.08	0.00	150.60	0.00	151.12	0.10	151.64	0.15
150.09	0.00	150.61	0.00	151.13	0.10	151.65	0.15
150.10	0.00	150.62	0.00	151.14	0.10	151.66	0.15
150.11	0.00	150.63	0.00	151.15	0.10	151.67	0.15
150.12	0.00	150.64	0.00	151.16	0.10	151.68	0.16
150.13	0.00	150.65	0.00	151.17	0.10	151.69	0.16
150.14	0.00	150.66	0.00	151.18	0.10	151.70	0.16
150.15	0.00	150.67	0.00	151.19	0.10	151.71	0.16
150.16	0.00	150.68	0.00	151.20	0.11	151.72	0.16
150.17	0.00	150.69	0.00	151.21	0.11	151.73	0.16
150.18	0.00	150.70	0.00	151.22	0.11	151.74	0.16
150.19	0.00	150.71	0.00	151.23	0.11	151.75	0.16
150.20	0.00	150.72	0.00	151.24	0.11	151.76	0.16
150.21	0.00	150.73	0.00	151.25	0.11	151.77	0.16
150.22	0.00	150.74	0.01	151.26	0.11	151.78	0.16
150.23	0.00	150.75	0.01	151.27	0.11	151.79	0.16
150.24	0.00	150.76	0.01	151.28	0.12	151.80	0.17
150.25	0.00	150.77	0.01	151.29	0.12	151.81	0.17
150.26	0.00	150.78	0.02	151.30	0.12	151.82	0.17
150.27	0.00	150.79	0.02	151.31	0.12	151.83	0.17
150.28	0.00	150.80	0.02	151.32	0.12	151.84	0.17
150.29	0.00	150.81	0.03	151.33	0.12	151.85	0.17
150.30	0.00	150.82	0.03	151.34	0.12	151.86	0.17
150.31	0.00	150.83	0.03	151.35	0.12	151.87	0.17
150.32	0.00	150.84	0.04	151.36	0.12	151.88	0.17
150.33	0.00	150.85	0.04	151.37	0.13	151.89	0.17
150.34	0.00	150.86	0.05	151.38	0.13	151.90	0.17
150.35	0.00	150.87	0.05	151.39	0.13	151.91	0.17
150.36	0.00	150.88	0.05	151.40	0.13	151.92	0.17
150.37	0.00	150.89	0.05	151.41	0.13	151.93	0.18
150.38	0.00	150.90	0.06	151.42	0.13	151.94	0.18
150.39	0.00	150.91	0.06	151.43	0.13	151.95	0.18
150.40	0.00	150.92	0.06	151.44	0.13	151.96	0.18
150.41	0.00	150.93	0.06	151.45	0.13	151.97	0.18

Stage-Discharge for Pond B-21: Basin #21 (continued)

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
151.98	0.18	152.50	1.12	153.02	7.48	153.54	15.90
151.99	0.18	152.51	1.21	153.03	7.64	153.55	15.92
152.00	0.18	152.52	1.29	153.04	7.79	153.56	15.94
152.01	0.18	152.53	1.38	153.05	7.95	153.57	15.96
152.02	0.18	152.54	1.46	153.06	8.11	153.58	15.99
152.03	0.18	152.55	1.55	153.07	8.27	153.59	16.01
152.04	0.18	152.56	1.64	153.08	8.43	153.60	16.03
152.05	0.18	152.57	1.74	153.09	8.59	153.61	16.05
152.06	0.19	152.58	1.83	153.10	8.75	153.62	16.08
152.07	0.19	152.59	1.93	153.11	8.91	153.63	16.10
152.08	0.19	152.60	2.03	153.12	9.07	153.64	16.12
152.09	0.19	152.61	2.13	153.13	9.24	153.65	16.14
152.10	0.19	152.62	2.24	153.14	9.40	153.66	16.17
152.11	0.19	152.63	2.34	153.15	9.57	153.67	16.19
152.12	0.19	152.64	2.45	153.16	9.73	153.68	16.21
152.13	0.19	152.65	2.55	153.17	9.90	153.69	16.23
152.14	0.19	152.66	2.66	153.18	10.07	153.70	16.26
152.15	0.19	152.67	2.77	153.19	10.24	153.71	16.28
152.16	0.19	152.68	2.89	153.20	10.41	153.72	16.30
152.17	0.19	152.69	3.00	153.21	10.58	153.73	16.32
152.18	0.19	152.70	3.12	153.22	10.75	153.74	16.34
152.19	0.19	152.71	3.23	153.23	10.92	153.75	16.37
152.20	0.20	152.72	3.35	153.24	11.10	153.76	16.39
152.21	0.20	152.73	3.47	153.25	11.27	153.77	16.41
152.22	0.20	152.74	3.59	153.26	11.44	153.78	16.43
152.23	0.20	152.75	3.72	153.27	11.62	153.79	16.46
152.24	0.20	152.76	3.84	153.28	11.80	153.80	16.48
152.25	0.20	152.77	3.96	153.29	11.97	153.81	16.50
152.26	0.20	152.78	4.09	153.30	12.15	153.82	16.52
152.27	0.20	152.79	4.22	153.31	12.33	153.83	16.54
152.28	0.20	152.80	4.35	153.32	12.51	153.84	16.56
152.29	0.20	152.81	4.48	153.33	12.69	153.85	16.59
152.30	0.20	152.82	4.61	153.34	12.87	153.86	16.61
152.31	0.20	152.83	4.74	153.35	13.05	153.87	16.63
152.32	0.20	152.84	4.88	153.36	13.23	153.88	16.65
152.33	0.20	152.85	5.01	153.37	13.42	153.89	16.67
152.34	0.22	152.86	5.15	153.38	13.60	153.90	16.70
152.35	0.24	152.87	5.29	153.39	13.78	153.91	16.72
152.36	0.27	152.88	5.43	153.40	13.97	153.92	16.74
152.37	0.31	152.89	5.57	153.41	14.15	153.93	16.76
152.38	0.35	152.90	5.71	153.42	14.34	153.94	16.78
152.39	0.40	152.91	5.85	153.43	14.53	153.95	16.80
152.40	0.45	152.92	5.99	153.44	14.72	153.96	16.82
152.41	0.50	152.93	6.14	153.45	14.90	153.97	16.85
152.42	0.56	152.94	6.28	153.46	15.09	153.98	16.87
152.43	0.62	152.95	6.43	153.47	15.28	153.99	16.89
152.44	0.69	152.96	6.58	153.48	15.47	154.00	16.91
152.45	0.75	152.97	6.73	153.49	15.66	154.01	16.93
152.46	0.82	152.98	6.87	153.50	15.80	154.02	16.95
152.47	0.89	152.99	7.03	153.51	15.83	154.03	16.97
152.48	0.97	153.00	7.18	153.52	15.85	154.04	17.00
152.49	1.04	153.01	7.33	153.53	15.87	154.05	17.02

Stage-Discharge for Pond B-21: Basin #21 (continued)

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
154.06	17.04	154.58	53.10	155.10	146.75
154.07	17.06	154.59	54.54	155.11	148.87
154.08	17.08	154.60	56.00	155.12	151.01
154.09	17.10	154.61	57.49	155.13	153.15
154.10	17.12	154.62	59.01	155.14	155.31
154.11	17.14	154.63	60.55	155.15	157.48
154.12	17.17	154.64	62.12	155.16	159.67
154.13	17.19	154.65	63.71	155.17	161.81
154.14	17.21	154.66	65.33	155.18	163.96
154.15	17.23	154.67	66.98	155.19	166.13
154.16	17.25	154.68	68.66	155.20	168.30
154.17	17.39	154.69	70.36	155.21	170.49
154.18	17.62	154.70	72.09	155.22	172.68
154.19	17.92	154.71	73.84	155.23	174.89
154.20	18.27	154.72	75.62	155.24	177.11
154.21	18.67	154.73	77.43	155.25	179.33
154.22	19.10	154.74	79.26	155.26	181.57
154.23	19.57	154.75	81.13	155.27	183.82
154.24	20.07	154.76	83.02	155.28	186.08
154.25	20.61	154.77	84.66	155.29	188.35
154.26	21.18	154.78	86.32	155.30	190.63
154.27	21.77	154.79	88.00	155.31	192.91
154.28	22.39	154.80	89.68	155.32	195.21
154.29	23.04	154.81	91.38	155.33	197.52
154.30	23.71	154.82	93.10	155.34	199.84
154.31	24.41	154.83	94.82	155.35	202.17
154.32	25.13	154.84	96.56	155.36	204.51
154.33	25.87	154.85	98.31	155.37	206.89
154.34	26.64	154.86	100.08	155.38	209.29
154.35	27.42	154.87	101.86	155.39	211.70
154.36	28.23	154.88	103.65	155.40	214.11
154.37	29.10	154.89	105.45	155.41	216.54
154.38	29.99	154.90	107.27	155.42	218.98
154.39	30.91	154.91	109.09	155.43	221.43
154.40	31.85	154.92	110.94	155.44	223.89
154.41	32.82	154.93	112.79	155.45	226.35
154.42	33.81	154.94	114.65	155.46	228.83
154.43	34.83	154.95	116.53	155.47	231.33
154.44	35.88	154.96	118.42	155.48	233.83
154.45	36.94	154.97	120.36	155.49	236.34
154.46	38.04	154.98	122.31	155.50	238.86
154.47	39.15	154.99	124.27		
154.48	40.30	155.00	126.25		
154.49	41.46	155.01	128.24		
154.50	42.65	155.02	130.25		
154.51	43.87	155.03	132.27		
154.52	45.10	155.04	134.30		
154.53	46.37	155.05	136.34		
154.54	47.65	155.06	138.40		
154.55	48.96	155.07	140.47		
154.56	50.30	155.08	142.55		
154.57	51.69	155.09	144.65		