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
2001-3000

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 = 6.41" for Current 100 yr event
Inflow = 16.23 cfs @ 12.17 hrs, Volume= 1.315 af
Outflow = 10.71 cfs @ 12.28 hrs, Volume= 1.173 af, Atten= 34%, Lag= 6.8 min
Primary = 10.71 cfs @ 12.28 hrs, Volume= 1.173 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= 150.36' @ 12.28 hrs Surf.Area= 9,405 sf Storage= 21,627 cf

Plug-Flow detention time= 280.8 min calculated for 1.173 af (89% of inflow)
Center-of-Mass det. time= 226.4 min (1,014.0 - 787.6)

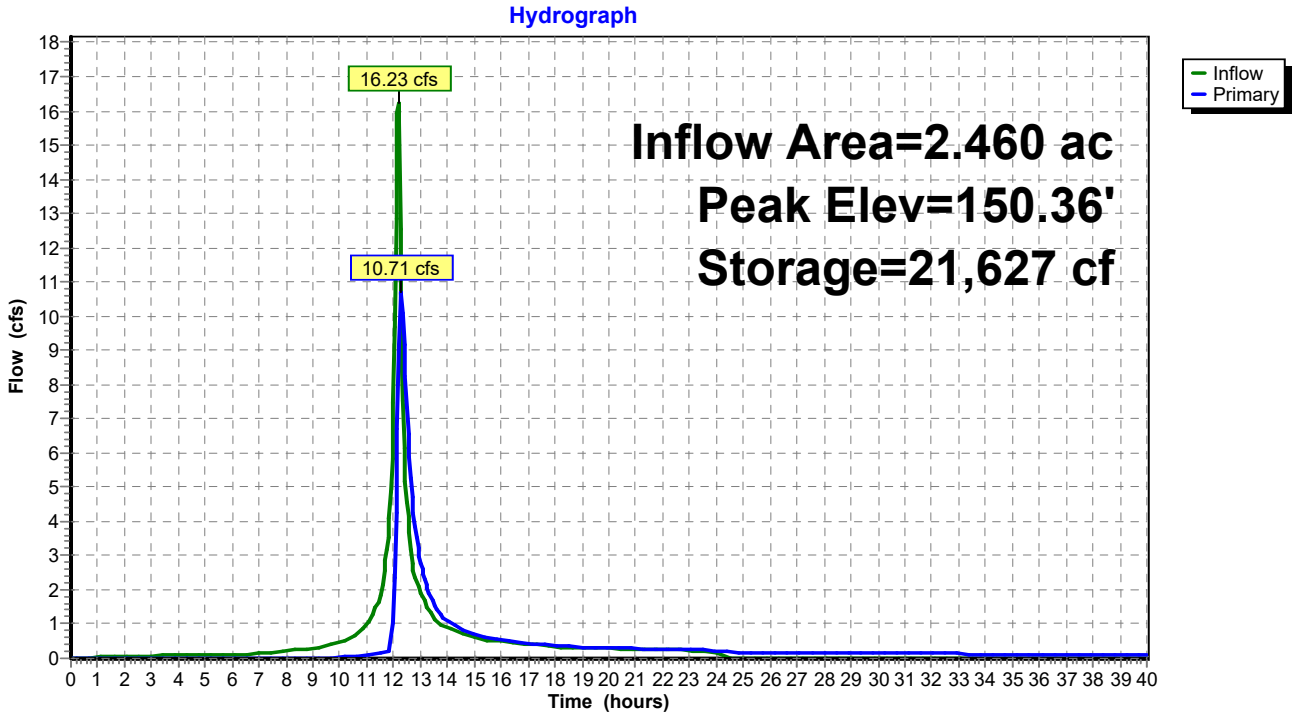
Volume	Invert	Avail.Storage	Storage Description
#1	147.30'	50,528 cf	**Custom Stage Data (Prismatic)** Listed below (Recalc)

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=10.63 cfs @ 12.28 hrs HW=150.35' (Free Discharge)
- **1=Culvert** (Passes 10.63 cfs of 12.92 cfs potential flow)
  - **2=Orifice/Grate** (Orifice Controls 0.24 cfs @ 6.98 fps)
  - **3=Sharp-Crested Rectangular Weir** (Weir Controls 10.39 cfs @ 3.07 fps)
- **4=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)

Pond B-22: Basin #22



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)
147.30	0	0
147.31	99	0
147.32	198	2
147.33	297	4
147.34	396	8
147.35	495	12
147.36	594	18
147.37	693	24
147.38	792	32
147.39	891	40
147.40	990	49
147.41	1,089	60
147.42	1,188	71
147.43	1,287	84
147.44	1,386	97
147.45	1,485	111
147.46	1,584	127
147.47	1,683	143
147.48	1,781	160
147.49	1,880	179
147.50	1,979	198
147.51	2,078	218
147.52	2,177	240
147.53	2,276	262
147.54	2,375	285
147.55	2,474	309
147.56	2,573	335
147.57	2,672	361
147.58	2,771	388
147.59	2,870	416
147.60	2,969	445
147.61	3,068	476
147.62	3,167	507
147.63	3,266	539
147.64	3,365	572
147.65	3,464	606
147.66	3,563	641
147.67	3,662	677
147.68	3,761	715
147.69	3,860	753
147.70	3,959	792
147.71	4,058	832
147.72	4,157	873
147.73	4,256	915
147.74	4,355	958
147.75	4,454	1,002
147.76	4,553	1,047
147.77	4,652	1,093
147.78	4,751	1,140
147.79	4,850	1,188
147.80	4,949	1,237
147.81	5,048	1,287
147.82	5,147	1,338
147.83	5,245	1,390
147.84	5,344	1,443
147.85	5,443	1,497
147.86	5,542	1,552
147.87	5,641	1,608
147.88	5,740	1,665
147.89	5,839	1,723
147.90	5,938	1,781
147.91	6,037	1,841
147.92	6,136	1,902
147.93	6,235	1,964
147.94	6,334	2,027
147.95	6,433	2,091
147.96	6,532	2,156
147.97	6,631	2,221
147.98	6,730	2,288
147.99	6,829	2,356
148.00	6,928	2,425
148.01	6,938	2,494
148.02	6,948	2,564
148.03	6,958	2,633
148.04	6,968	2,703
148.05	6,978	2,772
148.06	6,989	2,842
148.07	6,999	2,912
148.08	7,009	2,982
148.09	7,019	3,052
148.10	7,029	3,123
148.11	7,039	3,193
148.12	7,049	3,263
148.13	7,059	3,334
148.14	7,069	3,405
148.15	7,079	3,475
148.16	7,089	3,546
148.17	7,100	3,617
148.18	7,110	3,688
148.19	7,120	3,759
148.20	7,130	3,831
148.21	7,140	3,902
148.22	7,150	3,973
148.23	7,160	4,045
148.24	7,170	4,117
148.25	7,180	4,188
148.26	7,190	4,260
148.27	7,200	4,332
148.28	7,211	4,404
148.29	7,221	4,476
148.30	7,231	4,549
148.31	7,241	4,621
148.32	7,251	4,693
148.33	7,261	4,766

Stage-Area-Storage for Pond B-22: Basin #22 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
148.34	7,271	4,839
148.35	7,281	4,911
148.36	7,291	4,984
148.37	7,301	5,057
148.38	7,311	5,130
148.39	7,322	5,203
148.40	7,332	5,277
148.41	7,342	5,350
148.42	7,352	5,424
148.43	7,362	5,497
148.44	7,372	5,571
148.45	7,382	5,645
148.46	7,392	5,718
148.47	7,402	5,792
148.48	7,412	5,866
148.49	7,422	5,941
148.50	7,433	6,015
148.51	7,443	6,089
148.52	7,453	6,164
148.53	7,463	6,238
148.54	7,473	6,313
148.55	7,483	6,388
148.56	7,493	6,463
148.57	7,503	6,538
148.58	7,513	6,613
148.59	7,523	6,688
148.60	7,533	6,763
148.61	7,543	6,839
148.62	7,554	6,914
148.63	7,564	6,990
148.64	7,574	7,065
148.65	7,584	7,141
148.66	7,594	7,217
148.67	7,604	7,293
148.68	7,614	7,369
148.69	7,624	7,445
148.70	7,634	7,522
148.71	7,644	7,598
148.72	7,654	7,674
148.73	7,665	7,751
148.74	7,675	7,828
148.75	7,685	7,905
148.76	7,695	7,981
148.77	7,705	8,058
148.78	7,715	8,136
148.79	7,725	8,213
148.80	7,735	8,290
148.81	7,745	8,367
148.82	7,755	8,445
148.83	7,765	8,523
148.84	7,776	8,600
148.85	7,786	8,678
148.86	7,796	8,756
148.87	7,806	8,834
148.88	7,816	8,912
148.89	7,826	8,990
148.90	7,836	9,069
148.91	7,846	9,147
148.92	7,856	9,226
148.93	7,866	9,304
148.94	7,876	9,383
148.95	7,887	9,462
148.96	7,897	9,541
148.97	7,907	9,620
148.98	7,917	9,699
148.99	7,927	9,778
149.00	7,937	9,857
149.01	7,948	9,937
149.02	7,958	10,016
149.03	7,969	10,096
149.04	7,980	10,176
149.05	7,990	10,255
149.06	8,001	10,335
149.07	8,012	10,416
149.08	8,022	10,496
149.09	8,033	10,576
149.10	8,044	10,656
149.11	8,054	10,737
149.12	8,065	10,817
149.13	8,076	10,898
149.14	8,086	10,979
149.15	8,097	11,060
149.16	8,108	11,141
149.17	8,118	11,222
149.18	8,129	11,303
149.19	8,140	11,385
149.20	8,150	11,466
149.21	8,161	11,548
149.22	8,172	11,629
149.23	8,182	11,711
149.24	8,193	11,793
149.25	8,204	11,875
149.26	8,214	11,957
149.27	8,225	12,039
149.28	8,235	12,121
149.29	8,246	12,204
149.30	8,257	12,286
149.31	8,267	12,369
149.32	8,278	12,452
149.33	8,289	12,535
149.34	8,299	12,617
149.35	8,310	12,701
149.36	8,321	12,784
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 = 6.43" for Current 100 yr event
Inflow = 16.18 cfs @ 12.17 hrs, Volume= 1.312 af
Outflow = 11.95 cfs @ 12.26 hrs, Volume= 1.225 af, Atten= 26%, Lag= 5.6 min
Primary = 11.95 cfs @ 12.26 hrs, Volume= 1.225 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= 147.44' @ 12.26 hrs Surf.Area= 8,095 sf Storage= 18,464 cf

Plug-Flow detention time= 191.4 min calculated for 1.225 af (93% of inflow)
Center-of-Mass det. time= 154.4 min (941.6 - 787.2)

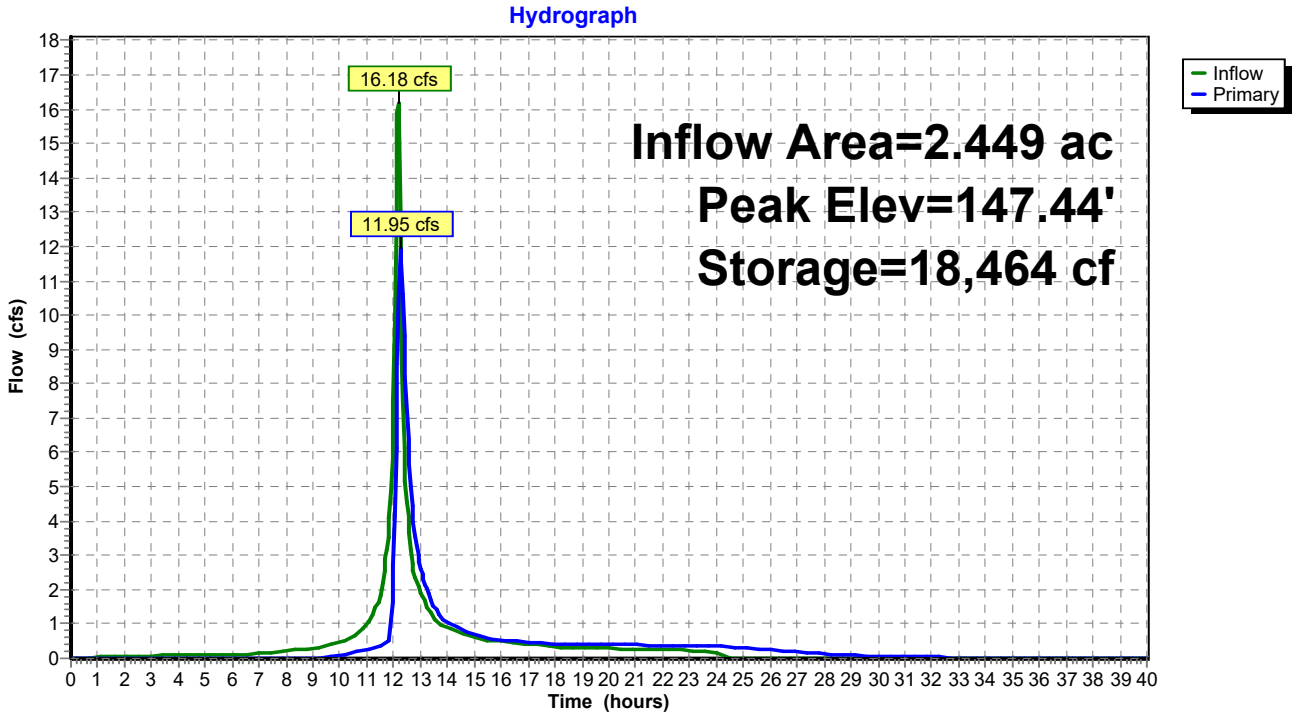
Volume	Invert	Avail.Storage	Storage Description
#1	144.30'	23,175 cf	**Custom Stage Data (Prismatic)** Listed below (Recalc)

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=11.81 cfs @ 12.26 hrs HW=147.43' (Free Discharge)
- **1=Culvert** (Passes 11.81 cfs of 13.13 cfs potential flow)
  - **2=Orifice/Grate** (Orifice Controls 0.59 cfs @ 6.78 fps)
  - **3=Sharp-Crested Rectangular Weir** (Weir Controls 11.22 cfs @ 3.16 fps)
- **4=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)

Pond B-23: Basin #23



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)
147.42	8,073	18,303
147.43	8,084	18,384
147.44	8,095	18,464
147.45	8,107	18,545
147.46	8,118	18,627
147.47	8,129	18,708
147.48	8,140	18,789
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
147.94	8,659	22,653
147.95	8,671	22,740
147.96	8,682	22,827
147.97	8,693	22,913
147.98	8,704	23,000
147.99	8,716	23,087
148.00	**8,727**	**23,175**

Summary for Pond B-24: Basin #24

Inflow Area = 2.408 ac, 37.46% Impervious, Inflow Depth = 6.54" for Current 100 yr event
Inflow = 16.09 cfs @ 12.17 hrs, Volume= 1.312 af
Outflow = 10.71 cfs @ 12.28 hrs, Volume= 1.217 af, Atten= 33%, Lag= 6.7 min
Primary = 10.71 cfs @ 12.28 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= 147.10' @ 12.28 hrs Surf.Area= 9,460 sf Storage= 20,193 cf

Plug-Flow detention time= 185.7 min calculated for 1.216 af (93% of inflow)
Center-of-Mass det. time= 146.8 min (930.8 - 784.0)

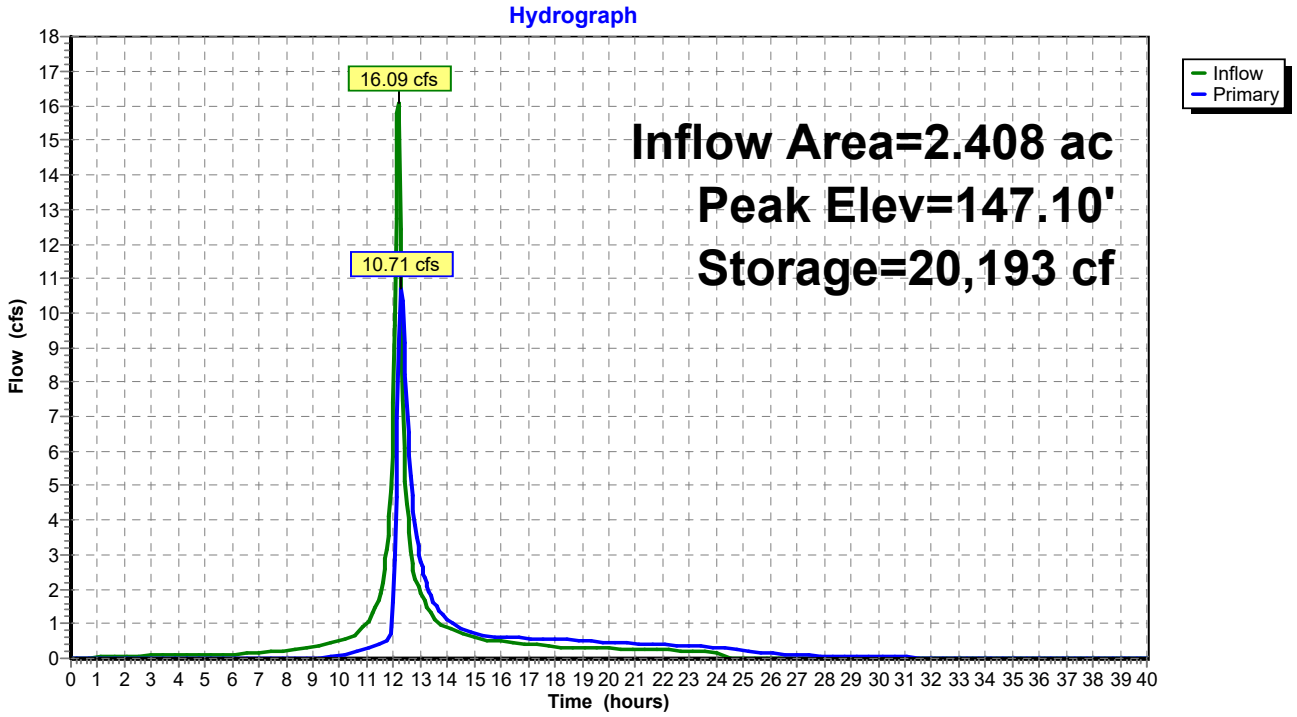
Volume	Invert	Avail.Storage	Storage Description
#1	144.30'	40,061 cf	**Custom Stage Data (Prismatic)** Listed below (Recalc)

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=10.62 cfs @ 12.28 hrs HW=147.10' (Free Discharge)
- **1=Culvert** (Passes 10.62 cfs of 12.17 cfs potential flow)
  - **2=Orifice/Grate** (Orifice Controls 0.86 cfs @ 6.31 fps)
  - **3=Sharp-Crested Rectangular Weir** (Weir Controls 9.76 cfs @ 3.01 fps)
- **4=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)

Pond B-24: Basin #24



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)
148.46	58.05
148.47	59.62
148.48	61.22
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
148.98	155.14
148.99	157.32
149.00	**159.47**

Stage-Area-Storage for Pond B-24: Basin #24

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
144.30	0	0
144.31	105	1
144.32	209	2
144.33	314	5
144.34	419	8
144.35	524	13
144.36	628	19
144.37	733	26
144.38	838	34
144.39	943	42
144.40	1,047	52
144.41	1,152	63
144.42	1,257	75
144.43	1,361	88
144.44	1,466	103
144.45	1,571	118
144.46	1,676	134
144.47	1,780	151
144.48	1,885	170
144.49	1,990	189
144.50	2,095	209
144.51	2,199	231
144.52	2,304	253
144.53	2,409	277
144.54	2,513	302
144.55	2,618	327
144.56	2,723	354
144.57	2,828	382
144.58	2,932	411
144.59	3,037	440
144.60	3,142	471
144.61	3,247	503
144.62	3,351	536
144.63	3,456	570
144.64	3,561	605
144.65	3,666	641
144.66	3,770	679
144.67	3,875	717
144.68	3,980	756
144.69	4,084	796
144.70	4,189	838
144.71	4,294	880
144.72	4,399	924
144.73	4,503	968
144.74	4,608	1,014
144.75	4,713	1,060
144.76	4,818	1,108
144.77	4,922	1,157
144.78	5,027	1,206
144.79	5,132	1,257
144.80	5,236	1,309
144.81	5,341	1,362
144.82	5,446	1,416
144.83	5,551	1,471
144.84	5,655	1,527
144.85	5,760	1,584
144.86	5,865	1,642
144.87	5,970	1,701
144.88	6,074	1,762
144.89	6,179	1,823
144.90	6,284	1,885
144.91	6,388	1,948
144.92	6,493	2,013
144.93	6,598	2,078
144.94	6,703	2,145
144.95	6,807	2,212
144.96	6,912	2,281
144.97	7,017	2,351
144.98	7,122	2,421
144.99	7,226	2,493
145.00	7,331	2,566
145.01	7,341	2,639
145.02	7,351	2,713
145.03	7,361	2,786
145.04	7,371	2,860
145.05	7,381	2,934
145.06	7,391	3,008
145.07	7,401	3,081
145.08	7,411	3,156
145.09	7,421	3,230
145.10	7,431	3,304
145.11	7,441	3,378
145.12	7,451	3,453
145.13	7,460	3,527
145.14	7,470	3,602
145.15	7,480	3,677
145.16	7,490	3,752
145.17	7,500	3,827
145.18	7,510	3,902
145.19	7,520	3,977
145.20	7,530	4,052
145.21	7,540	4,127
145.22	7,550	4,203
145.23	7,560	4,278
145.24	7,570	4,354
145.25	7,580	4,430
145.26	7,590	4,506
145.27	7,600	4,582
145.28	7,610	4,658
145.29	7,620	4,734
145.30	7,630	4,810
145.31	7,640	4,886
145.32	7,650	4,963
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)
148.46	10,904	34,016
148.47	10,915	34,125
148.48	10,925	34,234
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
148.98	11,466	39,832
148.99	11,477	39,947
149.00	**11,488**	**40,061**

Summary for Pond B-25: Basin #25

Inflow Area = 2.500 ac, 34.96% Impervious, Inflow Depth = 6.47" for Current 100 yr event
Inflow = 16.58 cfs @ 12.17 hrs, Volume= 1.348 af
Outflow = 11.89 cfs @ 12.27 hrs, Volume= 1.259 af, Atten= 28%, Lag= 6.1 min
Primary = 11.89 cfs @ 12.27 hrs, Volume= 1.259 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= 146.92' @ 12.27 hrs Surf.Area= 7,350 sf Storage= 19,168 cf

Plug-Flow detention time= 177.2 min calculated for 1.259 af (93% of inflow)
Center-of-Mass det. time= 140.4 min (926.4 - 786.1)

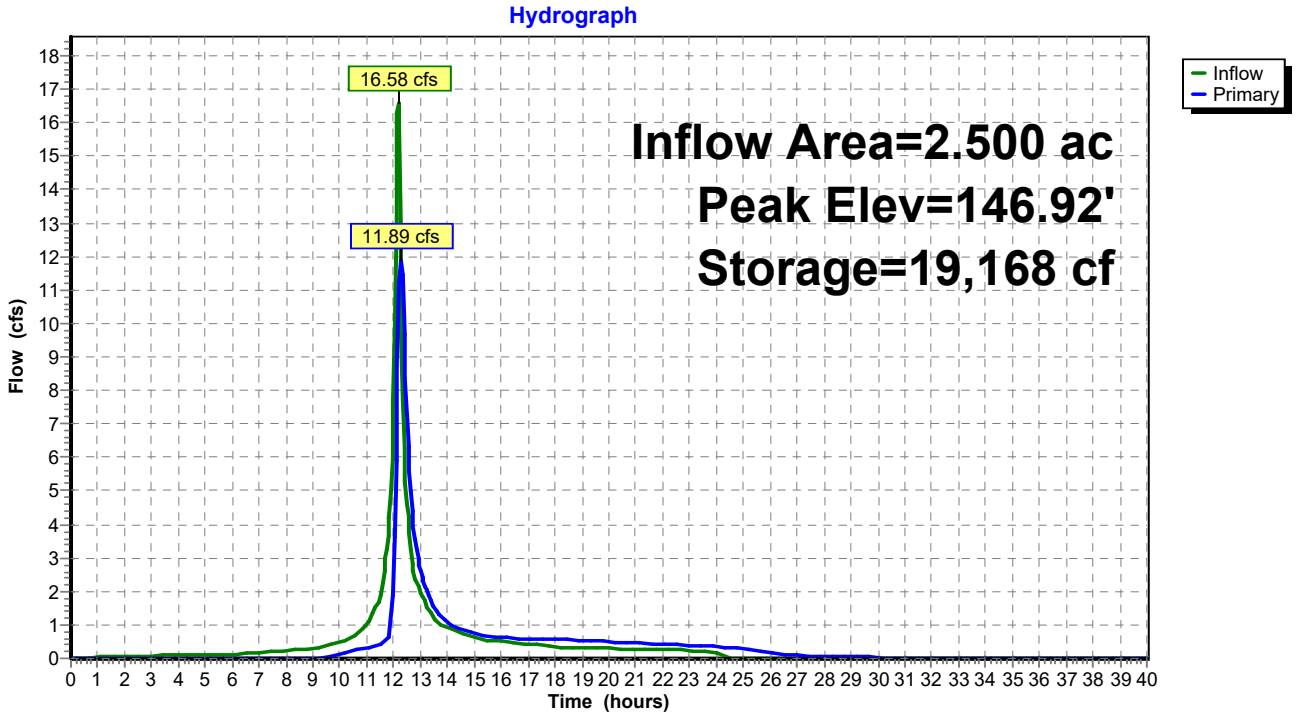
Volume	Invert	Avail.Storage	Storage Description
#1	143.30'	36,587 cf	**Custom Stage Data (Prismatic)** Listed below (Recalc)

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=11.82 cfs @ 12.27 hrs HW=146.91' (Free Discharge)
- **1=Culvert** (Barrel Controls 11.82 cfs @ 6.69 fps)
  - **2=Orifice/Grate** (Passes < 0.81 cfs potential flow)
  - **3=Sharp-Crested Rectangular Weir** (Passes < 11.63 cfs potential flow)
- **4=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)

Pond B-25: Basin #25



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)
143.30	0	0
143.31	67	0
143.32	134	1
143.33	202	3
143.34	269	5
143.35	336	8
143.36	403	12
143.37	470	16
143.38	537	21
143.39	605	27
143.40	672	34
143.41	739	41
143.42	806	48
143.43	873	57
143.44	940	66
143.45	1,008	76
143.46	1,075	86
143.47	1,142	97
143.48	1,209	109
143.49	1,276	121
143.50	1,343	134
143.51	1,411	148
143.52	1,478	163
143.53	1,545	178
143.54	1,612	193
143.55	1,679	210
143.56	1,746	227
143.57	1,814	245
143.58	1,881	263
143.59	1,948	282
143.60	2,015	302
143.61	2,082	323
143.62	2,149	344
143.63	2,217	366
143.64	2,284	388
143.65	2,351	411
143.66	2,418	435
143.67	2,485	460
143.68	2,553	485
143.69	2,620	511
143.70	2,687	537
143.71	2,754	565
143.72	2,821	592
143.73	2,888	621
143.74	2,956	650
143.75	3,023	680
143.76	3,090	711
143.77	3,157	742
143.78	3,224	774
143.79	3,291	806
143.80	3,359	840
143.81	3,426	874
143.82	3,493	908
143.83	3,560	943
143.84	3,627	979
143.85	3,694	1,016
143.86	3,762	1,053
143.87	3,829	1,091
143.88	3,896	1,130
143.89	3,963	1,169
143.90	4,030	1,209
143.91	4,097	1,250
143.92	4,165	1,291
143.93	4,232	1,333
143.94	4,299	1,376
143.95	4,366	1,419
143.96	4,433	1,463
143.97	4,500	1,508
143.98	4,568	1,553
143.99	4,635	1,599
144.00	4,702	1,646
144.01	4,711	1,693
144.02	4,720	1,740
144.03	4,728	1,787
144.04	4,737	1,834
144.05	4,746	1,882
144.06	4,755	1,929
144.07	4,764	1,977
144.08	4,773	2,025
144.09	4,781	2,072
144.10	4,790	2,120
144.11	4,799	2,168
144.12	4,808	2,216
144.13	4,817	2,264
144.14	4,825	2,313
144.15	4,834	2,361
144.16	4,843	2,409
144.17	4,852	2,458
144.18	4,861	2,506
144.19	4,870	2,555
144.20	4,878	2,604
144.21	4,887	2,653
144.22	4,896	2,701
144.23	4,905	2,750
144.24	4,914	2,800
144.25	4,923	2,849
144.26	4,931	2,898
144.27	4,940	2,947
144.28	4,949	2,997
144.29	4,958	3,046
144.30	4,967	3,096
144.31	4,975	3,146
144.32	4,984	3,195
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 = 6.61" for Current 100 yr event
Inflow = 15.91 cfs @ 12.17 hrs, Volume= 1.303 af
Outflow = 11.03 cfs @ 12.27 hrs, Volume= 1.170 af, Atten= 31%, Lag= 6.1 min
Primary = 11.03 cfs @ 12.27 hrs, Volume= 1.170 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= 146.99' @ 12.27 hrs Surf.Area= 7,012 sf Storage= 20,532 cf

Plug-Flow detention time= 286.6 min calculated for 1.170 af (90% of inflow)
Center-of-Mass det. time= 234.0 min (1,016.1 - 782.1)

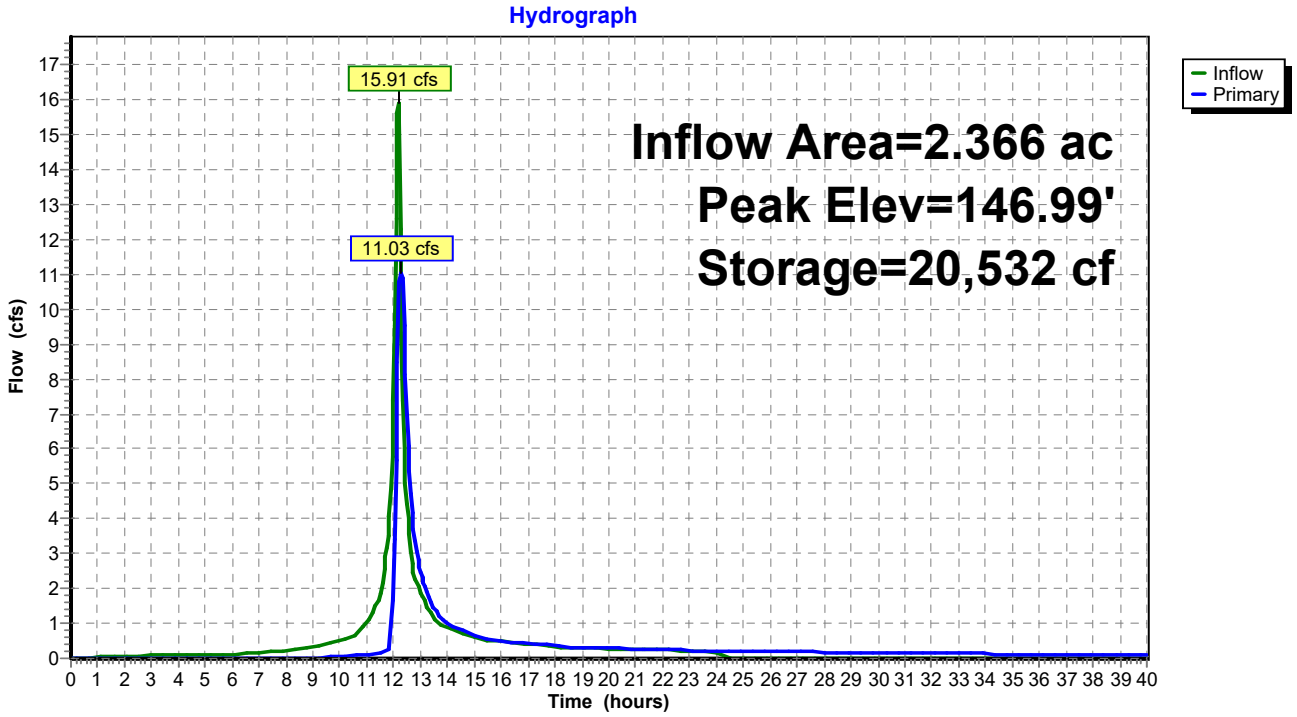
Volume	Invert	Avail.Storage	Storage Description
#1	143.30'	35,348 cf	**Custom Stage Data (Prismatic)** Listed below (Recalc)

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=11.00 cfs @ 12.27 hrs HW=146.98' (Free Discharge)
- **1=Culvert** (Barrel Controls 11.00 cfs @ 6.23 fps)
  - **2=Orifice/Grate** (Passes < 0.26 cfs potential flow)
  - **3=Sharp-Crested Rectangular Weir** (Passes < 12.05 cfs potential flow)
- **4=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)

Pond B-26: Basin #26



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)
143.30	0	0
143.31	78	0
143.32	156	2
143.33	234	4
143.34	312	6
143.35	390	10
143.36	469	14
143.37	547	19
143.38	625	25
143.39	703	32
143.40	781	39
143.41	859	47
143.42	937	56
143.43	1,015	66
143.44	1,093	77
143.45	1,171	88
143.46	1,249	100
143.47	1,327	113
143.48	1,406	126
143.49	1,484	141
143.50	1,562	156
143.51	1,640	172
143.52	1,718	189
143.53	1,796	207
143.54	1,874	225
143.55	1,952	244
143.56	2,030	264
143.57	2,108	285
143.58	2,186	306
143.59	2,264	328
143.60	2,343	351
143.61	2,421	375
143.62	2,499	400
143.63	2,577	425
143.64	2,655	451
143.65	2,733	478
143.66	2,811	506
143.67	2,889	534
143.68	2,967	564
143.69	3,045	594
143.70	3,123	625
143.71	3,202	656
143.72	3,280	689
143.73	3,358	722
143.74	3,436	756
143.75	3,514	791
143.76	3,592	826
143.77	3,670	862
143.78	3,748	900
143.79	3,826	937
143.80	3,904	976
143.81	3,982	1,016
143.82	4,060	1,056
143.83	4,139	1,097
143.84	4,217	1,138
143.85	4,295	1,181
143.86	4,373	1,224
143.87	4,451	1,269
143.88	4,529	1,313
143.89	4,607	1,359
143.90	4,685	1,406
143.91	4,763	1,453
143.92	4,841	1,501
143.93	4,919	1,550
143.94	4,997	1,599
143.95	5,076	1,650
143.96	5,154	1,701
143.97	5,232	1,753
143.98	5,310	1,805
143.99	5,388	1,859
144.00	5,466	1,913
144.01	5,471	1,968
144.02	5,476	2,023
144.03	5,481	2,077
144.04	5,486	2,132
144.05	5,491	2,187
144.06	5,496	2,242
144.07	5,501	2,297
144.08	5,506	2,352
144.09	5,511	2,407
144.10	5,516	2,462
144.11	5,521	2,517
144.12	5,526	2,573
144.13	5,531	2,628
144.14	5,536	2,683
144.15	5,541	2,739
144.16	5,546	2,794
144.17	5,551	2,850
144.18	5,556	2,905
144.19	5,561	2,961
144.20	5,566	3,016
144.21	5,571	3,072
144.22	5,576	3,128
144.23	5,581	3,184
144.24	5,586	3,239
144.25	5,591	3,295
144.26	5,596	3,351
144.27	5,601	3,407
144.28	5,606	3,463
144.29	5,611	3,519
144.30	5,616	3,575
144.31	5,621	3,632
144.32	5,626	3,688
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 = 7.58" for Current 100 yr event
Inflow = 14.53 cfs @ 12.17 hrs, Volume= 1.222 af
Outflow = 13.24 cfs @ 12.22 hrs, Volume= 1.114 af, Atten= 9%, Lag= 2.9 min
Primary = 13.24 cfs @ 12.22 hrs, Volume= 1.114 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= 172.77' @ 12.22 hrs Surf.Area= 3,990 sf Storage= 12,338 cf

Plug-Flow detention time= 113.2 min calculated for 1.114 af (91% of inflow)
Center-of-Mass det. time= 66.2 min (833.7 - 767.5)

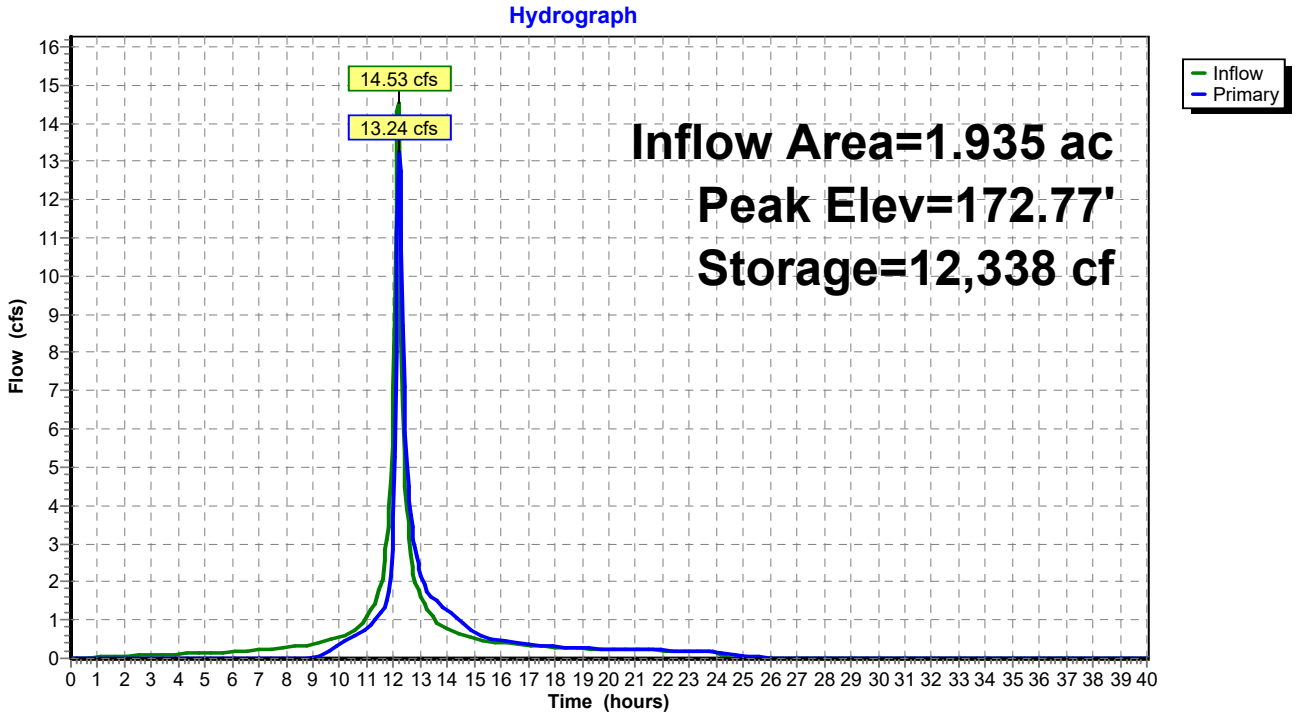
Volume	Invert	Avail.Storage	Storage Description
#1	167.35'	13,052 cf	**Custom Stage Data (Prismatic)** Listed below (Recalc)

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=12.97 cfs @ 12.22 hrs HW=172.76' (Free Discharge)
- **1=Culvert** (Passes 12.97 cfs of 30.67 cfs potential flow)
  - **2=Orifice/Grate** (Orifice Controls 2.35 cfs @ 6.74 fps)
  - **3=Sharp-Crested Rectangular Weir** (Weir Controls 5.97 cfs @ 3.29 fps)
  - **4=Sharp-Crested Rectangular Weir** (Weir Controls 4.65 cfs @ 2.34 fps)
- **5=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)

Pond B-27: Basin #27



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 = 6.46" for Current 100 yr event
Inflow = 15.47 cfs @ 12.17 hrs, Volume= 1.257 af
Outflow = 11.09 cfs @ 12.27 hrs, Volume= 1.177 af, Atten= 28%, Lag= 5.8 min
Primary = 11.09 cfs @ 12.27 hrs, Volume= 1.177 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= 169.69' @ 12.27 hrs Surf.Area= 3,765 sf Storage= 9,036 cf

Plug-Flow detention time= 73.7 min calculated for 1.177 af (94% of inflow)
Center-of-Mass det. time= 37.5 min (823.6 - 786.2)

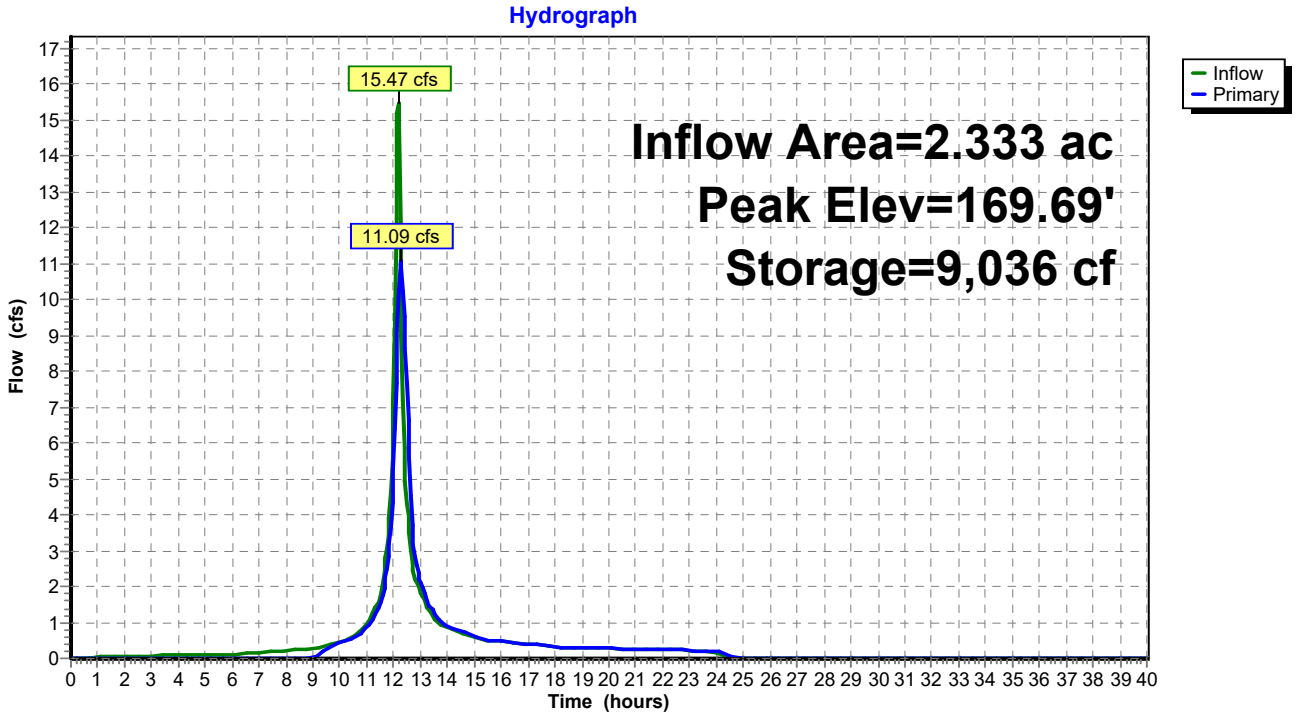
Volume	Invert	Avail.Storage	Storage Description
#1	165.65'	12,318 cf	**Custom Stage Data (Prismatic)** Listed below (Recalc)

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=10.99 cfs @ 12.27 hrs HW=169.67' (Free Discharge)
- **1=Culvert** (Passes 10.99 cfs of 13.55 cfs potential flow)
  - **2=Orifice/Grate** (Orifice Controls 10.76 cfs @ 5.74 fps)
  - **3=Sharp-Crested Rectangular Weir** (Weir Controls 0.23 cfs @ 1.37 fps)
  - **4=Sharp-Crested Rectangular Weir** (Controls 0.00 cfs)
- **5=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)

Pond B-28: Basin #28



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)
169.81	11.80
169.82	11.86
169.83	11.92
169.84	11.98
169.85	12.04
169.86	12.10
169.87	12.16
169.88	12.23
169.89	12.29
169.90	12.35
169.91	12.41
169.92	12.47
169.93	12.54
169.94	12.60
169.95	12.66
169.96	12.73
169.97	12.79
169.98	12.85
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
170.33	14.51
170.34	14.52
170.35	14.54
170.36	14.55
170.37	14.56
170.38	14.58
170.39	14.59
170.40	14.61
170.41	14.62
170.42	14.63
170.43	14.65
170.44	14.66
170.45	14.68
170.46	14.69
170.47	14.70
170.48	14.72
170.49	14.73
170.50	**14.86**

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)

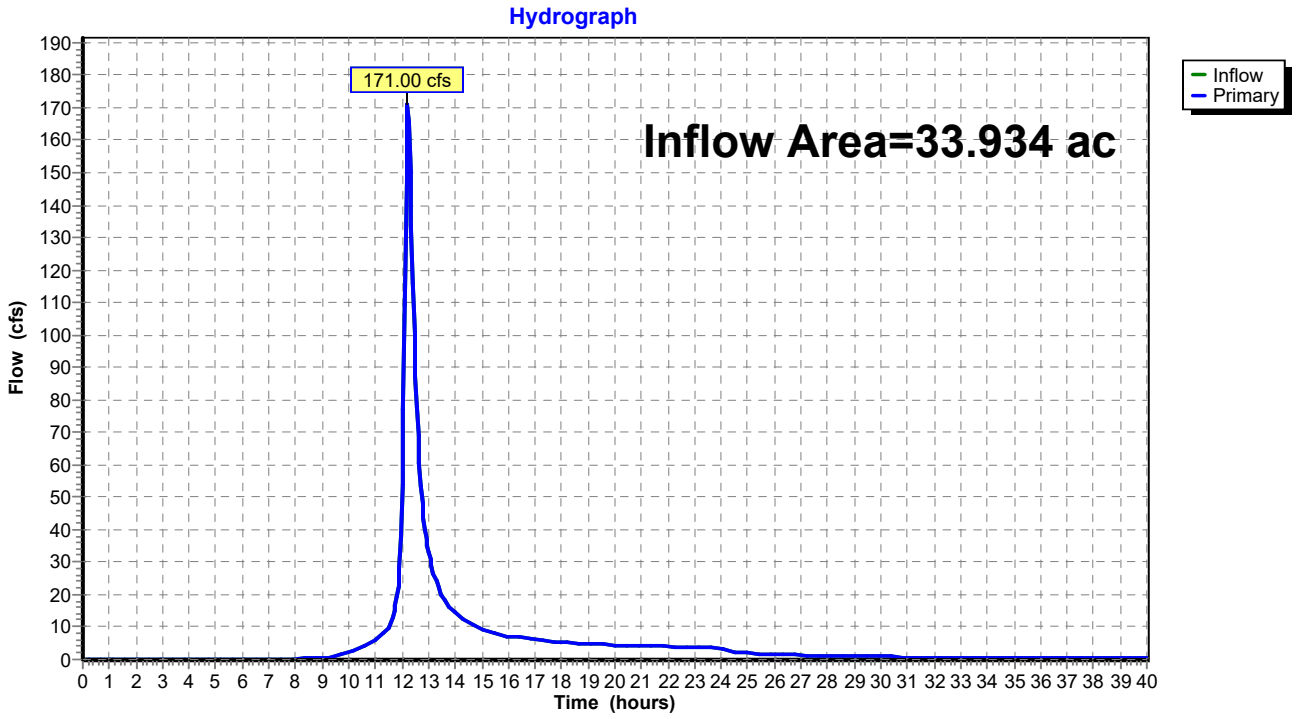
Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
169.81	3,860	9,484
169.82	3,868	9,523
169.83	3,876	9,561
169.84	3,884	9,600
169.85	3,892	9,639
169.86	3,900	9,678
169.87	3,908	9,717
169.88	3,916	9,756
169.89	3,924	9,795
169.90	3,932	9,835
169.91	3,940	9,874
169.92	3,948	9,913
169.93	3,956	9,953
169.94	3,964	9,993
169.95	3,972	10,032
169.96	3,980	10,072
169.97	3,988	10,112
169.98	3,996	10,152
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
170.33	4,225	11,591
170.34	4,231	11,633
170.35	4,237	11,676
170.36	4,244	11,718
170.37	4,250	11,760
170.38	4,257	11,803
170.39	4,263	11,846
170.40	4,270	11,888
170.41	4,276	11,931
170.42	4,282	11,974
170.43	4,289	12,017
170.44	4,295	12,059
170.45	4,302	12,102
170.46	4,308	12,146
170.47	4,315	12,189
170.48	4,321	12,232
170.49	4,328	12,275
170.50	**4,334**	**12,318**

Summary for Link PDA-2: Proposed Drainage Area #2

Inflow Area = 33.934 ac, 26.90% Impervious, Inflow Depth > 5.89" for Current 100 yr event
Inflow = 171.00 cfs @ 12.22 hrs, Volume= 16.649 af
Primary = 171.00 cfs @ 12.22 hrs, Volume= 16.649 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)

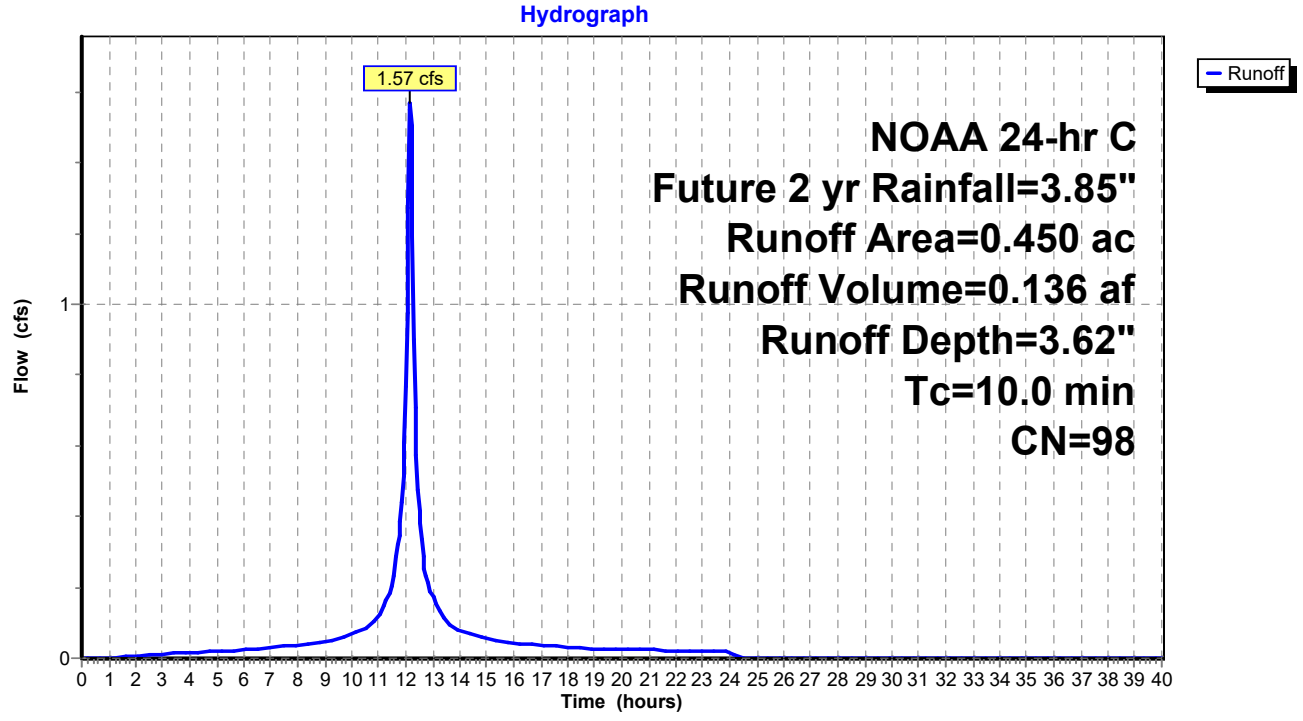
Runoff = 1.57 cfs @ 12.17 hrs, Volume= 0.136 af, Depth= 3.62"
Routed to Pond B-18 : Basin #18

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 Future 2 yr Rainfall=3.85"

	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)



Summary for Subcatchment 18P: PDA-18 (pervious)

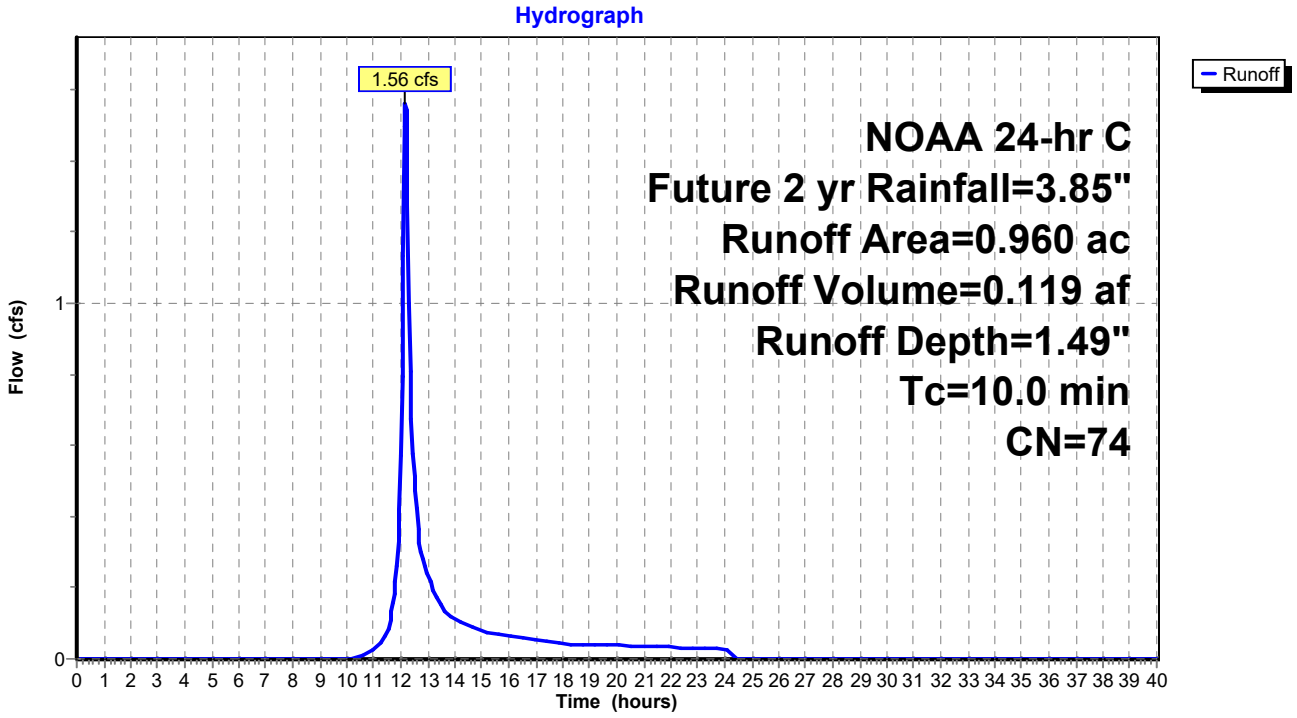
Runoff = 1.56 cfs @ 12.18 hrs, Volume= 0.119 af, Depth= 1.49"
Routed to Pond B-18 : Basin #18

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 Future 2 yr Rainfall=3.85"

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)



Summary for Subcatchment 19l: PDA-19 (impervious)

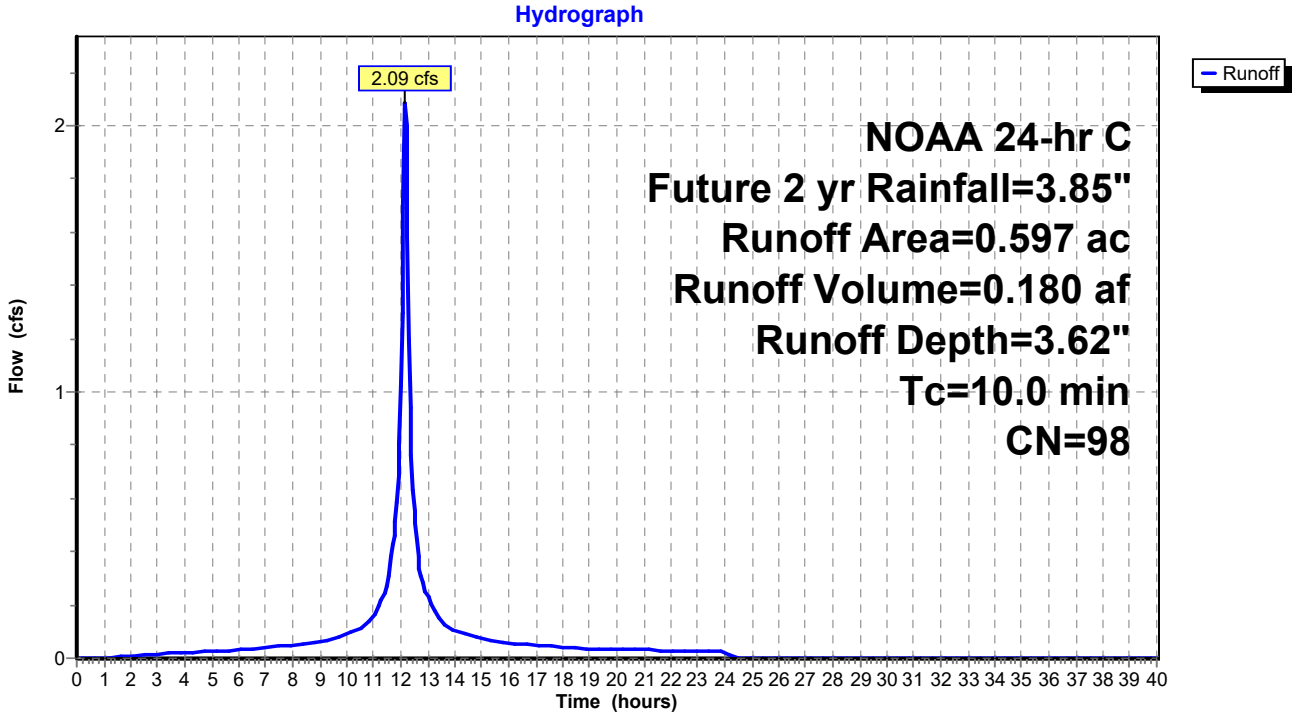
Runoff = 2.09 cfs @ 12.17 hrs, Volume= 0.180 af, Depth= 3.62"
Routed to Pond B-19 : Basin #19

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 Future 2 yr Rainfall=3.85"

	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 19l: PDA-19 (impervious)



Summary for Subcatchment 19P: PDA-19 (pervious)

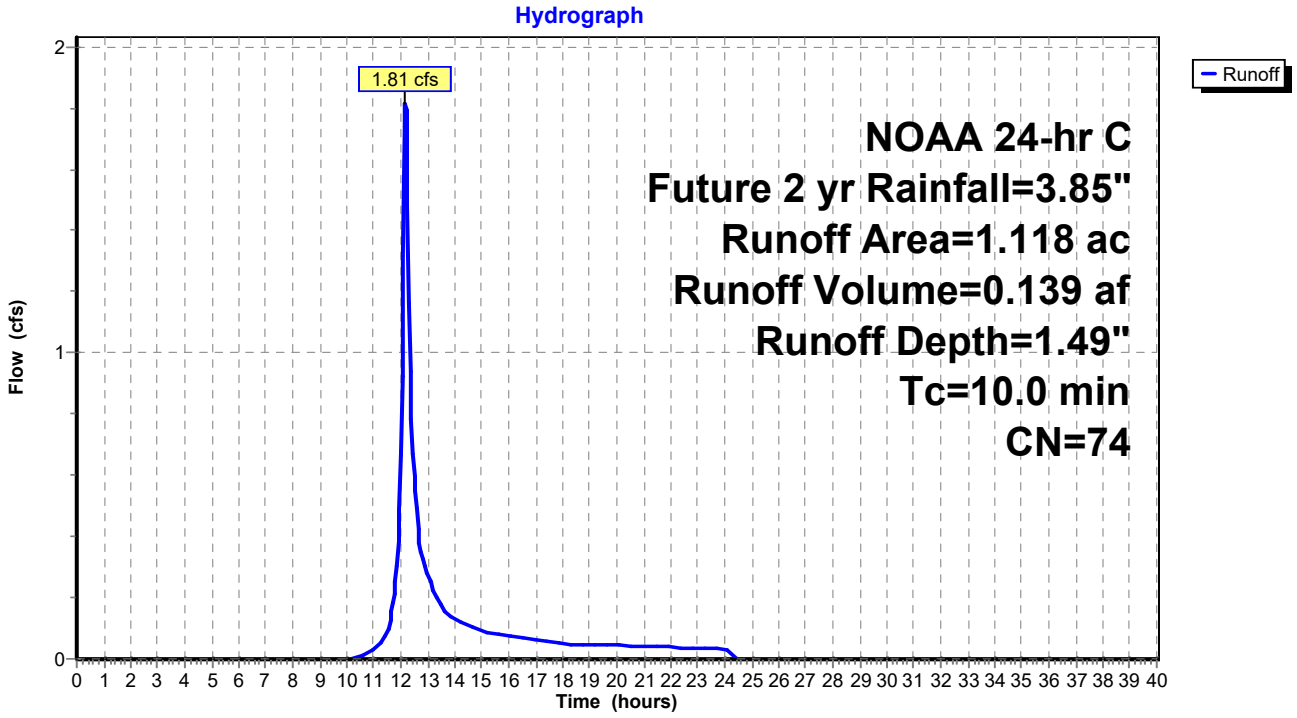
Runoff = 1.81 cfs @ 12.18 hrs, Volume= 0.139 af, Depth= 1.49"
Routed to Pond B-19 : Basin #19

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 Future 2 yr Rainfall=3.85"

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)



Summary for Subcatchment 20l: PDA-20 (impervious)

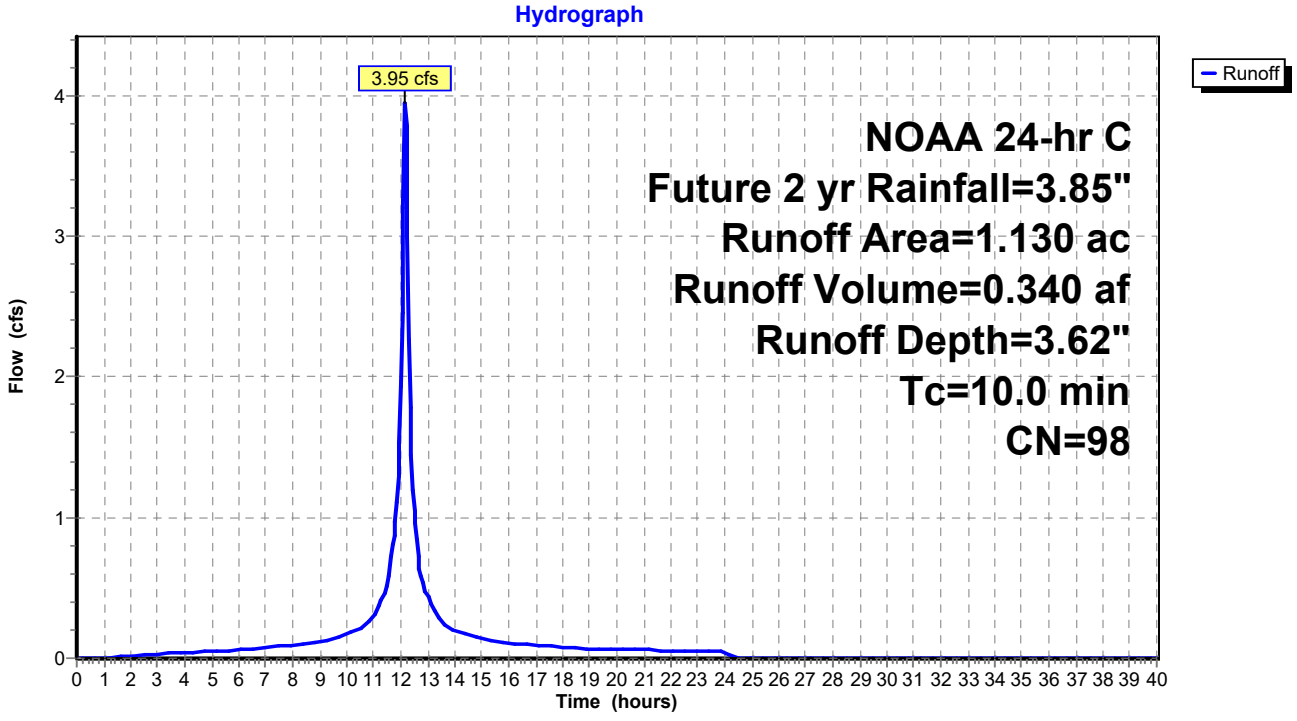
Runoff = 3.95 cfs @ 12.17 hrs, Volume= 0.340 af, Depth= 3.62"
Routed to Pond B-20 : Basin #20

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 Future 2 yr Rainfall=3.85"

	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 20l: PDA-20 (impervious)



Summary for Subcatchment 20P: PDA-20 (pervious)

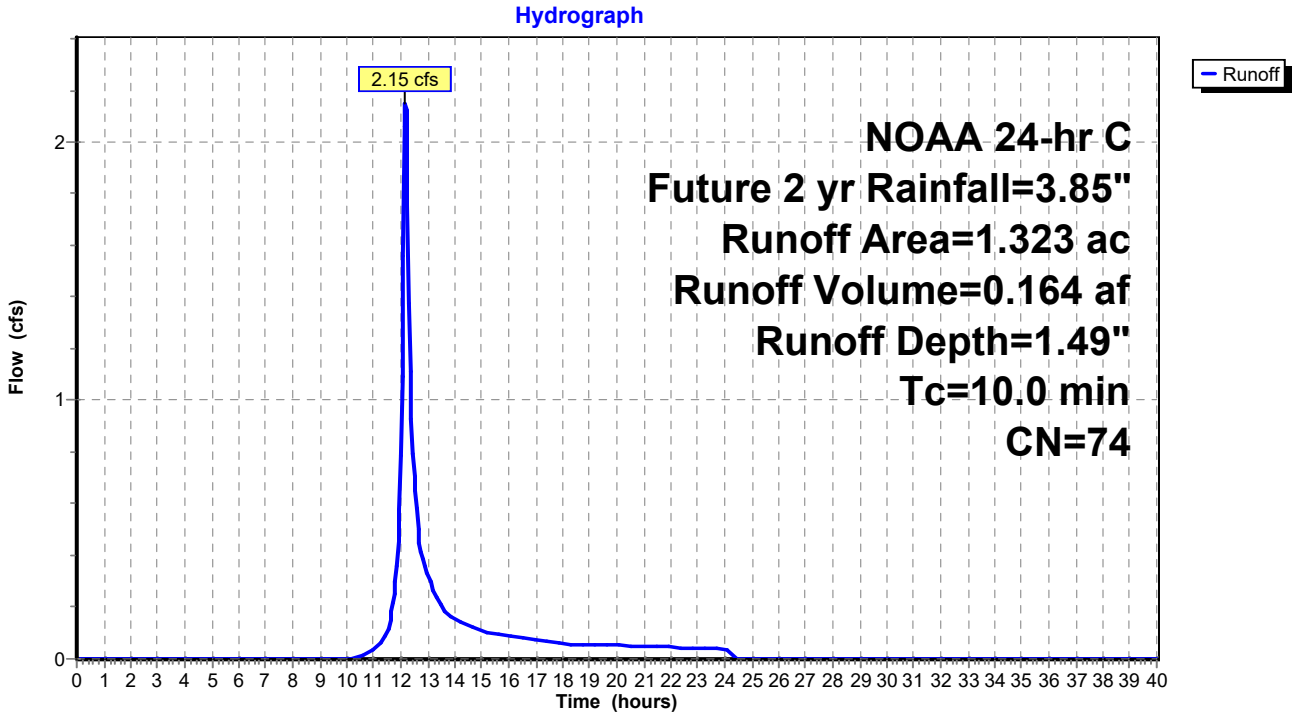
Runoff = 2.15 cfs @ 12.18 hrs, Volume= 0.164 af, Depth= 1.49"
Routed to Pond B-20 : Basin #20

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 Future 2 yr Rainfall=3.85"

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)



Summary for Subcatchment 21I: PDA-21 (impervious)

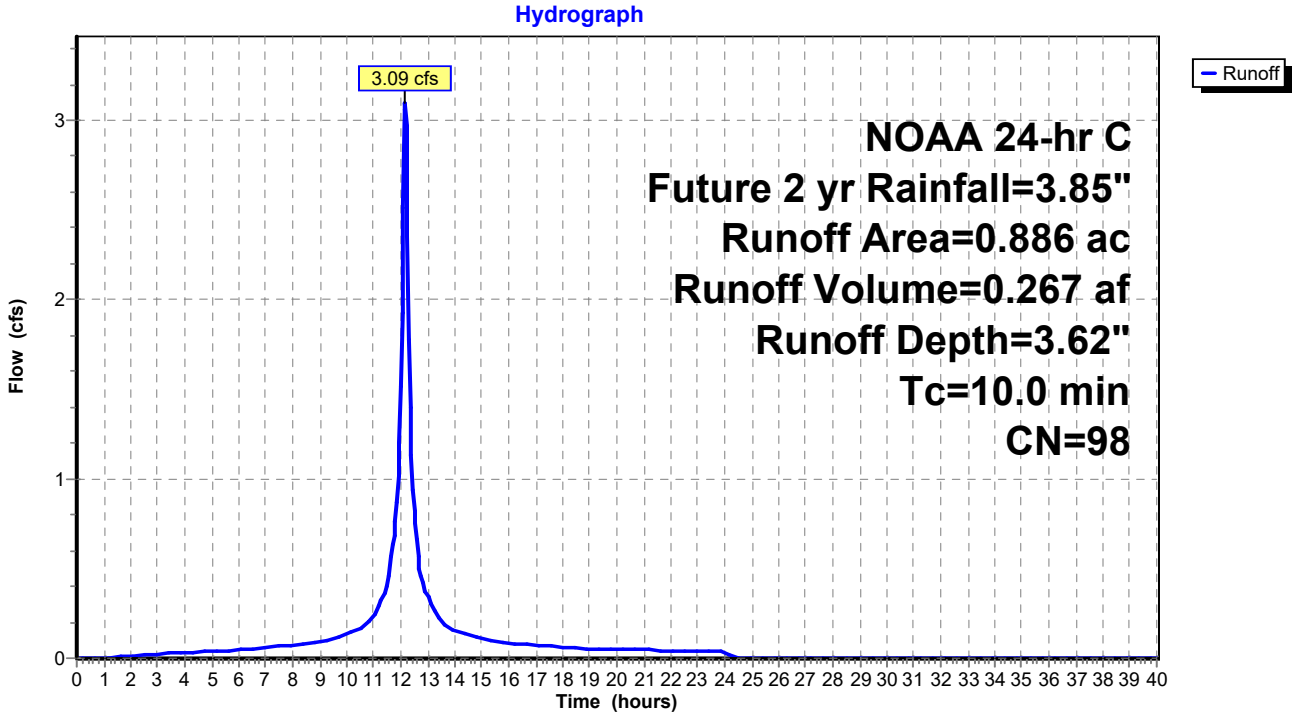
Runoff = 3.09 cfs @ 12.17 hrs, Volume= 0.267 af, Depth= 3.62"
Routed to Pond B-21 : Basin #21

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 Future 2 yr Rainfall=3.85"

	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)

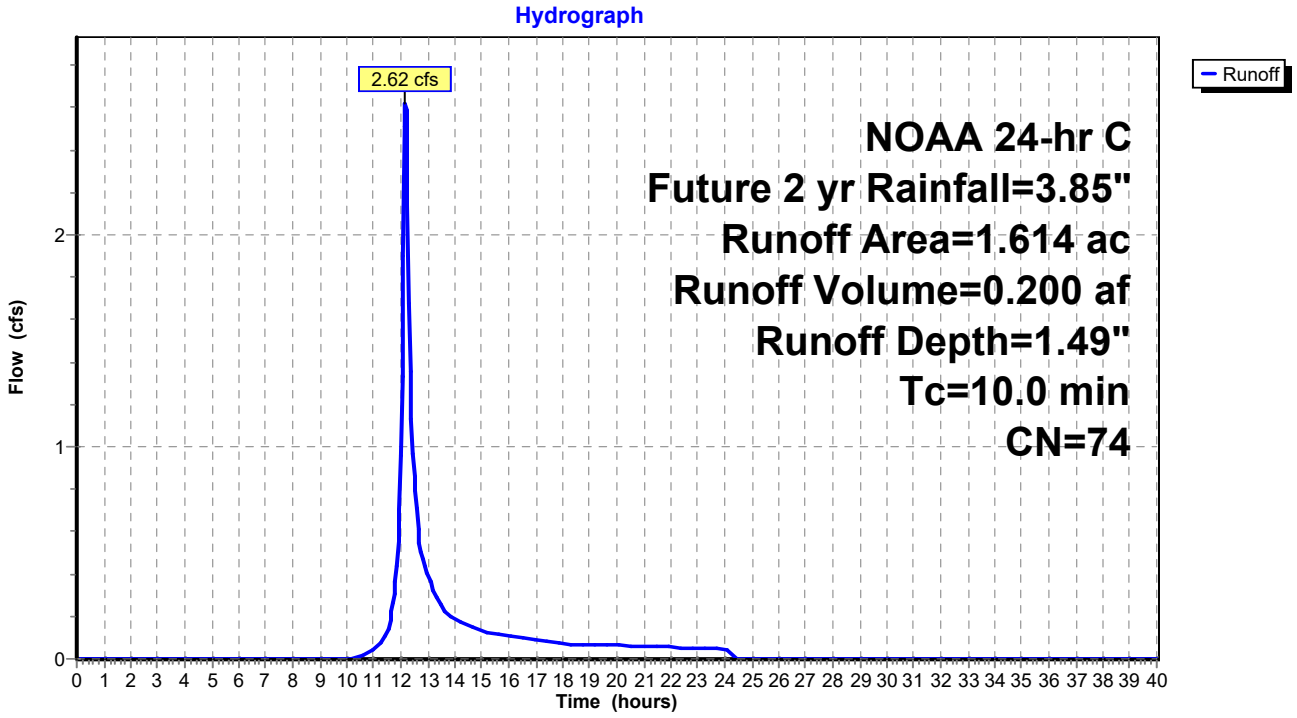
Runoff = 2.62 cfs @ 12.18 hrs, Volume= 0.200 af, Depth= 1.49"
Routed to Pond B-21 : Basin #21

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 Future 2 yr Rainfall=3.85"

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)



Summary for Subcatchment 22l: PDA-22 (impervious)

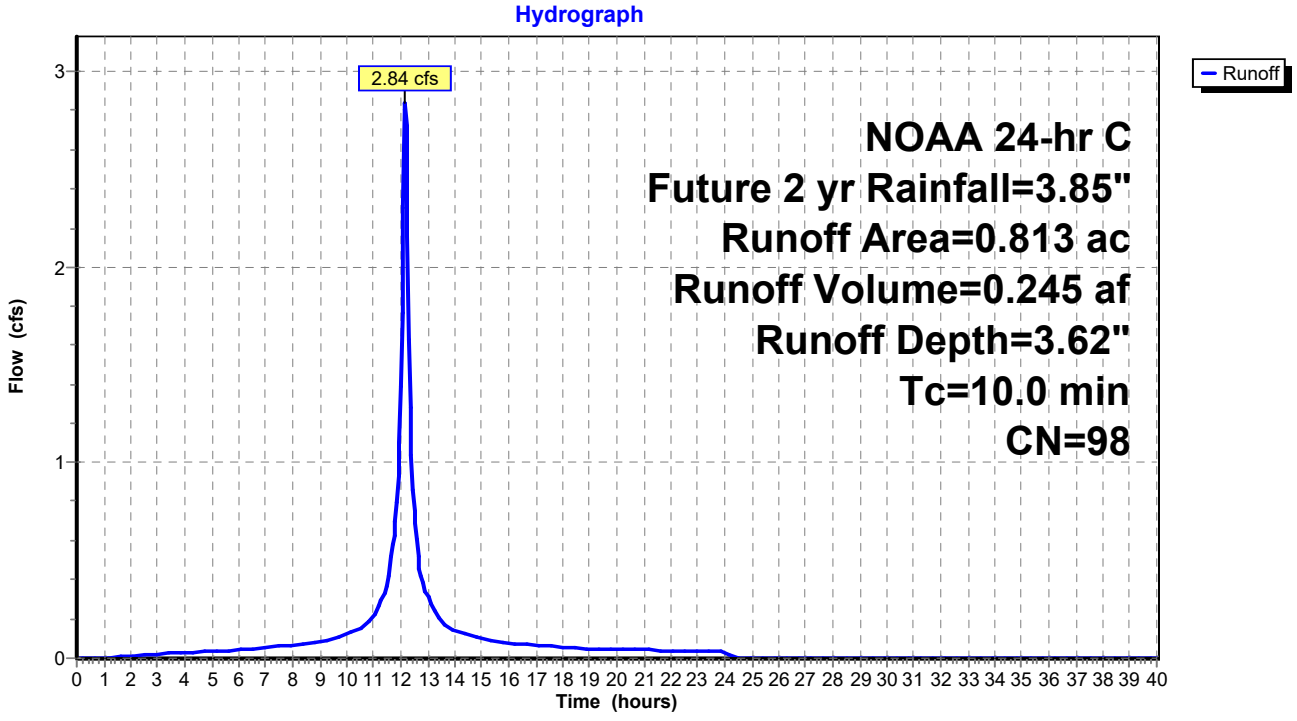
Runoff = 2.84 cfs @ 12.17 hrs, Volume= 0.245 af, Depth= 3.62"
Routed to Pond B-22 : Basin #22

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 Future 2 yr Rainfall=3.85"

	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 22l: PDA-22 (impervious)



Summary for Subcatchment 22P: PDA-22 (pervious)

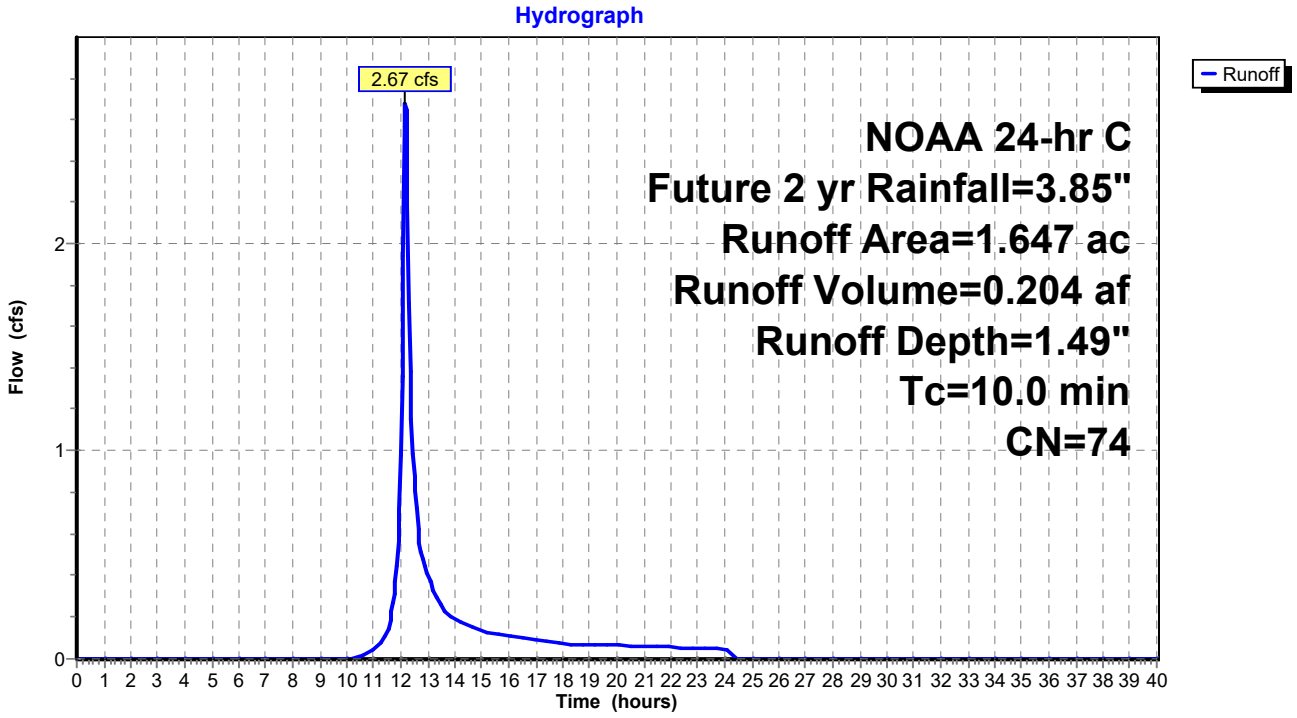
Runoff = 2.67 cfs @ 12.18 hrs, Volume= 0.204 af, Depth= 1.49"
Routed to Pond B-22 : Basin #22

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 Future 2 yr Rainfall=3.85"

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)



Summary for Subcatchment 23I: PDA-23 (impervious)

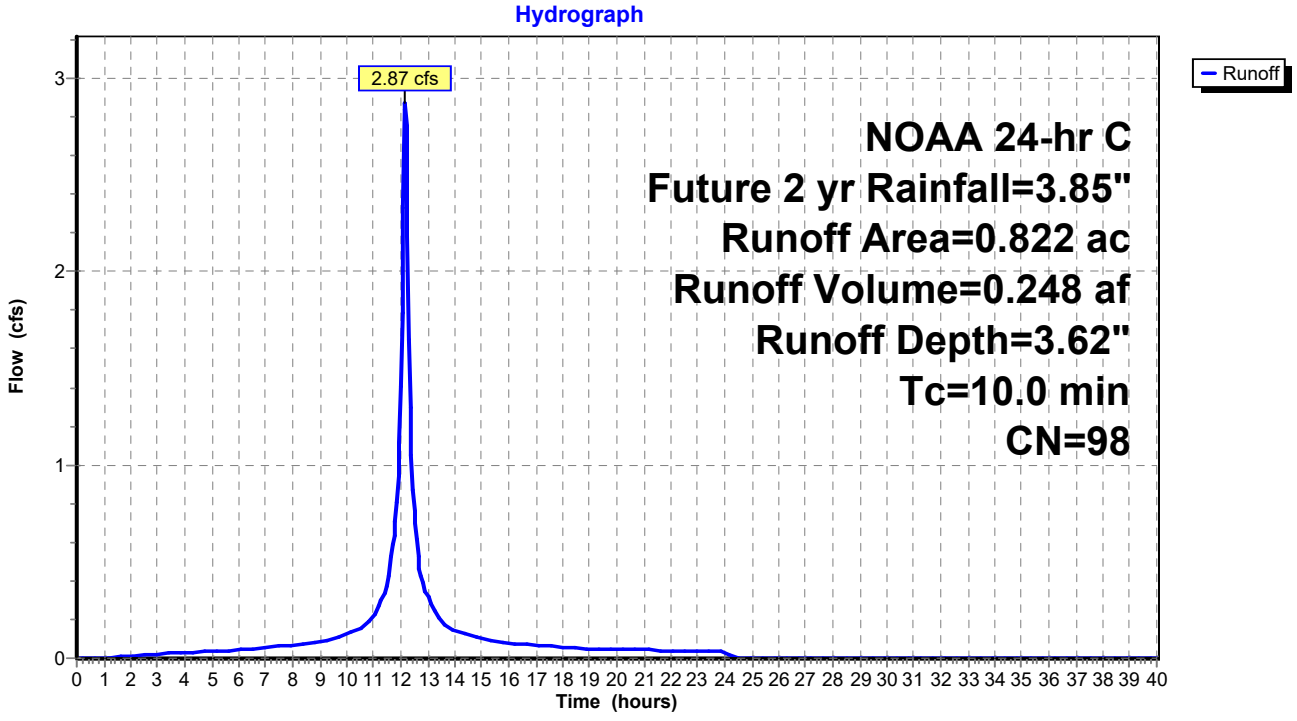
Runoff = 2.87 cfs @ 12.17 hrs, Volume= 0.248 af, Depth= 3.62"
Routed to Pond B-23 : Basin #23

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 Future 2 yr Rainfall=3.85"

	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)



Summary for Subcatchment 23P: PDA-23 (pervious)

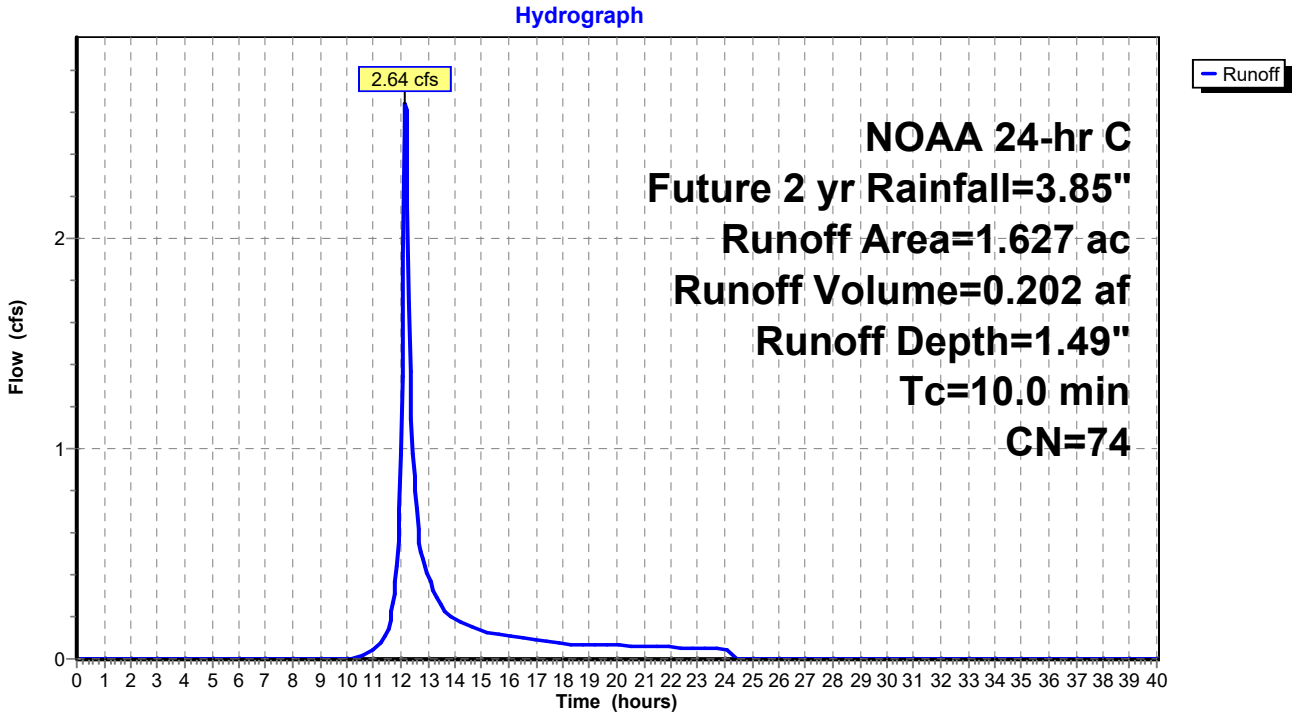
Runoff = 2.64 cfs @ 12.18 hrs, Volume= 0.202 af, Depth= 1.49"
Routed to Pond B-23 : Basin #23

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 Future 2 yr Rainfall=3.85"

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)



Summary for Subcatchment 24l: PDA-24 (impervious)

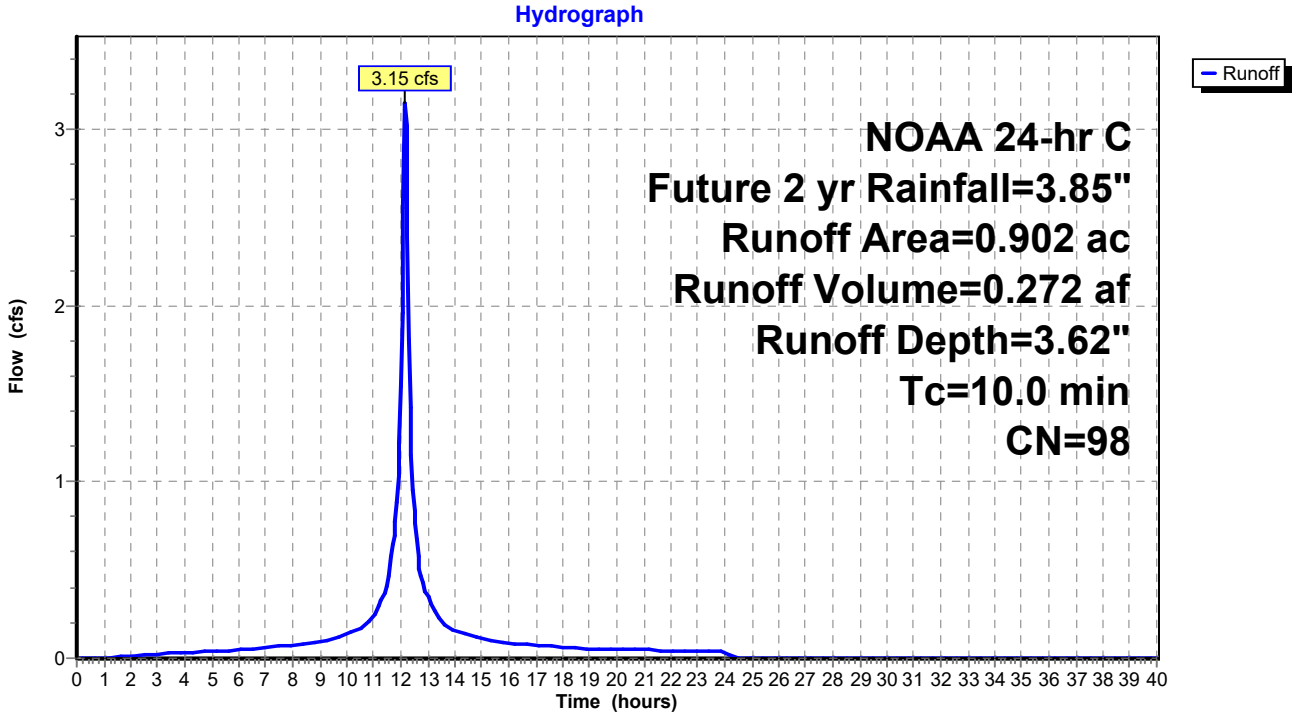
Runoff = 3.15 cfs @ 12.17 hrs, Volume= 0.272 af, Depth= 3.62"
Routed to Pond B-24 : Basin #24

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 Future 2 yr Rainfall=3.85"

	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 24l: PDA-24 (impervious)



Summary for Subcatchment 24P: PDA-24 (pervious)

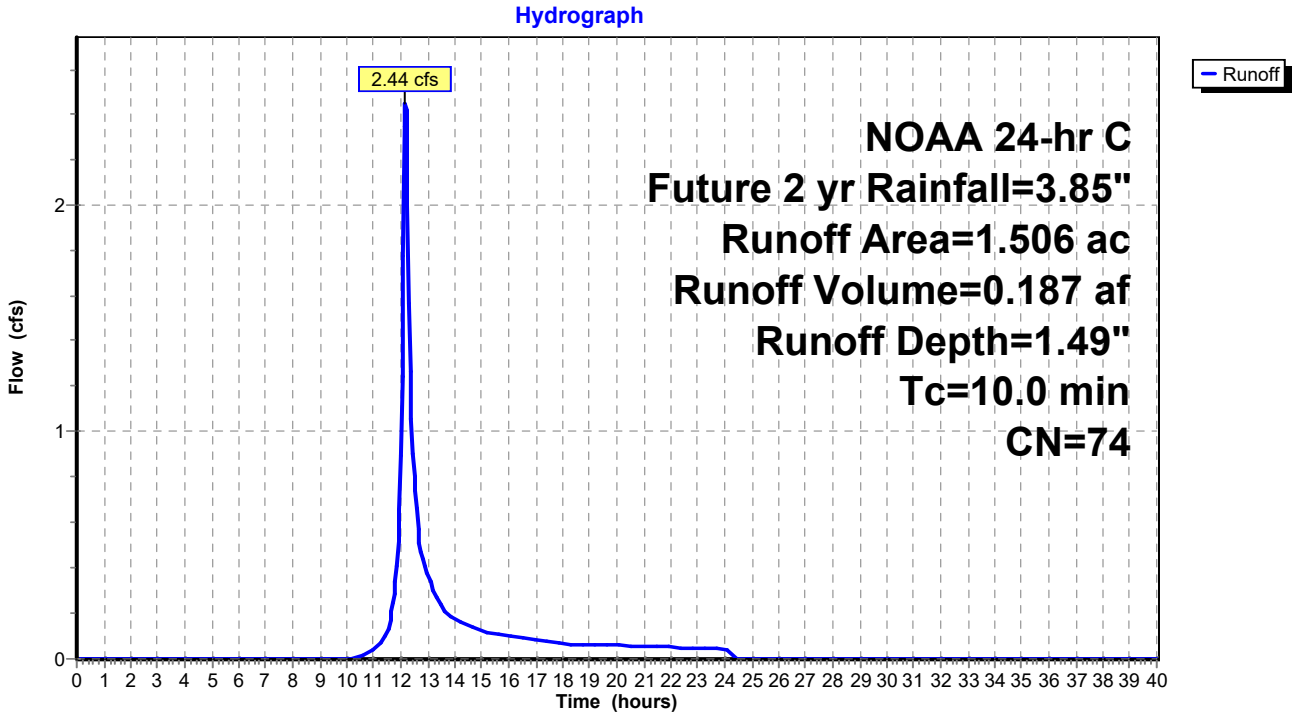
Runoff = 2.44 cfs @ 12.18 hrs, Volume= 0.187 af, Depth= 1.49"
Routed to Pond B-24 : Basin #24

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 Future 2 yr Rainfall=3.85"

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)



Summary for Subcatchment 25l: PDA-25 (impervious)

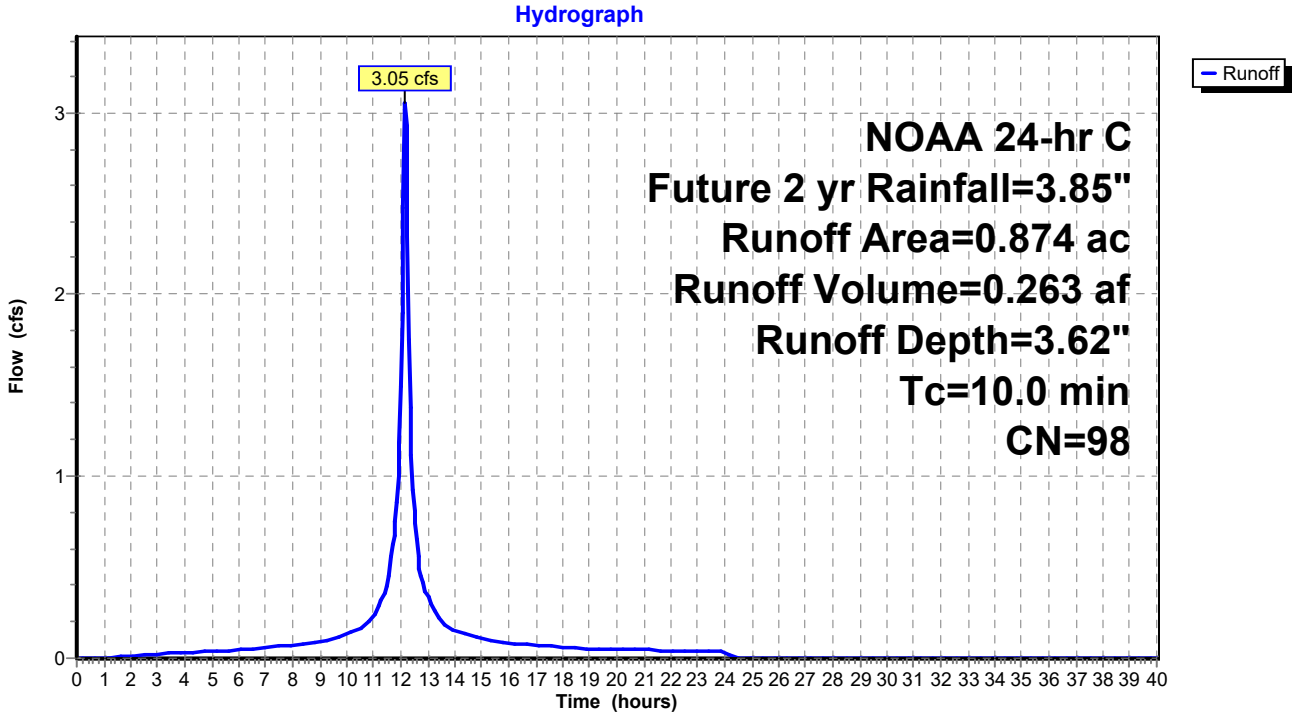
Runoff = 3.05 cfs @ 12.17 hrs, Volume= 0.263 af, Depth= 3.62"
Routed to Pond B-25 : Basin #25

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 Future 2 yr Rainfall=3.85"

	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 25l: PDA-25 (impervious)



Summary for Subcatchment 25P: PDA-25 (pervious)

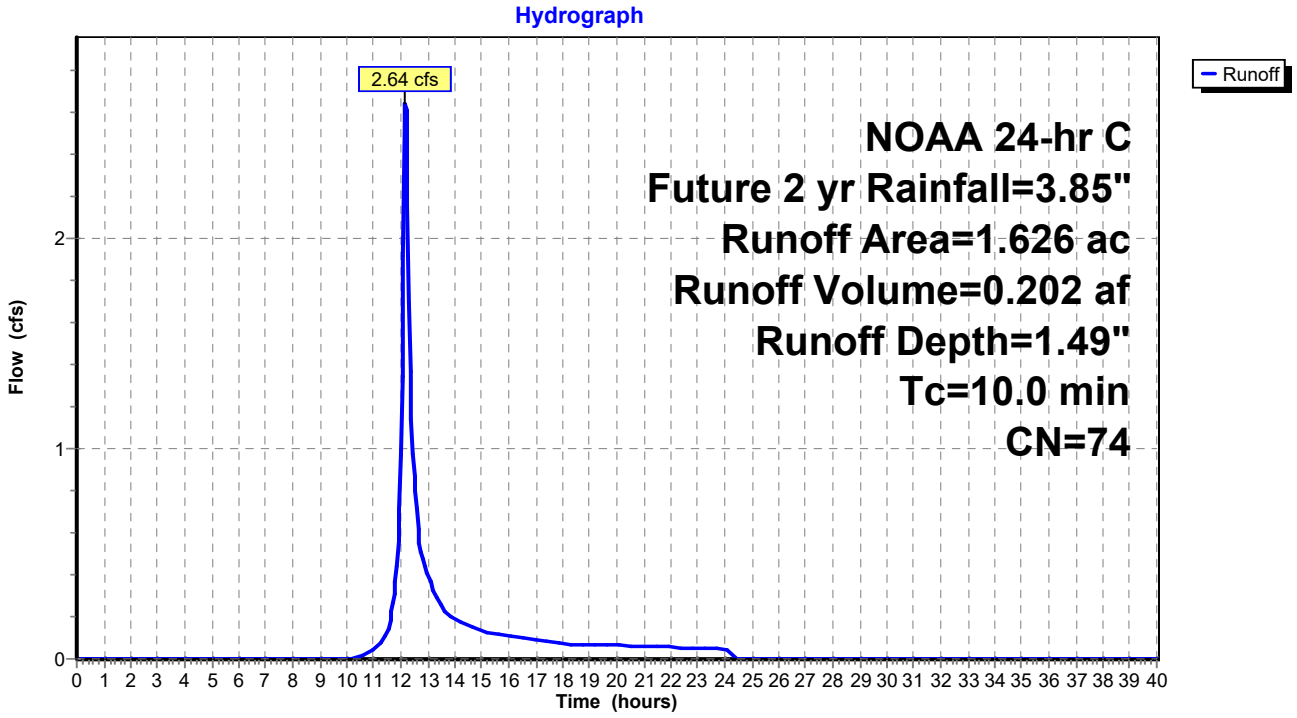
Runoff = 2.64 cfs @ 12.18 hrs, Volume= 0.202 af, Depth= 1.49"
Routed to Pond B-25 : Basin #25

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 Future 2 yr Rainfall=3.85"

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)



Summary for Subcatchment 26l: PDA-26 (impervious)

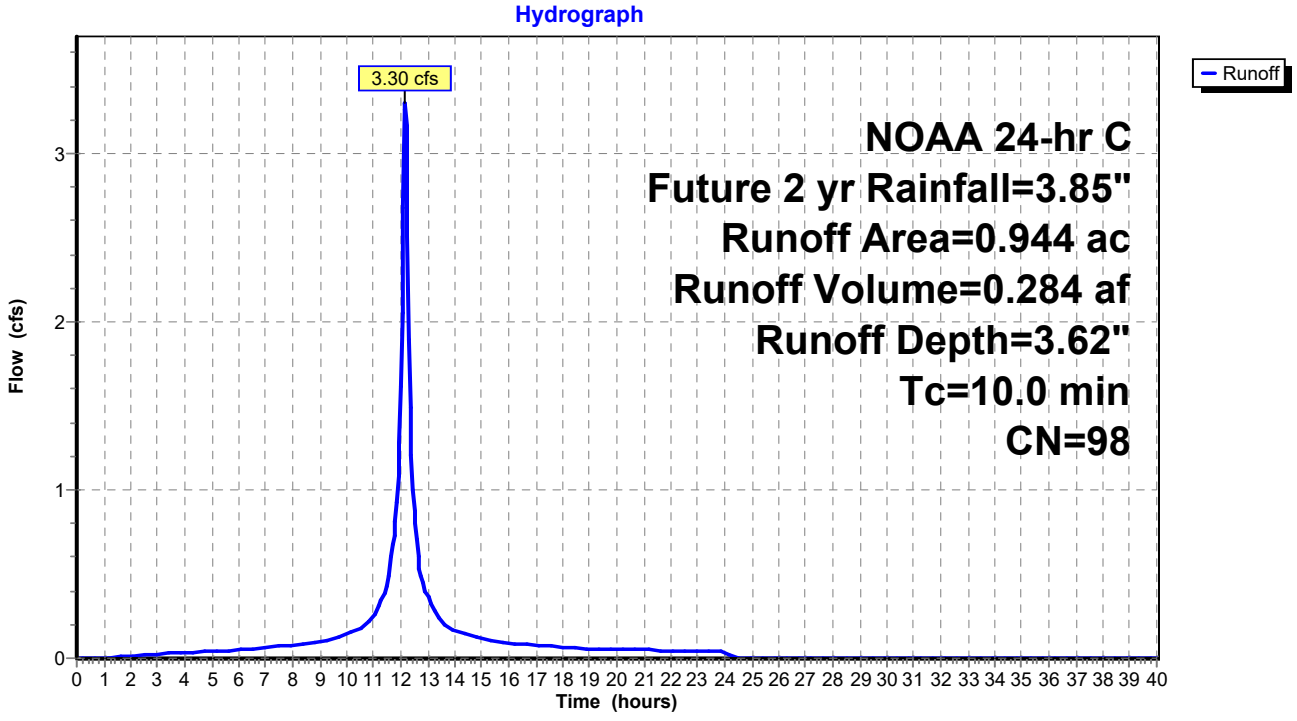
Runoff = 3.30 cfs @ 12.17 hrs, Volume= 0.284 af, Depth= 3.62"
Routed to Pond B-26 : Basin #26

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 Future 2 yr Rainfall=3.85"

	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 26l: PDA-26 (impervious)



Summary for Subcatchment 26P: PDA-26 (pervious)

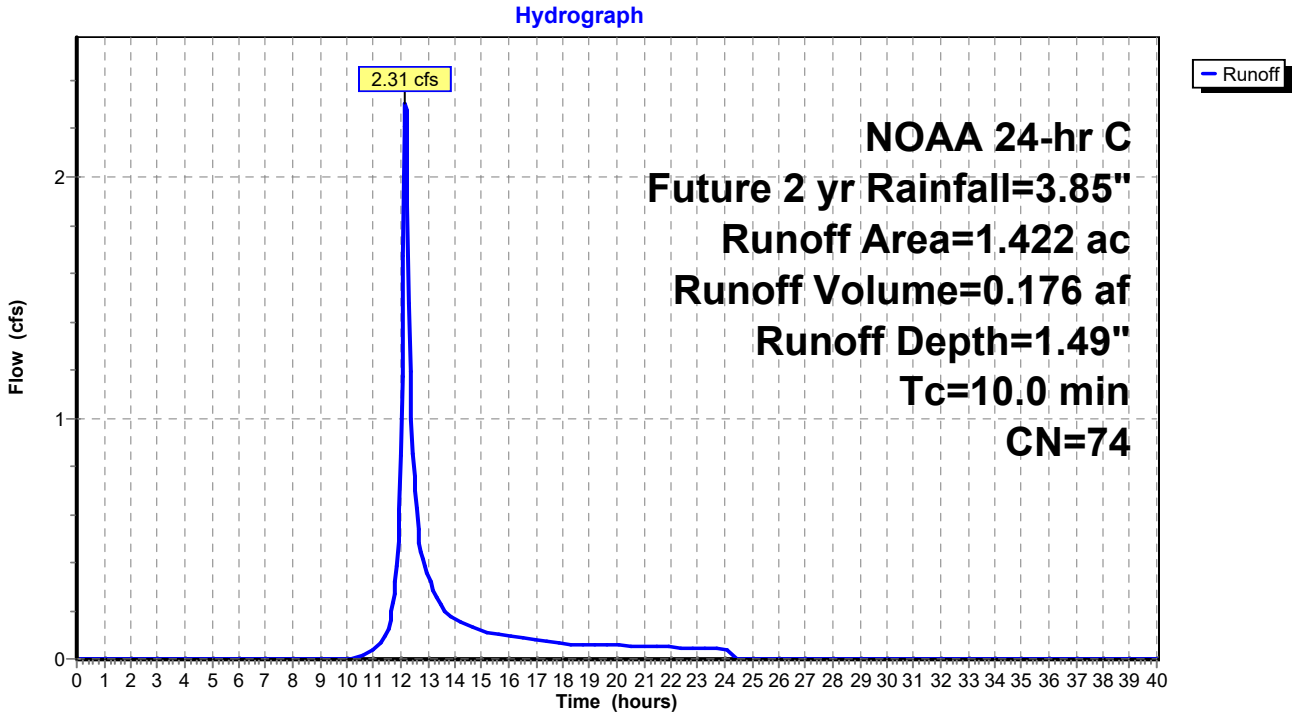
Runoff = 2.31 cfs @ 12.18 hrs, Volume= 0.176 af, Depth= 1.49"
Routed to Pond B-26 : Basin #26

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 Future 2 yr Rainfall=3.85"

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)



Summary for Subcatchment 27I: PDA-27 (impervious)

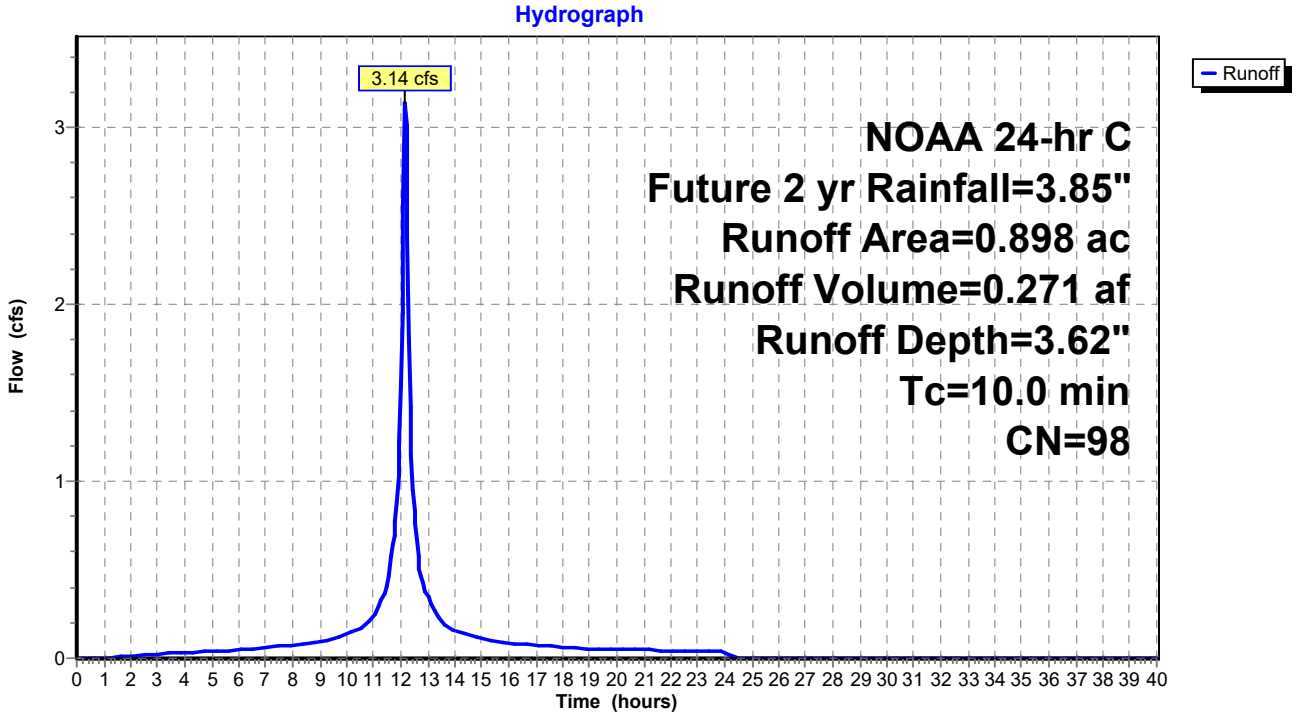
Runoff = 3.14 cfs @ 12.17 hrs, Volume= 0.271 af, Depth= 3.62"
Routed to Pond B-27 : Basin #27

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 Future 2 yr Rainfall=3.85"

	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)



Summary for Subcatchment 27P: PDA-27 (pervious)

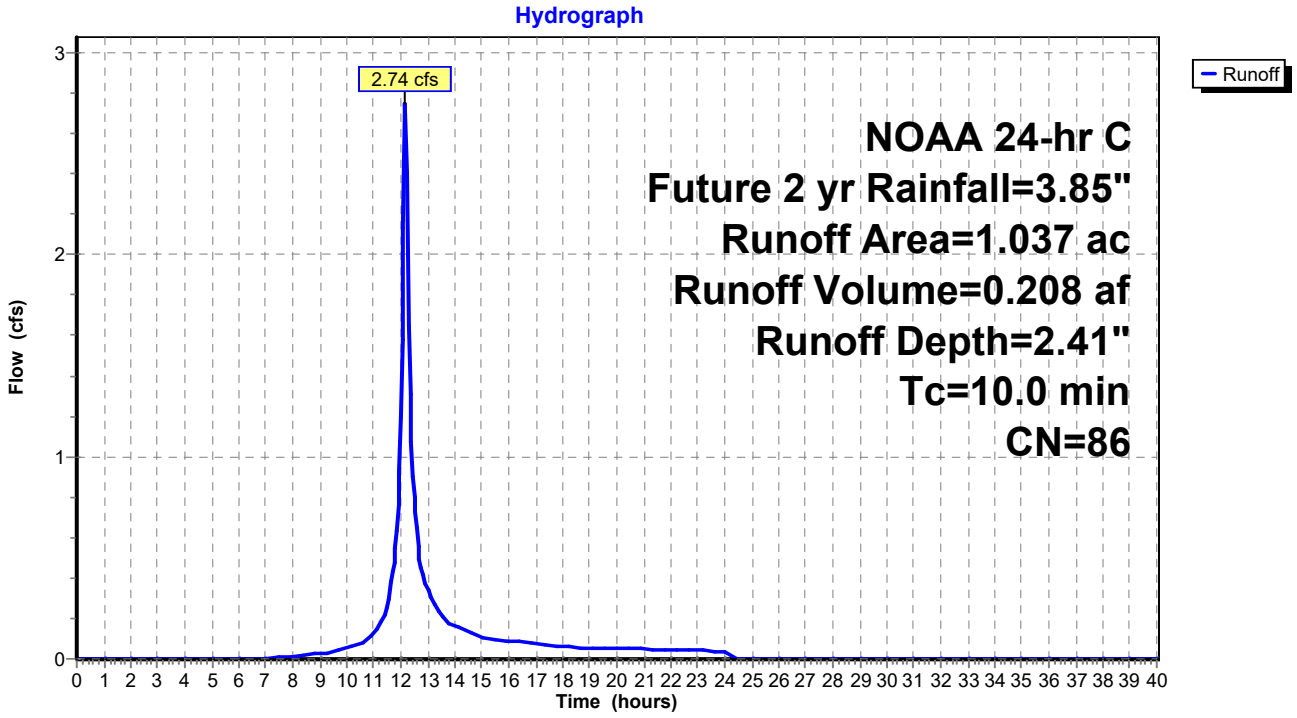
Runoff = 2.74 cfs @ 12.17 hrs, Volume= 0.208 af, Depth= 2.41"
Routed to Pond B-27 : Basin #27

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 Future 2 yr Rainfall=3.85"

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)



Summary for Subcatchment 28I: PDA-28 (impervious)

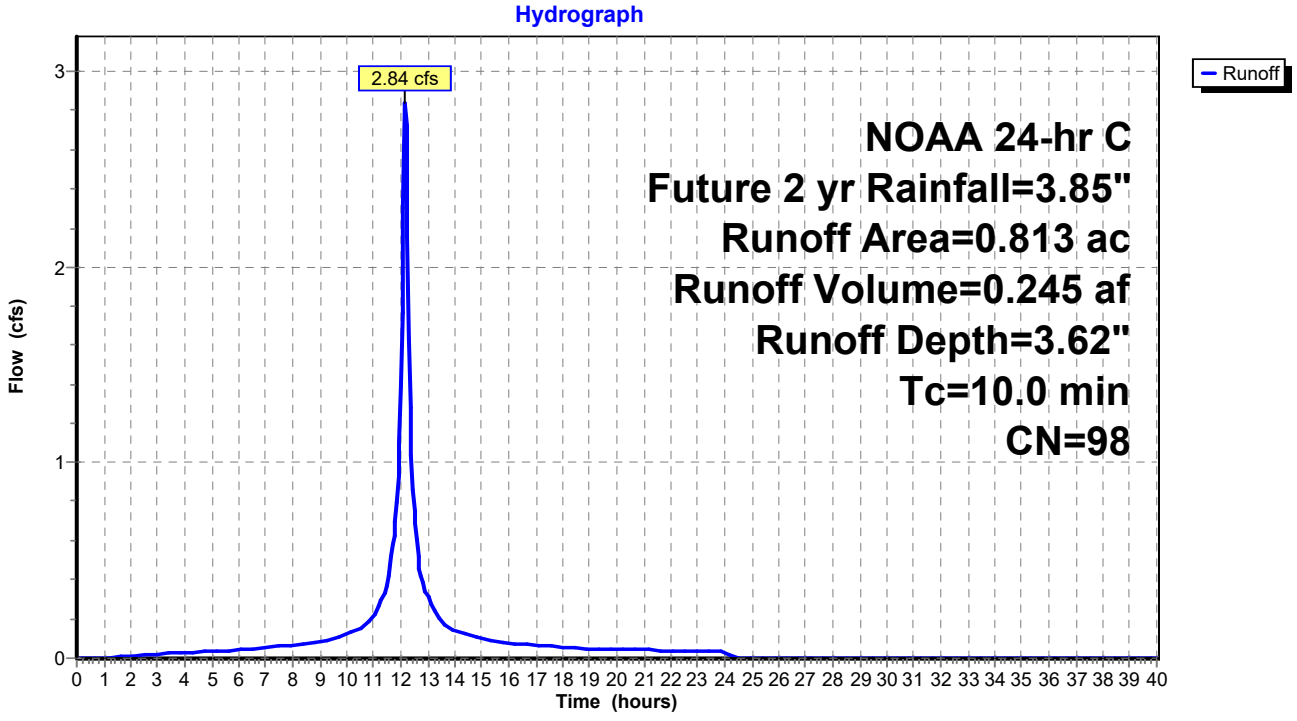
Runoff = 2.84 cfs @ 12.17 hrs, Volume= 0.245 af, Depth= 3.62"
Routed to Pond B-28 : Basin #28

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 Future 2 yr Rainfall=3.85"

	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)



Summary for Subcatchment 28P: PDA-28 (pervious)

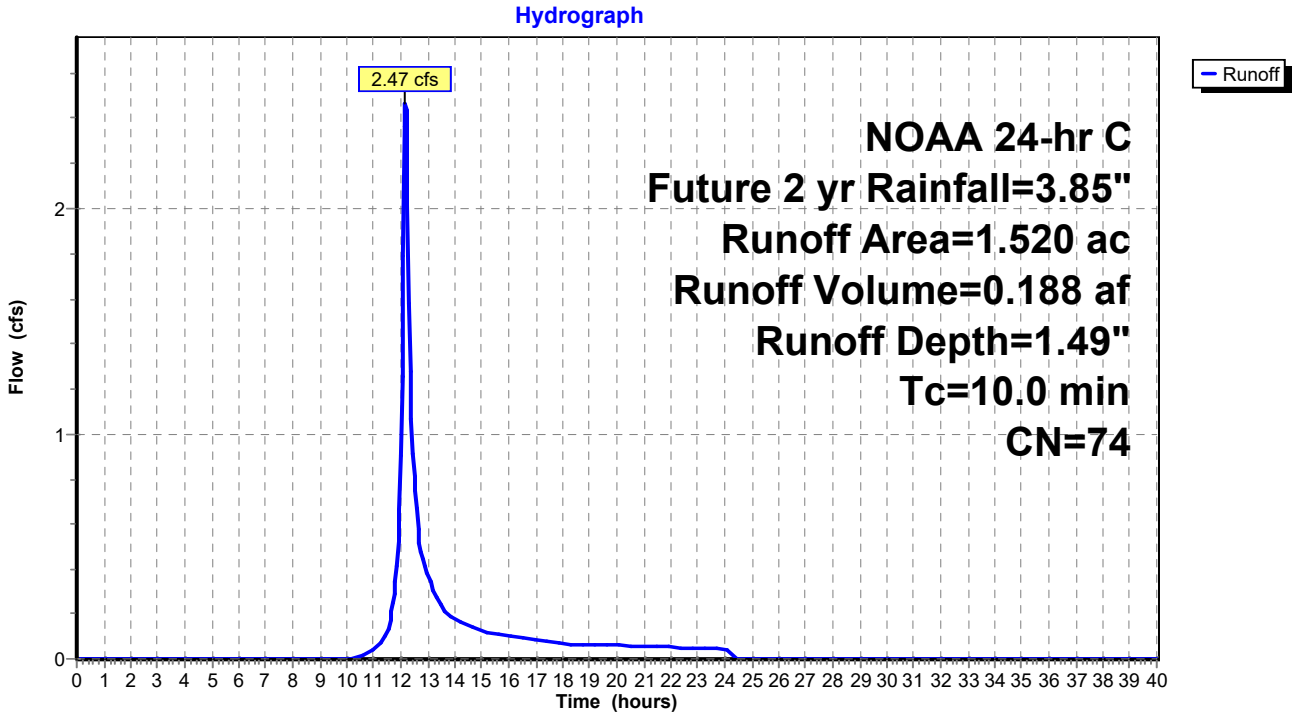
Runoff = 2.47 cfs @ 12.18 hrs, Volume= 0.188 af, Depth= 1.49"
Routed to Pond B-28 : Basin #28

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 Future 2 yr Rainfall=3.85"

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)



Summary for Subcatchment UPDA-2: PDA-2 (undetained)

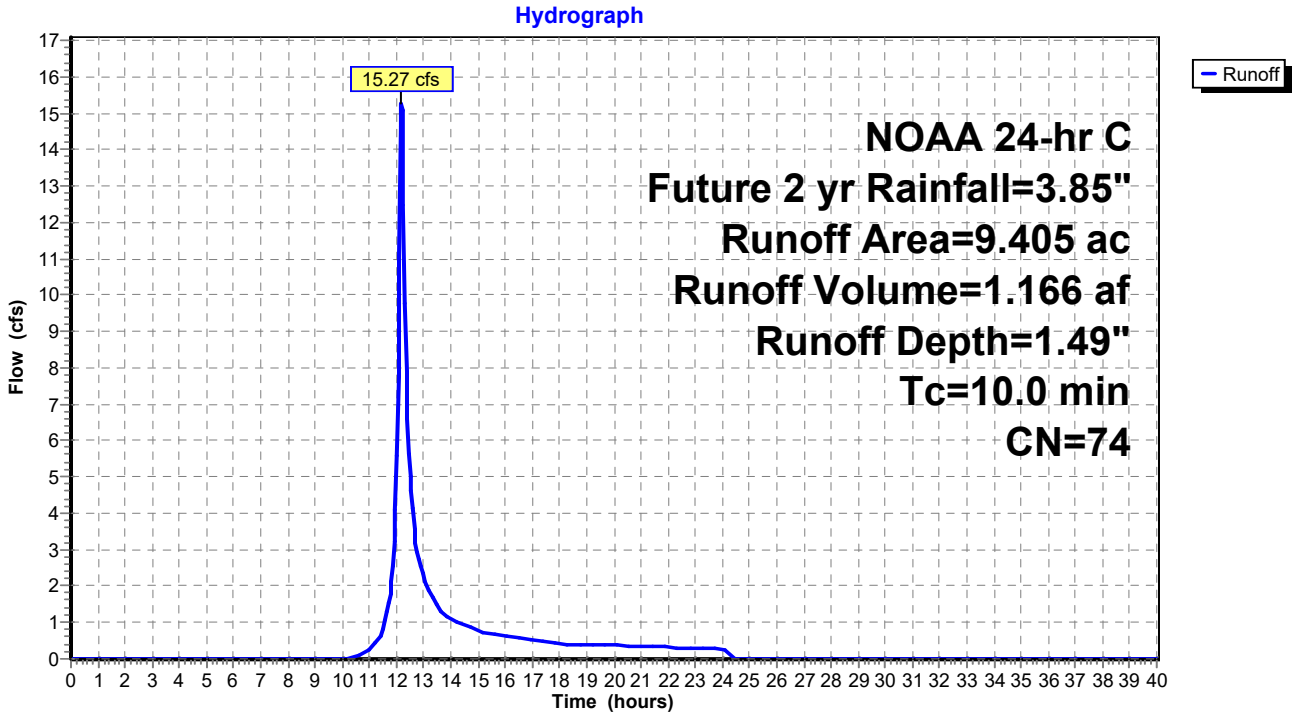
Runoff = 15.27 cfs @ 12.18 hrs, Volume= 1.166 af, Depth= 1.49"
Routed to Link PDA-2 : Proposed Drainage Area #2

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 Future 2 yr Rainfall=3.85"

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)



Summary for Pond B-18: Basin #18

Inflow Area = 1.410 ac, 31.91% Impervious, Inflow Depth = 2.17" for Future 2 yr event
Inflow = 3.12 cfs @ 12.18 hrs, Volume= 0.255 af
Outflow = 0.23 cfs @ 13.60 hrs, Volume= 0.210 af, Atten= 92%, Lag= 85.4 min
Primary = 0.23 cfs @ 13.60 hrs, Volume= 0.210 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= 189.34' @ 13.60 hrs Surf.Area= 2,833 sf Storage= 6,629 cf

Plug-Flow detention time= 379.5 min calculated for 0.209 af (82% of inflow)
Center-of-Mass det. time= 302.5 min (1,107.1 - 804.6)

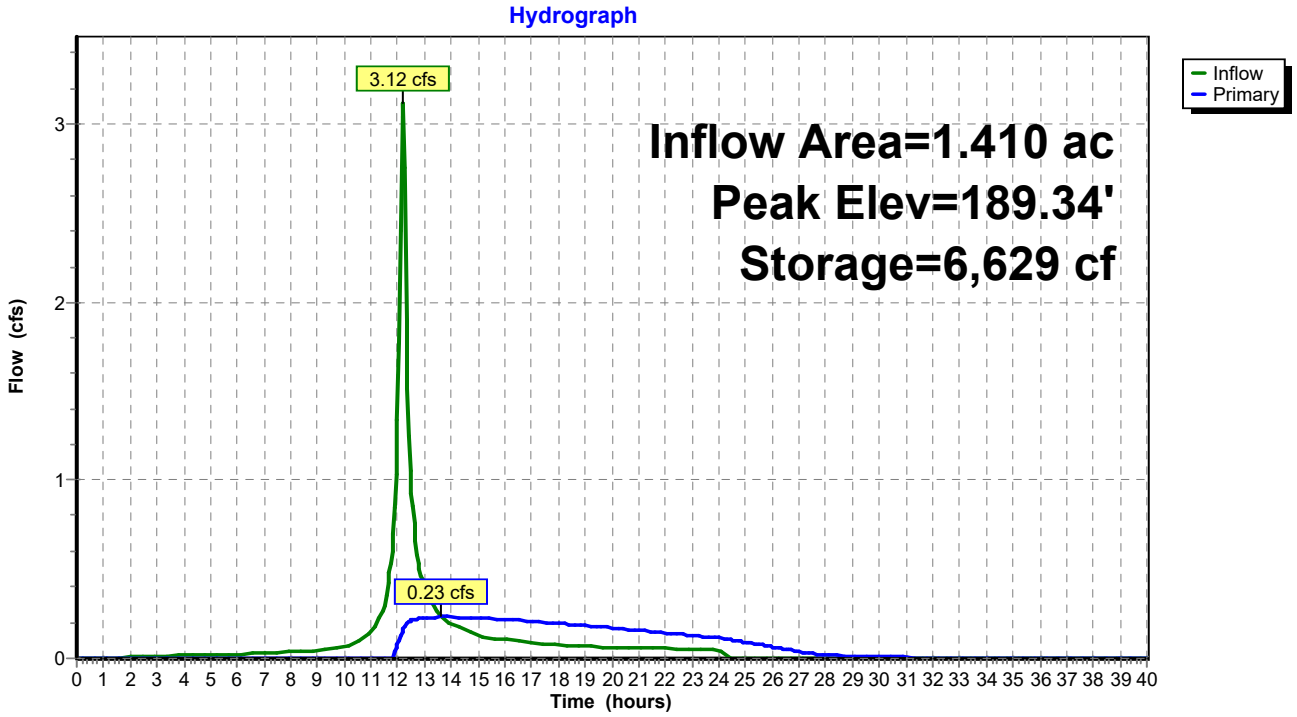
Volume	Invert	Avail.Storage	Storage Description
#1	185.65'	12,198 cf	**Custom Stage Data (Prismatic)** Listed below (Recalc)

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=0.23 cfs @ 13.60 hrs HW=189.34' (Free Discharge)
- **1=Culvert** (Passes 0.23 cfs of 9.74 cfs potential flow)
  - **2=Orifice/Grate** (Orifice Controls 0.23 cfs @ 6.79 fps)
  - **3=Sharp-Crested Rectangular Weir** (Weir Controls 0.00 cfs @ 0.15 fps)
- **4=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)

Pond B-18: Basin #18



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)
185.65	0	0
185.66	32	0
185.67	64	1
185.68	96	1
185.69	128	3
185.70	160	4
185.71	192	6
185.72	224	8
185.73	256	10
185.74	288	13
185.75	320	16
185.76	352	19
185.77	384	23
185.78	416	27
185.79	448	31
185.80	480	36
185.81	512	41
185.82	544	46
185.83	575	52
185.84	607	58
185.85	639	64
185.86	671	70
185.87	703	77
185.88	735	85
185.89	767	92
185.90	799	100
185.91	831	108
185.92	863	117
185.93	895	125
185.94	927	134
185.95	959	144
185.96	991	154
185.97	1,023	164
185.98	1,055	174
185.99	1,087	185
186.00	1,119	196
186.01	1,123	207
186.02	1,128	218
186.03	1,132	230
186.04	1,137	241
186.05	1,141	252
186.06	1,146	264
186.07	1,150	275
186.08	1,155	287
186.09	1,159	298
186.10	1,163	310
186.11	1,168	322
186.12	1,172	333
186.13	1,177	345
186.14	1,181	357
186.15	1,186	369
186.16	1,190	381
186.17	1,195	392
186.18	1,199	404
186.19	1,204	416
186.20	1,208	429
186.21	1,212	441
186.22	1,217	453
186.23	1,221	465
186.24	1,226	477
186.25	1,230	489
186.26	1,235	502
186.27	1,239	514
186.28	1,244	527
186.29	1,248	539
186.30	1,253	552
186.31	1,257	564
186.32	1,261	577
186.33	1,266	589
186.34	1,270	602
186.35	1,275	615
186.36	1,279	628
186.37	1,284	640
186.38	1,288	653
186.39	1,293	666
186.40	1,297	679
186.41	1,301	692
186.42	1,306	705
186.43	1,310	718
186.44	1,315	731
186.45	1,319	744
186.46	1,324	758
186.47	1,328	771
186.48	1,333	784
186.49	1,337	798
186.50	1,342	811
186.51	1,346	824
186.52	1,350	838
186.53	1,355	851
186.54	1,359	865
186.55	1,364	879
186.56	1,368	892
186.57	1,373	906
186.58	1,377	920
186.59	1,382	933
186.60	1,386	947
186.61	1,390	961
186.62	1,395	975
186.63	1,399	989
186.64	1,404	1,003
186.65	1,408	1,017
186.66	1,413	1,031
186.67	1,417	1,045
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 = 2.23" for Future 2 yr event
Inflow = 3.89 cfs @ 12.17 hrs, Volume= 0.318 af
Outflow = 0.49 cfs @ 13.03 hrs, Volume= 0.259 af, Atten= 87%, Lag= 51.1 min
Primary = 0.49 cfs @ 13.03 hrs, Volume= 0.259 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= 197.83' @ 13.03 hrs Surf.Area= 3,687 sf Storage= 8,156 cf

Plug-Flow detention time= 434.8 min calculated for 0.258 af (81% of inflow)
Center-of-Mass det. time= 354.9 min (1,156.2 - 801.3)

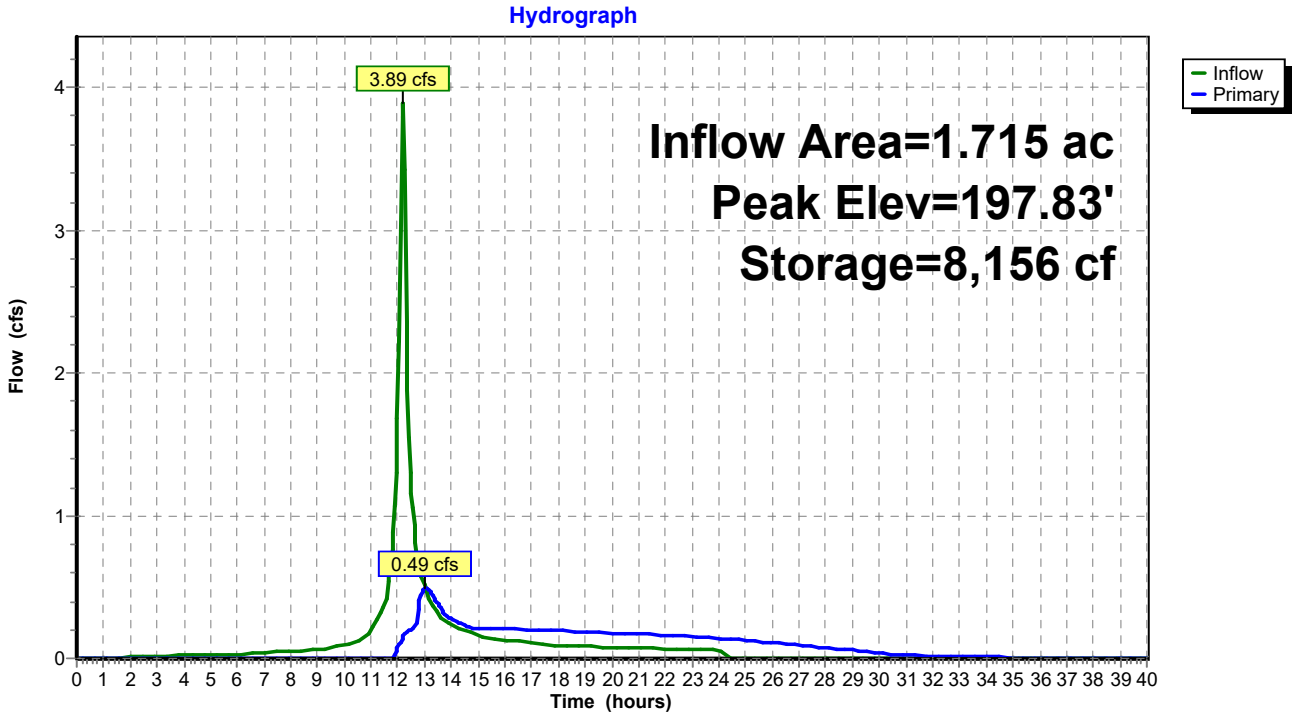
Volume	Invert	Avail.Storage	Storage Description
#1	194.65'	12,982 cf	**Custom Stage Data (Prismatic)** Listed below (Recalc)

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=0.49 cfs @ 13.03 hrs HW=197.83' (Free Discharge)
- **1=Culvert** (Passes 0.49 cfs of 14.18 cfs potential flow)
  - **2=Orifice/Grate** (Orifice Controls 0.22 cfs @ 6.32 fps)
  - **3=Sharp-Crested Rectangular Weir** (Weir Controls 0.28 cfs @ 0.90 fps)
- **4=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)

Pond B-19: Basin #19



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 = 2.47" for Future 2 yr event
Inflow = 6.08 cfs @ 12.17 hrs, Volume= 0.504 af
Outflow = 0.92 cfs @ 12.82 hrs, Volume= 0.376 af, Atten= 85%, Lag= 38.7 min
Primary = 0.92 cfs @ 12.82 hrs, Volume= 0.376 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= 152.90' @ 12.82 hrs Surf.Area= 7,432 sf Storage= 13,054 cf

Plug-Flow detention time= 559.8 min calculated for 0.376 af (74% of inflow)
Center-of-Mass det. time= 466.5 min (1,256.7 - 790.2)

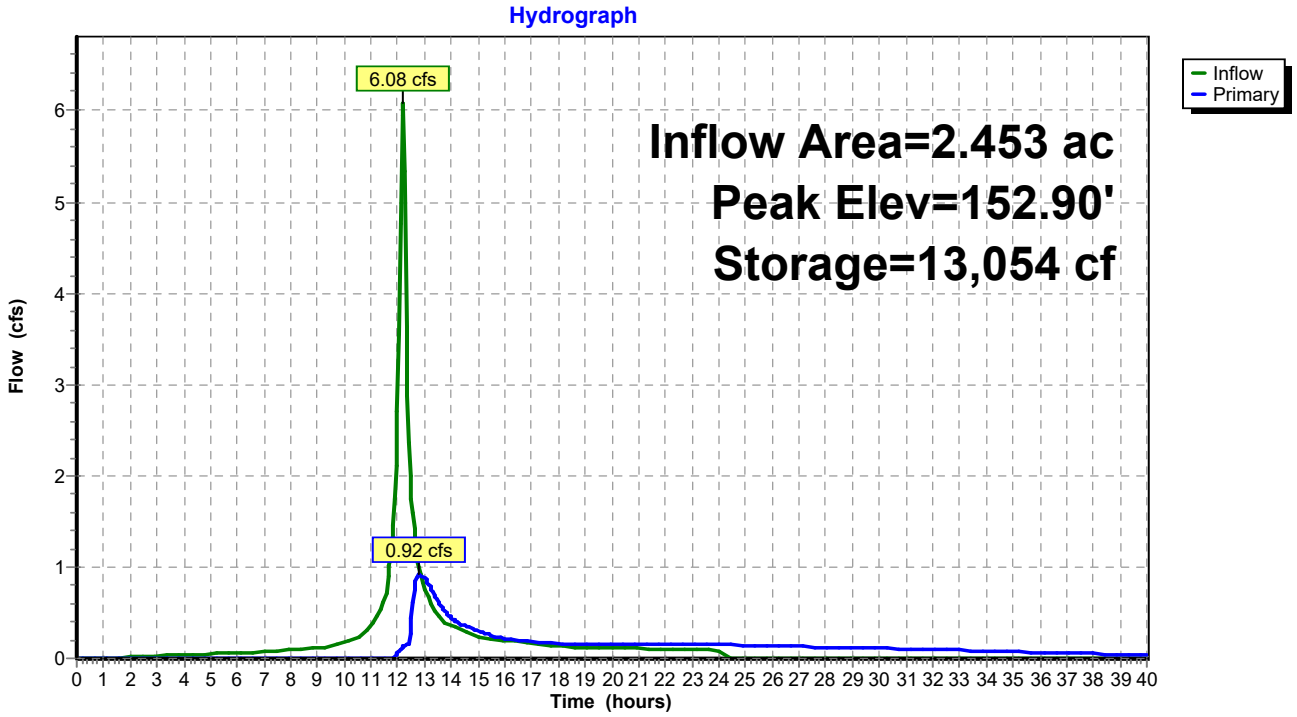
Volume	Invert	Avail.Storage	Storage Description
#1	150.87'	35,230 cf	**Custom Stage Data (Prismatic)** Listed below (Recalc)

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=0.92 cfs @ 12.82 hrs HW=152.90' (Free Discharge)
- **1=Culvert** (Passes 0.92 cfs of 8.73 cfs potential flow)
  - **2=Orifice/Grate** (Orifice Controls 0.17 cfs @ 5.08 fps)
  - **3=Sharp-Crested Rectangular Weir** (Weir Controls 0.74 cfs @ 1.26 fps)
- **4=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)

Pond B-20: Basin #20



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 = 2.24" for Future 2 yr event
Inflow = 5.71 cfs @ 12.17 hrs, Volume= 0.467 af
Outflow = 0.21 cfs @ 15.49 hrs, Volume= 0.353 af, Atten= 96%, Lag= 198.7 min
Primary = 0.21 cfs @ 15.49 hrs, Volume= 0.353 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= 152.33' @ 15.49 hrs Surf.Area= 7,105 sf Storage= 14,115 cf

Plug-Flow detention time= 717.6 min calculated for 0.353 af (76% of inflow)
Center-of-Mass det. time= 623.6 min (1,424.3 - 800.6)

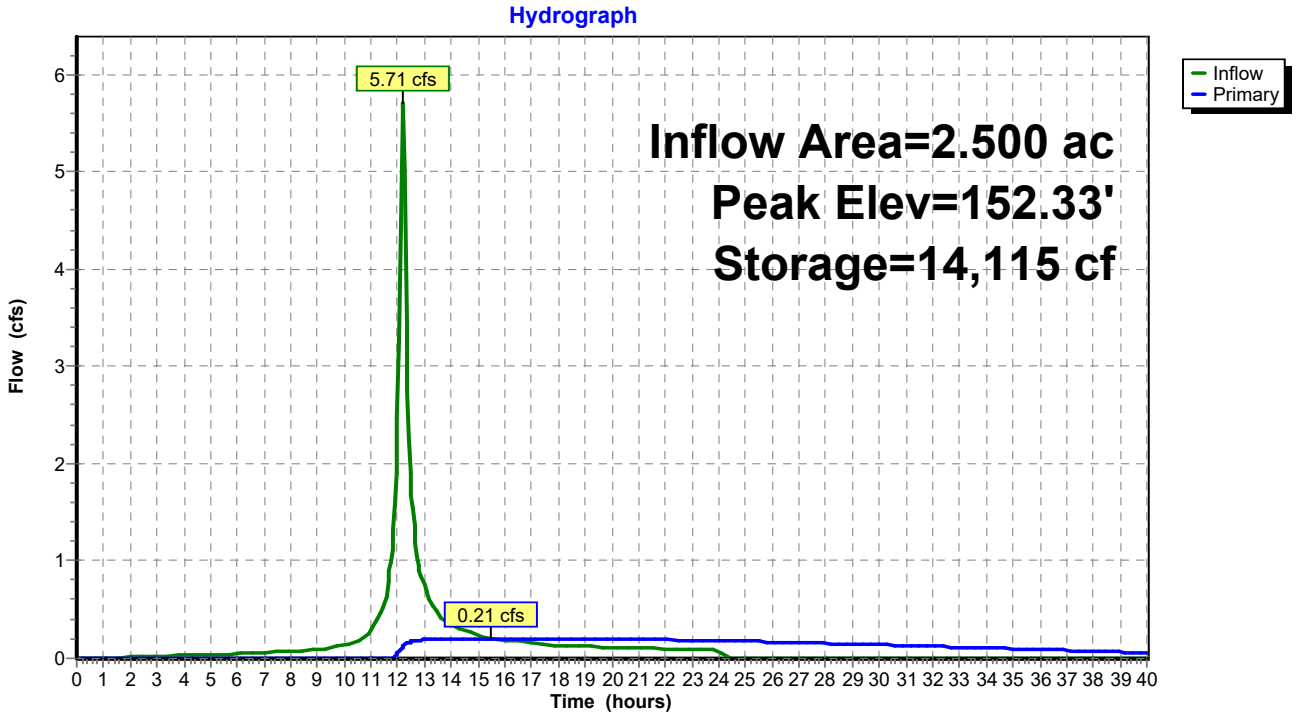
Volume	Invert	Avail.Storage	Storage Description
#1	149.90'	42,109 cf	**Custom Stage Data (Prismatic)** Listed below (Recalc)

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=0.20 cfs @ 15.49 hrs HW=152.33' (Free Discharge)
- **1=Culvert** (Passes 0.20 cfs of 12.85 cfs potential flow)
  - **2=Orifice/Grate** (Orifice Controls 0.20 cfs @ 5.99 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-21: Basin #21



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 = 2.19" for Future 2 yr event
Inflow = 5.49 cfs @ 12.18 hrs, Volume= 0.449 af
Outflow = 0.19 cfs @ 15.86 hrs, Volume= 0.326 af, Atten= 97%, Lag= 220.9 min
Primary = 0.19 cfs @ 15.86 hrs, Volume= 0.326 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= 149.47' @ 15.86 hrs Surf.Area= 8,441 sf Storage= 13,729 cf

Plug-Flow detention time= 742.0 min calculated for 0.326 af (73% of inflow)
Center-of-Mass det. time= 642.4 min (1,445.6 - 803.3)

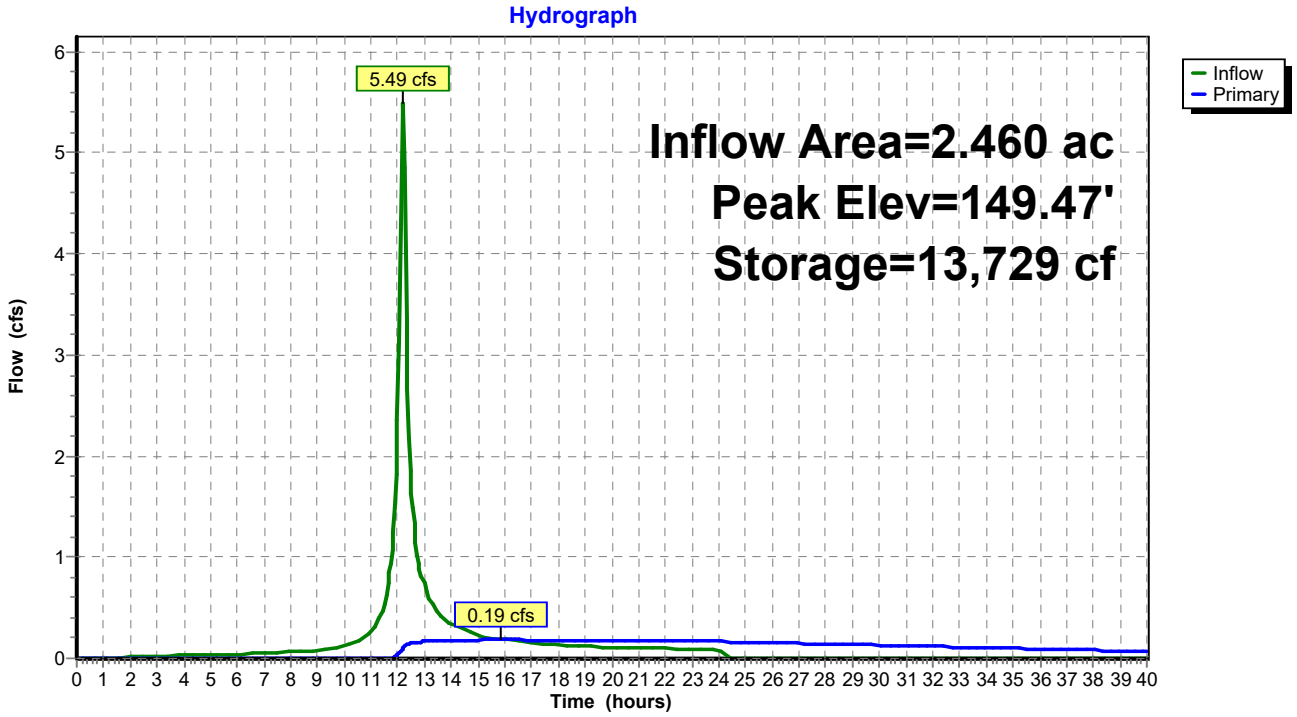
Volume	Invert	Avail.Storage	Storage Description
#1	147.30'	50,528 cf	**Custom Stage Data (Prismatic)** Listed below (Recalc)

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=0.18 cfs @ 15.86 hrs HW=149.47' (Free Discharge)
- **1=Culvert** (Passes 0.18 cfs of 10.15 cfs potential flow)
  - **2=Orifice/Grate** (Orifice Controls 0.18 cfs @ 5.32 fps)
  - **3=Sharp-Crested Rectangular Weir** (Weir Controls 0.00 cfs @ 0.17 fps)
- **4=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)

Pond B-22: Basin #22



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)
148.34	7,271	4,839
148.35	7,281	4,911
148.36	7,291	4,984
148.37	7,301	5,057
148.38	7,311	5,130
148.39	7,322	5,203
148.40	7,332	5,277
148.41	7,342	5,350
148.42	7,352	5,424
148.43	7,362	5,497
148.44	7,372	5,571
148.45	7,382	5,645
148.46	7,392	5,718
148.47	7,402	5,792
148.48	7,412	5,866
148.49	7,422	5,941
148.50	7,433	6,015
148.51	7,443	6,089
148.52	7,453	6,164
148.53	7,463	6,238
148.54	7,473	6,313
148.55	7,483	6,388
148.56	7,493	6,463
148.57	7,503	6,538
148.58	7,513	6,613
148.59	7,523	6,688
148.60	7,533	6,763
148.61	7,543	6,839
148.62	7,554	6,914
148.63	7,564	6,990
148.64	7,574	7,065
148.65	7,584	7,141
148.66	7,594	7,217
148.67	7,604	7,293
148.68	7,614	7,369
148.69	7,624	7,445
148.70	7,634	7,522
148.71	7,644	7,598
148.72	7,654	7,674
148.73	7,665	7,751
148.74	7,675	7,828
148.75	7,685	7,905
148.76	7,695	7,981
148.77	7,705	8,058
148.78	7,715	8,136
148.79	7,725	8,213
148.80	7,735	8,290
148.81	7,745	8,367
148.82	7,755	8,445
148.83	7,765	8,523
148.84	7,776	8,600
148.85	7,786	8,678
148.86	7,796	8,756
148.87	7,806	8,834
148.88	7,816	8,912
148.89	7,826	8,990
148.90	7,836	9,069
148.91	7,846	9,147
148.92	7,856	9,226
148.93	7,866	9,304
148.94	7,876	9,383
148.95	7,887	9,462
148.96	7,897	9,541
148.97	7,907	9,620
148.98	7,917	9,699
148.99	7,927	9,778
149.00	7,937	9,857
149.01	7,948	9,937
149.02	7,958	10,016
149.03	7,969	10,096
149.04	7,980	10,176
149.05	7,990	10,255
149.06	8,001	10,335
149.07	8,012	10,416
149.08	8,022	10,496
149.09	8,033	10,576
149.10	8,044	10,656
149.11	8,054	10,737
149.12	8,065	10,817
149.13	8,076	10,898
149.14	8,086	10,979
149.15	8,097	11,060
149.16	8,108	11,141
149.17	8,118	11,222
149.18	8,129	11,303
149.19	8,140	11,385
149.20	8,150	11,466
149.21	8,161	11,548
149.22	8,172	11,629
149.23	8,182	11,711
149.24	8,193	11,793
149.25	8,204	11,875
149.26	8,214	11,957
149.27	8,225	12,039
149.28	8,235	12,121
149.29	8,246	12,204
149.30	8,257	12,286
149.31	8,267	12,369
149.32	8,278	12,452
149.33	8,289	12,535
149.34	8,299	12,617
149.35	8,310	12,701
149.36	8,321	12,784
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 = 2.20" for Future 2 yr event
Inflow = 5.50 cfs @ 12.17 hrs, Volume= 0.449 af
Outflow = 0.52 cfs @ 13.33 hrs, Volume= 0.364 af, Atten= 91%, Lag= 69.3 min
Primary = 0.52 cfs @ 13.33 hrs, Volume= 0.364 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= 146.53' @ 13.33 hrs Surf.Area= 7,097 sf Storage= 11,569 cf

Plug-Flow detention time= 372.4 min calculated for 0.363 af (81% of inflow)
Center-of-Mass det. time= 292.0 min (1,094.7 - 802.7)

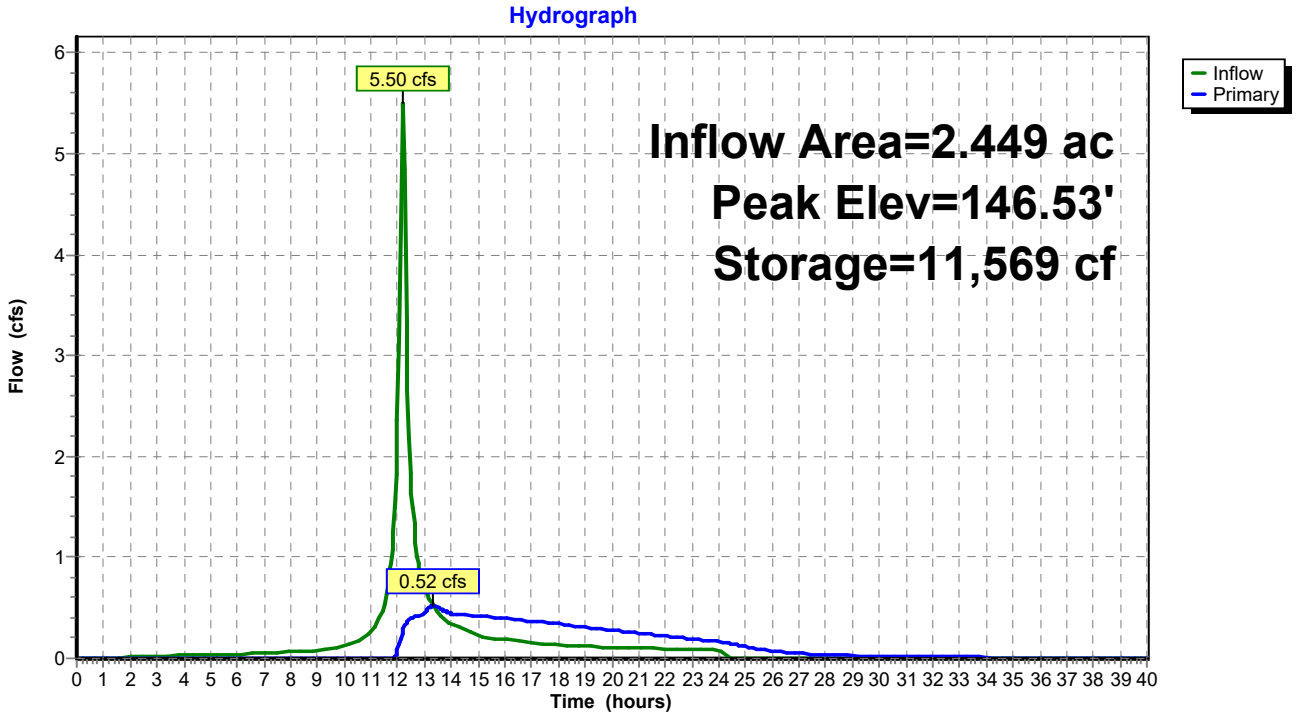
Volume	Invert	Avail.Storage	Storage Description
#1	144.30'	23,175 cf	**Custom Stage Data (Prismatic)** Listed below (Recalc)

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=0.51 cfs @ 13.33 hrs HW=146.53' (Free Discharge)
- **1=Culvert** (Passes 0.51 cfs of 10.36 cfs potential flow)
  - **2=Orifice/Grate** (Orifice Controls 0.44 cfs @ 5.01 fps)
  - **3=Sharp-Crested Rectangular Weir** (Weir Controls 0.07 cfs @ 0.58 fps)
- **4=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)

Pond B-23: Basin #23



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)
147.42	8,073	18,303
147.43	8,084	18,384
147.44	8,095	18,464
147.45	8,107	18,545
147.46	8,118	18,627
147.47	8,129	18,708
147.48	8,140	18,789
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
147.94	8,659	22,653
147.95	8,671	22,740
147.96	8,682	22,827
147.97	8,693	22,913
147.98	8,704	23,000
147.99	8,716	23,087
148.00	**8,727**	**23,175**

Summary for Pond B-24: Basin #24

Inflow Area = 2.408 ac, 37.46% Impervious, Inflow Depth = 2.28" for Future 2 yr event
Inflow = 5.59 cfs @ 12.17 hrs, Volume= 0.458 af
Outflow = 0.57 cfs @ 13.22 hrs, Volume= 0.364 af, Atten= 90%, Lag= 62.4 min
Primary = 0.57 cfs @ 13.22 hrs, Volume= 0.364 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= 146.14' @ 13.22 hrs Surf.Area= 8,467 sf Storage= 11,538 cf

Plug-Flow detention time= 337.0 min calculated for 0.364 af (79% of inflow)
Center-of-Mass det. time= 251.8 min (1,050.3 - 798.5)

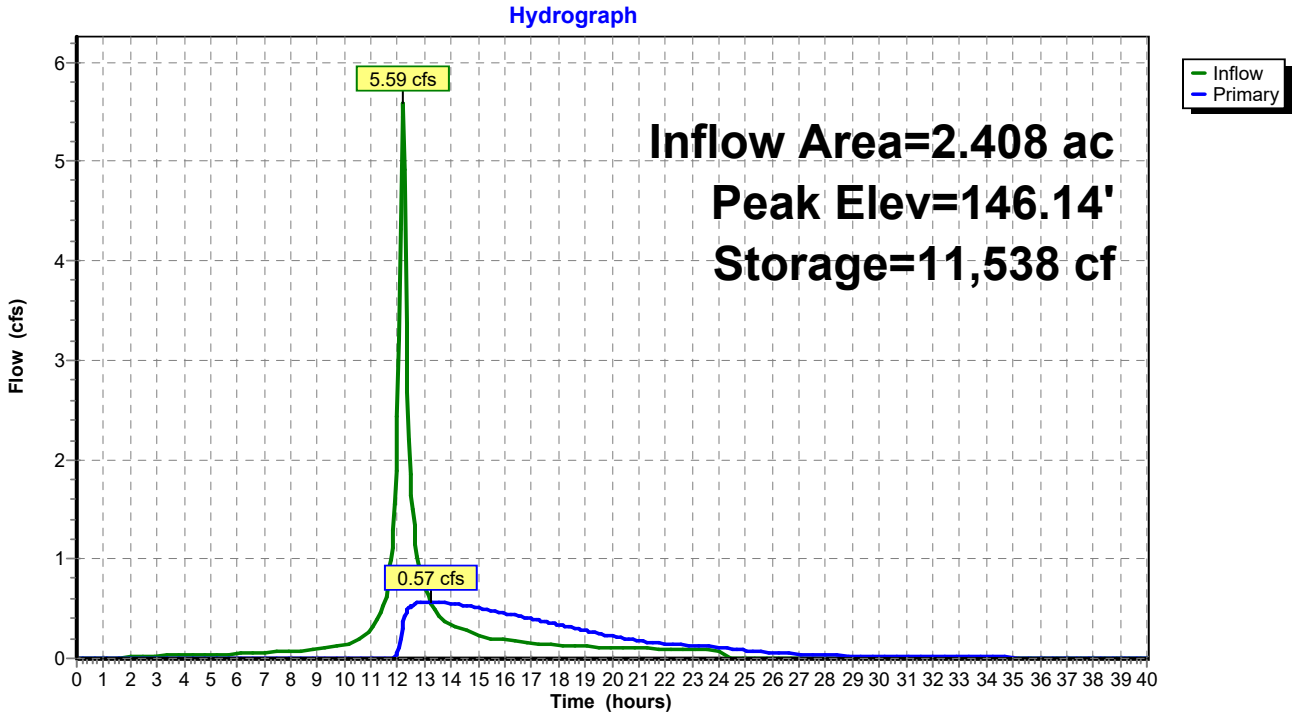
Volume	Invert	Avail.Storage	Storage Description
#1	144.30'	40,061 cf	**Custom Stage Data (Prismatic)** Listed below (Recalc)

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=0.57 cfs @ 13.22 hrs HW=146.14' (Free Discharge)
- **1=Culvert** (Passes 0.57 cfs of 8.87 cfs potential flow)
  - **2=Orifice/Grate** (Orifice Controls 0.57 cfs @ 4.19 fps)
  - **3=Sharp-Crested Rectangular Weir** (Controls 0.00 cfs)
- **4=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)

Pond B-24: Basin #24



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)
148.46	58.05
148.47	59.62
148.48	61.22
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
148.98	155.14
148.99	157.32
149.00	**159.47**

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)
148.46	10,904	34,016
148.47	10,915	34,125
148.48	10,925	34,234
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
148.98	11,466	39,832
148.99	11,477	39,947
149.00	**11,488**	**40,061**

Summary for Pond B-25: Basin #25

Inflow Area = 2.500 ac, 34.96% Impervious, Inflow Depth = 2.23" for Future 2 yr event
Inflow = 5.68 cfs @ 12.17 hrs, Volume= 0.465 af
Outflow = 0.58 cfs @ 13.23 hrs, Volume= 0.377 af, Atten= 90%, Lag= 63.0 min
Primary = 0.58 cfs @ 13.23 hrs, Volume= 0.377 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= 145.80' @ 13.23 hrs Surf.Area= 6,309 sf Storage= 11,536 cf

Plug-Flow detention time= 314.4 min calculated for 0.377 af (81% of inflow)
Center-of-Mass det. time= 234.4 min (1,035.6 - 801.1)

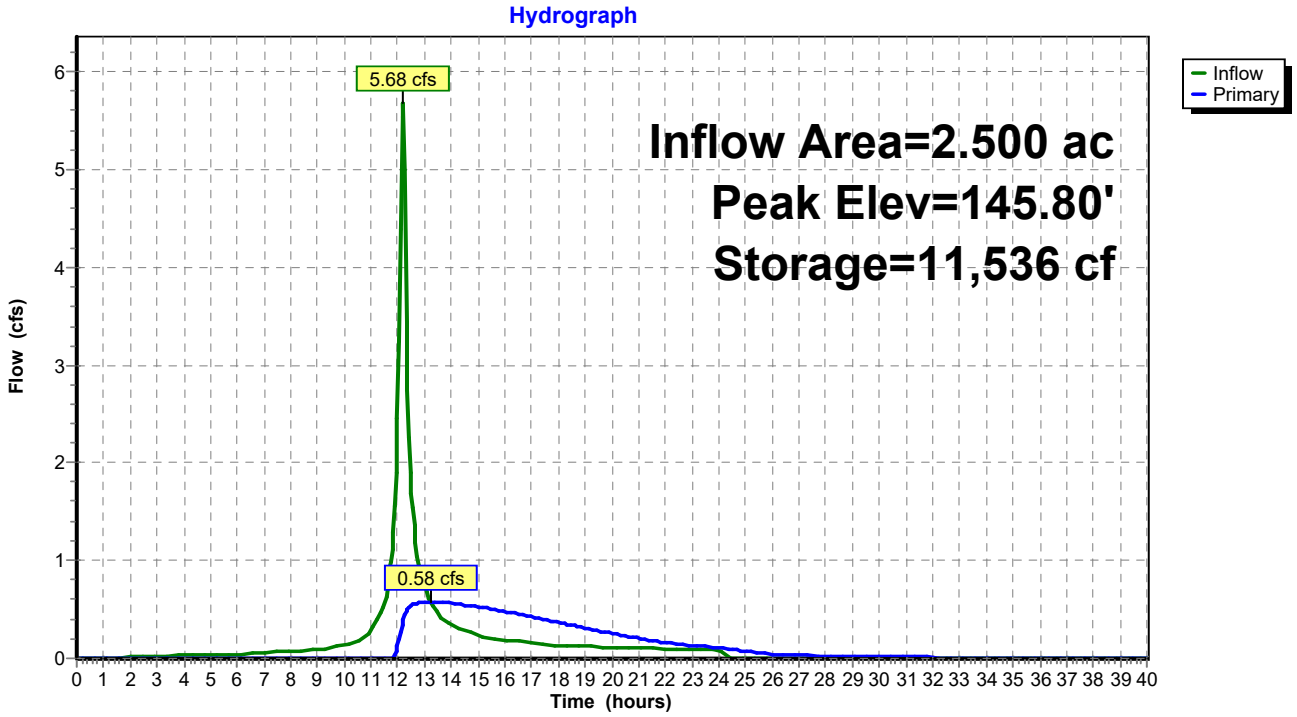
Volume	Invert	Avail.Storage	Storage Description
#1	143.30'	36,587 cf	**Custom Stage Data (Prismatic)** Listed below (Recalc)

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=0.58 cfs @ 13.23 hrs HW=145.80' (Free Discharge)
- **1=Culvert** (Passes 0.58 cfs of 9.71 cfs potential flow)
  - **2=Orifice/Grate** (Orifice Controls 0.58 cfs @ 5.25 fps)
  - **3=Sharp-Crested Rectangular Weir** (Controls 0.00 cfs)
- **4=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)

Pond B-25: Basin #25



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)
143.30	0	0
143.31	67	0
143.32	134	1
143.33	202	3
143.34	269	5
143.35	336	8
143.36	403	12
143.37	470	16
143.38	537	21
143.39	605	27
143.40	672	34
143.41	739	41
143.42	806	48
143.43	873	57
143.44	940	66
143.45	1,008	76
143.46	1,075	86
143.47	1,142	97
143.48	1,209	109
143.49	1,276	121
143.50	1,343	134
143.51	1,411	148
143.52	1,478	163
143.53	1,545	178
143.54	1,612	193
143.55	1,679	210
143.56	1,746	227
143.57	1,814	245
143.58	1,881	263
143.59	1,948	282
143.60	2,015	302
143.61	2,082	323
143.62	2,149	344
143.63	2,217	366
143.64	2,284	388
143.65	2,351	411
143.66	2,418	435
143.67	2,485	460
143.68	2,553	485
143.69	2,620	511
143.70	2,687	537
143.71	2,754	565
143.72	2,821	592
143.73	2,888	621
143.74	2,956	650
143.75	3,023	680
143.76	3,090	711
143.77	3,157	742
143.78	3,224	774
143.79	3,291	806
143.80	3,359	840
143.81	3,426	874
143.82	3,493	908
143.83	3,560	943
143.84	3,627	979
143.85	3,694	1,016
143.86	3,762	1,053
143.87	3,829	1,091
143.88	3,896	1,130
143.89	3,963	1,169
143.90	4,030	1,209
143.91	4,097	1,250
143.92	4,165	1,291
143.93	4,232	1,333
143.94	4,299	1,376
143.95	4,366	1,419
143.96	4,433	1,463
143.97	4,500	1,508
143.98	4,568	1,553
143.99	4,635	1,599
144.00	4,702	1,646
144.01	4,711	1,693
144.02	4,720	1,740
144.03	4,728	1,787
144.04	4,737	1,834
144.05	4,746	1,882
144.06	4,755	1,929
144.07	4,764	1,977
144.08	4,773	2,025
144.09	4,781	2,072
144.10	4,790	2,120
144.11	4,799	2,168
144.12	4,808	2,216
144.13	4,817	2,264
144.14	4,825	2,313
144.15	4,834	2,361
144.16	4,843	2,409
144.17	4,852	2,458
144.18	4,861	2,506
144.19	4,870	2,555
144.20	4,878	2,604
144.21	4,887	2,653
144.22	4,896	2,701
144.23	4,905	2,750
144.24	4,914	2,800
144.25	4,923	2,849
144.26	4,931	2,898
144.27	4,940	2,947
144.28	4,949	2,997
144.29	4,958	3,046
144.30	4,967	3,096
144.31	4,975	3,146
144.32	4,984	3,195
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)
147.46	7,872	23,306
147.47	7,882	23,384
147.48	7,891	23,463
147.49	7,901	23,542
147.50	7,911	23,621
147.51	7,920	23,700
147.52	7,930	23,780
147.53	7,939	23,859
147.54	7,949	23,939
147.55	7,959	24,018
147.56	7,968	24,098
147.57	7,978	24,177
147.58	7,988	24,257
147.59	7,997	24,337
147.60	8,007	24,417
147.61	8,017	24,497
147.62	8,026	24,578
147.63	8,036	24,658
147.64	8,046	24,738
147.65	8,055	24,819
147.66	8,065	24,899
147.67	8,075	24,980
147.68	8,084	25,061
147.69	8,094	25,142
147.70	8,104	25,223
147.71	8,113	25,304
147.72	8,123	25,385
147.73	8,132	25,466
147.74	8,142	25,548
147.75	8,152	25,629
147.76	8,161	25,711
147.77	8,171	25,792
147.78	8,181	25,874
147.79	8,190	25,956
147.80	8,200	26,038
147.81	8,210	26,120
147.82	8,219	26,202
147.83	8,229	26,284
147.84	8,239	26,367
147.85	8,248	26,449
147.86	8,258	26,532
147.87	8,268	26,614
147.88	8,277	26,697
147.89	8,287	26,780
147.90	8,297	26,863
147.91	8,306	26,946
147.92	8,316	27,029
147.93	8,325	27,112
147.94	8,335	27,195
147.95	8,345	27,279
147.96	8,354	27,362
147.97	8,364	27,446
147.98	8,374	27,530
147.99	8,383	27,613
148.00	8,393	27,697
148.01	8,403	27,781
148.02	8,413	27,865
148.03	8,423	27,949
148.04	8,433	28,034
148.05	8,443	28,118
148.06	8,453	28,203
148.07	8,463	28,287
148.08	8,472	28,372
148.09	8,482	28,457
148.10	8,492	28,541
148.11	8,502	28,626
148.12	8,512	28,712
148.13	8,522	28,797
148.14	8,532	28,882
148.15	8,542	28,967
148.16	8,552	29,053
148.17	8,562	29,138
148.18	8,572	29,224
148.19	8,582	29,310
148.20	8,592	29,396
148.21	8,602	29,482
148.22	8,611	29,568
148.23	8,621	29,654
148.24	8,631	29,740
148.25	8,641	29,826
148.26	8,651	29,913
148.27	8,661	30,000
148.28	8,671	30,086
148.29	8,681	30,173
148.30	8,691	30,260
148.31	8,701	30,347
148.32	8,711	30,434
148.33	8,721	30,521
148.34	8,731	30,608
148.35	8,741	30,696
148.36	8,750	30,783
148.37	8,760	30,871
148.38	8,770	30,958
148.39	8,780	31,046
148.40	8,790	31,134
148.41	8,800	31,222
148.42	8,810	31,310
148.43	8,820	31,398
148.44	8,830	31,486
148.45	8,840	31,575
148.46	8,850	31,663
148.47	8,860	31,752
148.48	8,870	31,840
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 = 2.34" for Future 2 yr event
Inflow = 5.60 cfs @ 12.17 hrs, Volume= 0.461 af
Outflow = 0.23 cfs @ 15.00 hrs, Volume= 0.345 af, Atten= 96%, Lag= 169.8 min
Primary = 0.23 cfs @ 15.00 hrs, Volume= 0.345 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= 146.01' @ 15.00 hrs Surf.Area= 6,493 sf Storage= 13,944 cf

Plug-Flow detention time= 708.0 min calculated for 0.345 af (75% of inflow)
Center-of-Mass det. time= 613.5 min (1,409.5 - 796.0)

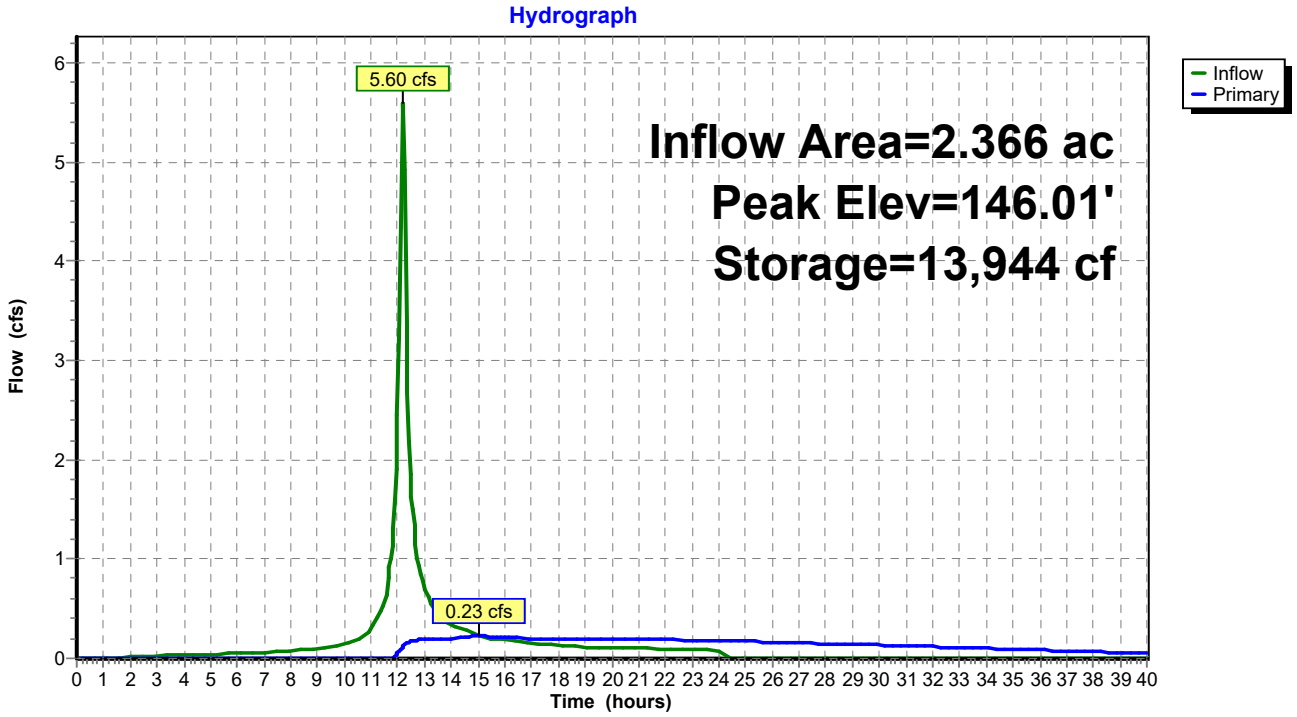
Volume	Invert	Avail.Storage	Storage Description
#1	143.30'	35,348 cf	**Custom Stage Data (Prismatic)** Listed below (Recalc)

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=0.22 cfs @ 15.00 hrs HW=146.01' (Free Discharge)
- **1=Culvert** (Passes 0.22 cfs of 9.35 cfs potential flow)
  - **2=Orifice/Grate** (Orifice Controls 0.20 cfs @ 5.99 fps)
  - **3=Sharp-Crested Rectangular Weir** (Weir Controls 0.02 cfs @ 0.38 fps)
- **4=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)

Pond B-26: Basin #26



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)
143.30	0	0
143.31	78	0
143.32	156	2
143.33	234	4
143.34	312	6
143.35	390	10
143.36	469	14
143.37	547	19
143.38	625	25
143.39	703	32
143.40	781	39
143.41	859	47
143.42	937	56
143.43	1,015	66
143.44	1,093	77
143.45	1,171	88
143.46	1,249	100
143.47	1,327	113
143.48	1,406	126
143.49	1,484	141
143.50	1,562	156
143.51	1,640	172
143.52	1,718	189
143.53	1,796	207
143.54	1,874	225
143.55	1,952	244
143.56	2,030	264
143.57	2,108	285
143.58	2,186	306
143.59	2,264	328
143.60	2,343	351
143.61	2,421	375
143.62	2,499	400
143.63	2,577	425
143.64	2,655	451
143.65	2,733	478
143.66	2,811	506
143.67	2,889	534
143.68	2,967	564
143.69	3,045	594
143.70	3,123	625
143.71	3,202	656
143.72	3,280	689
143.73	3,358	722
143.74	3,436	756
143.75	3,514	791
143.76	3,592	826
143.77	3,670	862
143.78	3,748	900
143.79	3,826	937
143.80	3,904	976
143.81	3,982	1,016
143.82	4,060	1,056
143.83	4,139	1,097
143.84	4,217	1,138
143.85	4,295	1,181
143.86	4,373	1,224
143.87	4,451	1,269
143.88	4,529	1,313
143.89	4,607	1,359
143.90	4,685	1,406
143.91	4,763	1,453
143.92	4,841	1,501
143.93	4,919	1,550
143.94	4,997	1,599
143.95	5,076	1,650
143.96	5,154	1,701
143.97	5,232	1,753
143.98	5,310	1,805
143.99	5,388	1,859
144.00	5,466	1,913
144.01	5,471	1,968
144.02	5,476	2,023
144.03	5,481	2,077
144.04	5,486	2,132
144.05	5,491	2,187
144.06	5,496	2,242
144.07	5,501	2,297
144.08	5,506	2,352
144.09	5,511	2,407
144.10	5,516	2,462
144.11	5,521	2,517
144.12	5,526	2,573
144.13	5,531	2,628
144.14	5,536	2,683
144.15	5,541	2,739
144.16	5,546	2,794
144.17	5,551	2,850
144.18	5,556	2,905
144.19	5,561	2,961
144.20	5,566	3,016
144.21	5,571	3,072
144.22	5,576	3,128
144.23	5,581	3,184
144.24	5,586	3,239
144.25	5,591	3,295
144.26	5,596	3,351
144.27	5,601	3,407
144.28	5,606	3,463
144.29	5,611	3,519
144.30	5,616	3,575
144.31	5,621	3,632
144.32	5,626	3,688
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 = 2.97" for Future 2 yr event
Inflow = 5.88 cfs @ 12.17 hrs, Volume= 0.479 af
Outflow = 2.60 cfs @ 12.37 hrs, Volume= 0.372 af, Atten= 56%, Lag= 11.8 min
Primary = 2.60 cfs @ 12.37 hrs, Volume= 0.372 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= 171.99' @ 12.37 hrs Surf.Area= 3,661 sf Storage= 9,352 cf

Plug-Flow detention time= 187.9 min calculated for 0.372 af (78% of inflow)
Center-of-Mass det. time= 102.7 min (888.0 - 785.3)

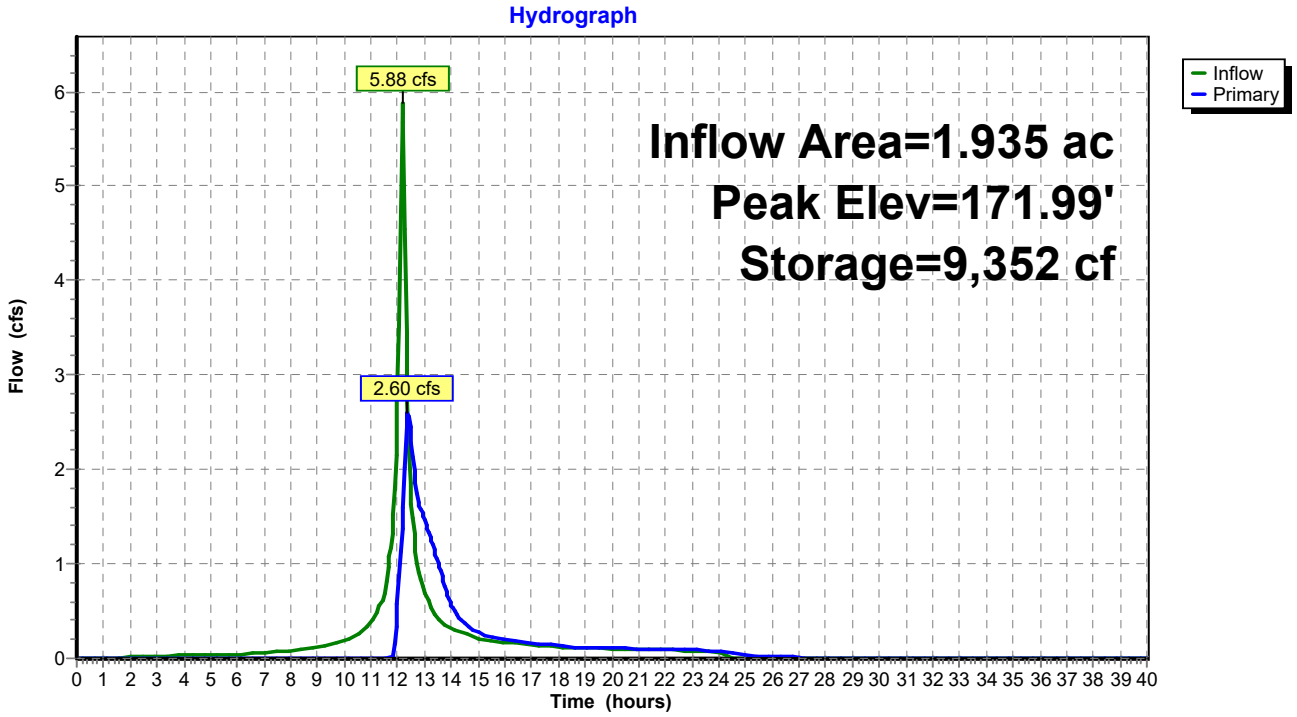
Volume	Invert	Avail.Storage	Storage Description
#1	167.35'	13,052 cf	**Custom Stage Data (Prismatic)** Listed below (Recalc)

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=2.57 cfs @ 12.37 hrs HW=171.99' (Free Discharge)
- **1=Culvert** (Passes 2.57 cfs of 27.64 cfs potential flow)
  - **2=Orifice/Grate** (Orifice Controls 1.83 cfs @ 5.24 fps)
  - **3=Sharp-Crested Rectangular Weir** (Weir Controls 0.74 cfs @ 1.60 fps)
  - **4=Sharp-Crested Rectangular Weir** (Controls 0.00 cfs)
- **5=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)

Pond B-27: Basin #27



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)
170.47	2,548	4,641
170.48	2,555	4,666
170.49	2,562	4,692
170.50	2,569	4,718
170.51	2,575	4,743
170.52	2,582	4,769
170.53	2,589	4,795
170.54	2,596	4,821
170.55	2,603	4,847
170.56	2,610	4,873
170.57	2,617	4,899
170.58	2,624	4,925
170.59	2,631	4,952
170.60	2,638	4,978
170.61	2,645	5,004
170.62	2,652	5,031
170.63	2,659	5,057
170.64	2,666	5,084
170.65	2,673	5,111
170.66	2,680	5,137
170.67	2,687	5,164
170.68	2,694	5,191
170.69	2,701	5,218
170.70	2,707	5,245
170.71	2,714	5,272
170.72	2,721	5,299
170.73	2,728	5,327
170.74	2,735	5,354
170.75	2,742	5,381
170.76	2,749	5,409
170.77	2,756	5,436
170.78	2,763	5,464
170.79	2,770	5,492
170.80	2,777	5,519
170.81	2,784	5,547
170.82	2,791	5,575
170.83	2,798	5,603
170.84	2,805	5,631
170.85	2,812	5,659
170.86	2,819	5,687
170.87	2,826	5,715
170.88	2,833	5,744
170.89	2,840	5,772
170.90	2,847	5,801
170.91	2,853	5,829
170.92	2,860	5,858
170.93	2,867	5,886
170.94	2,874	5,915
170.95	2,881	5,944
170.96	2,888	5,973
170.97	2,895	6,001
170.98	2,902	6,030
170.99	2,909	6,060
171.00	2,916	6,089
171.01	2,924	6,118
171.02	2,931	6,147
171.03	2,939	6,176
171.04	2,946	6,206
171.05	2,954	6,235
171.06	2,961	6,265
171.07	2,969	6,295
171.08	2,976	6,324
171.09	2,984	6,354
171.10	2,991	6,384
171.11	2,999	6,414
171.12	3,006	6,444
171.13	3,014	6,474
171.14	3,021	6,504
171.15	3,029	6,534
171.16	3,036	6,565
171.17	3,044	6,595
171.18	3,051	6,626
171.19	3,059	6,656
171.20	3,066	6,687
171.21	3,074	6,718
171.22	3,081	6,748
171.23	3,089	6,779
171.24	3,096	6,810
171.25	3,104	6,841
171.26	3,111	6,872
171.27	3,119	6,903
171.28	3,126	6,935
171.29	3,134	6,966
171.30	3,141	6,997
171.31	3,149	7,029
171.32	3,156	7,060
171.33	3,164	7,092
171.34	3,171	7,123
171.35	3,179	7,155
171.36	3,186	7,187
171.37	3,194	7,219
171.38	3,201	7,251
171.39	3,209	7,283
171.40	3,216	7,315
171.41	3,224	7,347
171.42	3,231	7,380
171.43	3,239	7,412
171.44	3,246	7,444
171.45	3,254	7,477
171.46	3,261	7,509
171.47	3,269	7,542
171.48	3,276	7,575
171.49	3,284	7,608
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 = 2.23" for Future 2 yr event
Inflow = 5.30 cfs @ 12.17 hrs, Volume= 0.433 af
Outflow = 4.45 cfs @ 12.24 hrs, Volume= 0.354 af, Atten= 16%, Lag= 4.1 min
Primary = 4.45 cfs @ 12.24 hrs, Volume= 0.354 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= 168.54' @ 12.24 hrs Surf.Area= 2,871 sf Storage= 5,236 cf

Plug-Flow detention time= 143.1 min calculated for 0.353 af (82% of inflow)
Center-of-Mass det. time= 63.7 min (865.0 - 801.3)

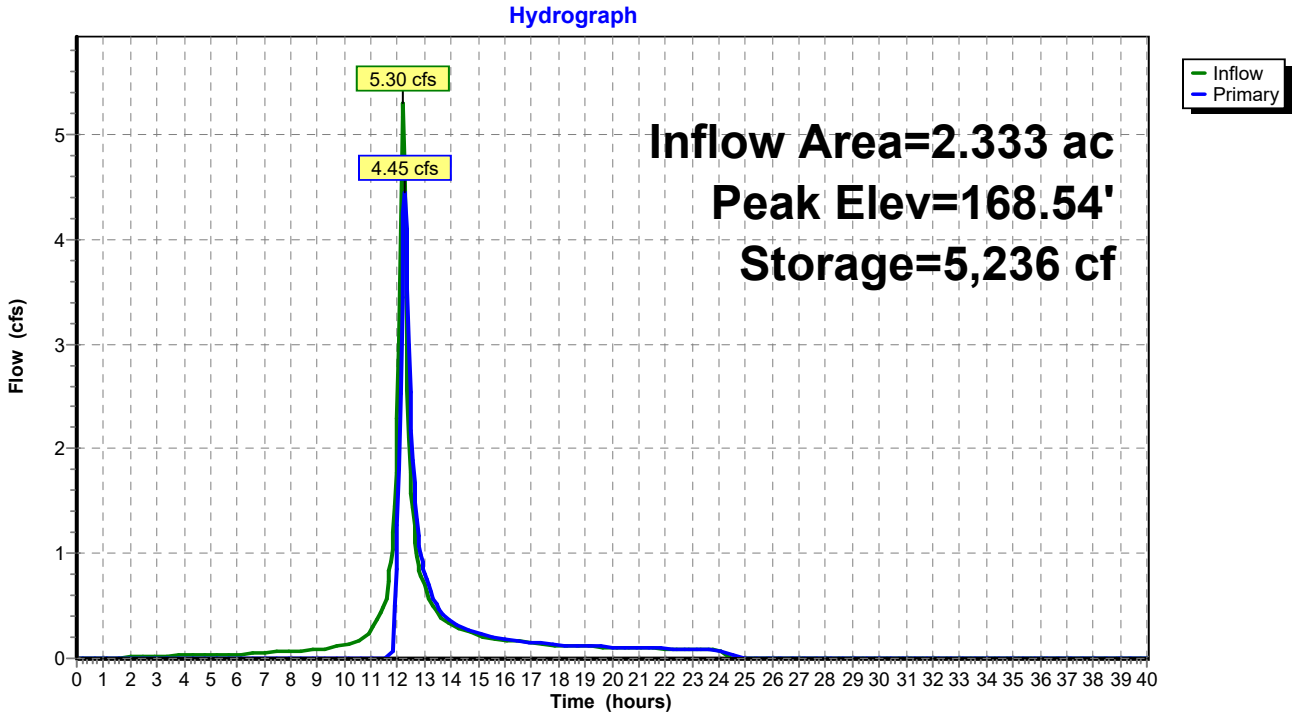
Volume	Invert	Avail.Storage	Storage Description
#1	165.65'	12,318 cf	**Custom Stage Data (Prismatic)** Listed below (Recalc)

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=4.41 cfs @ 12.24 hrs HW=168.54' (Free Discharge)
- **1=Culvert** (Passes 4.41 cfs of 11.71 cfs potential flow)
  - **2=Orifice/Grate** (Orifice Controls 4.41 cfs @ 2.63 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



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)
169.81	11.80
169.82	11.86
169.83	11.92
169.84	11.98
169.85	12.04
169.86	12.10
169.87	12.16
169.88	12.23
169.89	12.29
169.90	12.35
169.91	12.41
169.92	12.47
169.93	12.54
169.94	12.60
169.95	12.66
169.96	12.73
169.97	12.79
169.98	12.85
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
170.33	14.51
170.34	14.52
170.35	14.54
170.36	14.55
170.37	14.56
170.38	14.58
170.39	14.59
170.40	14.61
170.41	14.62
170.42	14.63
170.43	14.65
170.44	14.66
170.45	14.68
170.46	14.69
170.47	14.70
170.48	14.72
170.49	14.73
170.50	**14.86**

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)

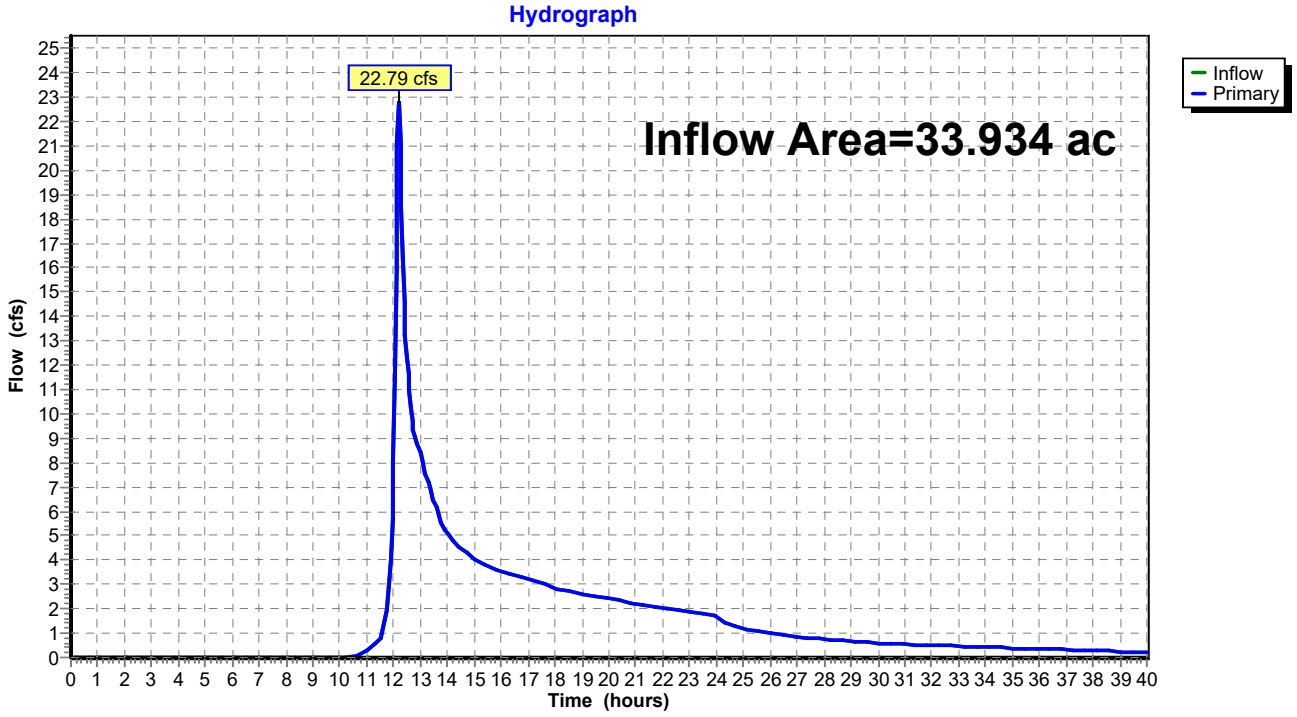
Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
169.81	3,860	9,484
169.82	3,868	9,523
169.83	3,876	9,561
169.84	3,884	9,600
169.85	3,892	9,639
169.86	3,900	9,678
169.87	3,908	9,717
169.88	3,916	9,756
169.89	3,924	9,795
169.90	3,932	9,835
169.91	3,940	9,874
169.92	3,948	9,913
169.93	3,956	9,953
169.94	3,964	9,993
169.95	3,972	10,032
169.96	3,980	10,072
169.97	3,988	10,112
169.98	3,996	10,152
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
170.33	4,225	11,591
170.34	4,231	11,633
170.35	4,237	11,676
170.36	4,244	11,718
170.37	4,250	11,760
170.38	4,257	11,803
170.39	4,263	11,846
170.40	4,270	11,888
170.41	4,276	11,931
170.42	4,282	11,974
170.43	4,289	12,017
170.44	4,295	12,059
170.45	4,302	12,102
170.46	4,308	12,146
170.47	4,315	12,189
170.48	4,321	12,232
170.49	4,328	12,275
170.50	**4,334**	**12,318**

Summary for Link PDA-2: Proposed Drainage Area #2

Inflow Area = 33.934 ac, 26.90% Impervious, Inflow Depth > 1.72" for Future 2 yr event
Inflow = 22.79 cfs @ 12.20 hrs, Volume= 4.865 af
Primary = 22.79 cfs @ 12.20 hrs, Volume= 4.865 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 18l: PDA-18 (impervious)

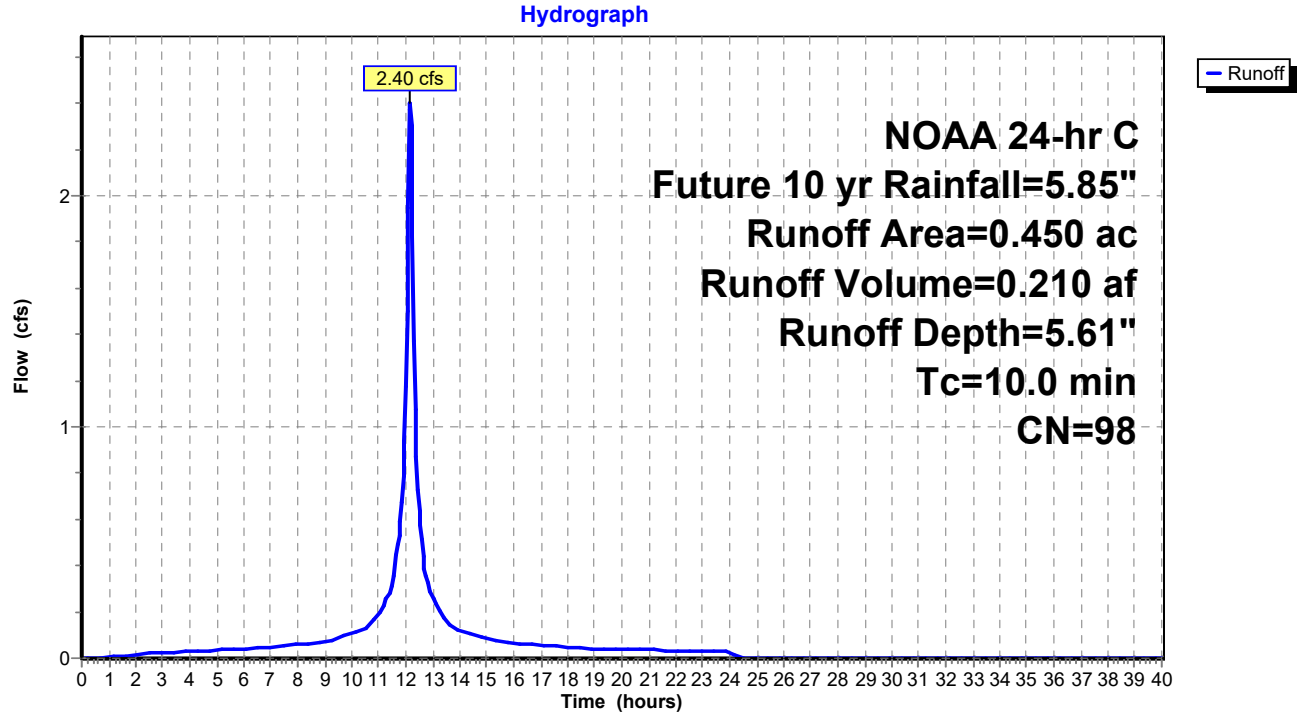
Runoff = 2.40 cfs @ 12.17 hrs, Volume= 0.210 af, Depth= 5.61"
Routed to Pond B-18 : Basin #18

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 Future 10 yr Rainfall=5.85"

	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 18l: PDA-18 (impervious)



Summary for Subcatchment 18P: PDA-18 (pervious)

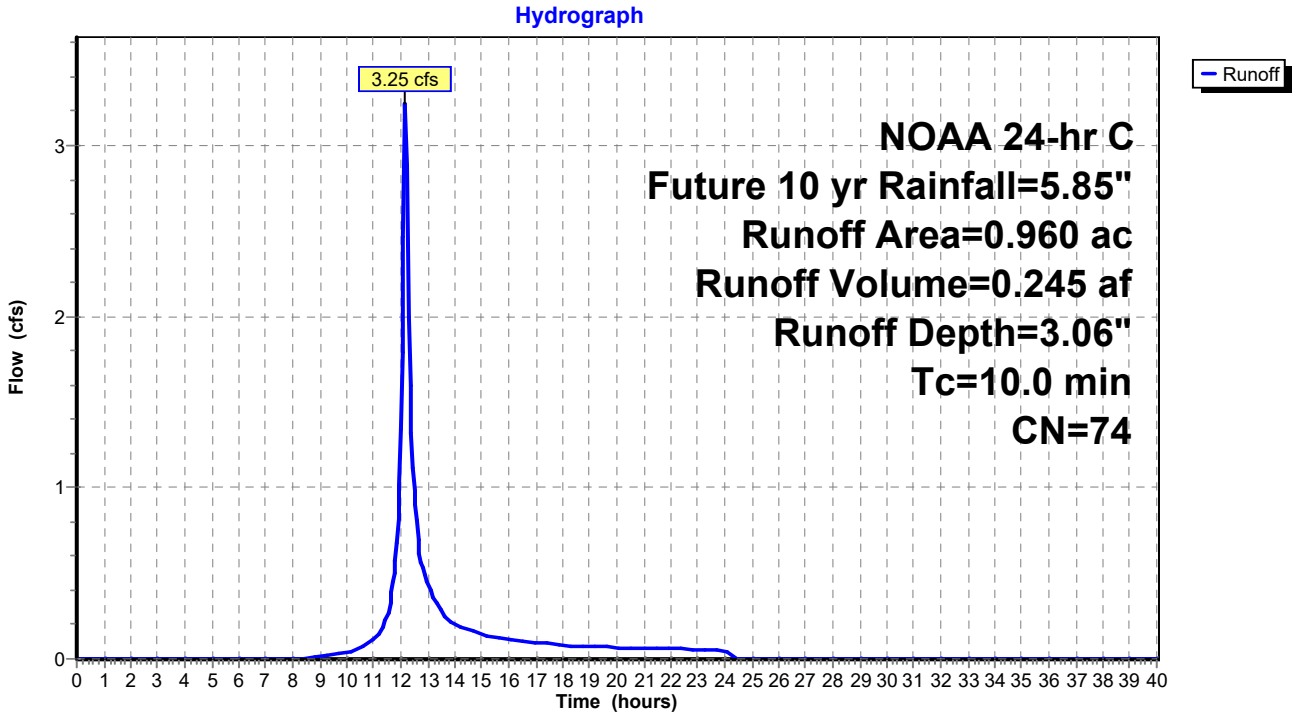
Runoff = 3.25 cfs @ 12.18 hrs, Volume= 0.245 af, Depth= 3.06"
Routed to Pond B-18 : Basin #18

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 Future 10 yr Rainfall=5.85"

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)



Summary for Subcatchment 19l: PDA-19 (impervious)

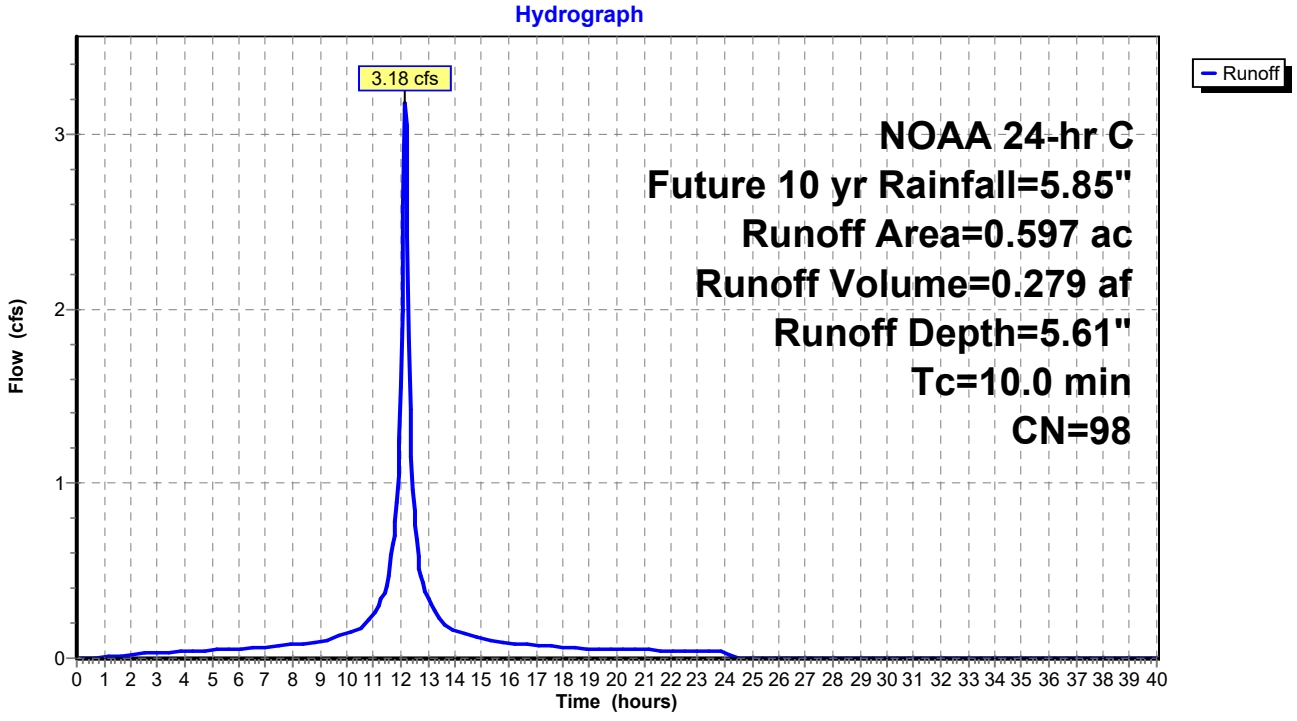
Runoff = 3.18 cfs @ 12.17 hrs, Volume= 0.279 af, Depth= 5.61"
Routed to Pond B-19 : Basin #19

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 Future 10 yr Rainfall=5.85"

	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 19l: PDA-19 (impervious)



Summary for Subcatchment 19P: PDA-19 (pervious)

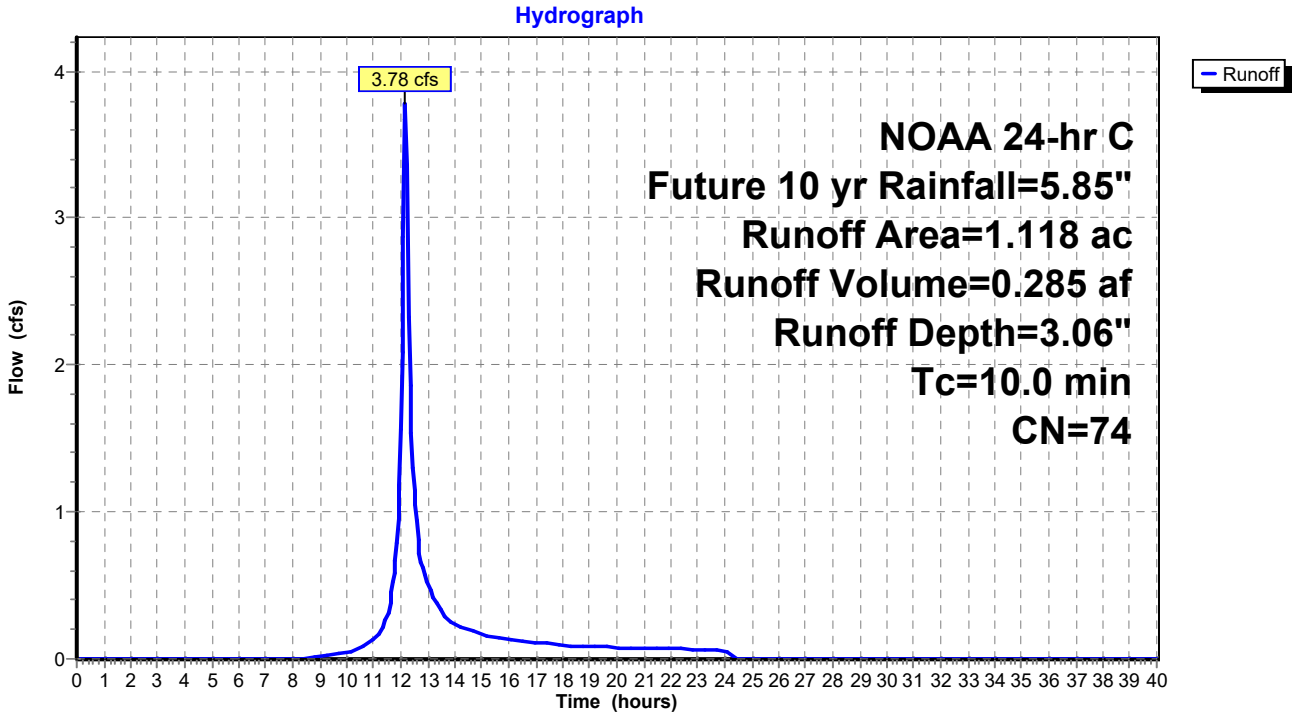
Runoff = 3.78 cfs @ 12.18 hrs, Volume= 0.285 af, Depth= 3.06"
Routed to Pond B-19 : Basin #19

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 Future 10 yr Rainfall=5.85"

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)



Summary for Subcatchment 20l: PDA-20 (impervious)

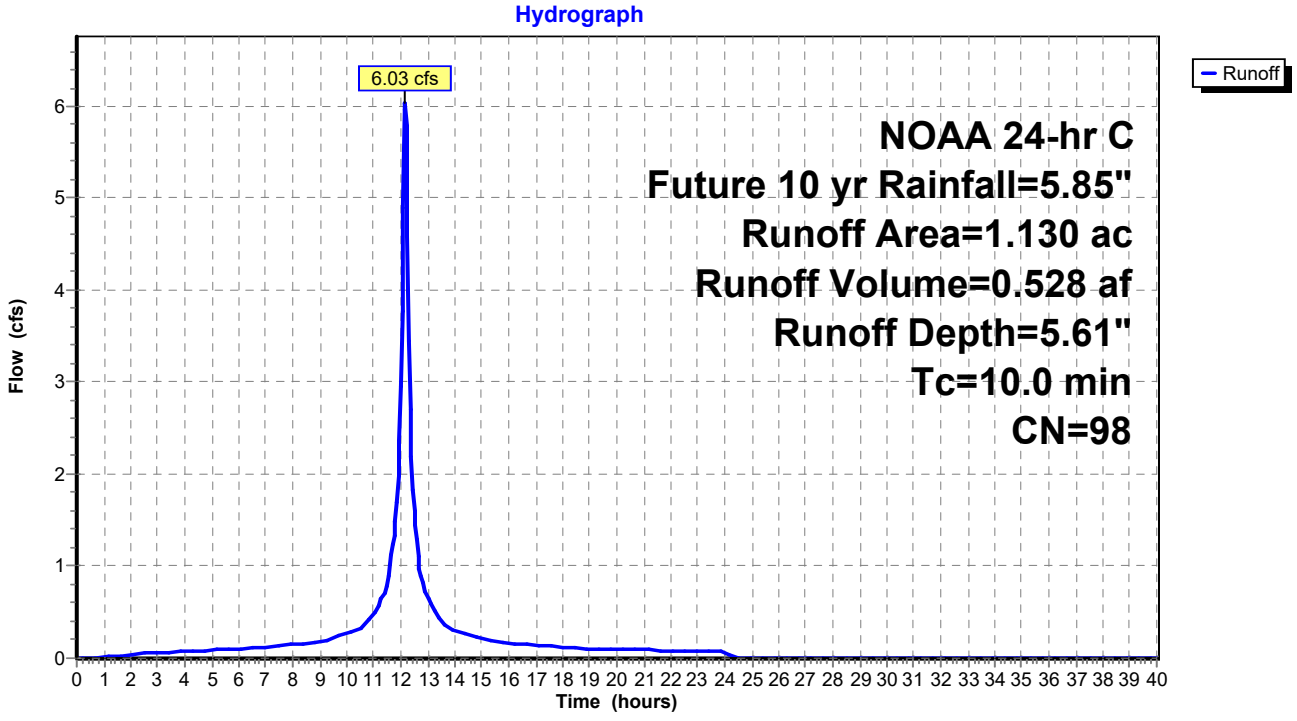
Runoff = 6.03 cfs @ 12.17 hrs, Volume= 0.528 af, Depth= 5.61"
Routed to Pond B-20 : Basin #20

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 Future 10 yr Rainfall=5.85"

	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 20l: PDA-20 (impervious)



Summary for Subcatchment 20P: PDA-20 (pervious)

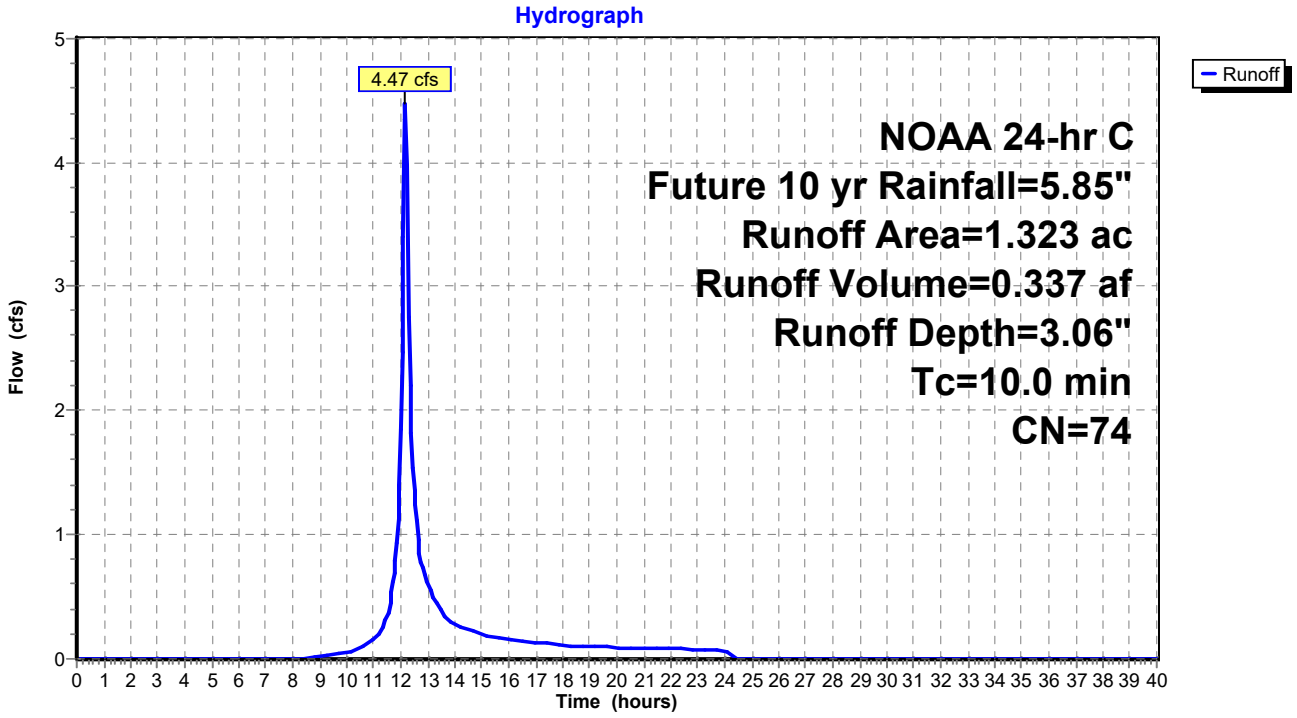
Runoff = 4.47 cfs @ 12.18 hrs, Volume= 0.337 af, Depth= 3.06"
Routed to Pond B-20 : Basin #20

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 Future 10 yr Rainfall=5.85"

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)



Summary for Subcatchment 21I: PDA-21 (impervious)

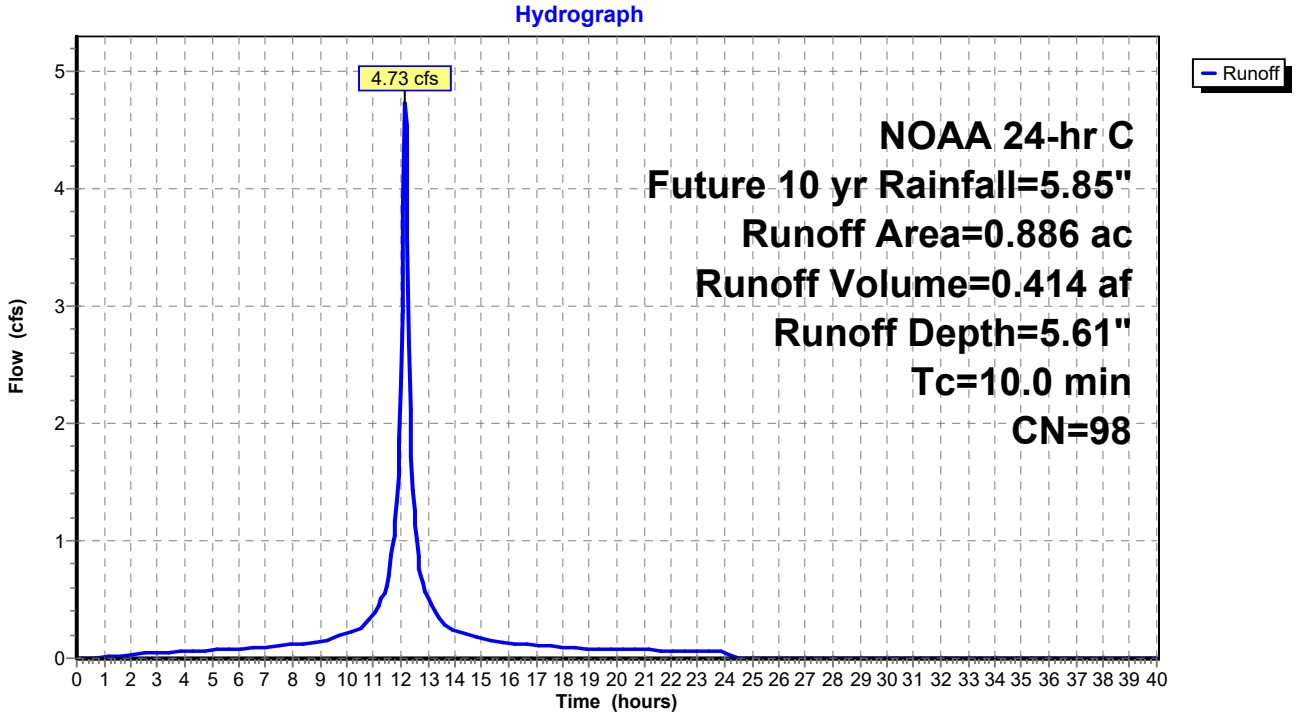
Runoff = 4.73 cfs @ 12.17 hrs, Volume= 0.414 af, Depth= 5.61"
Routed to Pond B-21 : Basin #21

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 Future 10 yr Rainfall=5.85"

	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)

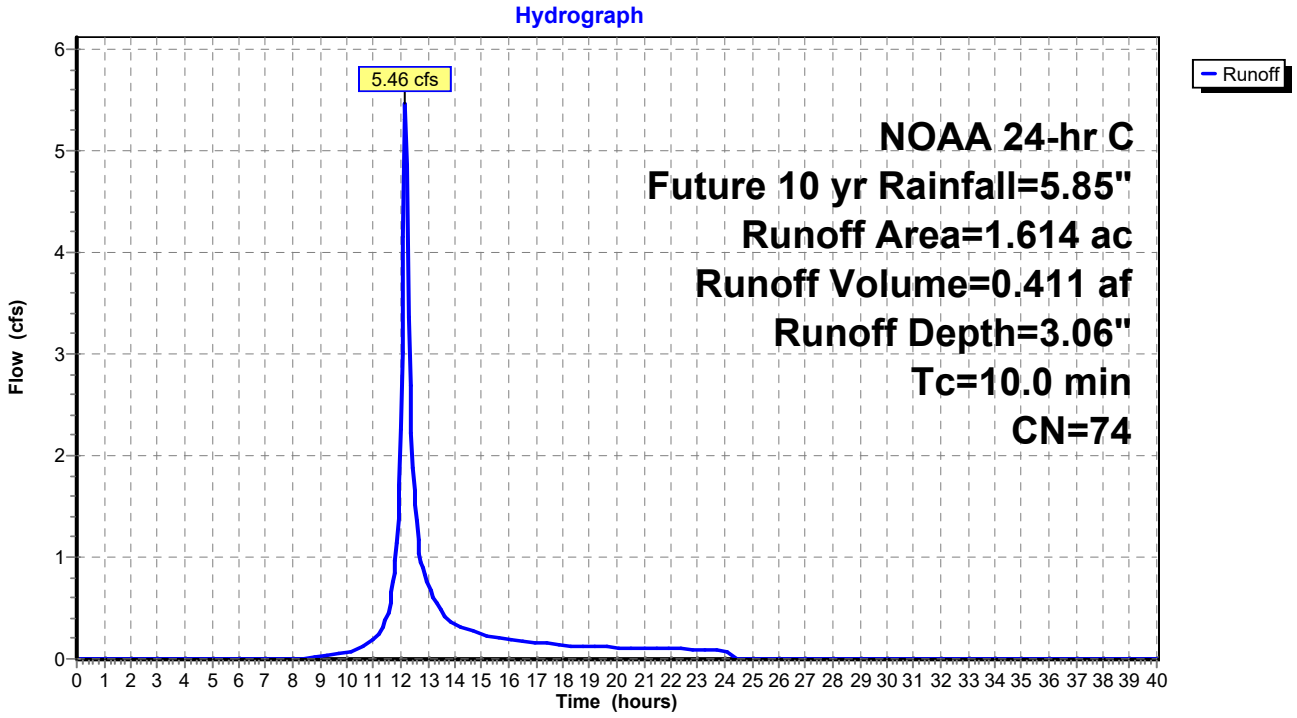
Runoff = 5.46 cfs @ 12.18 hrs, Volume= 0.411 af, Depth= 3.06"
Routed to Pond B-21 : Basin #21

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 Future 10 yr Rainfall=5.85"

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)



Summary for Subcatchment 22l: PDA-22 (impervious)

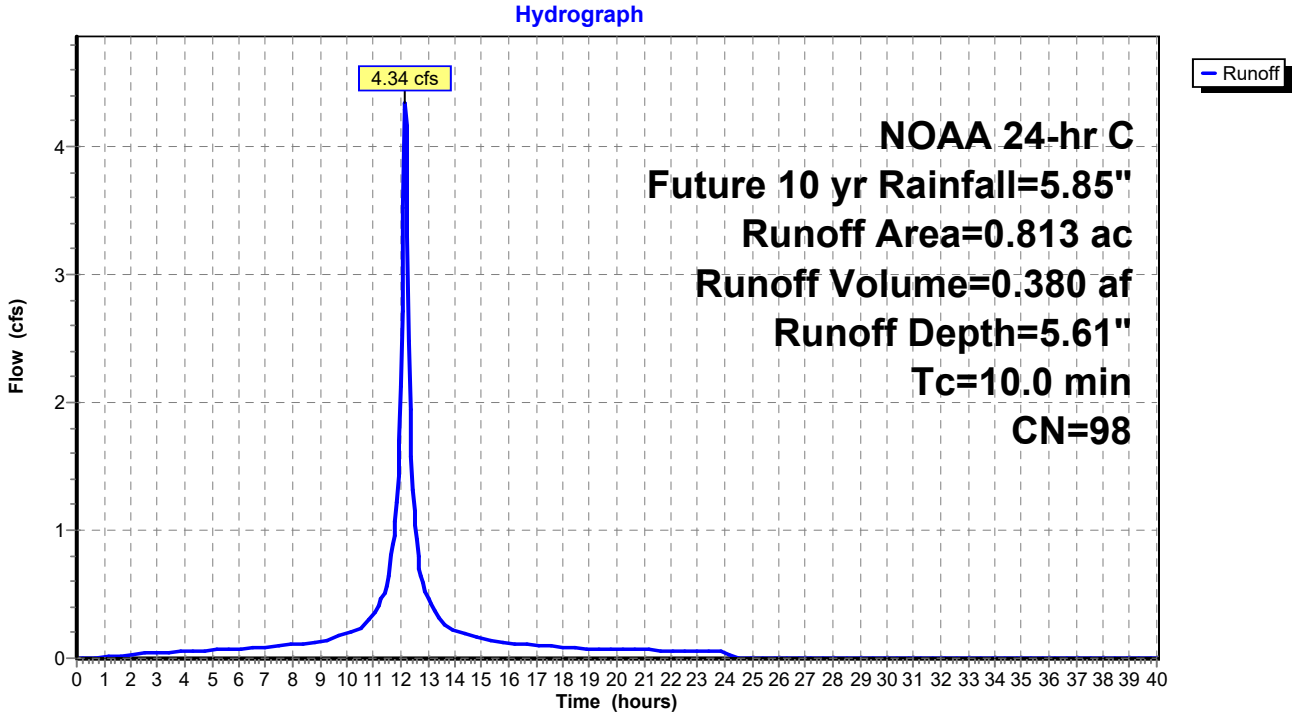
Runoff = 4.34 cfs @ 12.17 hrs, Volume= 0.380 af, Depth= 5.61"
Routed to Pond B-22 : Basin #22

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 Future 10 yr Rainfall=5.85"

	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 22l: PDA-22 (impervious)



Summary for Subcatchment 22P: PDA-22 (pervious)

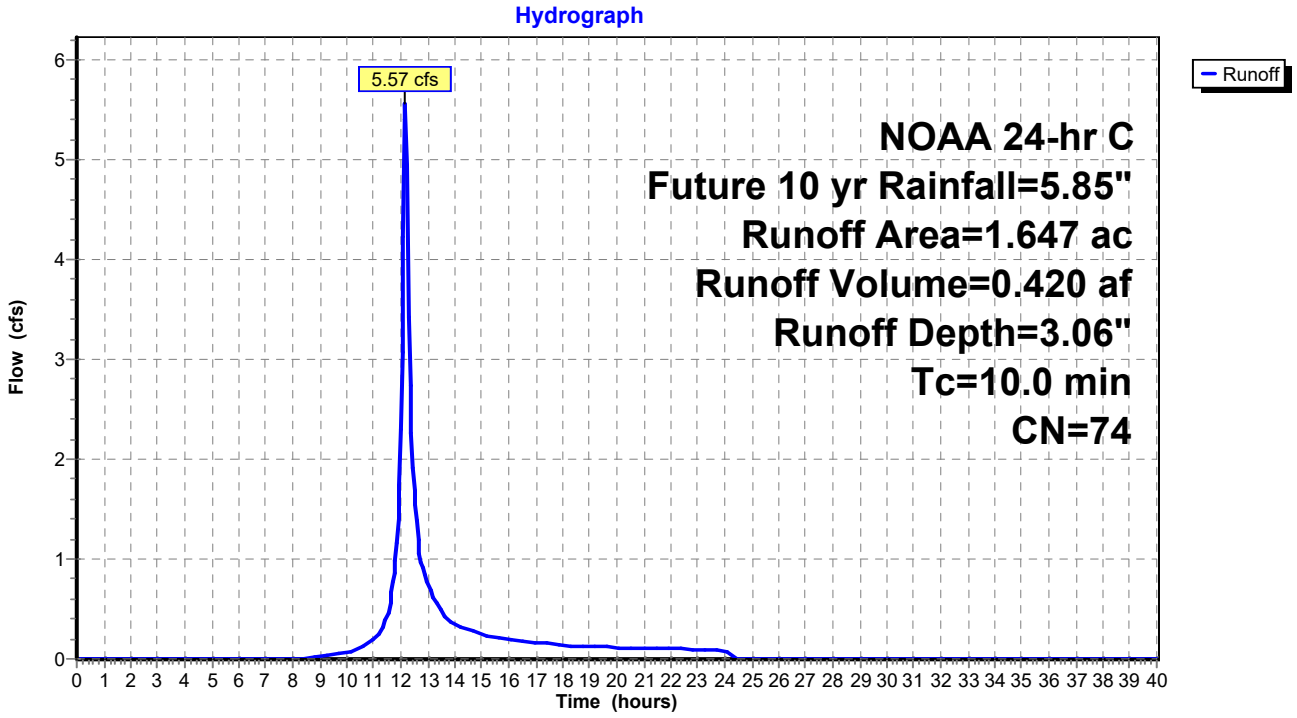
Runoff = 5.57 cfs @ 12.18 hrs, Volume= 0.420 af, Depth= 3.06"
Routed to Pond B-22 : Basin #22

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 Future 10 yr Rainfall=5.85"

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)



Summary for Subcatchment 23I: PDA-23 (impervious)

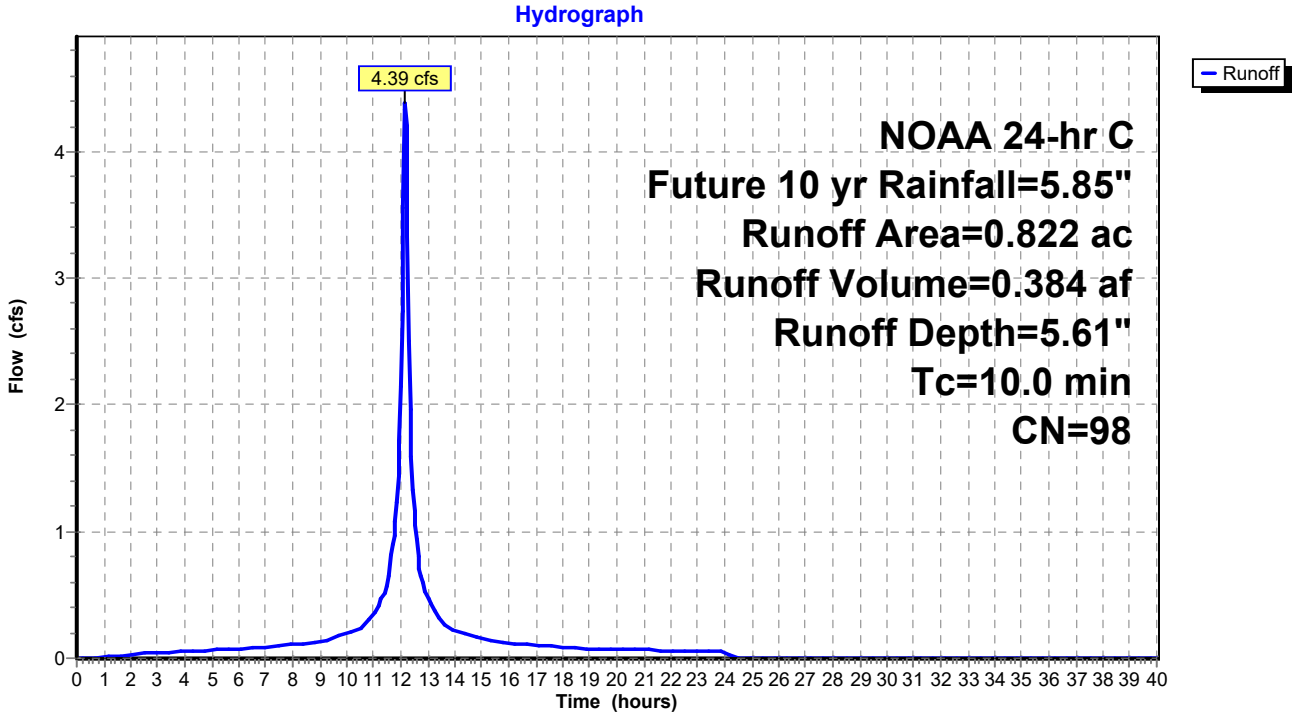
Runoff = 4.39 cfs @ 12.17 hrs, Volume= 0.384 af, Depth= 5.61"
Routed to Pond B-23 : Basin #23

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 Future 10 yr Rainfall=5.85"

	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)



Summary for Subcatchment 23P: PDA-23 (pervious)

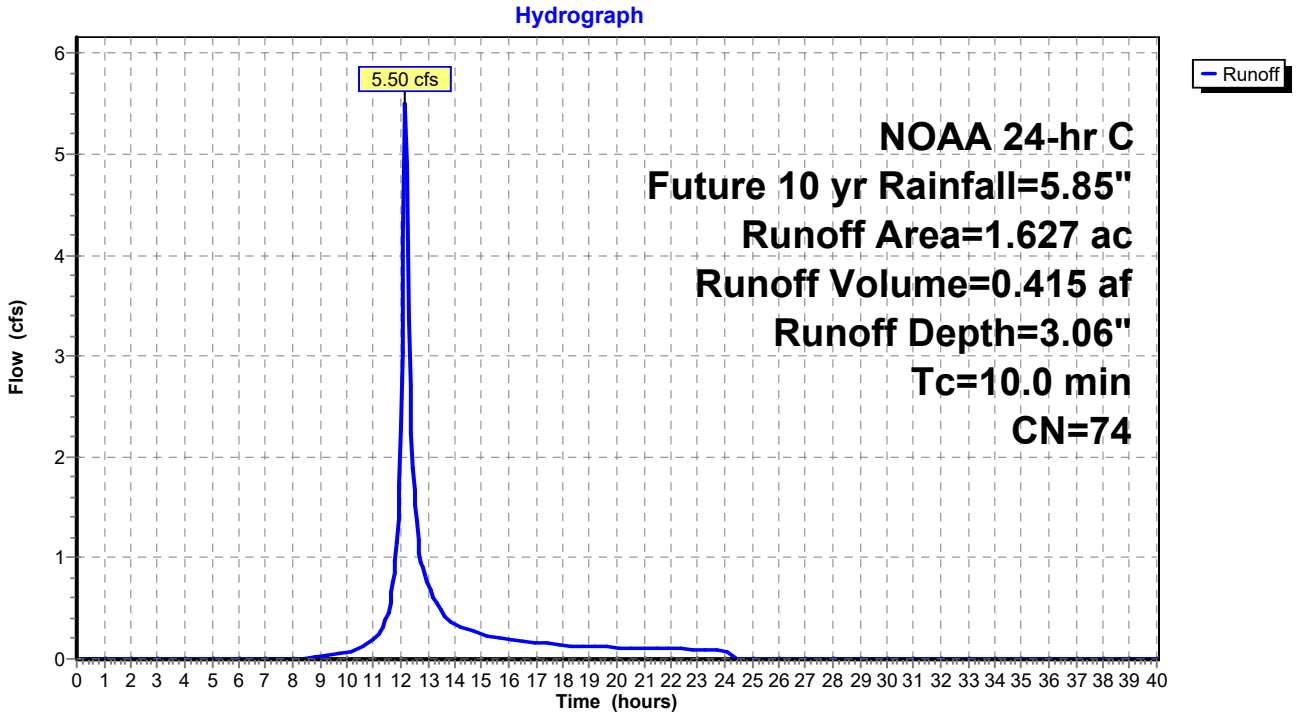
Runoff = 5.50 cfs @ 12.18 hrs, Volume= 0.415 af, Depth= 3.06"
Routed to Pond B-23 : Basin #23

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 Future 10 yr Rainfall=5.85"

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)



Summary for Subcatchment 24l: PDA-24 (impervious)

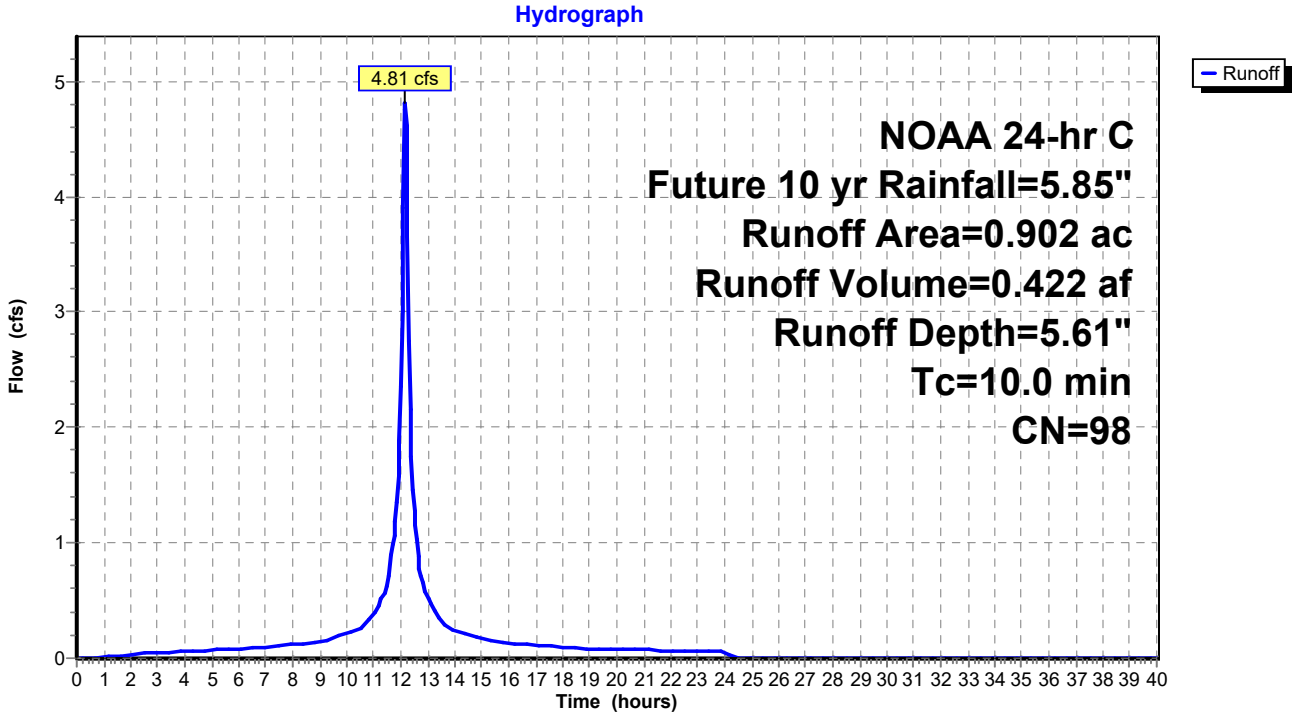
Runoff = 4.81 cfs @ 12.17 hrs, Volume= 0.422 af, Depth= 5.61"
Routed to Pond B-24 : Basin #24

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 Future 10 yr Rainfall=5.85"

	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 24l: PDA-24 (impervious)



Summary for Subcatchment 24P: PDA-24 (pervious)

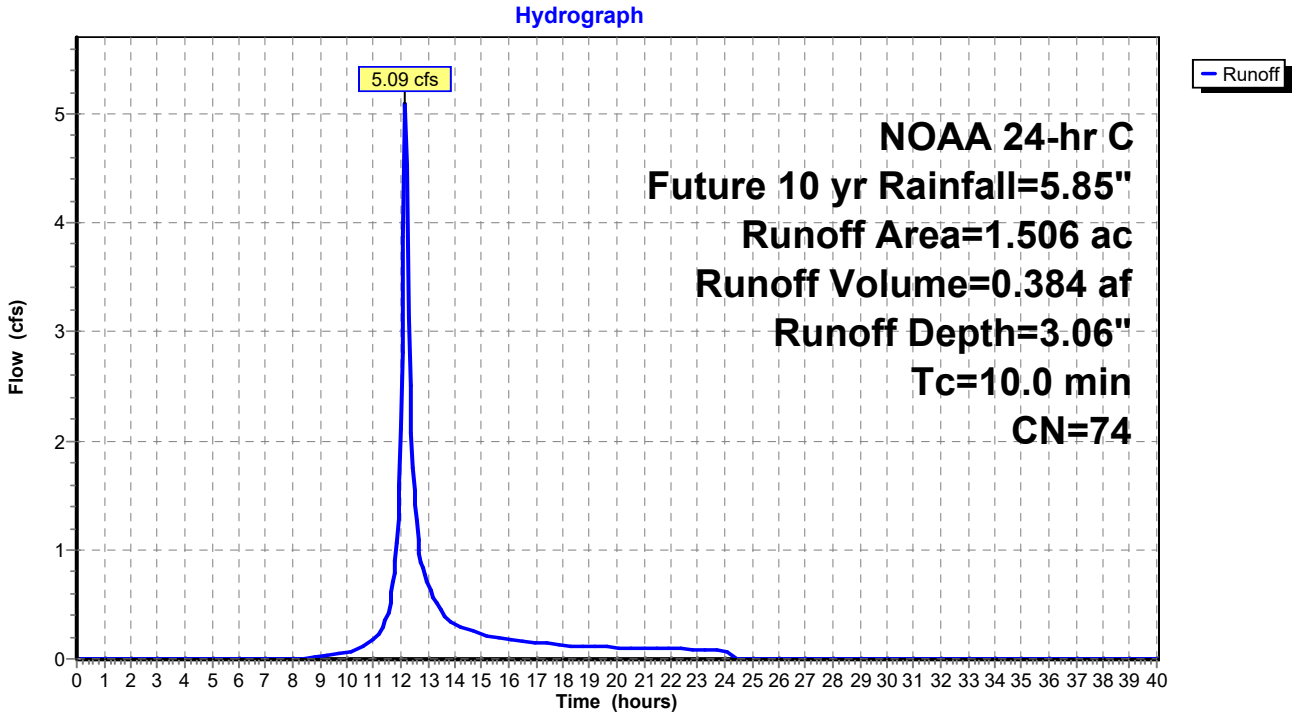
Runoff = 5.09 cfs @ 12.18 hrs, Volume= 0.384 af, Depth= 3.06"
Routed to Pond B-24 : Basin #24

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 Future 10 yr Rainfall=5.85"

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)



Summary for Subcatchment 25l: PDA-25 (impervious)

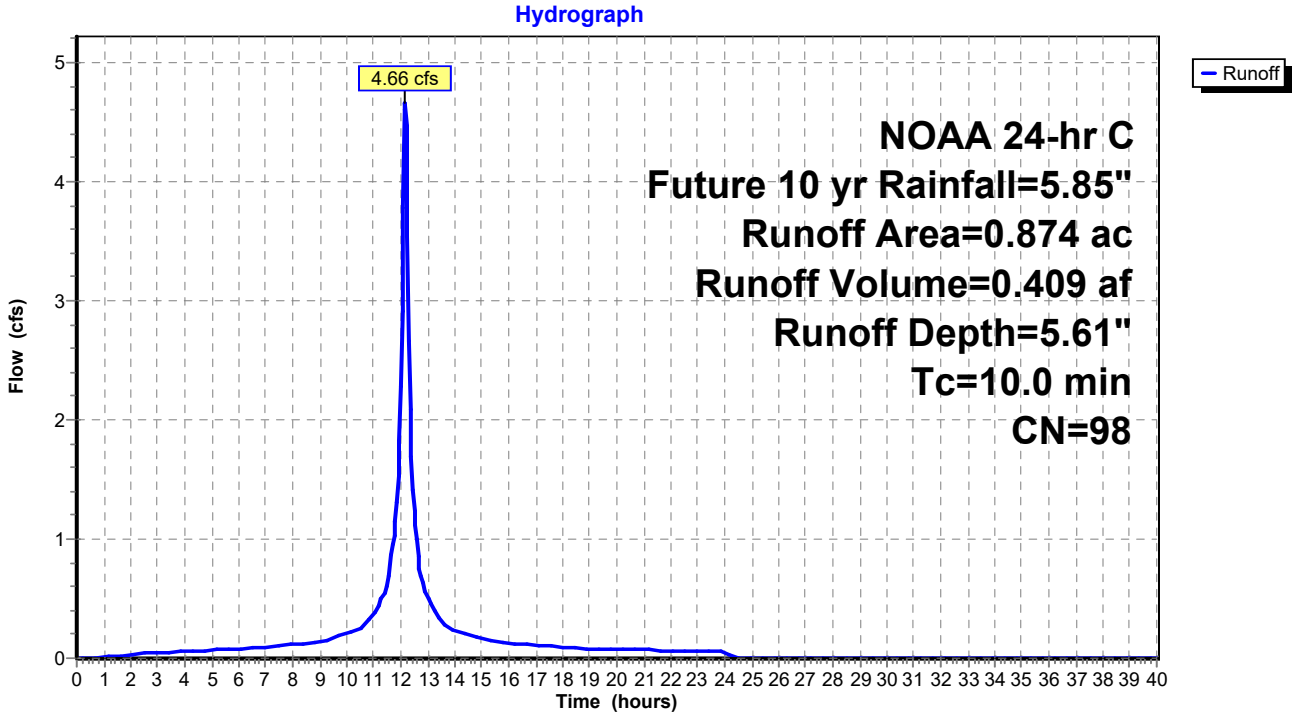
Runoff = 4.66 cfs @ 12.17 hrs, Volume= 0.409 af, Depth= 5.61"
Routed to Pond B-25 : Basin #25

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 Future 10 yr Rainfall=5.85"

	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 25l: PDA-25 (impervious)



Summary for Subcatchment 25P: PDA-25 (pervious)

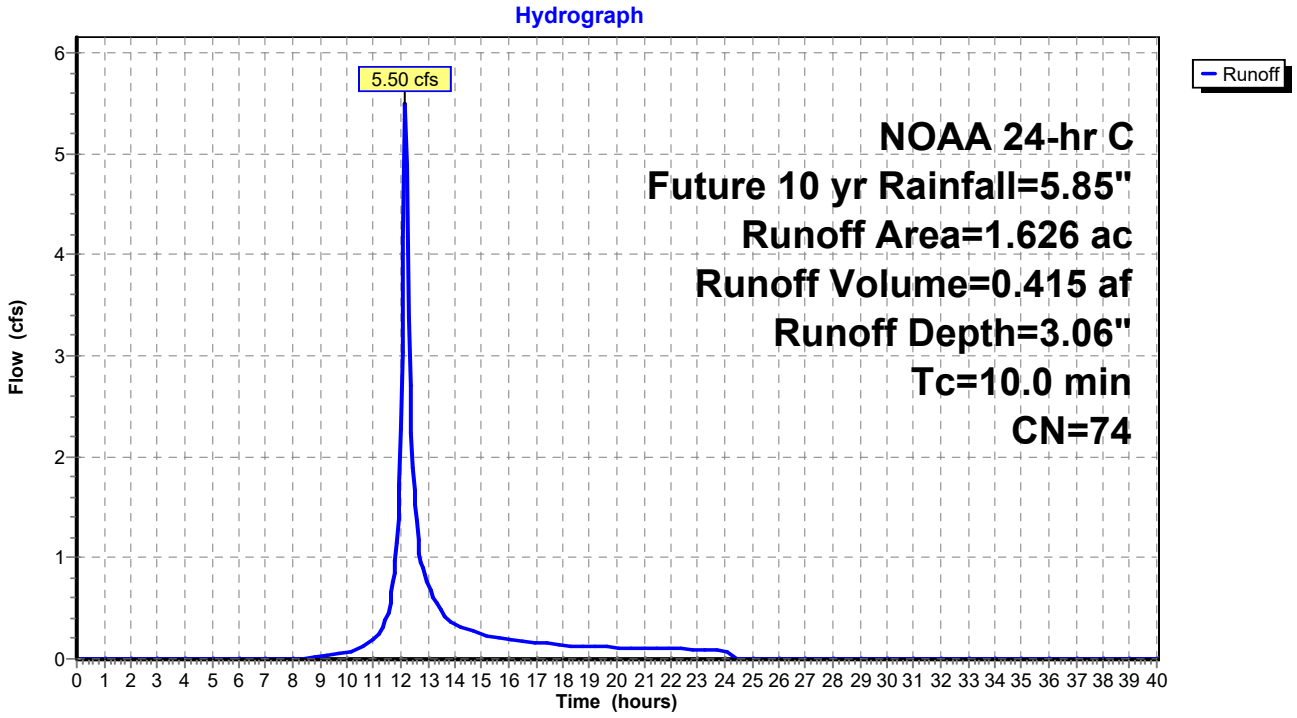
Runoff = 5.50 cfs @ 12.18 hrs, Volume= 0.415 af, Depth= 3.06"
Routed to Pond B-25 : Basin #25

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 Future 10 yr Rainfall=5.85"

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)



Summary for Subcatchment 26l: PDA-26 (impervious)

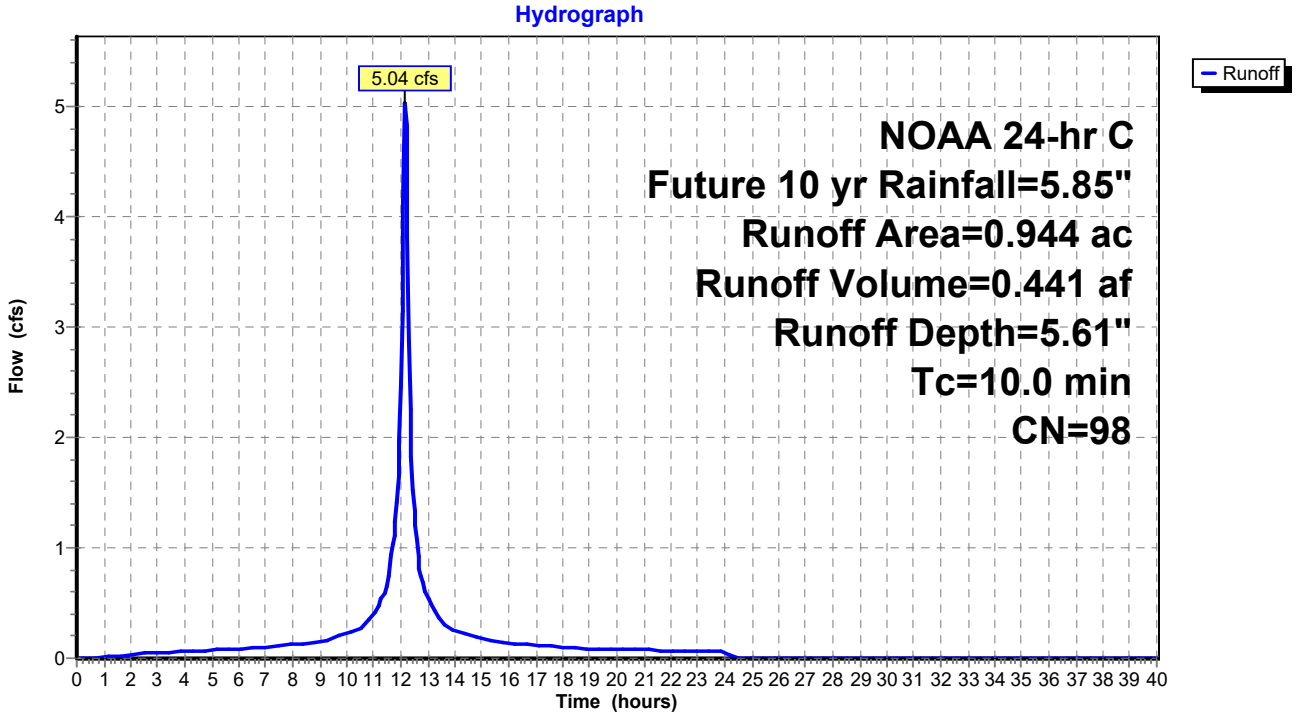
Runoff = 5.04 cfs @ 12.17 hrs, Volume= 0.441 af, Depth= 5.61"
Routed to Pond B-26 : Basin #26

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 Future 10 yr Rainfall=5.85"

	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 26l: PDA-26 (impervious)



Summary for Subcatchment 26P: PDA-26 (pervious)

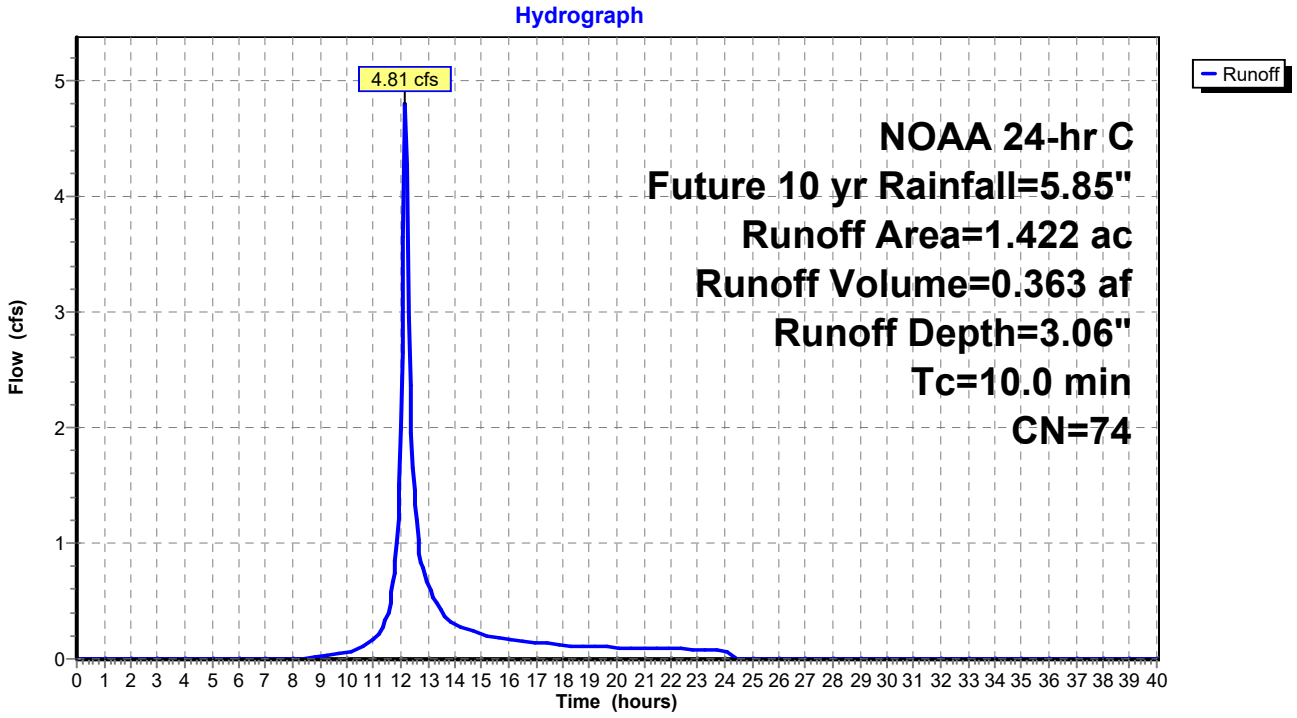
Runoff = 4.81 cfs @ 12.18 hrs, Volume= 0.363 af, Depth= 3.06"
Routed to Pond B-26 : Basin #26

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 Future 10 yr Rainfall=5.85"

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)



Summary for Subcatchment 27I: PDA-27 (impervious)

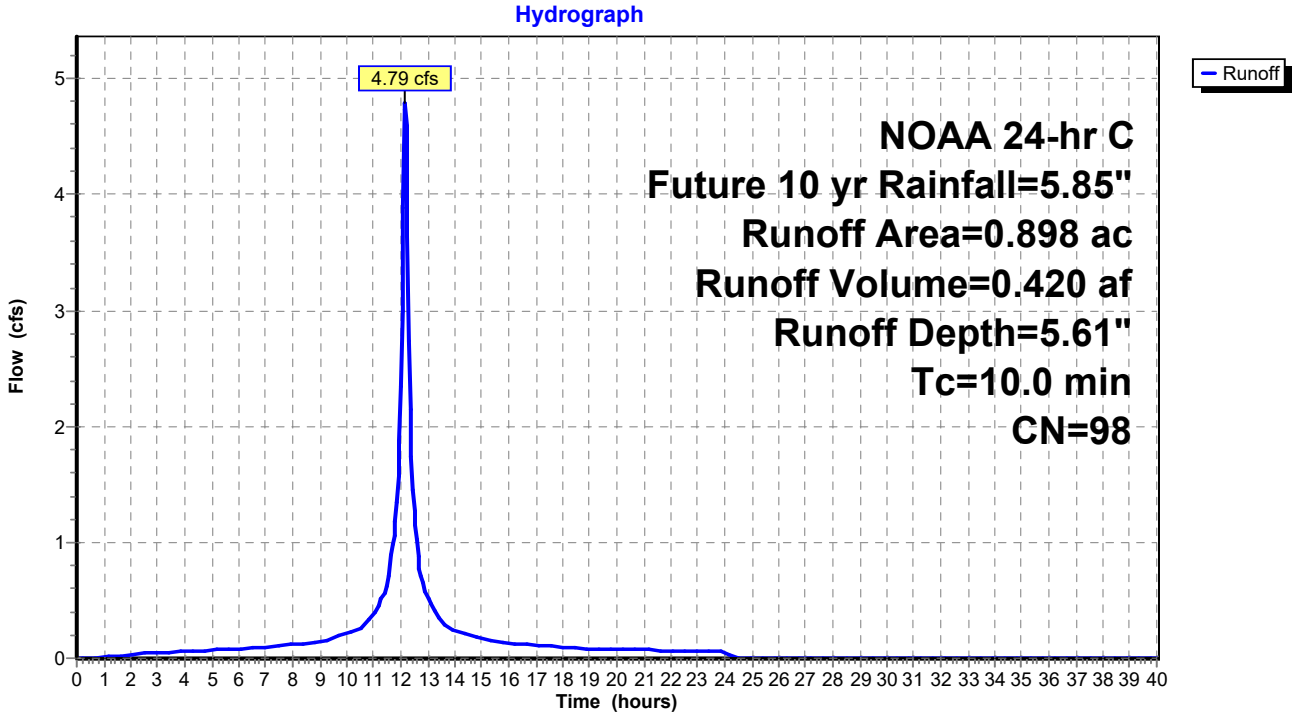
Runoff = 4.79 cfs @ 12.17 hrs, Volume= 0.420 af, Depth= 5.61"
Routed to Pond B-27 : Basin #27

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 Future 10 yr Rainfall=5.85"

	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)



Summary for Subcatchment 27P: PDA-27 (pervious)

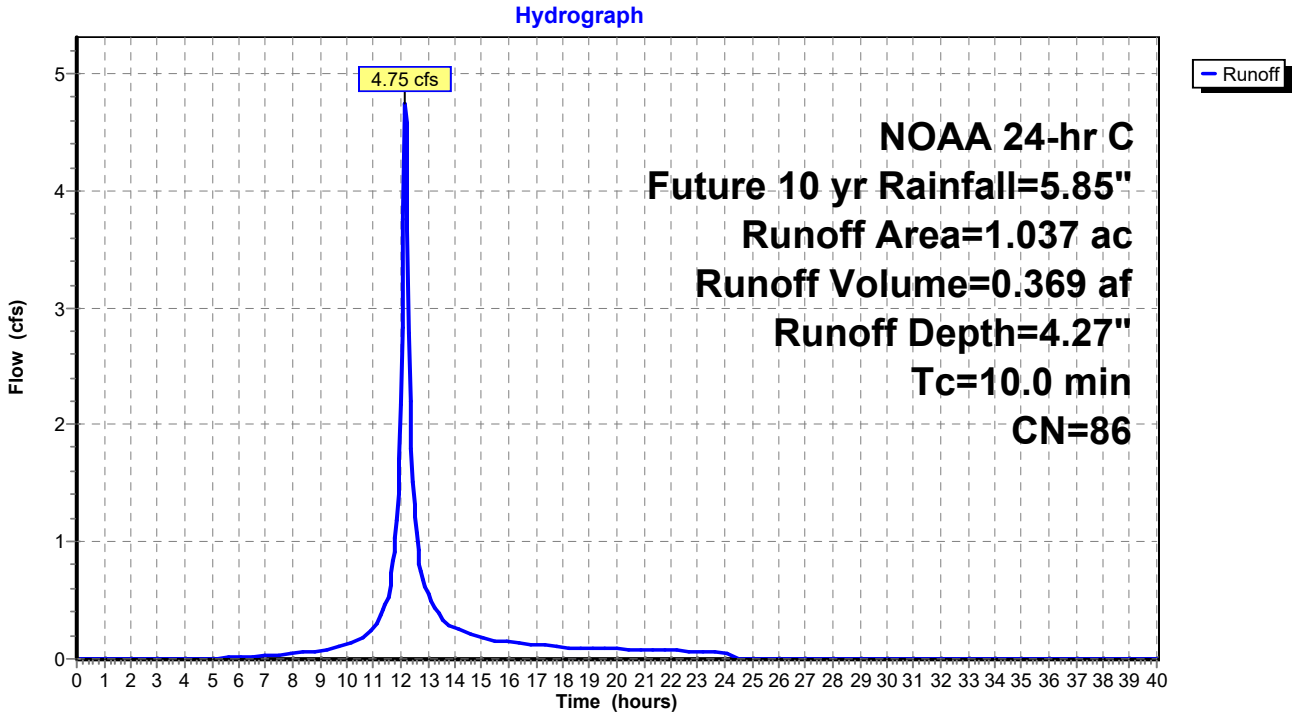
Runoff = 4.75 cfs @ 12.17 hrs, Volume= 0.369 af, Depth= 4.27"
Routed to Pond B-27 : Basin #27

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 Future 10 yr Rainfall=5.85"

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)



Summary for Subcatchment 28I: PDA-28 (impervious)

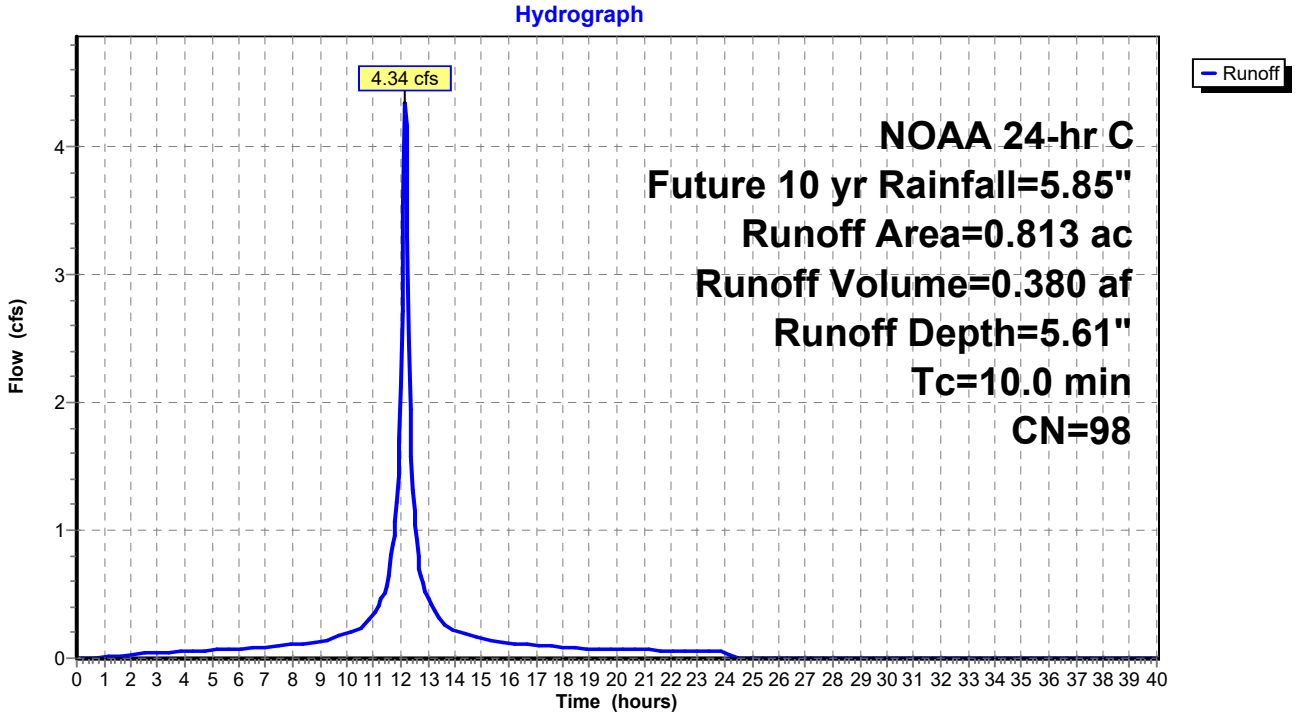
Runoff = 4.34 cfs @ 12.17 hrs, Volume= 0.380 af, Depth= 5.61"
Routed to Pond B-28 : Basin #28

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 Future 10 yr Rainfall=5.85"

	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)



Summary for Subcatchment 28P: PDA-28 (pervious)

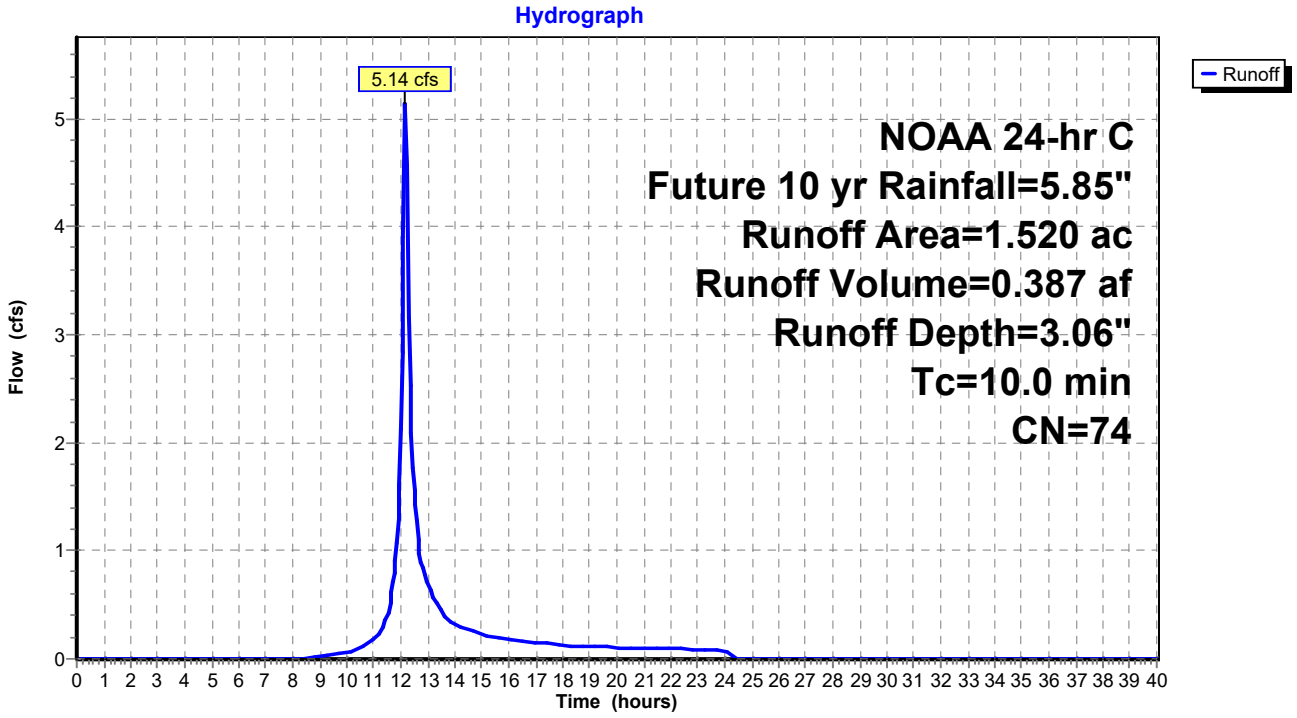
Runoff = 5.14 cfs @ 12.18 hrs, Volume= 0.387 af, Depth= 3.06"
Routed to Pond B-28 : Basin #28

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 Future 10 yr Rainfall=5.85"

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)



Summary for Subcatchment UPDA-2: PDA-2 (undetained)

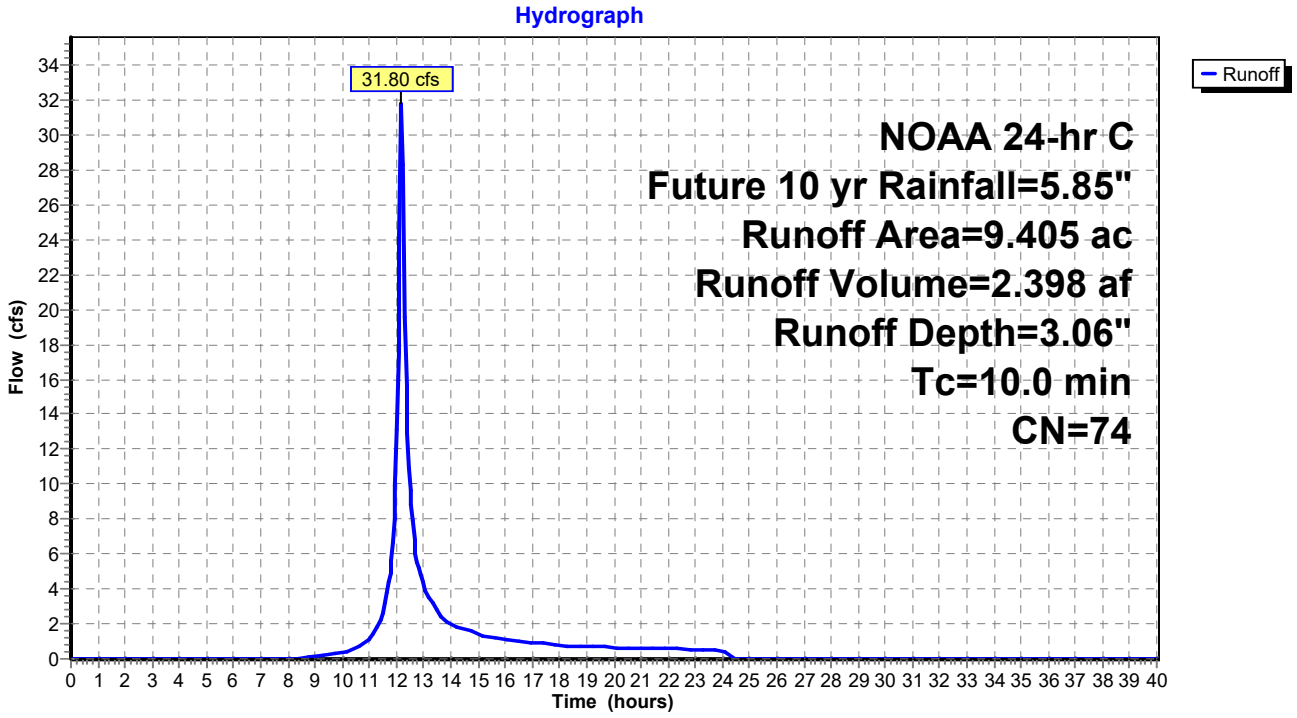
Runoff = 31.80 cfs @ 12.18 hrs, Volume= 2.398 af, Depth= 3.06"
Routed to Link PDA-2 : Proposed Drainage Area #2

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 Future 10 yr Rainfall=5.85"

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)



Summary for Pond B-18: Basin #18

Inflow Area = 1.410 ac, 31.91% Impervious, Inflow Depth = 3.87" for Future 10 yr event
Inflow = 5.65 cfs @ 12.17 hrs, Volume= 0.455 af
Outflow = 3.73 cfs @ 12.29 hrs, Volume= 0.410 af, Atten= 34%, Lag= 7.1 min
Primary = 3.73 cfs @ 12.29 hrs, Volume= 0.410 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= 189.76' @ 12.29 hrs Surf.Area= 3,089 sf Storage= 7,864 cf

Plug-Flow detention time= 261.4 min calculated for 0.410 af (90% of inflow)
Center-of-Mass det. time= 211.2 min (1,007.9 - 796.7)

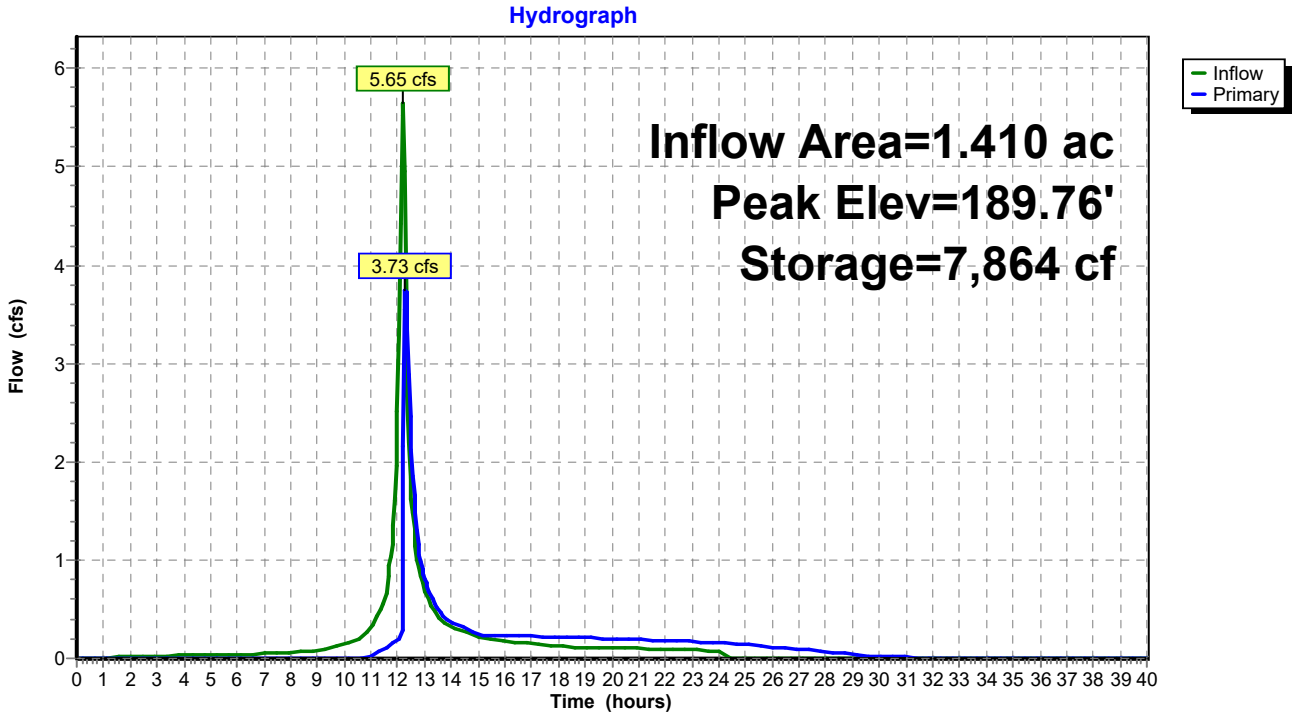
Volume	Invert	Avail.Storage	Storage Description
#1	185.65'	12,198 cf	**Custom Stage Data (Prismatic)** Listed below (Recalc)

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=3.69 cfs @ 12.29 hrs HW=189.76' (Free Discharge)
- **1=Culvert** (Passes 3.69 cfs of 10.46 cfs potential flow)
  - **2=Orifice/Grate** (Orifice Controls 0.25 cfs @ 7.46 fps)
  - **3=Sharp-Crested Rectangular Weir** (Weir Controls 3.44 cfs @ 2.11 fps)
- **4=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)

Pond B-18: Basin #18



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 = 3.95" for Future 10 yr event
Inflow = 6.97 cfs @ 12.17 hrs, Volume= 0.564 af
Outflow = 4.67 cfs @ 12.29 hrs, Volume= 0.504 af, Atten= 33%, Lag= 6.8 min
Primary = 4.67 cfs @ 12.29 hrs, Volume= 0.504 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= 198.24' @ 12.29 hrs Surf.Area= 3,987 sf Storage= 9,757 cf

Plug-Flow detention time= 292.6 min calculated for 0.503 af (89% of inflow)
Center-of-Mass det. time= 239.3 min (1,033.3 - 793.9)

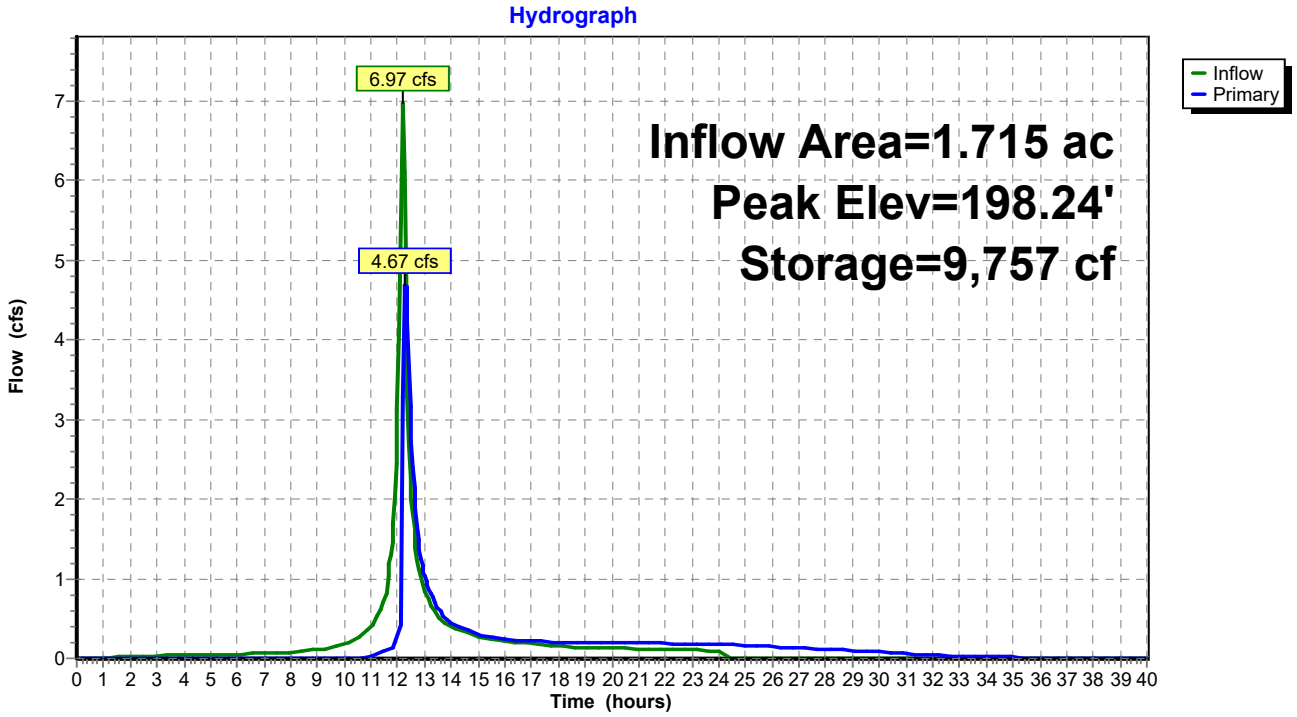
Volume	Invert	Avail.Storage	Storage Description
#1	194.65'	12,982 cf	**Custom Stage Data (Prismatic)** Listed below (Recalc)

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=4.62 cfs @ 12.29 hrs HW=198.24' (Free Discharge)
- **1=Culvert** (Passes 4.62 cfs of 15.20 cfs potential flow)
  - **2=Orifice/Grate** (Orifice Controls 0.24 cfs @ 7.04 fps)
  - **3=Sharp-Crested Rectangular Weir** (Weir Controls 4.38 cfs @ 2.29 fps)
- **4=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)

Pond B-19: Basin #19



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 = 4.24" for Future 10 yr event
Inflow = 10.50 cfs @ 12.17 hrs, Volume= 0.866 af
Outflow = 6.00 cfs @ 12.31 hrs, Volume= 0.731 af, Atten= 43%, Lag= 8.6 min
Primary = 6.00 cfs @ 12.31 hrs, Volume= 0.731 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= 153.34' @ 12.32 hrs Surf.Area= 7,799 sf Storage= 16,435 cf

Plug-Flow detention time= 349.0 min calculated for 0.731 af (84% of inflow)
Center-of-Mass det. time= 278.3 min (1,062.1 - 783.9)

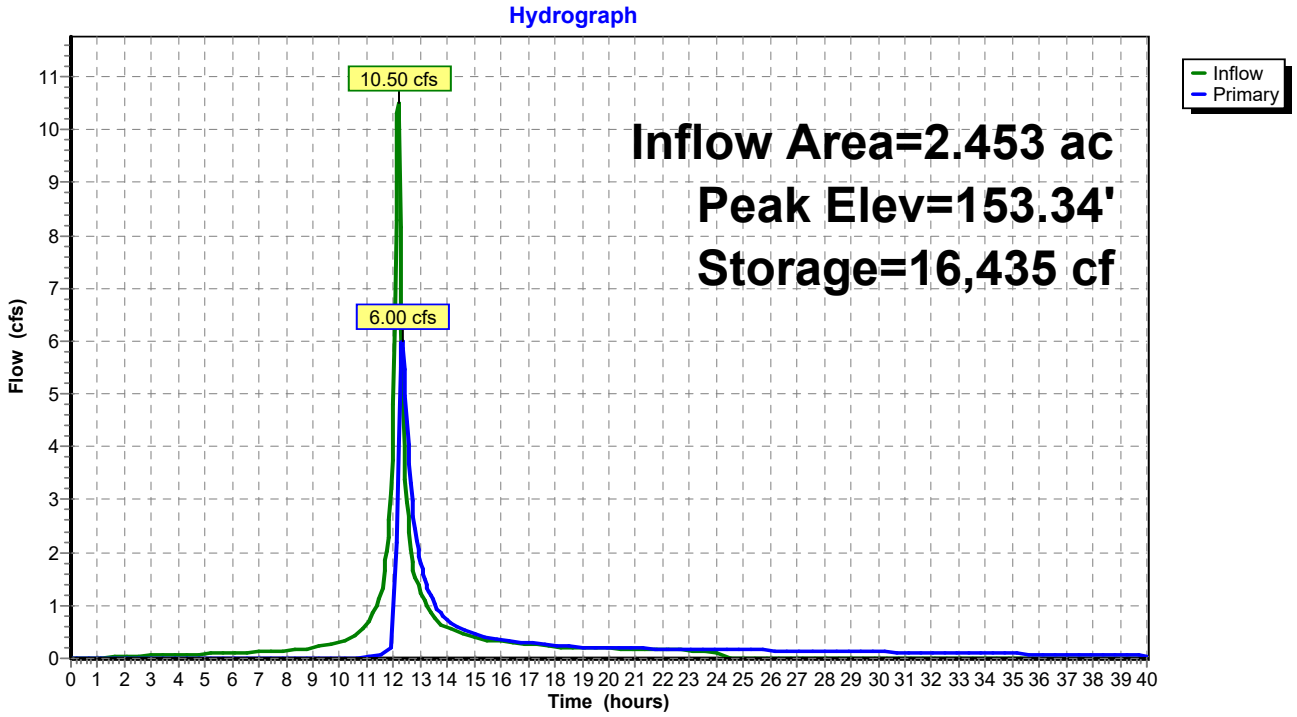
Volume	Invert	Avail.Storage	Storage Description
#1	150.87'	35,230 cf	**Custom Stage Data (Prismatic)** Listed below (Recalc)

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=5.93 cfs @ 12.31 hrs HW=153.34' (Free Discharge)
- **1=Culvert** (Passes 5.93 cfs of 10.57 cfs potential flow)
  - **2=Orifice/Grate** (Orifice Controls 0.20 cfs @ 6.00 fps)
  - **3=Sharp-Crested Rectangular Weir** (Weir Controls 5.73 cfs @ 2.51 fps)
- **4=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)

Pond B-20: Basin #20



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)
151.91	6,636	6,101
151.92	6,644	6,167
151.93	6,651	6,234
151.94	6,659	6,300
151.95	6,667	6,367
151.96	6,675	6,434
151.97	6,683	6,500
151.98	6,690	6,567
151.99	6,698	6,634
152.00	6,706	6,701
152.01	6,714	6,768
152.02	6,722	6,835
152.03	6,730	6,903
152.04	6,738	6,970
152.05	6,746	7,038
152.06	6,754	7,105
152.07	6,763	7,173
152.08	6,771	7,240
152.09	6,779	7,308
152.10	6,787	7,376
152.11	6,795	7,444
152.12	6,803	7,512
152.13	6,811	7,580
152.14	6,819	7,648
152.15	6,827	7,716
152.16	6,835	7,784
152.17	6,843	7,853
152.18	6,851	7,921
152.19	6,860	7,990
152.20	6,868	8,059
152.21	6,876	8,127
152.22	6,884	8,196
152.23	6,892	8,265
152.24	6,900	8,334
152.25	6,908	8,403
152.26	6,916	8,472
152.27	6,924	8,541
152.28	6,932	8,611
152.29	6,940	8,680
152.30	6,948	8,749
152.31	6,956	8,819
152.32	6,965	8,888
152.33	6,973	8,958
152.34	6,981	9,028
152.35	6,989	9,098
152.36	6,997	9,168
152.37	7,005	9,238
152.38	7,013	9,308
152.39	7,021	9,378
152.40	7,029	9,448
152.41	7,037	9,519
152.42	7,045	9,589
152.43	7,053	9,659
152.44	7,062	9,730
152.45	7,070	9,801
152.46	7,078	9,871
152.47	7,086	9,942
152.48	7,094	10,013
152.49	7,102	10,084
152.50	7,110	10,155
152.51	7,118	10,226
152.52	7,126	10,298
152.53	7,134	10,369
152.54	7,142	10,440
152.55	7,150	10,512
152.56	7,158	10,583
152.57	7,167	10,655
152.58	7,175	10,727
152.59	7,183	10,798
152.60	7,191	10,870
152.61	7,199	10,942
152.62	7,207	11,014
152.63	7,215	11,086
152.64	7,223	11,159
152.65	7,231	11,231
152.66	7,239	11,303
152.67	7,247	11,376
152.68	7,255	11,448
152.69	7,264	11,521
152.70	7,272	11,593
152.71	7,280	11,666
152.72	7,288	11,739
152.73	7,296	11,812
152.74	7,304	11,885
152.75	7,312	11,958
152.76	7,320	12,031
152.77	7,328	12,104
152.78	7,336	12,178
152.79	7,344	12,251
152.80	7,352	12,325
152.81	7,360	12,398
152.82	7,369	12,472
152.83	7,377	12,545
152.84	7,385	12,619
152.85	7,393	12,693
152.86	7,401	12,767
152.87	7,409	12,841
152.88	7,417	12,915
152.89	7,425	12,990
152.90	7,433	13,064
152.91	7,441	13,138
152.92	7,449	13,213
152.93	7,457	13,287
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 = 3.96" for Future 10 yr event
Inflow = 10.19 cfs @ 12.17 hrs, Volume= 0.826 af
Outflow = 3.88 cfs @ 12.41 hrs, Volume= 0.698 af, Atten= 62%, Lag= 14.3 min
Primary = 3.88 cfs @ 12.41 hrs, Volume= 0.698 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= 152.76' @ 12.41 hrs Surf.Area= 7,555 sf Storage= 17,286 cf

Plug-Flow detention time= 434.7 min calculated for 0.698 af (84% of inflow)
Center-of-Mass det. time= 365.5 min (1,158.8 - 793.3)

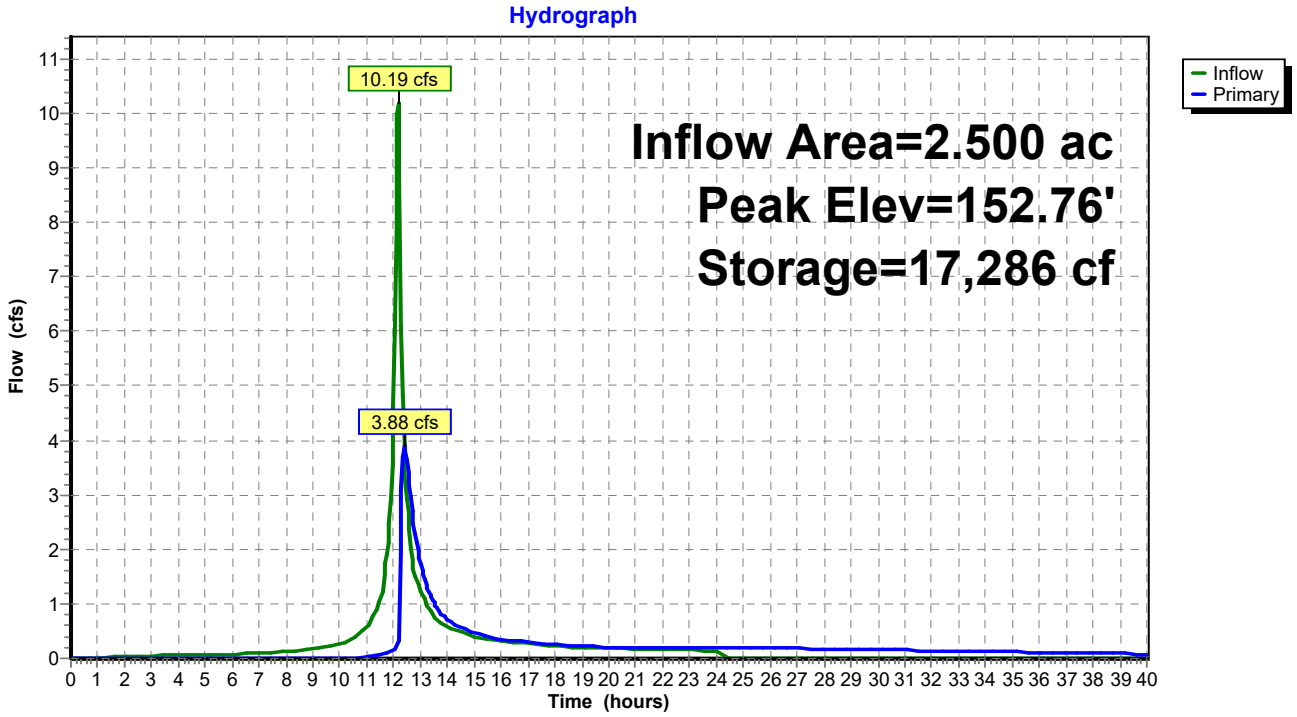
Volume	Invert	Avail.Storage	Storage Description
#1	149.90'	42,109 cf	**Custom Stage Data (Prismatic)** Listed below (Recalc)

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=3.86 cfs @ 12.41 hrs HW=152.76' (Free Discharge)
- **1=Culvert** (Passes 3.86 cfs of 14.01 cfs potential flow)
  - **2=Orifice/Grate** (Orifice Controls 0.23 cfs @ 6.77 fps)
  - **3=Sharp-Crested Rectangular Weir** (Weir Controls 3.63 cfs @ 2.15 fps)
- **4=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)

Pond B-21: Basin #21



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 = 3.90" for Future 10 yr event
Inflow = 9.91 cfs @ 12.17 hrs, Volume= 0.800 af
Outflow = 3.32 cfs @ 12.45 hrs, Volume= 0.663 af, Atten= 66%, Lag= 16.6 min
Primary = 3.32 cfs @ 12.45 hrs, Volume= 0.663 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= 149.86' @ 12.45 hrs Surf.Area= 8,853 sf Storage= 17,068 cf

Plug-Flow detention time= 436.0 min calculated for 0.662 af (83% of inflow)
Center-of-Mass det. time= 362.0 min (1,157.7 - 795.6)

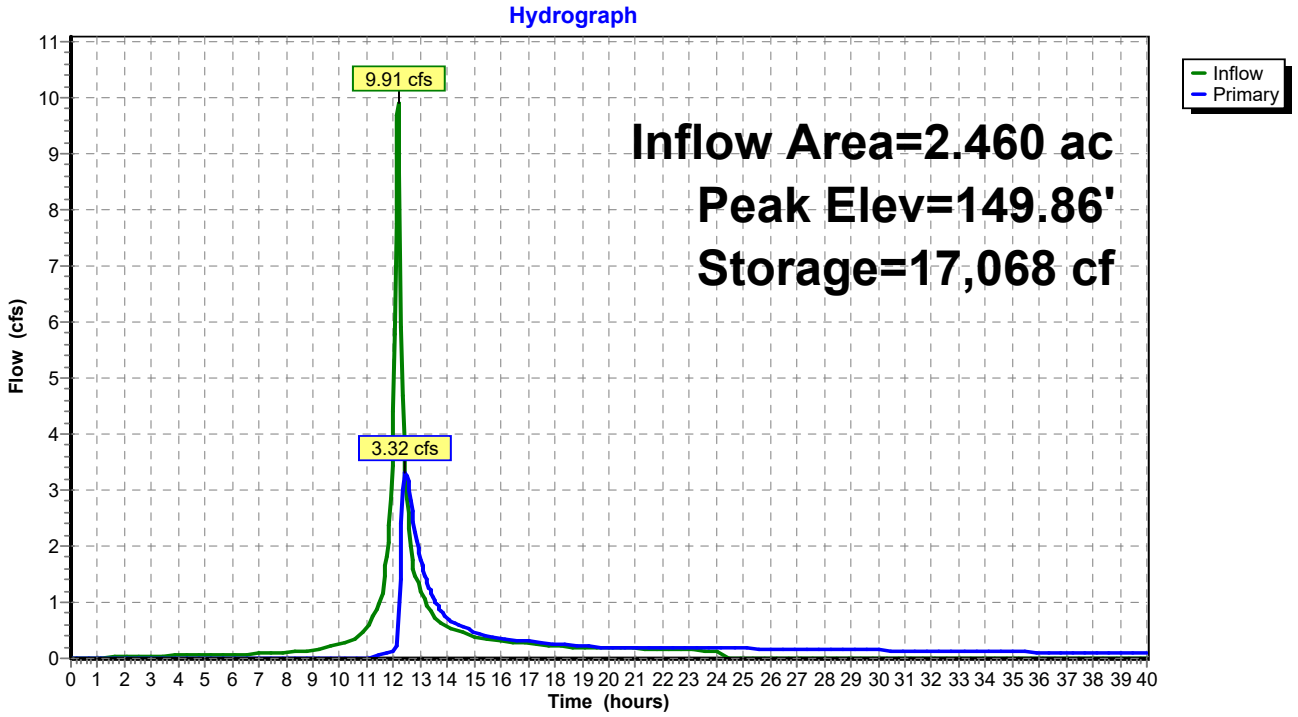
Volume	Invert	Avail.Storage	Storage Description
#1	147.30'	50,528 cf	**Custom Stage Data (Prismatic)** Listed below (Recalc)

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=3.32 cfs @ 12.45 hrs HW=149.86' (Free Discharge)
- **1=Culvert** (Passes 3.32 cfs of 11.44 cfs potential flow)
  - **2=Orifice/Grate** (Orifice Controls 0.21 cfs @ 6.10 fps)
  - **3=Sharp-Crested Rectangular Weir** (Weir Controls 3.11 cfs @ 2.04 fps)
- **4=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)

Pond B-22: Basin #22



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)
147.30	0	0
147.31	99	0
147.32	198	2
147.33	297	4
147.34	396	8
147.35	495	12
147.36	594	18
147.37	693	24
147.38	792	32
147.39	891	40
147.40	990	49
147.41	1,089	60
147.42	1,188	71
147.43	1,287	84
147.44	1,386	97
147.45	1,485	111
147.46	1,584	127
147.47	1,683	143
147.48	1,781	160
147.49	1,880	179
147.50	1,979	198
147.51	2,078	218
147.52	2,177	240
147.53	2,276	262
147.54	2,375	285
147.55	2,474	309
147.56	2,573	335
147.57	2,672	361
147.58	2,771	388
147.59	2,870	416
147.60	2,969	445
147.61	3,068	476
147.62	3,167	507
147.63	3,266	539
147.64	3,365	572
147.65	3,464	606
147.66	3,563	641
147.67	3,662	677
147.68	3,761	715
147.69	3,860	753
147.70	3,959	792
147.71	4,058	832
147.72	4,157	873
147.73	4,256	915
147.74	4,355	958
147.75	4,454	1,002
147.76	4,553	1,047
147.77	4,652	1,093
147.78	4,751	1,140
147.79	4,850	1,188
147.80	4,949	1,237
147.81	5,048	1,287
147.82	5,147	1,338
147.83	5,245	1,390
147.84	5,344	1,443
147.85	5,443	1,497
147.86	5,542	1,552
147.87	5,641	1,608
147.88	5,740	1,665
147.89	5,839	1,723
147.90	5,938	1,781
147.91	6,037	1,841
147.92	6,136	1,902
147.93	6,235	1,964
147.94	6,334	2,027
147.95	6,433	2,091
147.96	6,532	2,156
147.97	6,631	2,221
147.98	6,730	2,288
147.99	6,829	2,356
148.00	6,928	2,425
148.01	6,938	2,494
148.02	6,948	2,564
148.03	6,958	2,633
148.04	6,968	2,703
148.05	6,978	2,772
148.06	6,989	2,842
148.07	6,999	2,912
148.08	7,009	2,982
148.09	7,019	3,052
148.10	7,029	3,123
148.11	7,039	3,193
148.12	7,049	3,263
148.13	7,059	3,334
148.14	7,069	3,405
148.15	7,079	3,475
148.16	7,089	3,546
148.17	7,100	3,617
148.18	7,110	3,688
148.19	7,120	3,759
148.20	7,130	3,831
148.21	7,140	3,902
148.22	7,150	3,973
148.23	7,160	4,045
148.24	7,170	4,117
148.25	7,180	4,188
148.26	7,190	4,260
148.27	7,200	4,332
148.28	7,211	4,404
148.29	7,221	4,476
148.30	7,231	4,549
148.31	7,241	4,621
148.32	7,251	4,693
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)
151.46	10,667	32,674
151.47	10,679	32,780
151.48	10,691	32,887
151.49	10,703	32,994
151.50	10,715	33,101
151.51	10,726	33,208
151.52	10,738	33,316
151.53	10,750	33,423
151.54	10,762	33,531
151.55	10,773	33,638
151.56	10,785	33,746
151.57	10,797	33,854
151.58	10,809	33,962
151.59	10,821	34,070
151.60	10,832	34,179
151.61	10,844	34,287
151.62	10,856	34,395
151.63	10,868	34,504
151.64	10,880	34,613
151.65	10,891	34,722
151.66	10,903	34,831
151.67	10,915	34,940
151.68	10,927	35,049
151.69	10,939	35,158
151.70	10,950	35,268
151.71	10,962	35,377
151.72	10,974	35,487
151.73	10,986	35,597
151.74	10,997	35,707
151.75	11,009	35,817
151.76	11,021	35,927
151.77	11,033	36,037
151.78	11,045	36,147
151.79	11,056	36,258
151.80	11,068	36,369
151.81	11,080	36,479
151.82	11,092	36,590
151.83	11,104	36,701
151.84	11,115	36,812
151.85	11,127	36,923
151.86	11,139	37,035
151.87	11,151	37,146
151.88	11,163	37,258
151.89	11,174	37,369
151.90	11,186	37,481
151.91	11,198	37,593
151.92	11,210	37,705
151.93	11,221	37,817
151.94	11,233	37,930
151.95	11,245	38,042
151.96	11,257	38,155
151.97	11,269	38,267
151.98	11,280	38,380
151.99	11,292	38,493
152.00	11,304	38,606
152.01	11,316	38,719
152.02	11,329	38,832
152.03	11,341	38,945
152.04	11,353	39,059
152.05	11,366	39,173
152.06	11,378	39,286
152.07	11,391	39,400
152.08	11,403	39,514
152.09	11,415	39,628
152.10	11,428	39,742
152.11	11,440	39,857
152.12	11,452	39,971
152.13	11,465	40,086
152.14	11,477	40,200
152.15	11,489	40,315
152.16	11,502	40,430
152.17	11,514	40,545
152.18	11,526	40,661
152.19	11,539	40,776
152.20	11,551	40,891
152.21	11,564	41,007
152.22	11,576	41,123
152.23	11,588	41,238
152.24	11,601	41,354
152.25	11,613	41,470
152.26	11,625	41,587
152.27	11,638	41,703
152.28	11,650	41,819
152.29	11,662	41,936
152.30	11,675	42,053
152.31	11,687	42,169
152.32	11,700	42,286
152.33	11,712	42,403
152.34	11,724	42,521
152.35	11,737	42,638
152.36	11,749	42,755
152.37	11,761	42,873
152.38	11,774	42,991
152.39	11,786	43,108
152.40	11,798	43,226
152.41	11,811	43,344
152.42	11,823	43,462
152.43	11,835	43,581
152.44	11,848	43,699
152.45	11,860	43,818
152.46	11,873	43,936
152.47	11,885	44,055
152.48	11,897	44,174
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 = 3.92" for Future 10 yr event
Inflow = 9.89 cfs @ 12.17 hrs, Volume= 0.799 af
Outflow = 4.85 cfs @ 12.35 hrs, Volume= 0.713 af, Atten= 51%, Lag= 10.6 min
Primary = 4.85 cfs @ 12.35 hrs, Volume= 0.713 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= 146.99' @ 12.35 hrs Surf.Area= 7,584 sf Storage= 14,908 cf

Plug-Flow detention time= 258.1 min calculated for 0.713 af (89% of inflow)
Center-of-Mass det. time= 203.3 min (998.5 - 795.1)

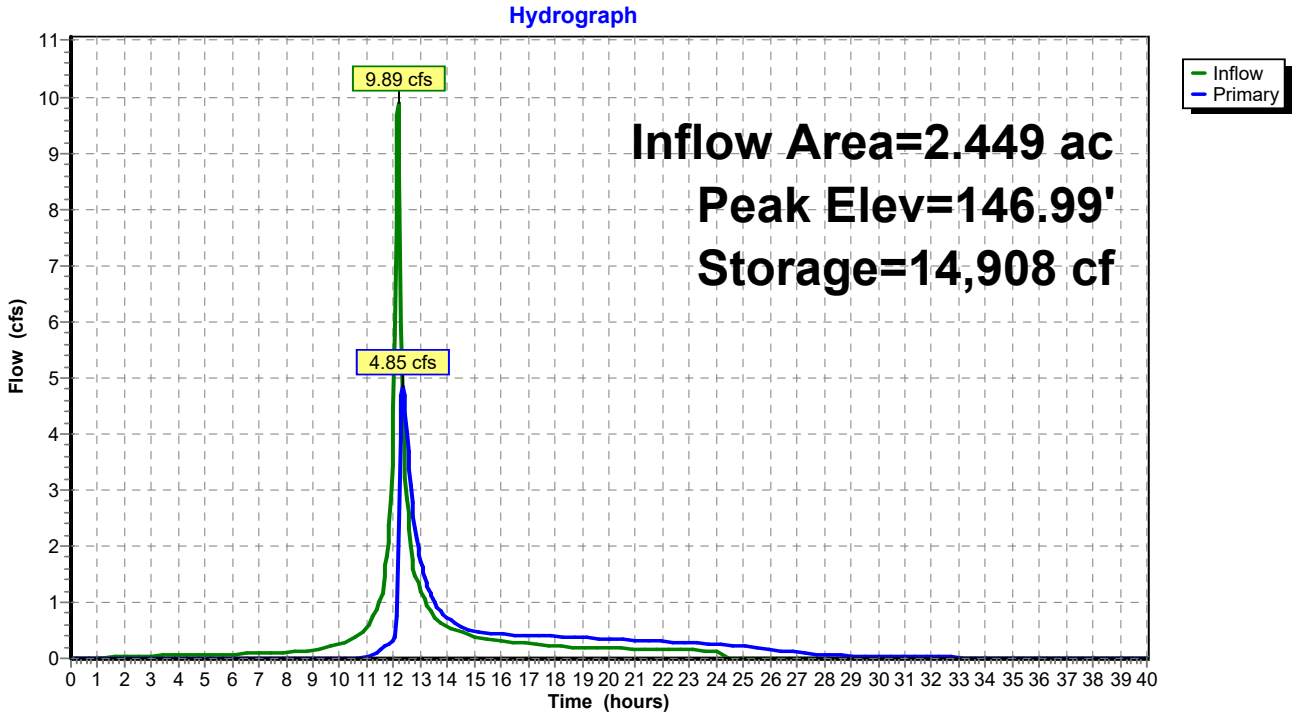
Volume	Invert	Avail.Storage	Storage Description
#1	144.30'	23,175 cf	**Custom Stage Data (Prismatic)** Listed below (Recalc)

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=4.85 cfs @ 12.35 hrs HW=146.99' (Free Discharge)
- **1=Culvert** (Passes 4.85 cfs of 11.84 cfs potential flow)
  - **2=Orifice/Grate** (Orifice Controls 0.52 cfs @ 5.97 fps)
  - **3=Sharp-Crested Rectangular Weir** (Weir Controls 4.33 cfs @ 2.28 fps)
- **4=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)

Pond B-23: Basin #23



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)
147.42	8,073	18,303
147.43	8,084	18,384
147.44	8,095	18,464
147.45	8,107	18,545
147.46	8,118	18,627
147.47	8,129	18,708
147.48	8,140	18,789
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
147.94	8,659	22,653
147.95	8,671	22,740
147.96	8,682	22,827
147.97	8,693	22,913
147.98	8,704	23,000
147.99	8,716	23,087
148.00	**8,727**	**23,175**

Summary for Pond B-24: Basin #24

Inflow Area = 2.408 ac, 37.46% Impervious, Inflow Depth = 4.02" for Future 10 yr event
Inflow = 9.91 cfs @ 12.17 hrs, Volume= 0.806 af
Outflow = 3.97 cfs @ 12.40 hrs, Volume= 0.711 af, Atten= 60%, Lag= 13.5 min
Primary = 3.97 cfs @ 12.40 hrs, Volume= 0.711 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= 146.65' @ 12.40 hrs Surf.Area= 8,992 sf Storage= 16,011 cf

Plug-Flow detention time= 248.0 min calculated for 0.710 af (88% of inflow)
Center-of-Mass det. time= 190.9 min (982.3 - 791.4)

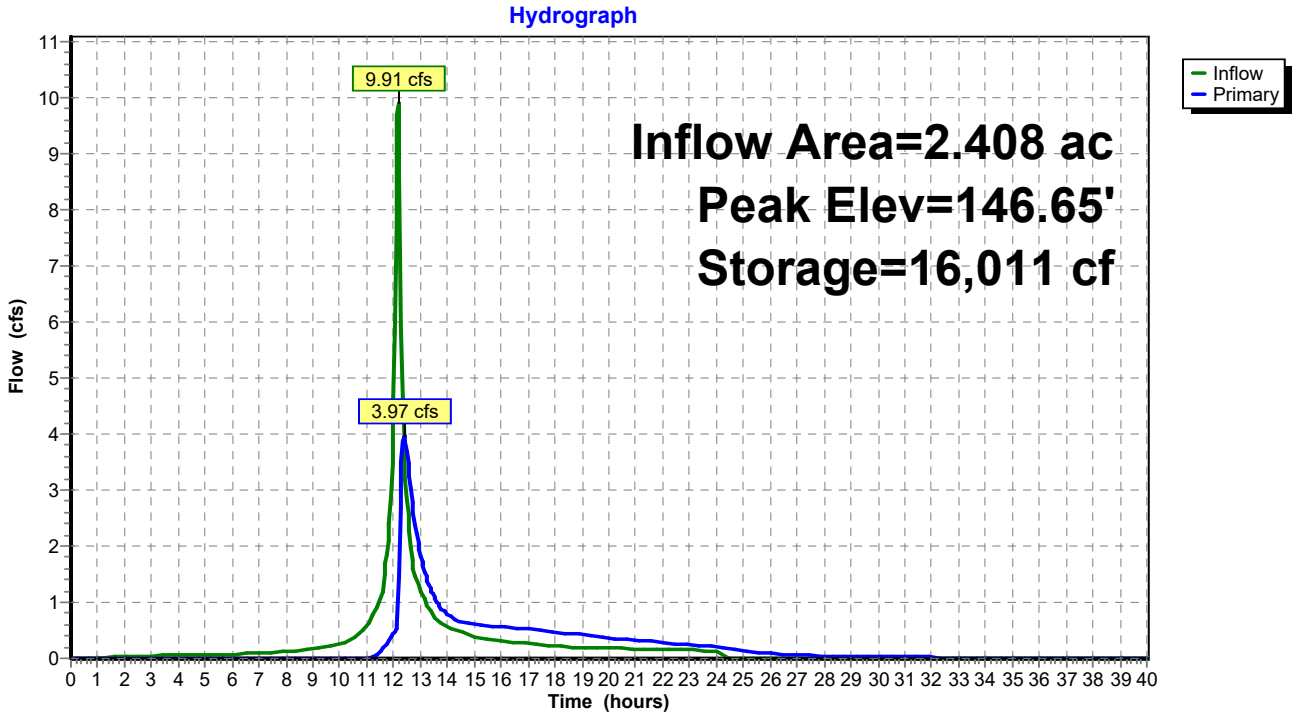
Volume	Invert	Avail.Storage	Storage Description
#1	144.30'	40,061 cf	**Custom Stage Data (Prismatic)** Listed below (Recalc)

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=3.96 cfs @ 12.40 hrs HW=146.65' (Free Discharge)
- **1=Culvert** (Passes 3.96 cfs of 10.76 cfs potential flow)
  - **2=Orifice/Grate** (Orifice Controls 0.74 cfs @ 5.43 fps)
  - **3=Sharp-Crested Rectangular Weir** (Weir Controls 3.22 cfs @ 2.06 fps)
- **4=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)

Pond B-24: Basin #24



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)
148.46	58.05
148.47	59.62
148.48	61.22
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
148.98	155.14
148.99	157.32
149.00	**159.47**

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)
148.46	10,904	34,016
148.47	10,915	34,125
148.48	10,925	34,234
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
148.98	11,466	39,832
148.99	11,477	39,947
149.00	**11,488**	**40,061**

Summary for Pond B-25: Basin #25

Inflow Area = 2.500 ac, 34.96% Impervious, Inflow Depth = 3.95" for Future 10 yr event
Inflow = 10.16 cfs @ 12.17 hrs, Volume= 0.823 af
Outflow = 4.74 cfs @ 12.36 hrs, Volume= 0.735 af, Atten= 53%, Lag= 11.3 min
Primary = 4.74 cfs @ 12.36 hrs, Volume= 0.735 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= 146.41' @ 12.36 hrs Surf.Area= 6,878 sf Storage= 15,584 cf

Plug-Flow detention time= 235.3 min calculated for 0.735 af (89% of inflow)
Center-of-Mass det. time= 180.8 min (974.6 - 793.8)

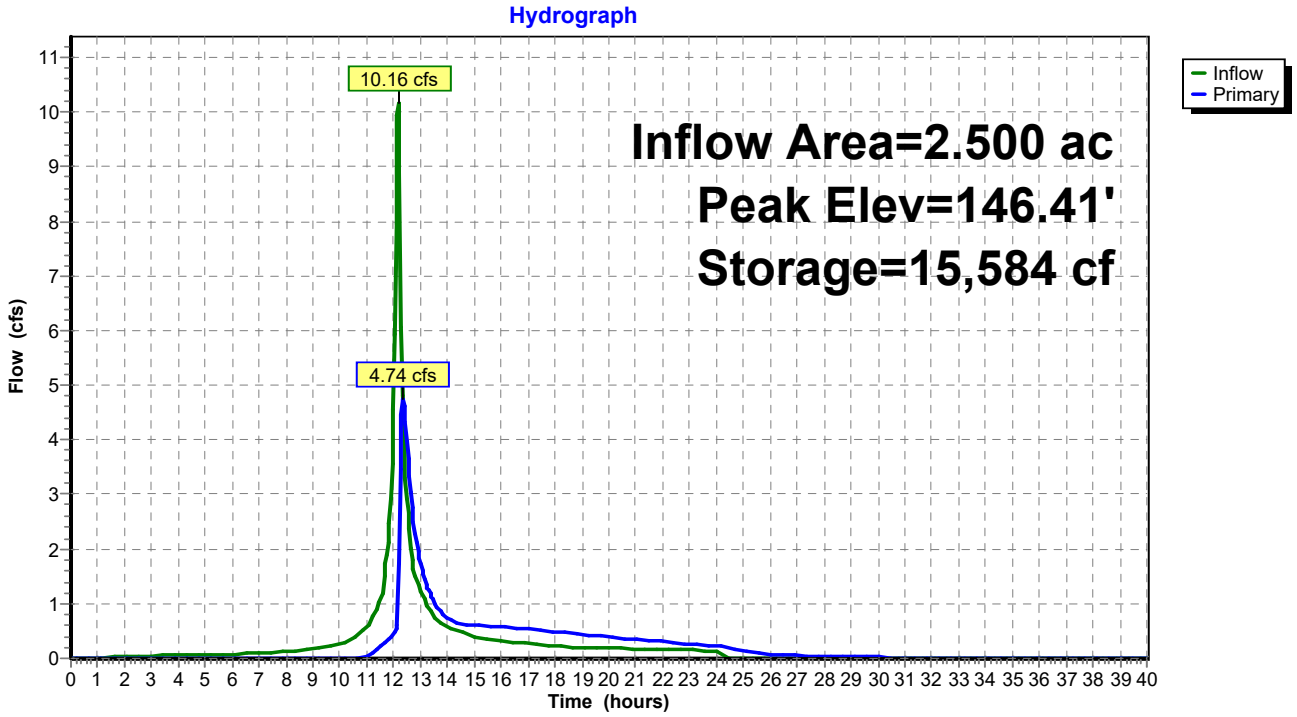
Volume	Invert	Avail.Storage	Storage Description
#1	143.30'	36,587 cf	**Custom Stage Data (Prismatic)** Listed below (Recalc)

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=4.70 cfs @ 12.36 hrs HW=146.41' (Free Discharge)
- **1=Culvert** (Passes 4.70 cfs of 10.93 cfs potential flow)
  - **2=Orifice/Grate** (Orifice Controls 0.71 cfs @ 6.46 fps)
  - **3=Sharp-Crested Rectangular Weir** (Weir Controls 3.98 cfs @ 2.22 fps)
- **4=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)

Pond B-25: Basin #25



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 = 4.08" for Future 10 yr event
Inflow = 9.85 cfs @ 12.17 hrs, Volume= 0.804 af
Outflow = 4.06 cfs @ 12.39 hrs, Volume= 0.678 af, Atten= 59%, Lag= 13.0 min
Primary = 4.06 cfs @ 12.39 hrs, Volume= 0.678 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= 146.45' @ 12.39 hrs Surf.Area= 6,724 sf Storage= 16,808 cf

Plug-Flow detention time= 434.3 min calculated for 0.677 af (84% of inflow)
Center-of-Mass det. time= 364.2 min (1,153.4 - 789.2)

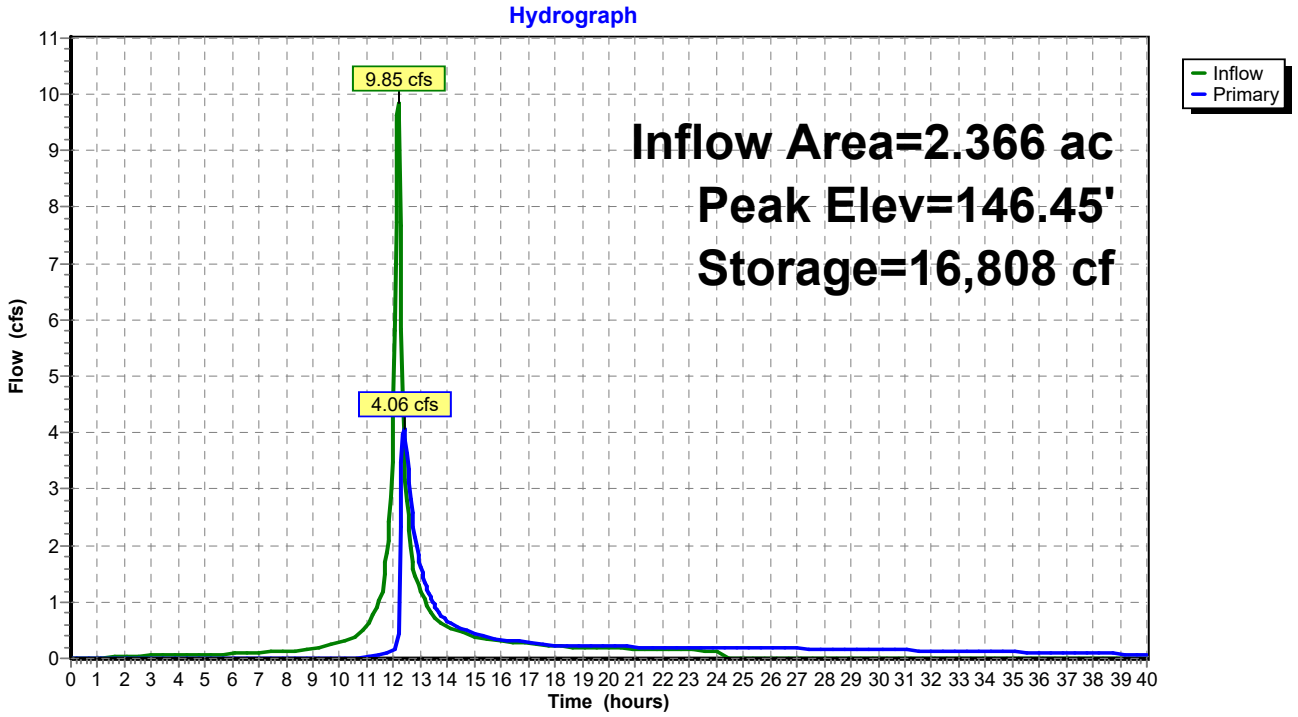
Volume	Invert	Avail.Storage	Storage Description
#1	143.30'	35,348 cf	**Custom Stage Data (Prismatic)** Listed below (Recalc)

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=4.03 cfs @ 12.39 hrs HW=146.45' (Free Discharge)
- **1=Culvert** (Passes 4.03 cfs of 10.12 cfs potential flow)
  - **2=Orifice/Grate** (Orifice Controls 0.23 cfs @ 6.78 fps)
  - **3=Sharp-Crested Rectangular Weir** (Weir Controls 3.80 cfs @ 2.18 fps)
- **4=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)

Pond B-26: Basin #26



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)
143.30	0	0
143.31	78	0
143.32	156	2
143.33	234	4
143.34	312	6
143.35	390	10
143.36	469	14
143.37	547	19
143.38	625	25
143.39	703	32
143.40	781	39
143.41	859	47
143.42	937	56
143.43	1,015	66
143.44	1,093	77
143.45	1,171	88
143.46	1,249	100
143.47	1,327	113
143.48	1,406	126
143.49	1,484	141
143.50	1,562	156
143.51	1,640	172
143.52	1,718	189
143.53	1,796	207
143.54	1,874	225
143.55	1,952	244
143.56	2,030	264
143.57	2,108	285
143.58	2,186	306
143.59	2,264	328
143.60	2,343	351
143.61	2,421	375
143.62	2,499	400
143.63	2,577	425
143.64	2,655	451
143.65	2,733	478
143.66	2,811	506
143.67	2,889	534
143.68	2,967	564
143.69	3,045	594
143.70	3,123	625
143.71	3,202	656
143.72	3,280	689
143.73	3,358	722
143.74	3,436	756
143.75	3,514	791
143.76	3,592	826
143.77	3,670	862
143.78	3,748	900
143.79	3,826	937
143.80	3,904	976
143.81	3,982	1,016
143.82	4,060	1,056
143.83	4,139	1,097
143.84	4,217	1,138
143.85	4,295	1,181
143.86	4,373	1,224
143.87	4,451	1,269
143.88	4,529	1,313
143.89	4,607	1,359
143.90	4,685	1,406
143.91	4,763	1,453
143.92	4,841	1,501
143.93	4,919	1,550
143.94	4,997	1,599
143.95	5,076	1,650
143.96	5,154	1,701
143.97	5,232	1,753
143.98	5,310	1,805
143.99	5,388	1,859
144.00	5,466	1,913
144.01	5,471	1,968
144.02	5,476	2,023
144.03	5,481	2,077
144.04	5,486	2,132
144.05	5,491	2,187
144.06	5,496	2,242
144.07	5,501	2,297
144.08	5,506	2,352
144.09	5,511	2,407
144.10	5,516	2,462
144.11	5,521	2,517
144.12	5,526	2,573
144.13	5,531	2,628
144.14	5,536	2,683
144.15	5,541	2,739
144.16	5,546	2,794
144.17	5,551	2,850
144.18	5,556	2,905
144.19	5,561	2,961
144.20	5,566	3,016
144.21	5,571	3,072
144.22	5,576	3,128
144.23	5,581	3,184
144.24	5,586	3,239
144.25	5,591	3,295
144.26	5,596	3,351
144.27	5,601	3,407
144.28	5,606	3,463
144.29	5,611	3,519
144.30	5,616	3,575
144.31	5,621	3,632
144.32	5,626	3,688
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)
147.46	7,269	23,894
147.47	7,274	23,967
147.48	7,280	24,040
147.49	7,285	24,112
147.50	7,291	24,185
147.51	7,296	24,258
147.52	7,301	24,331
147.53	7,307	24,404
147.54	7,312	24,477
147.55	7,318	24,550
147.56	7,323	24,624
147.57	7,329	24,697
147.58	7,334	24,770
147.59	7,340	24,844
147.60	7,345	24,917
147.61	7,350	24,990
147.62	7,356	25,064
147.63	7,361	25,138
147.64	7,367	25,211
147.65	7,372	25,285
147.66	7,378	25,359
147.67	7,383	25,432
147.68	7,389	25,506
147.69	7,394	25,580
147.70	7,400	25,654
147.71	7,405	25,728
147.72	7,410	25,802
147.73	7,416	25,876
147.74	7,421	25,951
147.75	7,427	26,025
147.76	7,432	26,099
147.77	7,438	26,174
147.78	7,443	26,248
147.79	7,449	26,322
147.80	7,454	26,397
147.81	7,459	26,471
147.82	7,465	26,546
147.83	7,470	26,621
147.84	7,476	26,695
147.85	7,481	26,770
147.86	7,487	26,845
147.87	7,492	26,920
147.88	7,498	26,995
147.89	7,503	27,070
147.90	7,509	27,145
147.91	7,514	27,220
147.92	7,519	27,295
147.93	7,525	27,371
147.94	7,530	27,446
147.95	7,536	27,521
147.96	7,541	27,597
147.97	7,547	27,672
147.98	7,552	27,747
147.99	7,558	27,823
148.00	7,563	27,899
148.01	7,569	27,974
148.02	7,575	28,050
148.03	7,581	28,126
148.04	7,586	28,202
148.05	7,592	28,277
148.06	7,598	28,353
148.07	7,604	28,429
148.08	7,610	28,506
148.09	7,616	28,582
148.10	7,622	28,658
148.11	7,627	28,734
148.12	7,633	28,810
148.13	7,639	28,887
148.14	7,645	28,963
148.15	7,651	29,040
148.16	7,657	29,116
148.17	7,663	29,193
148.18	7,669	29,269
148.19	7,674	29,346
148.20	7,680	29,423
148.21	7,686	29,500
148.22	7,692	29,577
148.23	7,698	29,654
148.24	7,704	29,731
148.25	7,710	29,808
148.26	7,715	29,885
148.27	7,721	29,962
148.28	7,727	30,039
148.29	7,733	30,117
148.30	7,739	30,194
148.31	7,745	30,271
148.32	7,751	30,349
148.33	7,756	30,426
148.34	7,762	30,504
148.35	7,768	30,582
148.36	7,774	30,659
148.37	7,780	30,737
148.38	7,786	30,815
148.39	7,792	30,893
148.40	7,798	30,971
148.41	7,803	31,049
148.42	7,809	31,127
148.43	7,815	31,205
148.44	7,821	31,283
148.45	7,827	31,361
148.46	7,833	31,440
148.47	7,839	31,518
148.48	7,844	31,596
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 = 4.89" for Future 10 yr event
Inflow = 9.54 cfs @ 12.17 hrs, Volume= 0.789 af
Outflow = 7.63 cfs @ 12.25 hrs, Volume= 0.682 af, Atten= 20%, Lag= 4.9 min
Primary = 7.63 cfs @ 12.25 hrs, Volume= 0.682 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= 172.49' @ 12.25 hrs Surf.Area= 3,873 sf Storage= 11,242 cf

Plug-Flow detention time= 143.0 min calculated for 0.681 af (86% of inflow)
Center-of-Mass det. time= 80.5 min (856.3 - 775.7)

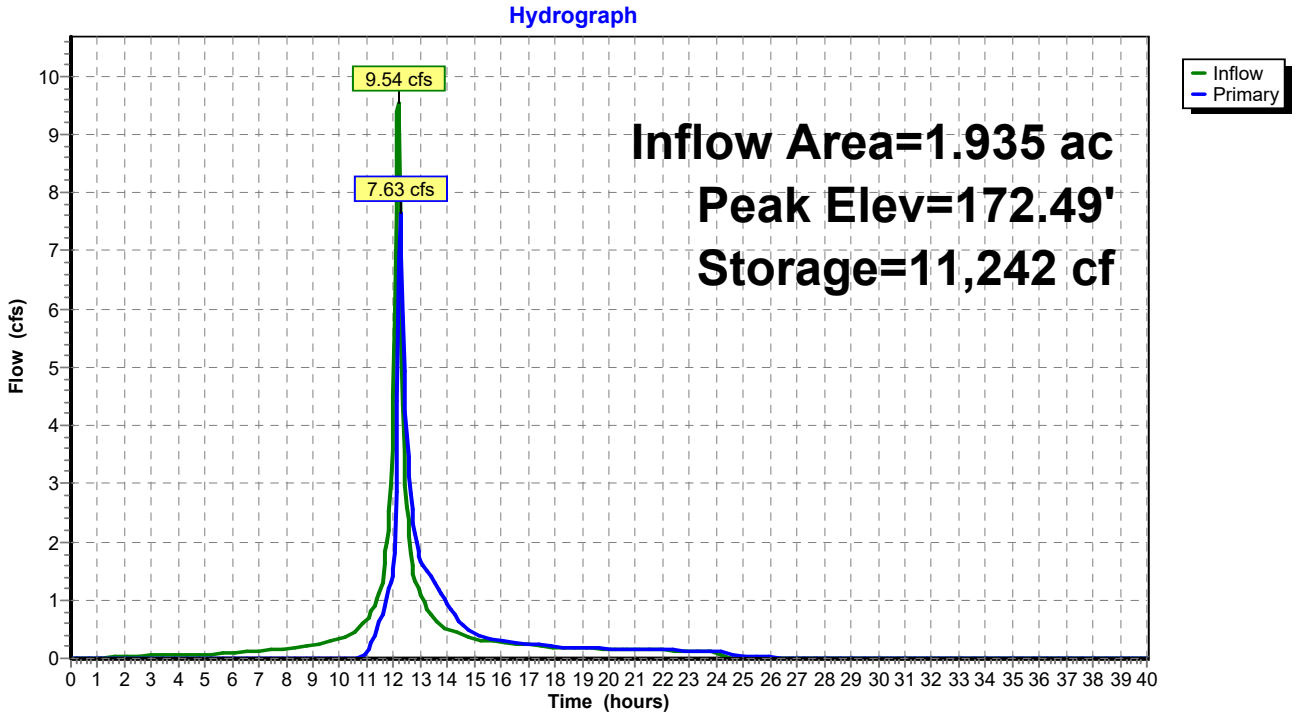
Volume	Invert	Avail.Storage	Storage Description
#1	167.35'	13,052 cf	**Custom Stage Data (Prismatic)** Listed below (Recalc)

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=7.59 cfs @ 12.25 hrs HW=172.49' (Free Discharge)
- **1=Culvert** (Passes 7.59 cfs of 29.65 cfs potential flow)
  - **2=Orifice/Grate** (Orifice Controls 2.18 cfs @ 6.26 fps)
  - **3=Sharp-Crested Rectangular Weir** (Weir Controls 3.87 cfs @ 2.82 fps)
  - **4=Sharp-Crested Rectangular Weir** (Weir Controls 1.54 cfs @ 1.61 fps)
- **5=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)

Pond B-27: Basin #27



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)
170.47	2,548	4,641
170.48	2,555	4,666
170.49	2,562	4,692
170.50	2,569	4,718
170.51	2,575	4,743
170.52	2,582	4,769
170.53	2,589	4,795
170.54	2,596	4,821
170.55	2,603	4,847
170.56	2,610	4,873
170.57	2,617	4,899
170.58	2,624	4,925
170.59	2,631	4,952
170.60	2,638	4,978
170.61	2,645	5,004
170.62	2,652	5,031
170.63	2,659	5,057
170.64	2,666	5,084
170.65	2,673	5,111
170.66	2,680	5,137
170.67	2,687	5,164
170.68	2,694	5,191
170.69	2,701	5,218
170.70	2,707	5,245
170.71	2,714	5,272
170.72	2,721	5,299
170.73	2,728	5,327
170.74	2,735	5,354
170.75	2,742	5,381
170.76	2,749	5,409
170.77	2,756	5,436
170.78	2,763	5,464
170.79	2,770	5,492
170.80	2,777	5,519
170.81	2,784	5,547
170.82	2,791	5,575
170.83	2,798	5,603
170.84	2,805	5,631
170.85	2,812	5,659
170.86	2,819	5,687
170.87	2,826	5,715
170.88	2,833	5,744
170.89	2,840	5,772
170.90	2,847	5,801
170.91	2,853	5,829
170.92	2,860	5,858
170.93	2,867	5,886
170.94	2,874	5,915
170.95	2,881	5,944
170.96	2,888	5,973
170.97	2,895	6,001
170.98	2,902	6,030
170.99	2,909	6,060
171.00	2,916	6,089
171.01	2,924	6,118
171.02	2,931	6,147
171.03	2,939	6,176
171.04	2,946	6,206
171.05	2,954	6,235
171.06	2,961	6,265
171.07	2,969	6,295
171.08	2,976	6,324
171.09	2,984	6,354
171.10	2,991	6,384
171.11	2,999	6,414
171.12	3,006	6,444
171.13	3,014	6,474
171.14	3,021	6,504
171.15	3,029	6,534
171.16	3,036	6,565
171.17	3,044	6,595
171.18	3,051	6,626
171.19	3,059	6,656
171.20	3,066	6,687
171.21	3,074	6,718
171.22	3,081	6,748
171.23	3,089	6,779
171.24	3,096	6,810
171.25	3,104	6,841
171.26	3,111	6,872
171.27	3,119	6,903
171.28	3,126	6,935
171.29	3,134	6,966
171.30	3,141	6,997
171.31	3,149	7,029
171.32	3,156	7,060
171.33	3,164	7,092
171.34	3,171	7,123
171.35	3,179	7,155
171.36	3,186	7,187
171.37	3,194	7,219
171.38	3,201	7,251
171.39	3,209	7,283
171.40	3,216	7,315
171.41	3,224	7,347
171.42	3,231	7,380
171.43	3,239	7,412
171.44	3,246	7,444
171.45	3,254	7,477
171.46	3,261	7,509
171.47	3,269	7,542
171.48	3,276	7,575
171.49	3,284	7,608
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 = 3.95" for Future 10 yr event
Inflow = 9.48 cfs @ 12.17 hrs, Volume= 0.768 af
Outflow = 7.54 cfs @ 12.25 hrs, Volume= 0.688 af, Atten= 20%, Lag= 4.6 min
Primary = 7.54 cfs @ 12.25 hrs, Volume= 0.688 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= 168.96' @ 12.25 hrs Surf.Area= 3,180 sf Storage= 6,494 cf

Plug-Flow detention time= 101.0 min calculated for 0.688 af (90% of inflow)
Center-of-Mass det. time= 47.2 min (841.1 - 793.9)

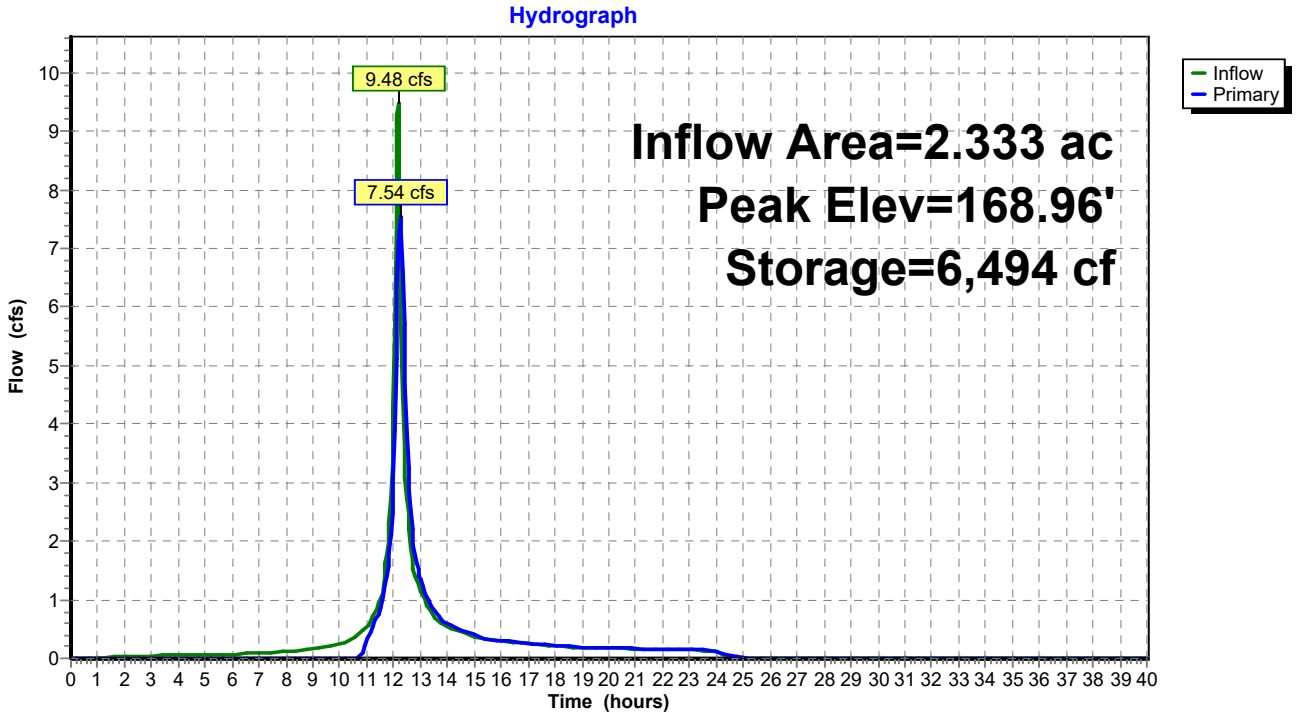
Volume	Invert	Avail.Storage	Storage Description
#1	165.65'	12,318 cf	**Custom Stage Data (Prismatic)** Listed below (Recalc)

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=7.54 cfs @ 12.25 hrs HW=168.96' (Free Discharge)
- **1=Culvert** (Passes 7.54 cfs of 12.42 cfs potential flow)
  - **2=Orifice/Grate** (Orifice Controls 7.54 cfs @ 4.02 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



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)
169.81	11.80
169.82	11.86
169.83	11.92
169.84	11.98
169.85	12.04
169.86	12.10
169.87	12.16
169.88	12.23
169.89	12.29
169.90	12.35
169.91	12.41
169.92	12.47
169.93	12.54
169.94	12.60
169.95	12.66
169.96	12.73
169.97	12.79
169.98	12.85
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
170.33	14.51
170.34	14.52
170.35	14.54
170.36	14.55
170.37	14.56
170.38	14.58
170.39	14.59
170.40	14.61
170.41	14.62
170.42	14.63
170.43	14.65
170.44	14.66
170.45	14.68
170.46	14.69
170.47	14.70
170.48	14.72
170.49	14.73
170.50	**14.86**

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)

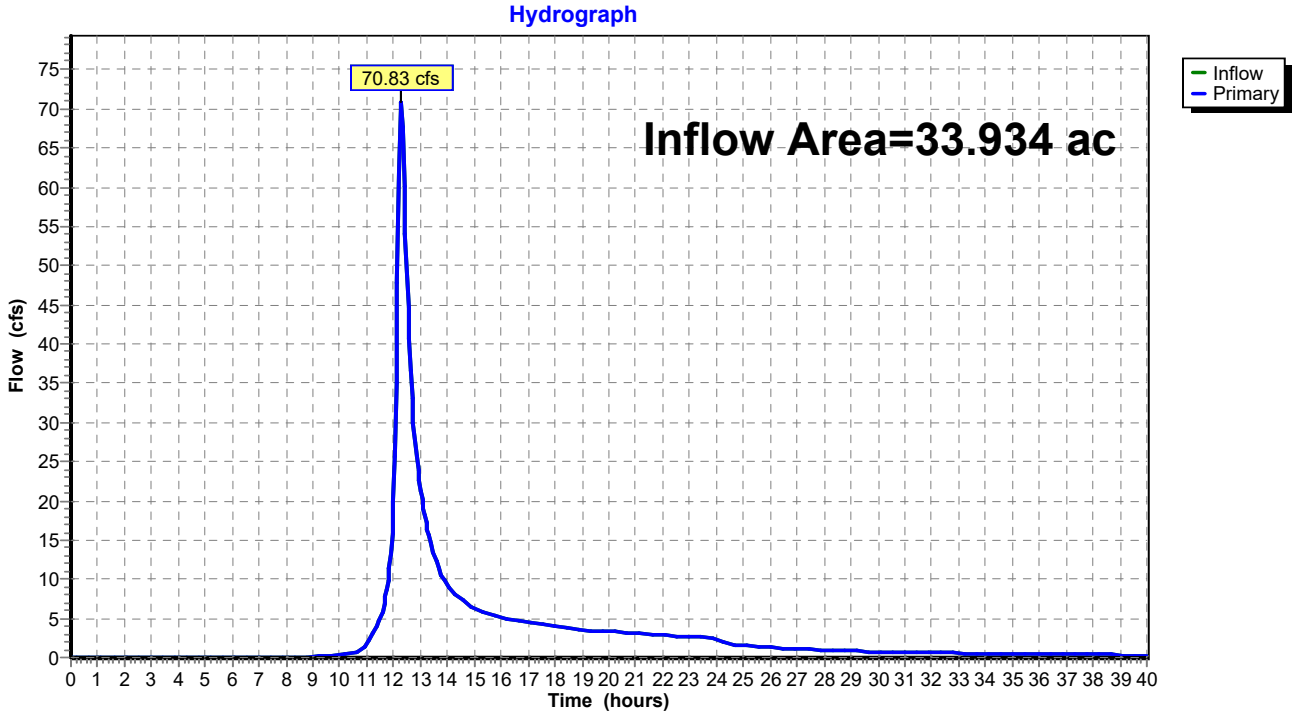
Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
169.81	3,860	9,484
169.82	3,868	9,523
169.83	3,876	9,561
169.84	3,884	9,600
169.85	3,892	9,639
169.86	3,900	9,678
169.87	3,908	9,717
169.88	3,916	9,756
169.89	3,924	9,795
169.90	3,932	9,835
169.91	3,940	9,874
169.92	3,948	9,913
169.93	3,956	9,953
169.94	3,964	9,993
169.95	3,972	10,032
169.96	3,980	10,072
169.97	3,988	10,112
169.98	3,996	10,152
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
170.33	4,225	11,591
170.34	4,231	11,633
170.35	4,237	11,676
170.36	4,244	11,718
170.37	4,250	11,760
170.38	4,257	11,803
170.39	4,263	11,846
170.40	4,270	11,888
170.41	4,276	11,931
170.42	4,282	11,974
170.43	4,289	12,017
170.44	4,295	12,059
170.45	4,302	12,102
170.46	4,308	12,146
170.47	4,315	12,189
170.48	4,321	12,232
170.49	4,328	12,275
170.50	**4,334**	**12,318**

Summary for Link PDA-2: Proposed Drainage Area #2

Inflow Area = 33.934 ac, 26.90% Impervious, Inflow Depth > 3.40" for Future 10 yr event
Inflow = 70.83 cfs @ 12.27 hrs, Volume= 9.611 af
Primary = 70.83 cfs @ 12.27 hrs, Volume= 9.611 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)

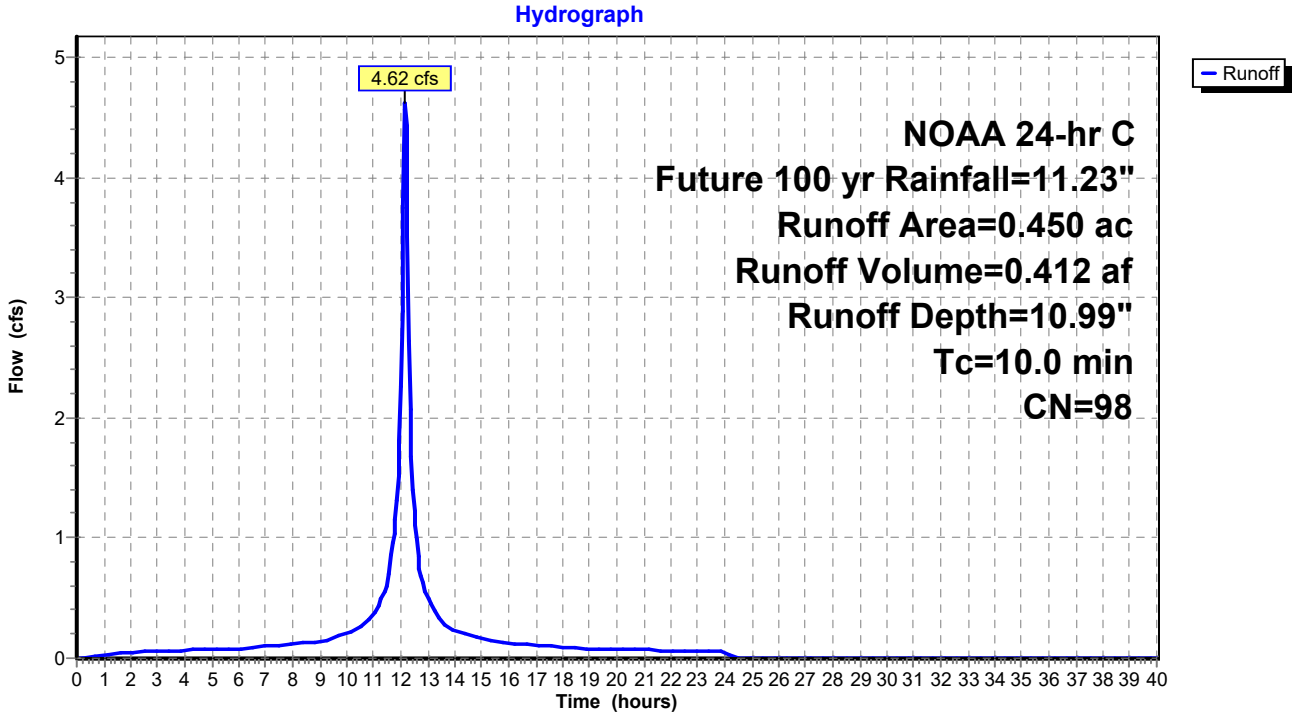
Runoff = 4.62 cfs @ 12.17 hrs, Volume= 0.412 af, Depth=10.99"
Routed to Pond B-18 : Basin #18

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 Future 100 yr Rainfall=11.23"

	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)



Summary for Subcatchment 18P: PDA-18 (pervious)

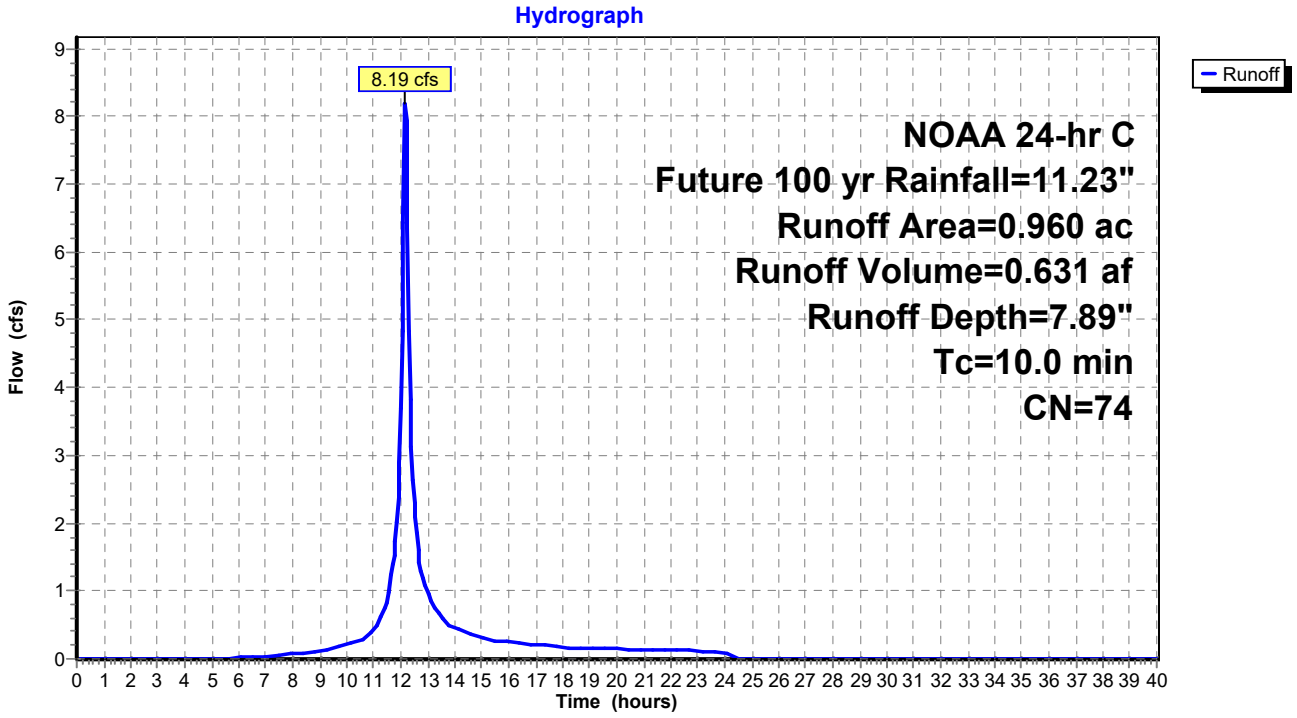
Runoff = 8.19 cfs @ 12.17 hrs, Volume= 0.631 af, Depth= 7.89"
Routed to Pond B-18 : Basin #18

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 Future 100 yr Rainfall=11.23"

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)



Summary for Subcatchment 19l: PDA-19 (impervious)

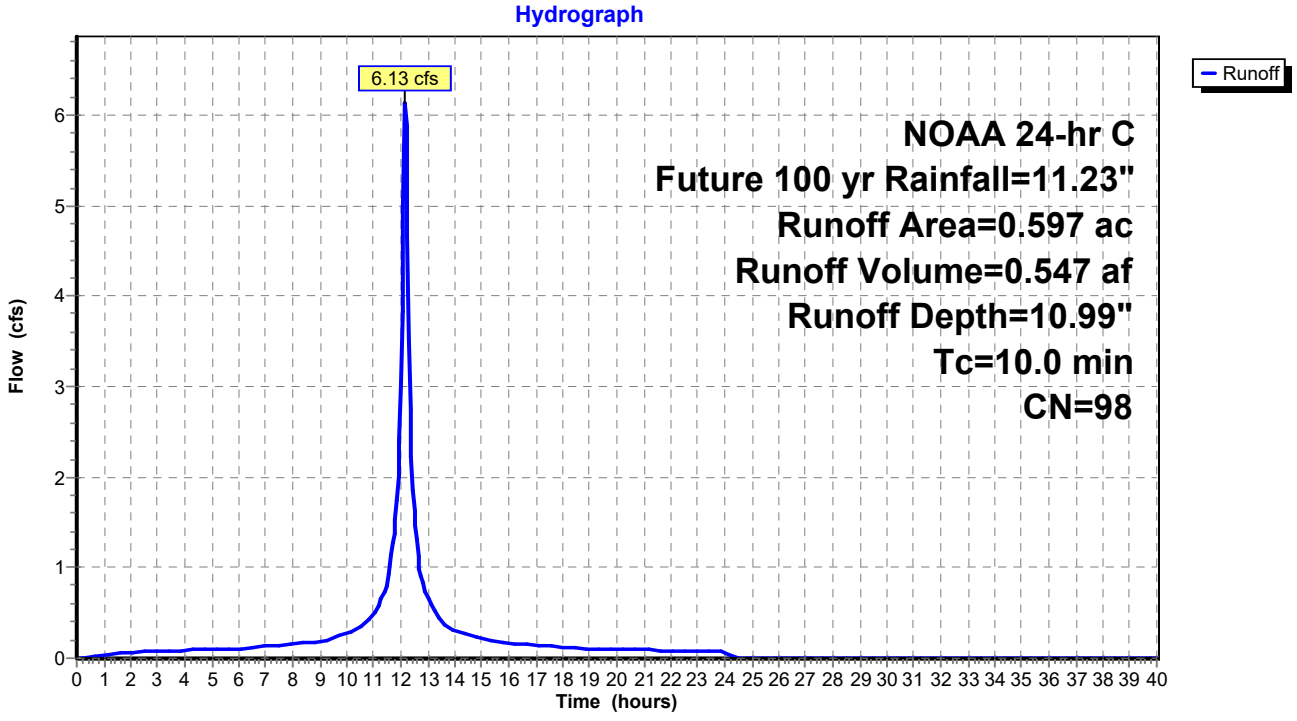
Runoff = 6.13 cfs @ 12.17 hrs, Volume= 0.547 af, Depth=10.99"
Routed to Pond B-19 : Basin #19

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 Future 100 yr Rainfall=11.23"

	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 19l: PDA-19 (impervious)



Summary for Subcatchment 19P: PDA-19 (pervious)

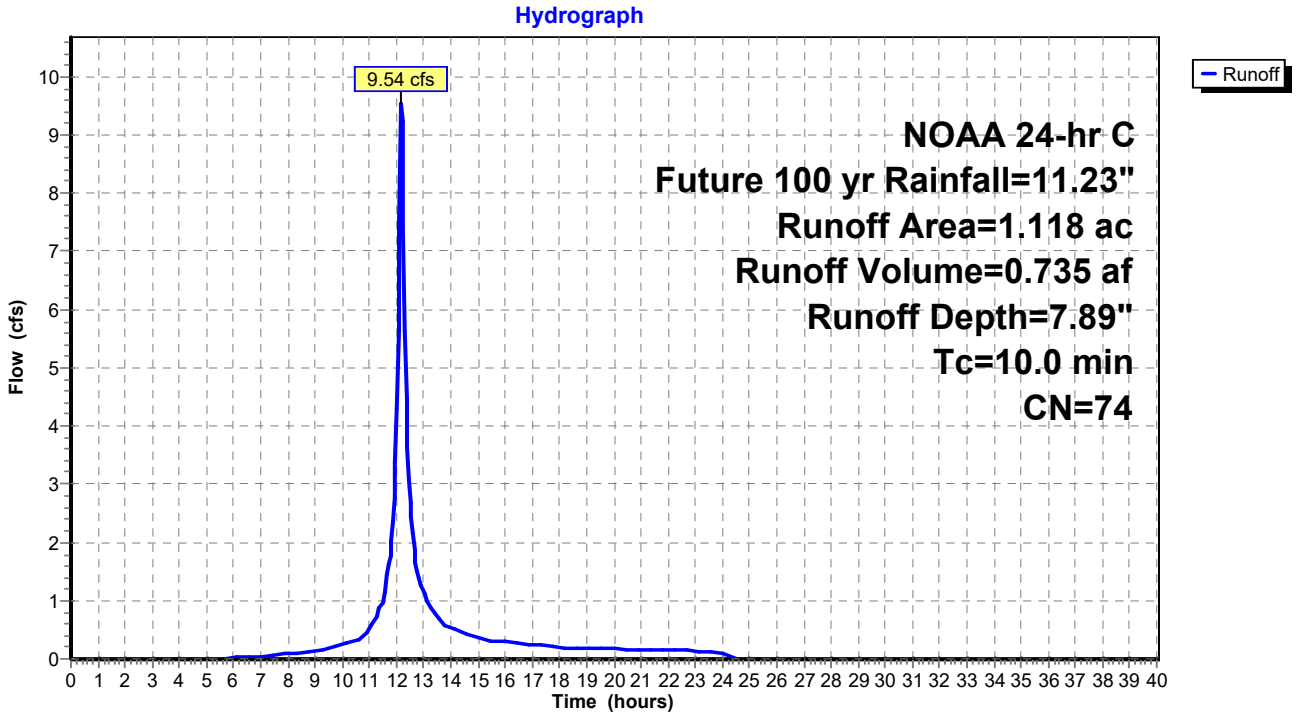
Runoff = 9.54 cfs @ 12.17 hrs, Volume= 0.735 af, Depth= 7.89"
Routed to Pond B-19 : Basin #19

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 Future 100 yr Rainfall=11.23"

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)



Summary for Subcatchment 20I: PDA-20 (impervious)

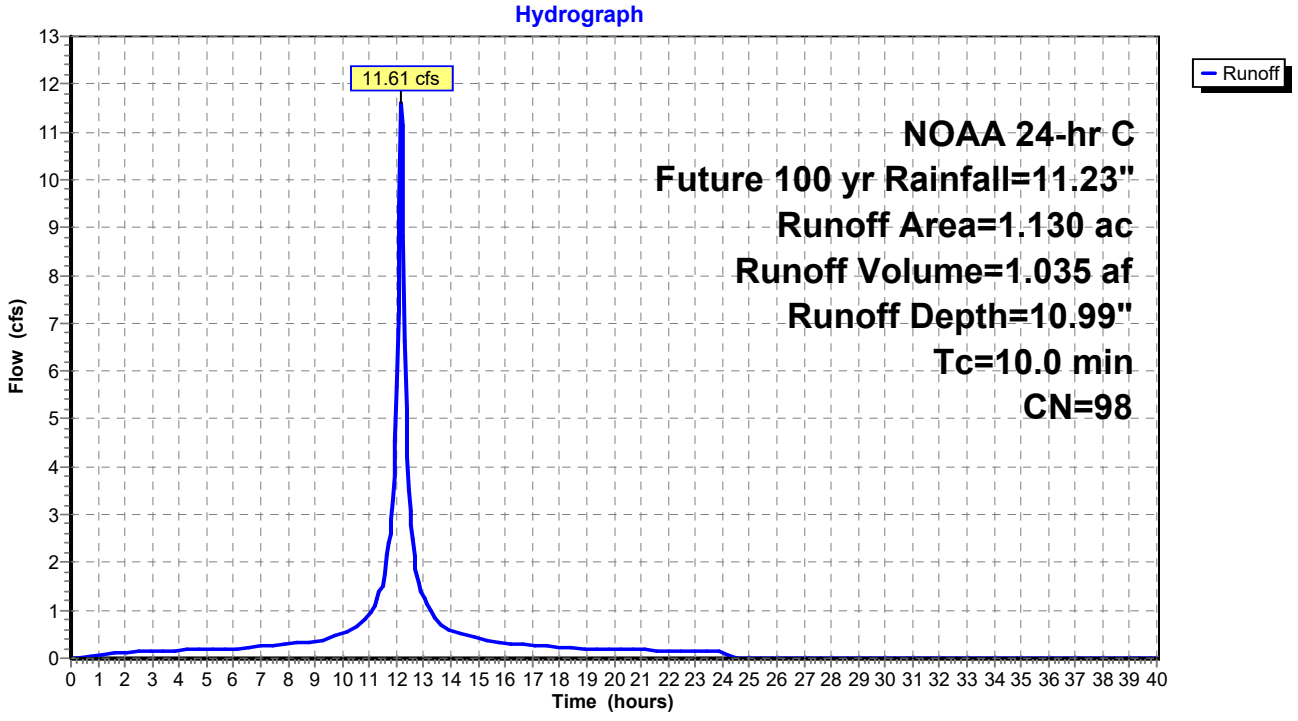
Runoff = 11.61 cfs @ 12.17 hrs, Volume= 1.035 af, Depth=10.99"
Routed to Pond B-20 : Basin #20

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 Future 100 yr Rainfall=11.23"

	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)



Summary for Subcatchment 20P: PDA-20 (pervious)

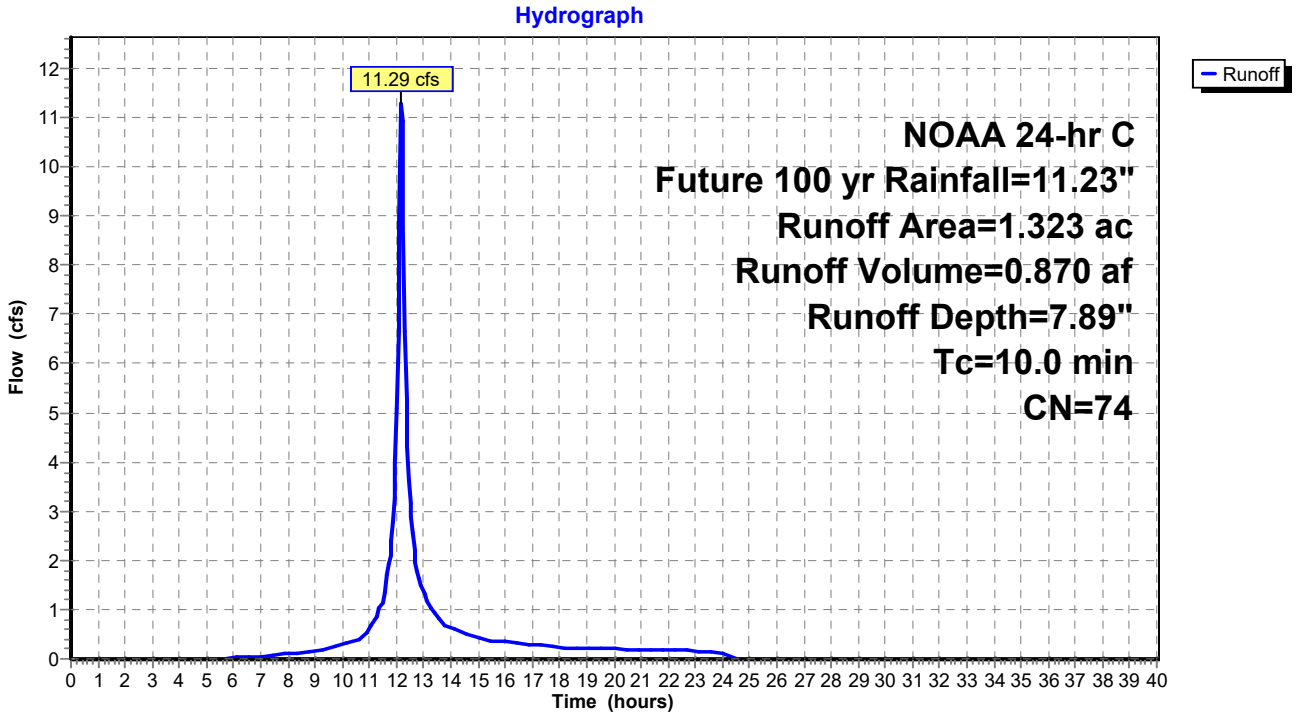
Runoff = 11.29 cfs @ 12.17 hrs, Volume= 0.870 af, Depth= 7.89"
Routed to Pond B-20 : Basin #20

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 Future 100 yr Rainfall=11.23"

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)



Summary for Subcatchment 21I: PDA-21 (impervious)

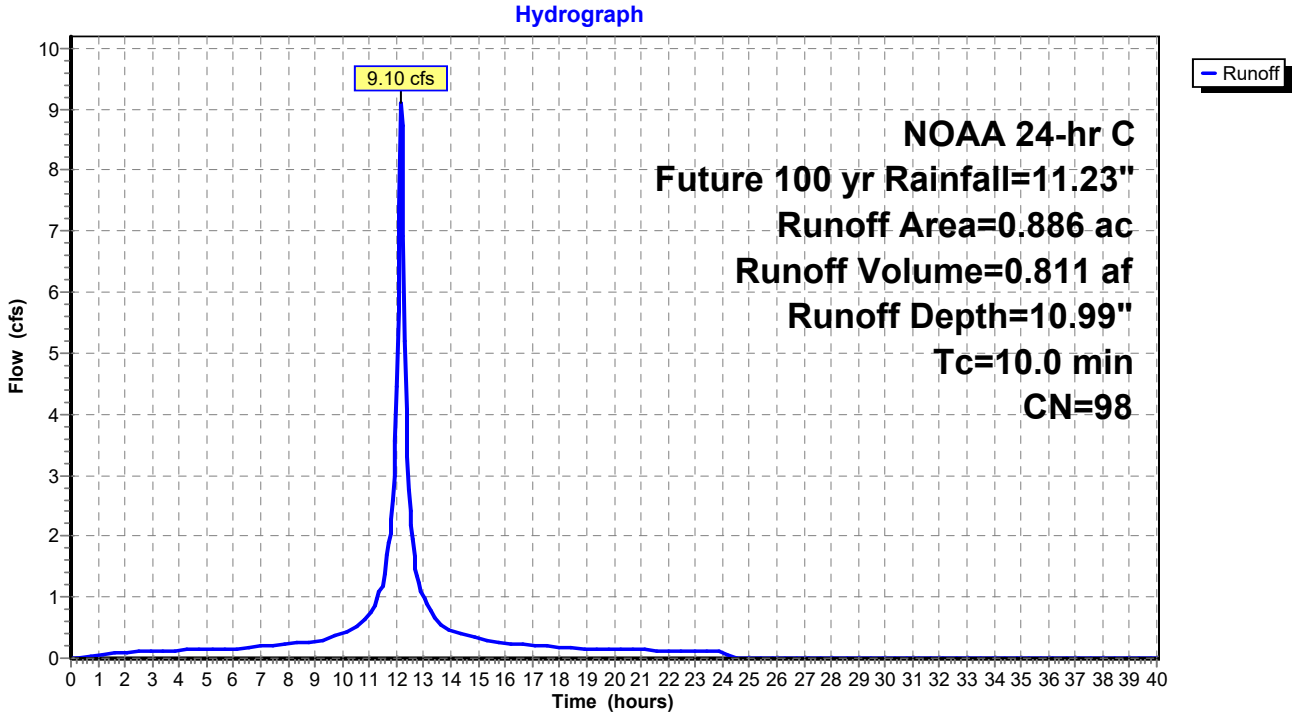
Runoff = 9.10 cfs @ 12.17 hrs, Volume= 0.811 af, Depth=10.99"
Routed to Pond B-21 : Basin #21

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 Future 100 yr Rainfall=11.23"

	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)

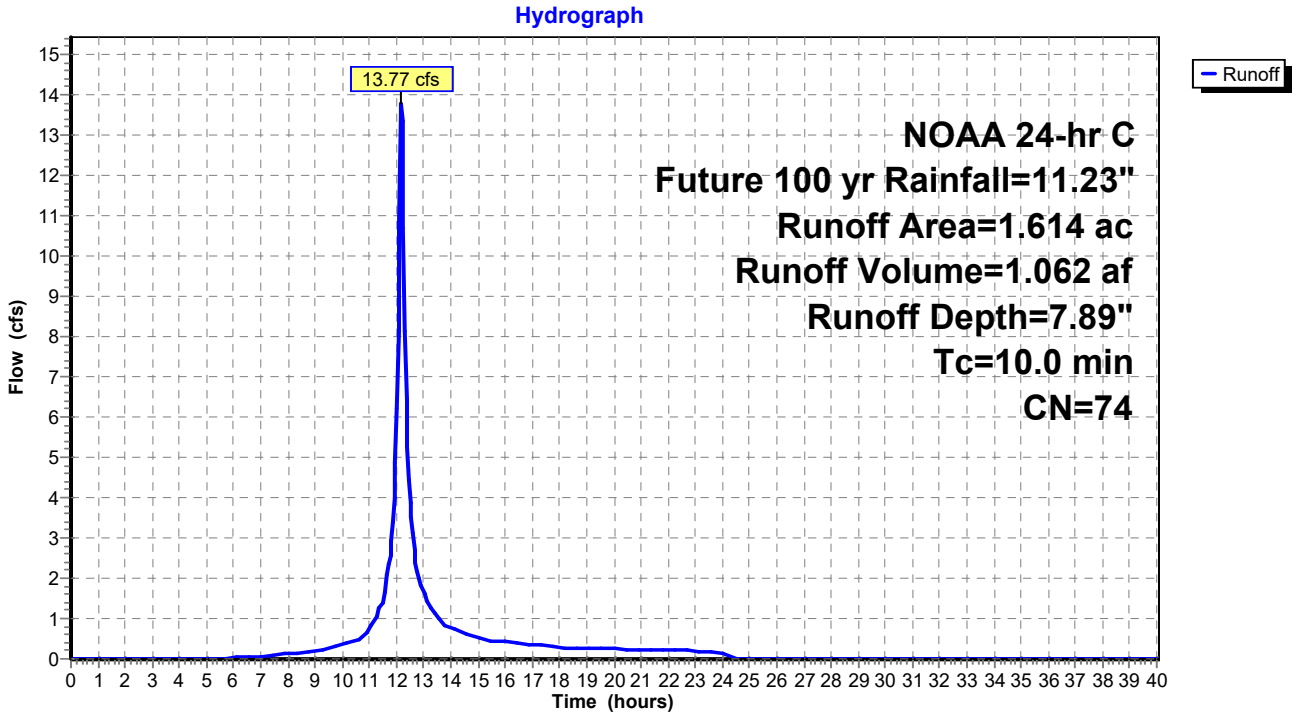
Runoff = 13.77 cfs @ 12.17 hrs, Volume= 1.062 af, Depth= 7.89"
Routed to Pond B-21 : Basin #21

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 Future 100 yr Rainfall=11.23"

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)



Summary for Subcatchment 22l: PDA-22 (impervious)

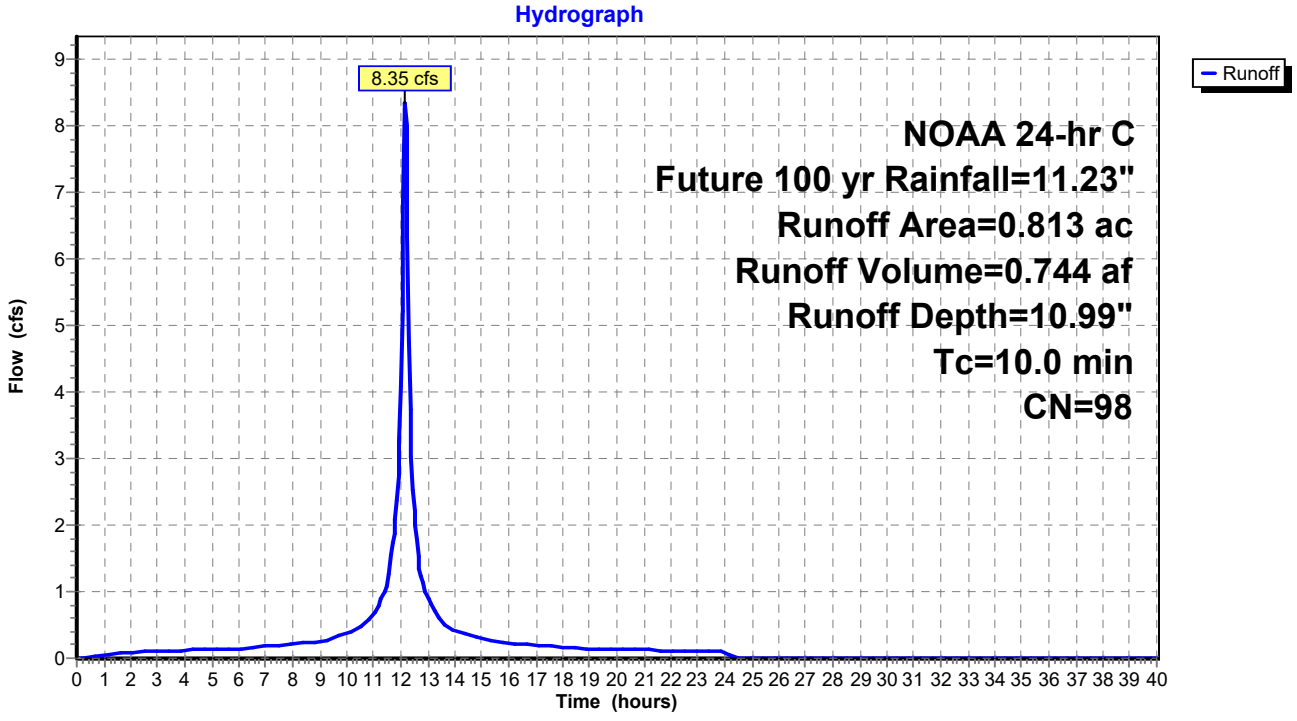
Runoff = 8.35 cfs @ 12.17 hrs, Volume= 0.744 af, Depth=10.99"
Routed to Pond B-22 : Basin #22

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 Future 100 yr Rainfall=11.23"

	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 22l: PDA-22 (impervious)



Summary for Subcatchment 22P: PDA-22 (pervious)

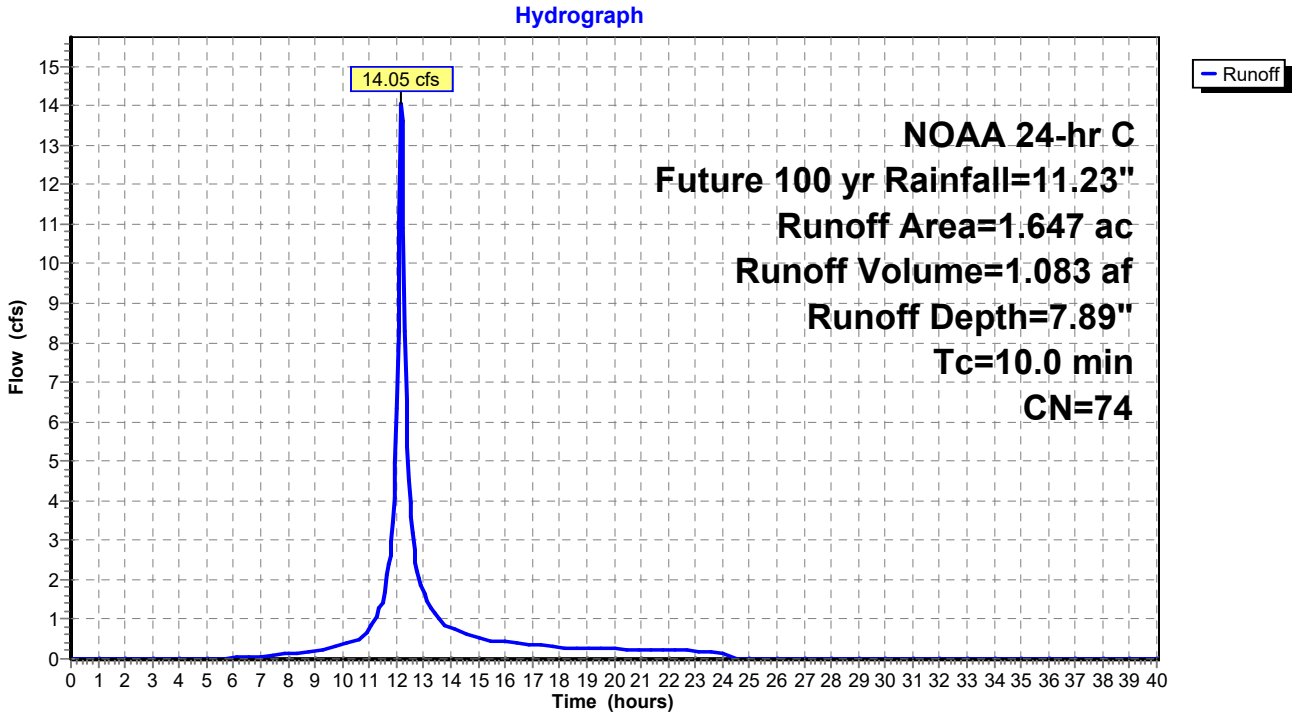
Runoff = 14.05 cfs @ 12.17 hrs, Volume= 1.083 af, Depth= 7.89"
Routed to Pond B-22 : Basin #22

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 Future 100 yr Rainfall=11.23"

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)



Summary for Subcatchment 23I: PDA-23 (impervious)

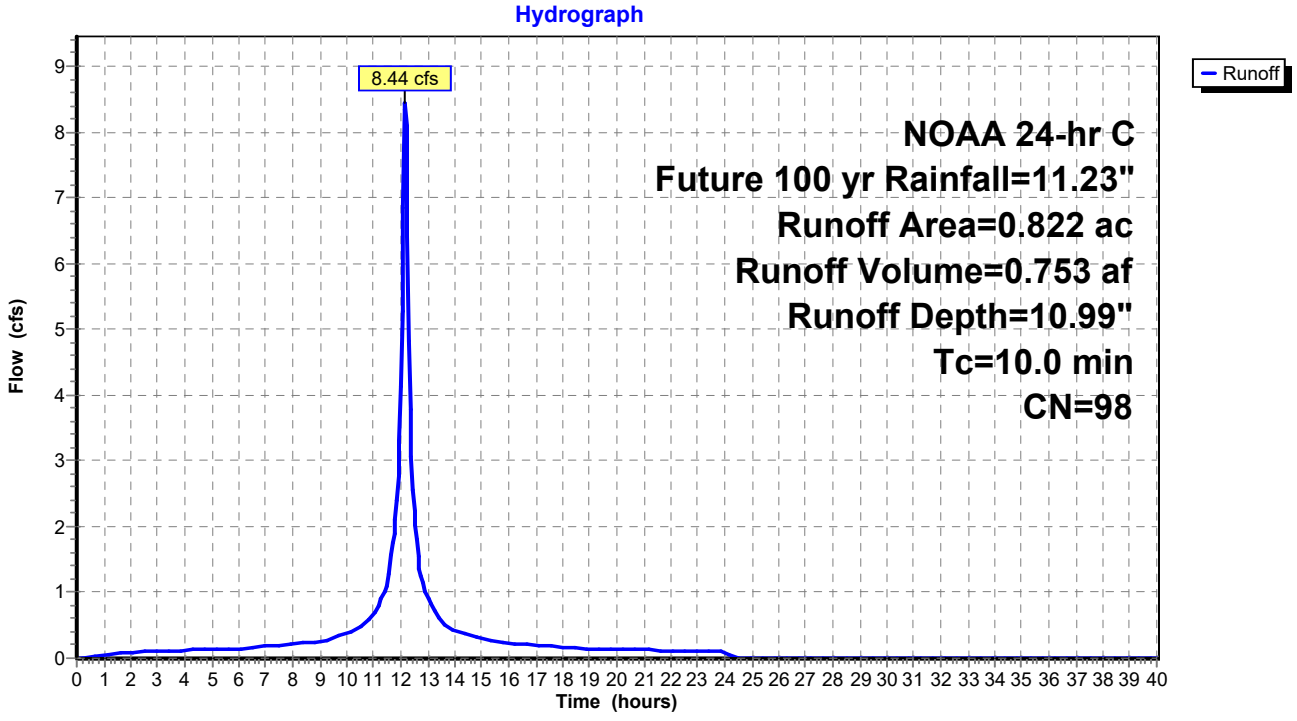
Runoff = 8.44 cfs @ 12.17 hrs, Volume= 0.753 af, Depth=10.99"
Routed to Pond B-23 : Basin #23

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 Future 100 yr Rainfall=11.23"

	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)



Summary for Subcatchment 23P: PDA-23 (pervious)

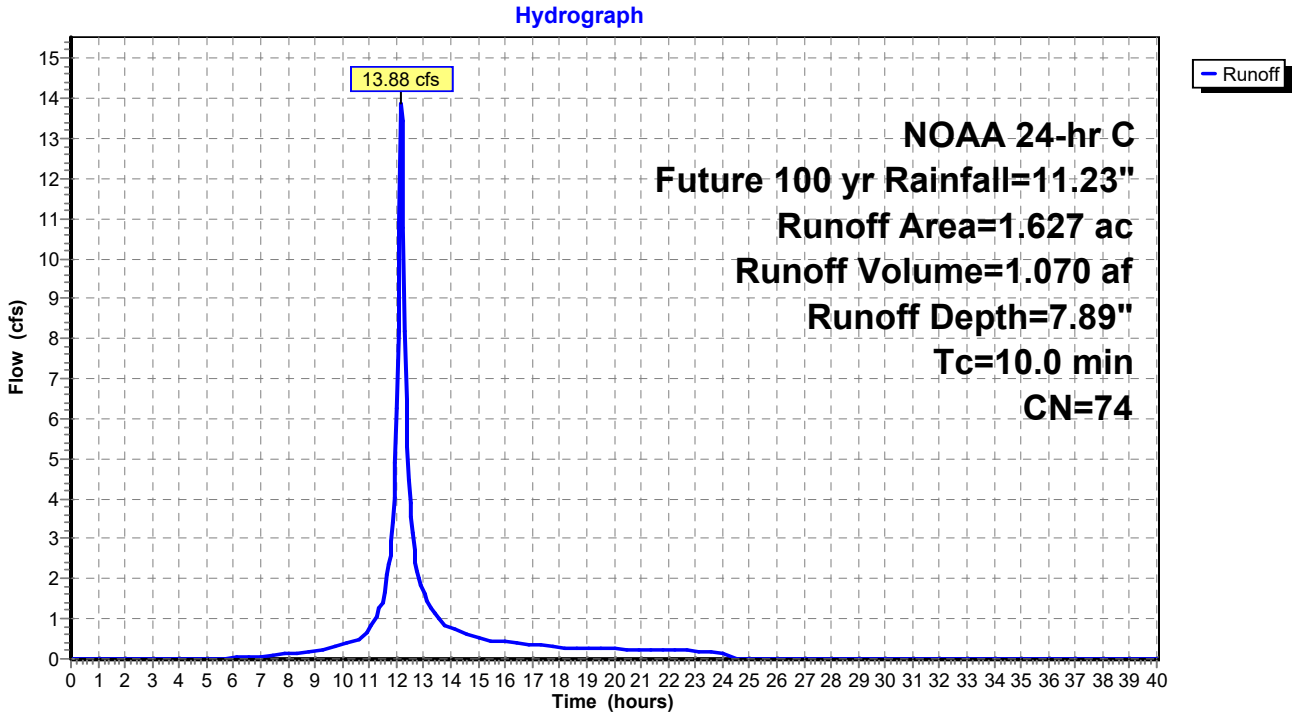
Runoff = 13.88 cfs @ 12.17 hrs, Volume= 1.070 af, Depth= 7.89"
Routed to Pond B-23 : Basin #23

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 Future 100 yr Rainfall=11.23"

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)



Summary for Subcatchment 24l: PDA-24 (impervious)

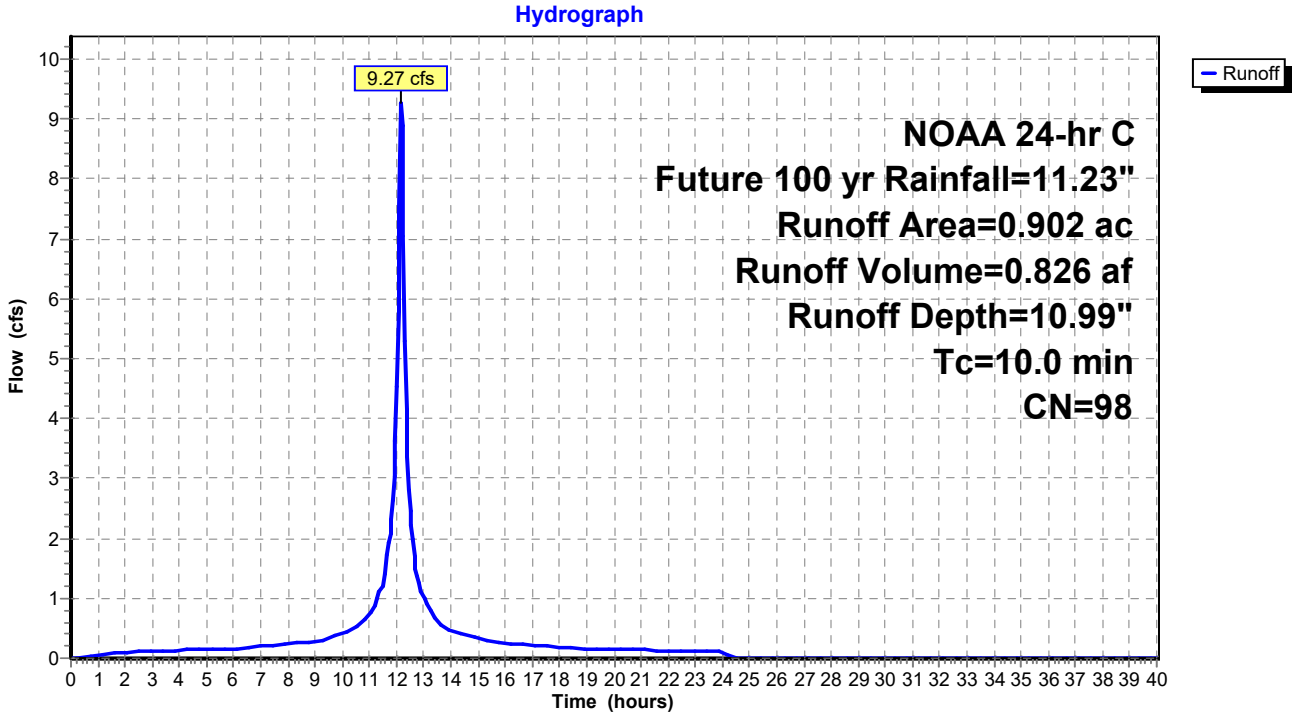
Runoff = 9.27 cfs @ 12.17 hrs, Volume= 0.826 af, Depth=10.99"
Routed to Pond B-24 : Basin #24

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 Future 100 yr Rainfall=11.23"

	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 24l: PDA-24 (impervious)



Summary for Subcatchment 24P: PDA-24 (pervious)

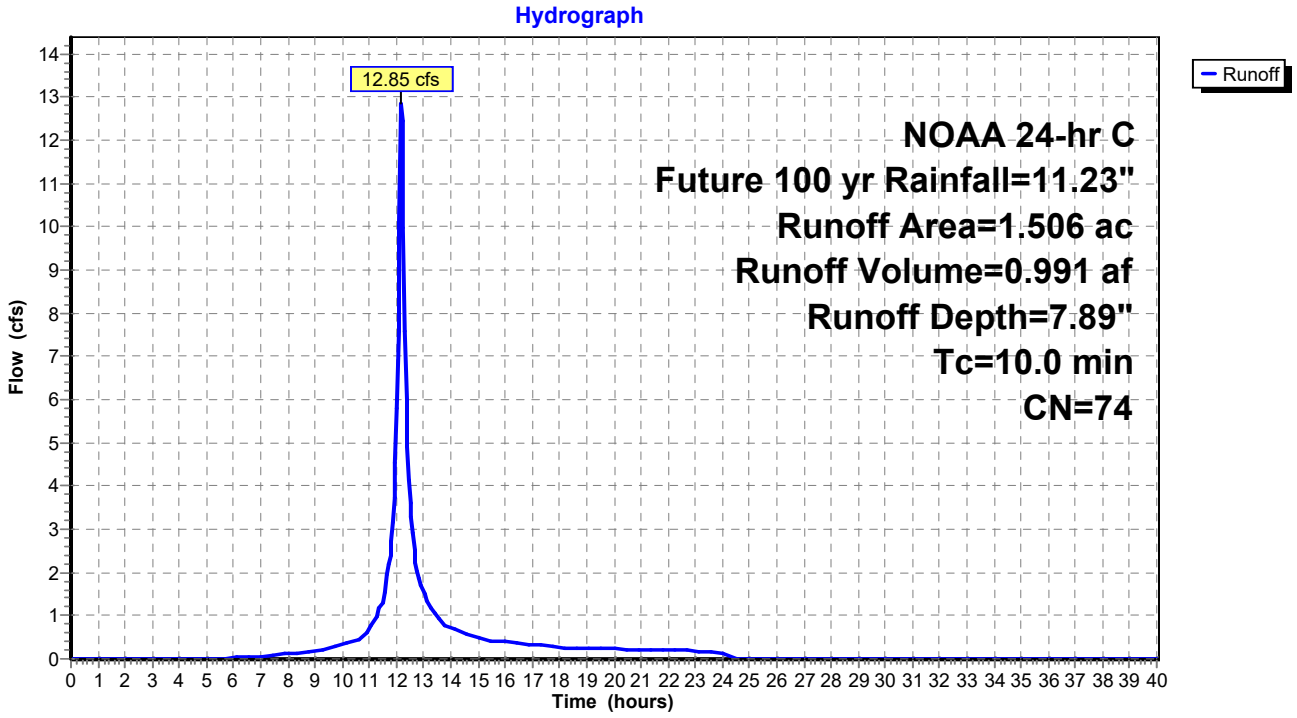
Runoff = 12.85 cfs @ 12.17 hrs, Volume= 0.991 af, Depth= 7.89"
Routed to Pond B-24 : Basin #24

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 Future 100 yr Rainfall=11.23"

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)



Summary for Subcatchment 25l: PDA-25 (impervious)

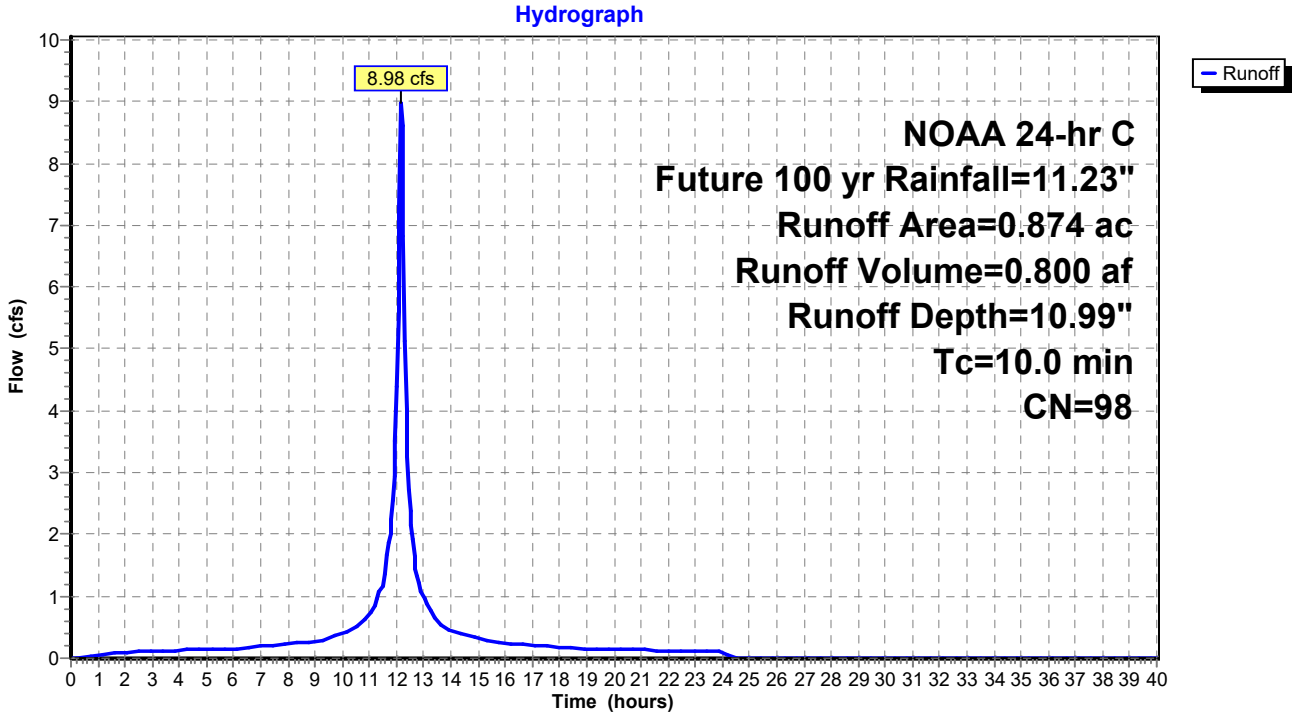
Runoff = 8.98 cfs @ 12.17 hrs, Volume= 0.800 af, Depth=10.99"
Routed to Pond B-25 : Basin #25

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 Future 100 yr Rainfall=11.23"

	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 25l: PDA-25 (impervious)



Summary for Subcatchment 25P: PDA-25 (pervious)

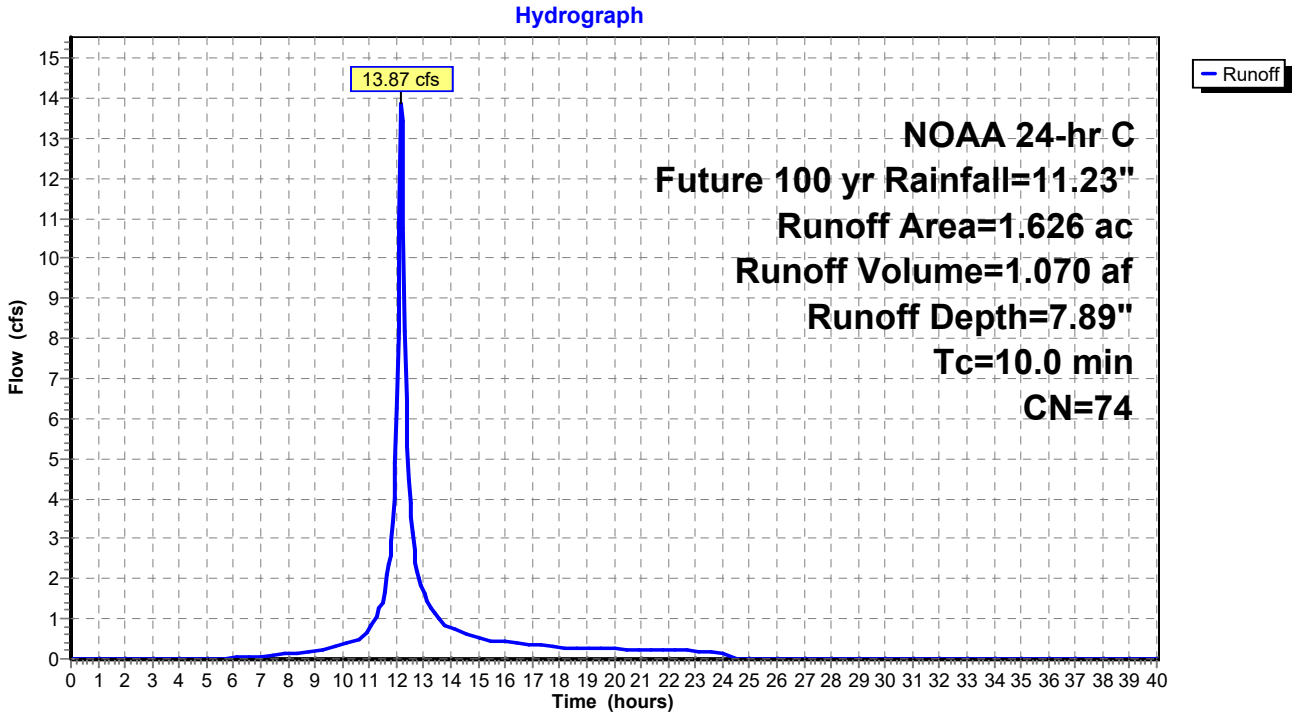
Runoff = 13.87 cfs @ 12.17 hrs, Volume= 1.070 af, Depth= 7.89"
Routed to Pond B-25 : Basin #25

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 Future 100 yr Rainfall=11.23"

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)



Summary for Subcatchment 26l: PDA-26 (impervious)

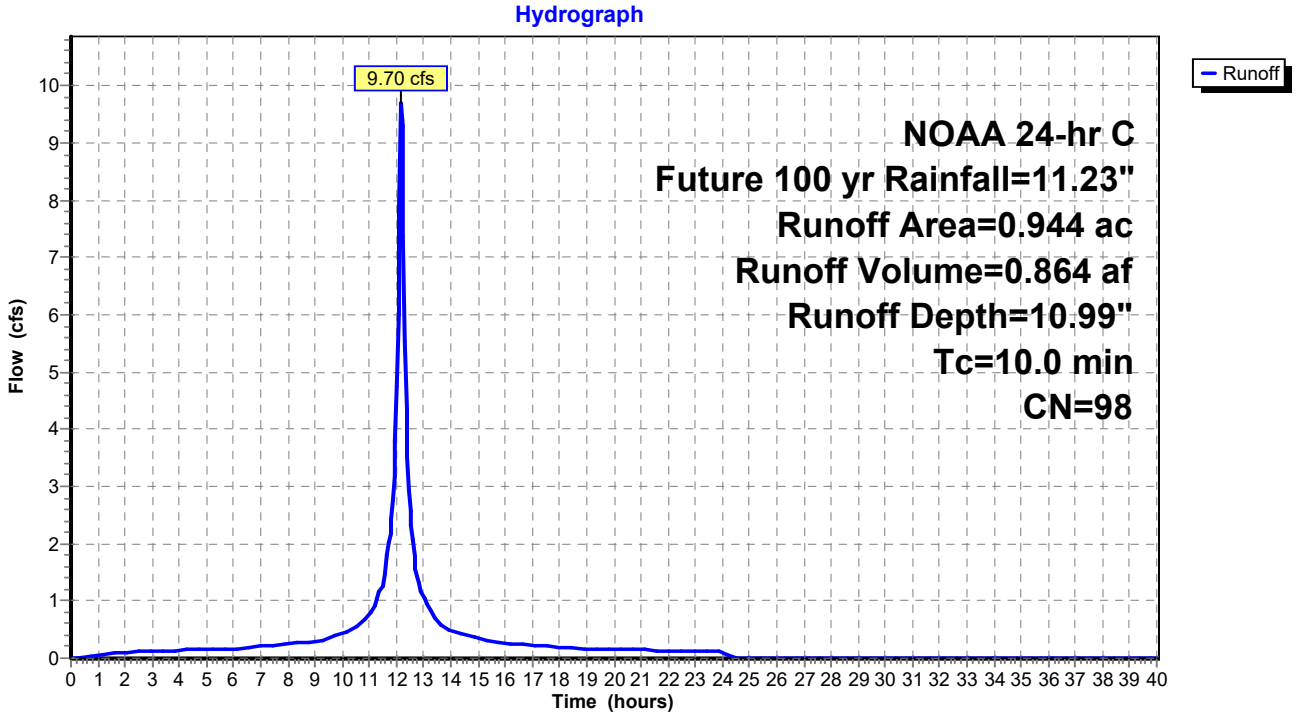
Runoff = 9.70 cfs @ 12.17 hrs, Volume= 0.864 af, Depth=10.99"
Routed to Pond B-26 : Basin #26

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 Future 100 yr Rainfall=11.23"

	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 26l: PDA-26 (impervious)



Summary for Subcatchment 26P: PDA-26 (pervious)

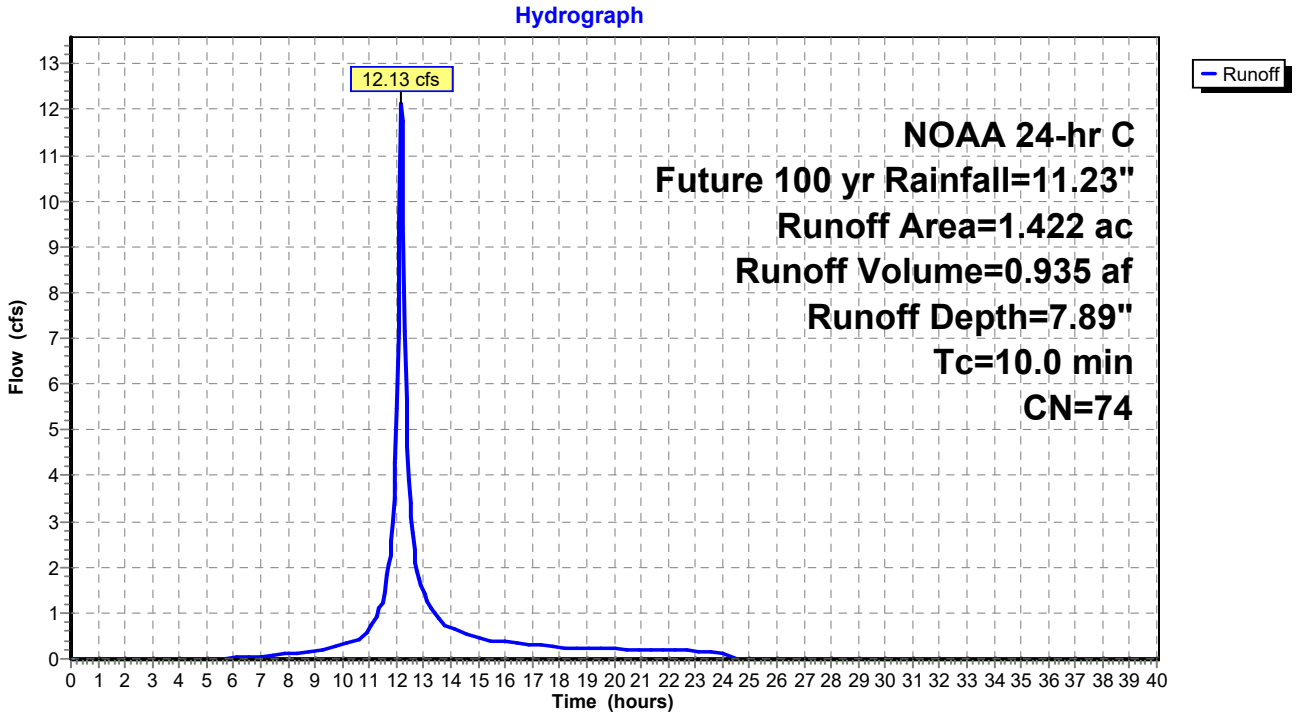
Runoff = 12.13 cfs @ 12.17 hrs, Volume= 0.935 af, Depth= 7.89"
Routed to Pond B-26 : Basin #26

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 Future 100 yr Rainfall=11.23"

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)



Summary for Subcatchment 27I: PDA-27 (impervious)

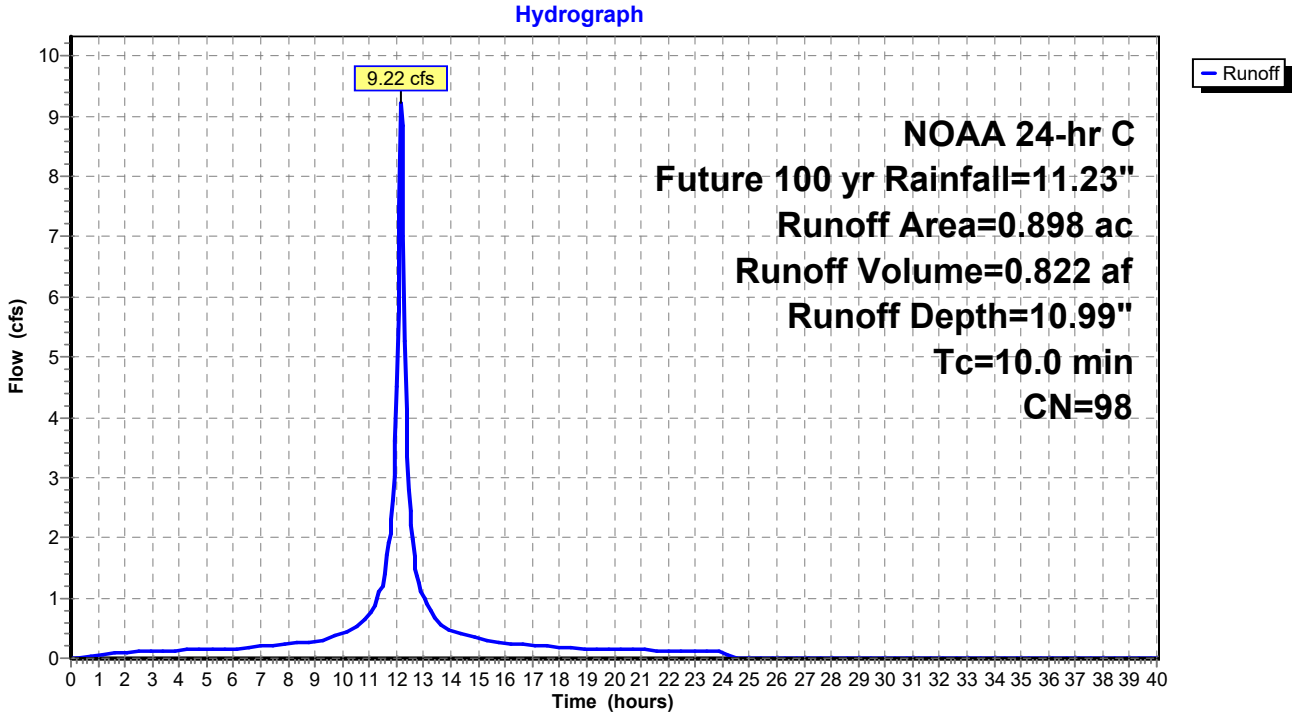
Runoff = 9.22 cfs @ 12.17 hrs, Volume= 0.822 af, Depth=10.99"
Routed to Pond B-27 : Basin #27

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 Future 100 yr Rainfall=11.23"

	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)



Summary for Subcatchment 27P: PDA-27 (pervious)

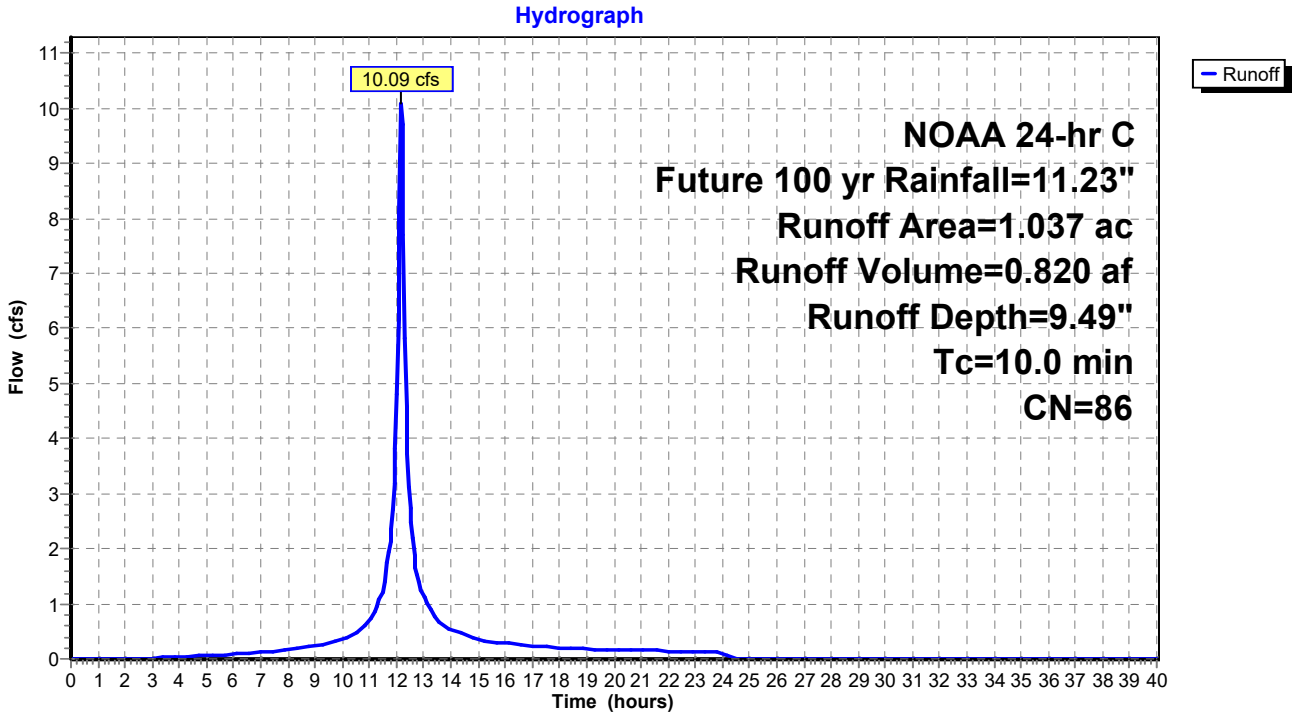
Runoff = 10.09 cfs @ 12.17 hrs, Volume= 0.820 af, Depth= 9.49"
Routed to Pond B-27 : Basin #27

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 Future 100 yr Rainfall=11.23"

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)



Summary for Subcatchment 28I: PDA-28 (impervious)

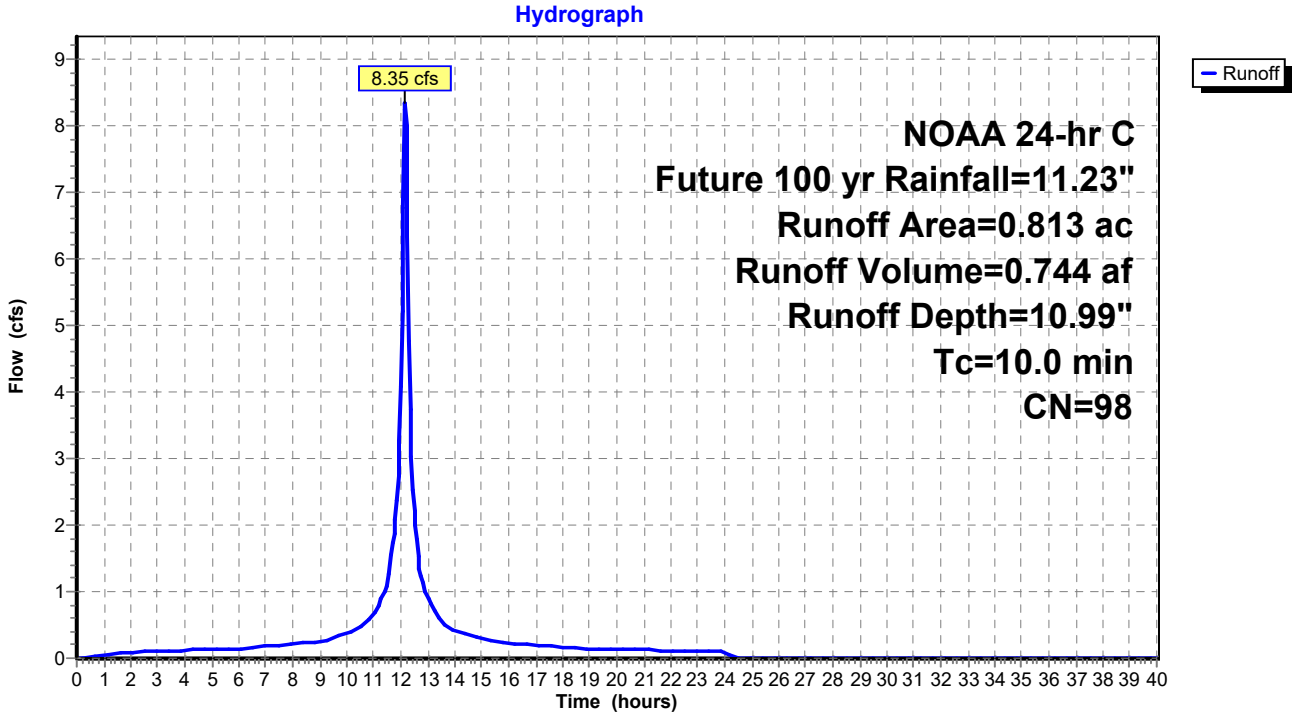
Runoff = 8.35 cfs @ 12.17 hrs, Volume= 0.744 af, Depth=10.99"
Routed to Pond B-28 : Basin #28

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 Future 100 yr Rainfall=11.23"

	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)



Summary for Subcatchment 28P: PDA-28 (pervious)

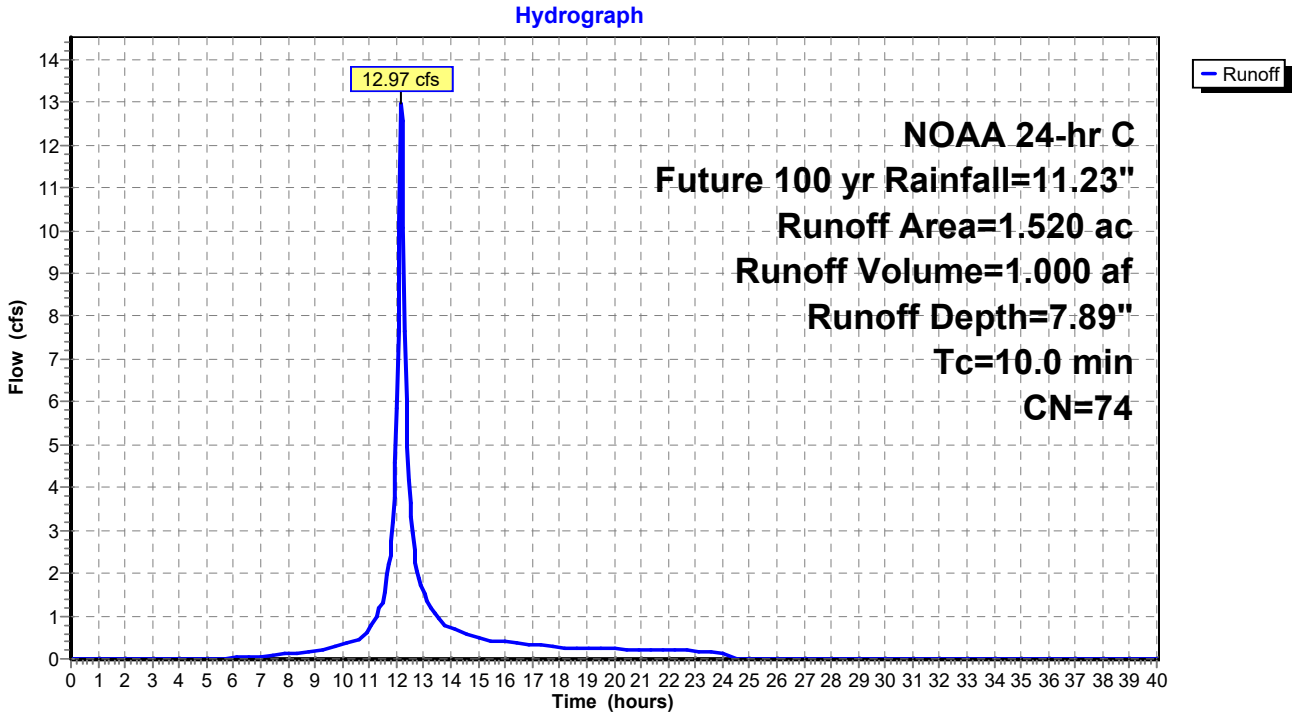
Runoff = 12.97 cfs @ 12.17 hrs, Volume= 1.000 af, Depth= 7.89"
Routed to Pond B-28 : Basin #28

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 Future 100 yr Rainfall=11.23"

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)



Summary for Subcatchment UPDA-2: PDA-2 (undetained)

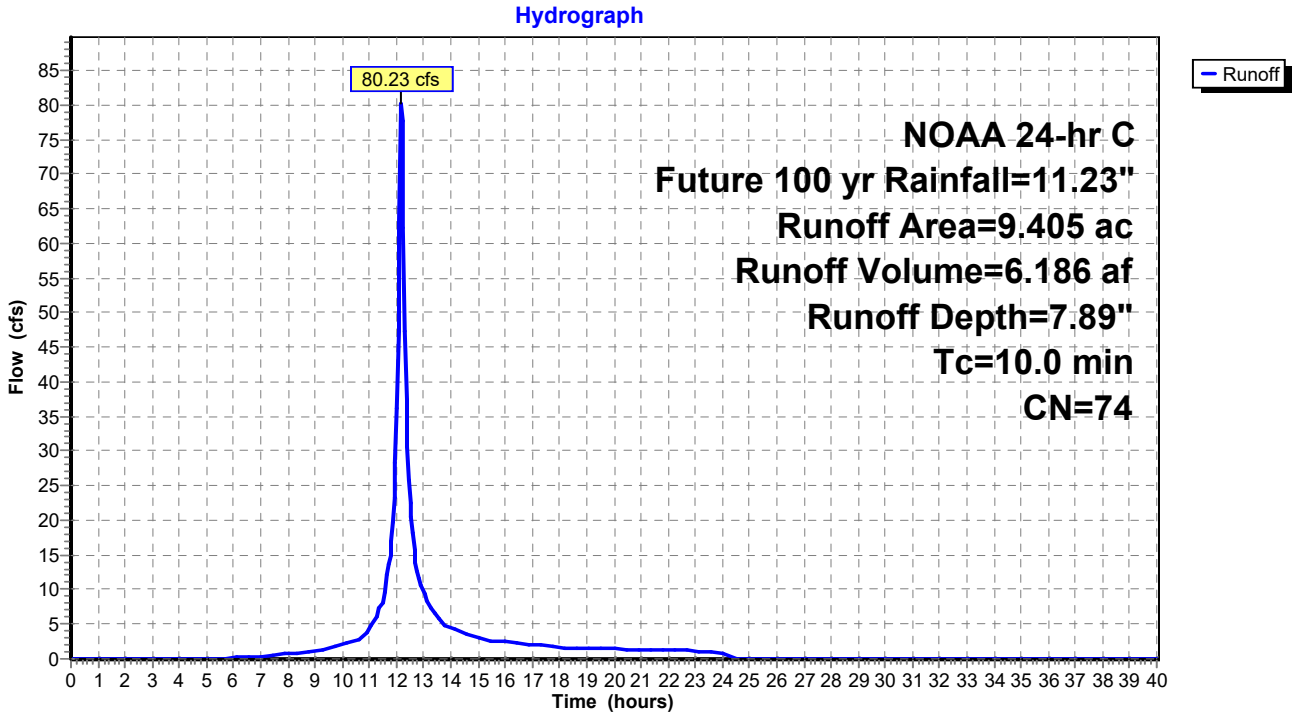
Runoff = 80.23 cfs @ 12.17 hrs, Volume= 6.186 af, Depth= 7.89"
Routed to Link PDA-2 : Proposed Drainage Area #2

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 Future 100 yr Rainfall=11.23"

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)



Summary for Pond B-18: Basin #18

Inflow Area = 1.410 ac, 31.91% Impervious, Inflow Depth = 8.88" for Future 100 yr event
Inflow = 12.81 cfs @ 12.17 hrs, Volume= 1.044 af
Outflow = 11.40 cfs @ 12.22 hrs, Volume= 0.998 af, Atten= 11%, Lag= 3.2 min
Primary = 11.40 cfs @ 12.22 hrs, Volume= 0.998 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= 190.29' @ 12.22 hrs Surf.Area= 3,432 sf Storage= 9,597 cf

Plug-Flow detention time= 156.6 min calculated for 0.997 af (96% of inflow)
Center-of-Mass det. time= 131.9 min (914.6 - 782.7)

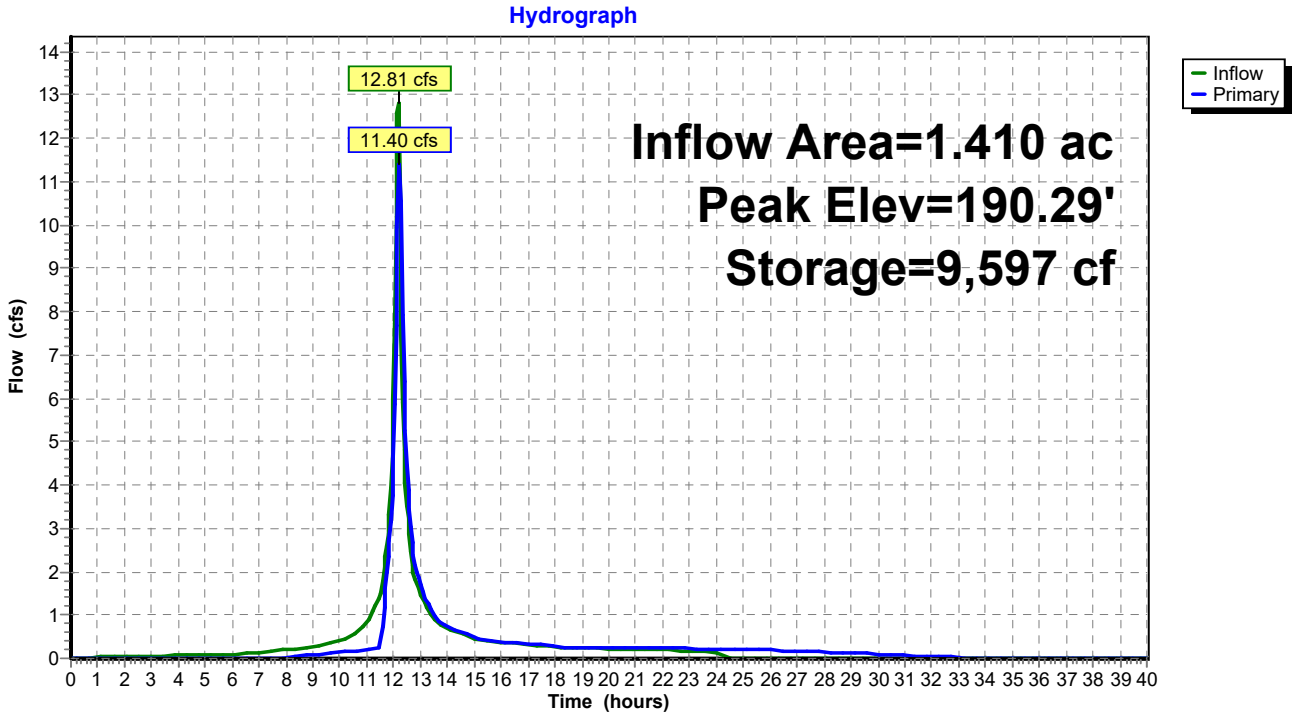
Volume	Invert	Avail.Storage	Storage Description
#1	185.65'	12,198 cf	**Custom Stage Data (Prismatic)** Listed below (Recalc)

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=11.29 cfs @ 12.22 hrs HW=190.28' (Free Discharge)
- **1=Culvert** (Inlet Controls 11.29 cfs @ 9.20 fps)
  - **2=Orifice/Grate** (Passes < 0.28 cfs potential flow)
  - **3=Sharp-Crested Rectangular Weir** (Passes < 11.32 cfs potential flow)
- **4=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)

Pond B-18: Basin #18



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)
185.65	0	0
185.66	32	0
185.67	64	1
185.68	96	1
185.69	128	3
185.70	160	4
185.71	192	6
185.72	224	8
185.73	256	10
185.74	288	13
185.75	320	16
185.76	352	19
185.77	384	23
185.78	416	27
185.79	448	31
185.80	480	36
185.81	512	41
185.82	544	46
185.83	575	52
185.84	607	58
185.85	639	64
185.86	671	70
185.87	703	77
185.88	735	85
185.89	767	92
185.90	799	100
185.91	831	108
185.92	863	117
185.93	895	125
185.94	927	134
185.95	959	144
185.96	991	154
185.97	1,023	164
185.98	1,055	174
185.99	1,087	185
186.00	1,119	196
186.01	1,123	207
186.02	1,128	218
186.03	1,132	230
186.04	1,137	241
186.05	1,141	252
186.06	1,146	264
186.07	1,150	275
186.08	1,155	287
186.09	1,159	298
186.10	1,163	310
186.11	1,168	322
186.12	1,172	333
186.13	1,177	345
186.14	1,181	357
186.15	1,186	369
186.16	1,190	381
186.17	1,195	392
186.18	1,199	404
186.19	1,204	416
186.20	1,208	429
186.21	1,212	441
186.22	1,217	453
186.23	1,221	465
186.24	1,226	477
186.25	1,230	489
186.26	1,235	502
186.27	1,239	514
186.28	1,244	527
186.29	1,248	539
186.30	1,253	552
186.31	1,257	564
186.32	1,261	577
186.33	1,266	589
186.34	1,270	602
186.35	1,275	615
186.36	1,279	628
186.37	1,284	640
186.38	1,288	653
186.39	1,293	666
186.40	1,297	679
186.41	1,301	692
186.42	1,306	705
186.43	1,310	718
186.44	1,315	731
186.45	1,319	744
186.46	1,324	758
186.47	1,328	771
186.48	1,333	784
186.49	1,337	798
186.50	1,342	811
186.51	1,346	824
186.52	1,350	838
186.53	1,355	851
186.54	1,359	865
186.55	1,364	879
186.56	1,368	892
186.57	1,373	906
186.58	1,377	920
186.59	1,382	933
186.60	1,386	947
186.61	1,390	961
186.62	1,395	975
186.63	1,399	989
186.64	1,404	1,003
186.65	1,408	1,017
186.66	1,413	1,031
186.67	1,417	1,045
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)
188.77	2,495	5,107
188.78	2,500	5,132
188.79	2,506	5,157
188.80	2,511	5,182
188.81	2,517	5,208
188.82	2,523	5,233
188.83	2,528	5,258
188.84	2,534	5,283
188.85	2,539	5,309
188.86	2,545	5,334
188.87	2,550	5,360
188.88	2,556	5,385
188.89	2,562	5,411
188.90	2,567	5,436
188.91	2,573	5,462
188.92	2,578	5,488
188.93	2,584	5,514
188.94	2,590	5,539
188.95	2,595	5,565
188.96	2,601	5,591
188.97	2,606	5,617
188.98	2,612	5,643
188.99	2,617	5,670
189.00	2,623	5,696
189.01	2,629	5,722
189.02	2,635	5,748
189.03	2,641	5,775
189.04	2,648	5,801
189.05	2,654	5,828
189.06	2,660	5,854
189.07	2,666	5,881
189.08	2,672	5,908
189.09	2,678	5,934
189.10	2,684	5,961
189.11	2,691	5,988
189.12	2,697	6,015
189.13	2,703	6,042
189.14	2,709	6,069
189.15	2,715	6,096
189.16	2,721	6,123
189.17	2,727	6,151
189.18	2,734	6,178
189.19	2,740	6,205
189.20	2,746	6,233
189.21	2,752	6,260
189.22	2,758	6,288
189.23	2,764	6,315
189.24	2,770	6,343
189.25	2,777	6,371
189.26	2,783	6,399
189.27	2,789	6,426
189.28	2,795	6,454
189.29	2,801	6,482
189.30	2,807	6,510
189.31	2,813	6,538
189.32	2,819	6,567
189.33	2,826	6,595
189.34	2,832	6,623
189.35	2,838	6,651
189.36	2,844	6,680
189.37	2,850	6,708
189.38	2,856	6,737
189.39	2,862	6,765
189.40	2,869	6,794
189.41	2,875	6,823
189.42	2,881	6,852
189.43	2,887	6,880
189.44	2,893	6,909
189.45	2,899	6,938
189.46	2,905	6,967
189.47	2,912	6,996
189.48	2,918	7,026
189.49	2,924	7,055
189.50	2,930	7,084
189.51	2,936	7,113
189.52	2,942	7,143
189.53	2,948	7,172
189.54	2,955	7,202
189.55	2,961	7,231
189.56	2,967	7,261
189.57	2,973	7,291
189.58	2,979	7,320
189.59	2,985	7,350
189.60	2,991	7,380
189.61	2,998	7,410
189.62	3,004	7,440
189.63	3,010	7,470
189.64	3,016	7,500
189.65	3,022	7,530
189.66	3,028	7,561
189.67	3,034	7,591
189.68	3,041	7,621
189.69	3,047	7,652
189.70	3,053	7,682
189.71	3,059	7,713
189.72	3,065	7,744
189.73	3,071	7,774
189.74	3,077	7,805
189.75	3,084	7,836
189.76	3,090	7,867
189.77	3,096	7,898
189.78	3,102	7,929
189.79	3,108	7,960
189.80	3,114	7,991

Stage-Area-Storage for Pond B-18: Basin #18 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
189.81	3,120	8,022
189.82	3,126	8,053
189.83	3,133	8,084
189.84	3,139	8,116
189.85	3,145	8,147
189.86	3,151	8,179
189.87	3,157	8,210
189.88	3,163	8,242
189.89	3,169	8,273
189.90	3,176	8,305
189.91	3,182	8,337
189.92	3,188	8,369
189.93	3,194	8,401
189.94	3,200	8,433
189.95	3,206	8,465
189.96	3,212	8,497
189.97	3,219	8,529
189.98	3,225	8,561
189.99	3,231	8,593
190.00	3,237	8,626
190.01	3,244	8,658
190.02	3,250	8,691
190.03	3,257	8,723
190.04	3,264	8,756
190.05	3,271	8,789
190.06	3,277	8,821
190.07	3,284	8,854
190.08	3,291	8,887
190.09	3,297	8,920
190.10	3,304	8,953
190.11	3,311	8,986
190.12	3,318	9,019
190.13	3,324	9,052
190.14	3,331	9,086
190.15	3,338	9,119
190.16	3,344	9,152
190.17	3,351	9,186
190.18	3,358	9,219
190.19	3,364	9,253
190.20	3,371	9,287
190.21	3,378	9,320
190.22	3,385	9,354
190.23	3,391	9,388
190.24	3,398	9,422
190.25	3,405	9,456
190.26	3,411	9,490
190.27	3,418	9,524
190.28	3,425	9,558
190.29	3,432	9,593
190.30	3,438	9,627
190.31	3,445	9,662
190.32	3,452	9,696
190.33	3,458	9,731
190.34	3,465	9,765
190.35	3,472	9,800
190.36	3,479	9,835
190.37	3,485	9,869
190.38	3,492	9,904
190.39	3,499	9,939
190.40	3,505	9,974
190.41	3,512	10,009
190.42	3,519	10,045
190.43	3,526	10,080
190.44	3,532	10,115
190.45	3,539	10,150
190.46	3,546	10,186
190.47	3,552	10,221
190.48	3,559	10,257
190.49	3,566	10,293
190.50	3,573	10,328
190.51	3,579	10,364
190.52	3,586	10,400
190.53	3,593	10,436
190.54	3,599	10,472
190.55	3,606	10,508
190.56	3,613	10,544
190.57	3,619	10,580
190.58	3,626	10,616
190.59	3,633	10,652
190.60	3,640	10,689
190.61	3,646	10,725
190.62	3,653	10,762
190.63	3,660	10,798
190.64	3,666	10,835
190.65	3,673	10,872
190.66	3,680	10,908
190.67	3,687	10,945
190.68	3,693	10,982
190.69	3,700	11,019
190.70	3,707	11,056
190.71	3,713	11,093
190.72	3,720	11,130
190.73	3,727	11,168
190.74	3,734	11,205
190.75	3,740	11,242
190.76	3,747	11,280
190.77	3,754	11,317
190.78	3,760	11,355
190.79	3,767	11,392
190.80	3,774	11,430
190.81	3,781	11,468
190.82	3,787	11,506
190.83	3,794	11,544
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 = 8.97" for Future 100 yr event
Inflow = 15.67 cfs @ 12.17 hrs, Volume= 1.282 af
Outflow = 13.78 cfs @ 12.23 hrs, Volume= 1.221 af, Atten= 12%, Lag= 3.3 min
Primary = 13.78 cfs @ 12.23 hrs, Volume= 1.221 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= 198.81' @ 12.23 hrs Surf.Area= 4,407 sf Storage= 12,130 cf

Plug-Flow detention time= 164.8 min calculated for 1.219 af (95% of inflow)
Center-of-Mass det. time= 138.0 min (918.5 - 780.5)

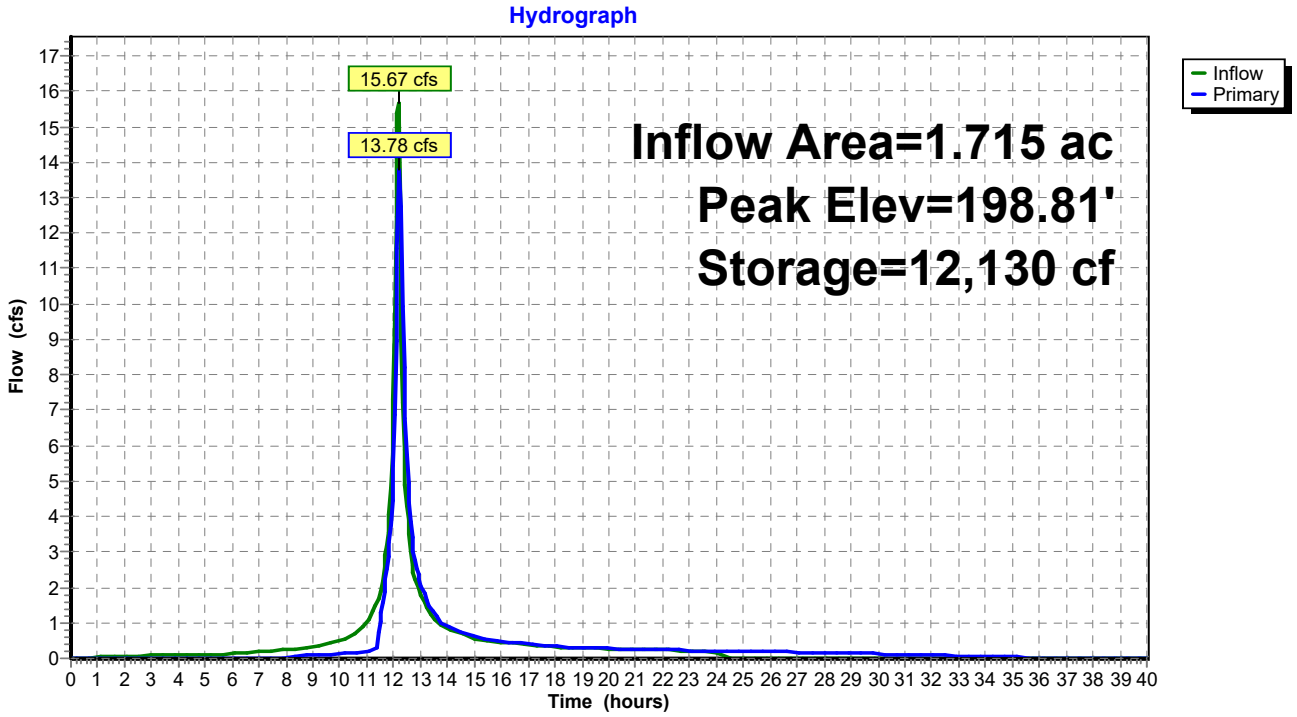
Volume	Invert	Avail.Storage	Storage Description
#1	194.65'	12,982 cf	**Custom Stage Data (Prismatic)** Listed below (Recalc)

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=13.57 cfs @ 12.23 hrs HW=198.80' (Free Discharge)
- **1=Culvert** (Passes 13.57 cfs of 16.47 cfs potential flow)
  - **2=Orifice/Grate** (Orifice Controls 0.27 cfs @ 7.90 fps)
  - **3=Sharp-Crested Rectangular Weir** (Weir Controls 13.30 cfs @ 3.35 fps)
- **4=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)

Pond B-19: Basin #19



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 = 9.32" for Future 100 yr event
Inflow = 22.89 cfs @ 12.17 hrs, Volume= 1.905 af
Outflow = 13.43 cfs @ 12.30 hrs, Volume= 1.768 af, Atten= 41%, Lag= 8.0 min
Primary = 13.43 cfs @ 12.30 hrs, Volume= 1.768 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= 154.24' @ 12.30 hrs Surf.Area= 8,554 sf Storage= 23,781 cf

Plug-Flow detention time= 183.1 min calculated for 1.766 af (93% of inflow)
Center-of-Mass det. time= 144.3 min (917.0 - 772.6)

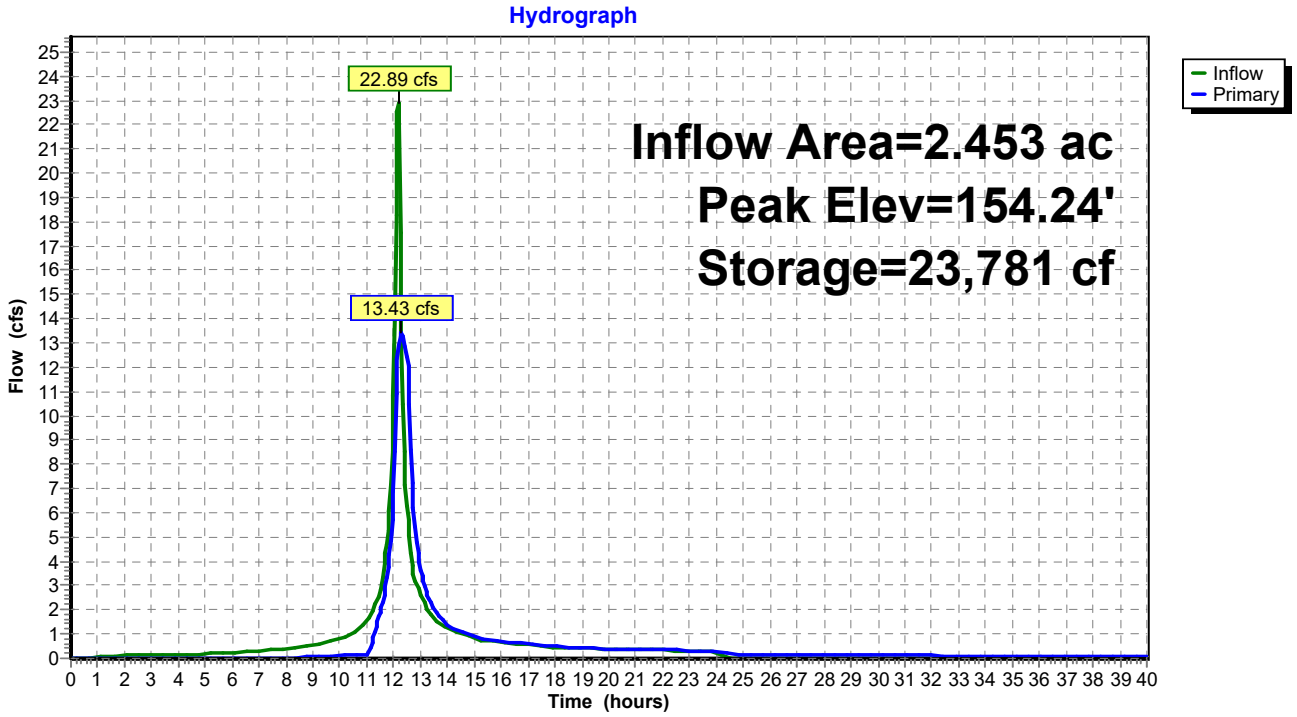
Volume	Invert	Avail.Storage	Storage Description
#1	150.87'	35,230 cf	**Custom Stage Data (Prismatic)** Listed below (Recalc)

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=13.42 cfs @ 12.30 hrs HW=154.24' (Free Discharge)
- **1=Culvert** (Inlet Controls 13.42 cfs @ 7.60 fps)
  - **2=Orifice/Grate** (Passes < 0.26 cfs potential flow)
  - **3=Sharp-Crested Rectangular Weir** (Passes < 21.99 cfs potential flow)
- **4=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)

Pond B-20: Basin #20



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 = 8.99" for Future 100 yr event
Inflow = 22.87 cfs @ 12.17 hrs, Volume= 1.873 af
Outflow = 16.12 cfs @ 12.27 hrs, Volume= 1.738 af, Atten= 30%, Lag= 5.8 min
Primary = 16.12 cfs @ 12.27 hrs, Volume= 1.738 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= 153.64' @ 12.27 hrs Surf.Area= 8,504 sf Storage= 24,318 cf

Plug-Flow detention time= 215.7 min calculated for 1.738 af (93% of inflow)
Center-of-Mass det. time= 175.7 min (955.8 - 780.1)

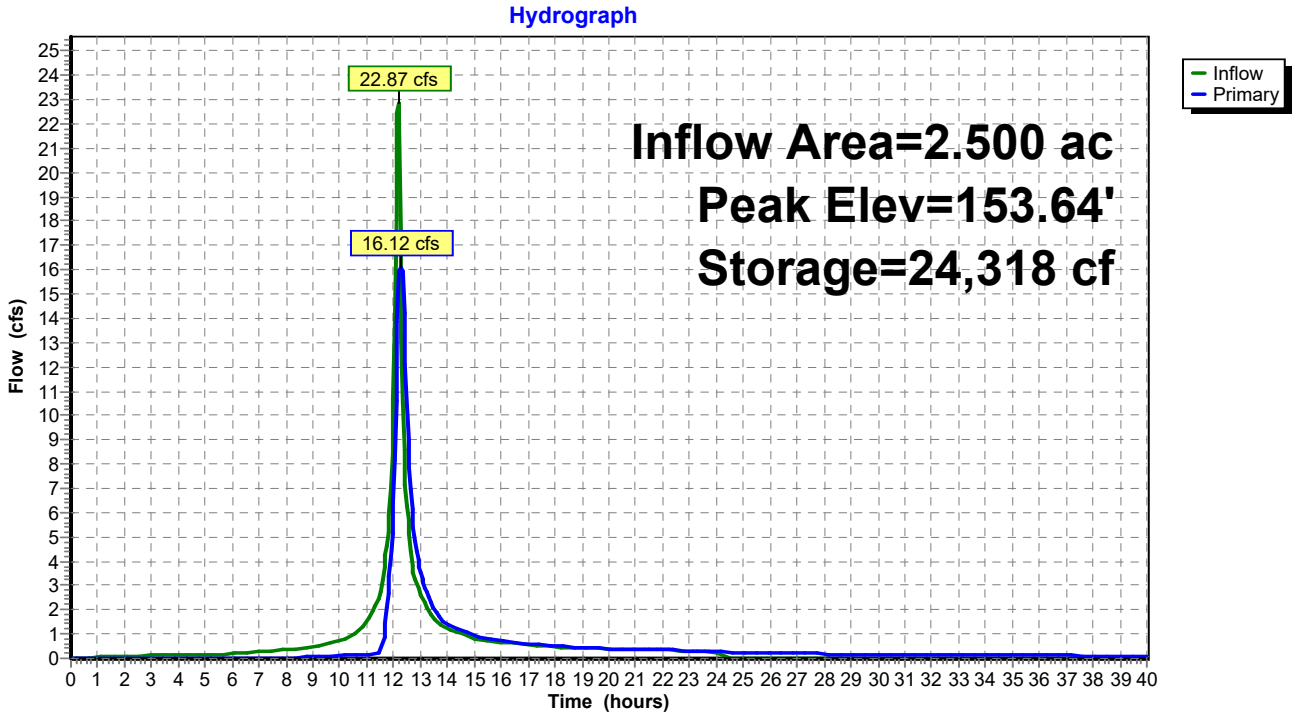
Volume	Invert	Avail.Storage	Storage Description
#1	149.90'	42,109 cf	**Custom Stage Data (Prismatic)** Listed below (Recalc)

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=16.10 cfs @ 12.27 hrs HW=153.63' (Free Discharge)
- **1=Culvert** (Inlet Controls 16.10 cfs @ 9.11 fps)
  - **2=Orifice/Grate** (Passes < 0.28 cfs potential flow)
  - **3=Sharp-Crested Rectangular Weir** (Passes < 18.10 cfs potential flow)
- **4=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)

Pond B-21: Basin #21



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)
149.90	0	0
149.91	485	2
149.92	970	10
149.93	1,454	22
149.94	1,939	39
149.95	2,424	61
149.96	2,909	87
149.97	3,394	119
149.98	3,878	155
149.99	4,363	196
150.00	4,848	242
150.01	4,857	291
150.02	4,867	340
150.03	4,876	388
150.04	4,885	437
150.05	4,894	486
150.06	4,904	535
150.07	4,913	584
150.08	4,922	633
150.09	4,932	682
150.10	4,941	732
150.11	4,950	781
150.12	4,959	831
150.13	4,969	880
150.14	4,978	930
150.15	4,987	980
150.16	4,996	1,030
150.17	5,006	1,080
150.18	5,015	1,130
150.19	5,024	1,180
150.20	5,034	1,231
150.21	5,043	1,281
150.22	5,052	1,331
150.23	5,061	1,382
150.24	5,071	1,433
150.25	5,080	1,483
150.26	5,089	1,534
150.27	5,099	1,585
150.28	5,108	1,636
150.29	5,117	1,687
150.30	5,126	1,739
150.31	5,136	1,790
150.32	5,145	1,841
150.33	5,154	1,893
150.34	5,164	1,944
150.35	5,173	1,996
150.36	5,182	2,048
150.37	5,191	2,100
150.38	5,201	2,152
150.39	5,210	2,204
150.40	5,219	2,256
150.41	5,228	2,308
150.42	5,238	2,360
150.43	5,247	2,413
150.44	5,256	2,465
150.45	5,266	2,518
150.46	5,275	2,571
150.47	5,284	2,623
150.48	5,293	2,676
150.49	5,303	2,729
150.50	5,312	2,782
150.51	5,321	2,836
150.52	5,331	2,889
150.53	5,340	2,942
150.54	5,349	2,996
150.55	5,358	3,049
150.56	5,368	3,103
150.57	5,377	3,157
150.58	5,386	3,210
150.59	5,396	3,264
150.60	5,405	3,318
150.61	5,414	3,372
150.62	5,423	3,427
150.63	5,433	3,481
150.64	5,442	3,535
150.65	5,451	3,590
150.66	5,460	3,644
150.67	5,470	3,699
150.68	5,479	3,754
150.69	5,488	3,808
150.70	5,498	3,863
150.71	5,507	3,918
150.72	5,516	3,973
150.73	5,525	4,029
150.74	5,535	4,084
150.75	5,544	4,139
150.76	5,553	4,195
150.77	5,563	4,250
150.78	5,572	4,306
150.79	5,581	4,362
150.80	5,590	4,418
150.81	5,600	4,474
150.82	5,609	4,530
150.83	5,618	4,586
150.84	5,628	4,642
150.85	5,637	4,698
150.86	5,646	4,755
150.87	5,655	4,811
150.88	5,665	4,868
150.89	5,674	4,925
150.90	5,683	4,981
150.91	5,692	5,038
150.92	5,702	5,095
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 = 8.92" for Future 100 yr event
Inflow = 22.40 cfs @ 12.17 hrs, Volume= 1.828 af
Outflow = 13.98 cfs @ 12.29 hrs, Volume= 1.685 af, Atten= 38%, Lag= 7.3 min
Primary = 13.98 cfs @ 12.29 hrs, Volume= 1.685 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= 150.75' @ 12.29 hrs Surf.Area= 9,845 sf Storage= 25,395 cf

Plug-Flow detention time= 213.2 min calculated for 1.683 af (92% of inflow)
Center-of-Mass det. time= 171.9 min (953.8 - 781.8)

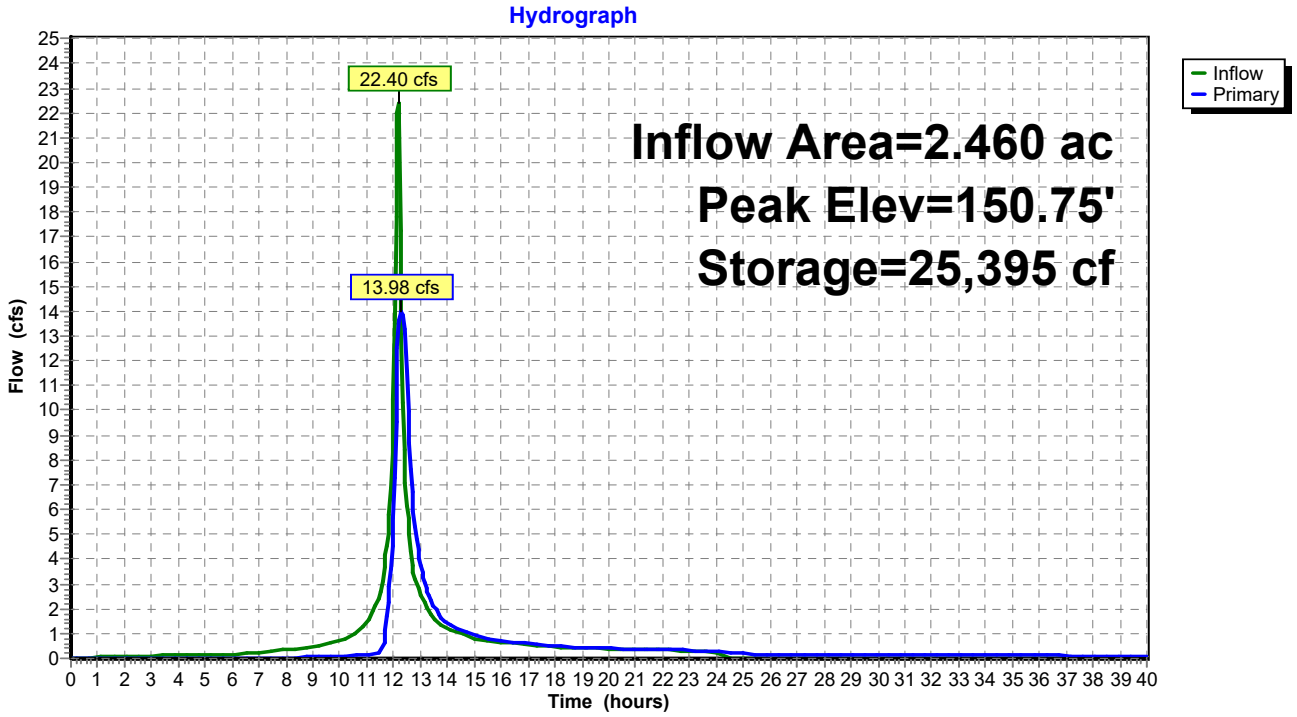
Volume	Invert	Avail.Storage	Storage Description
#1	147.30'	50,528 cf	**Custom Stage Data (Prismatic)** Listed below (Recalc)

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=13.97 cfs @ 12.29 hrs HW=150.75' (Free Discharge)
- **1=Culvert** (Inlet Controls 13.97 cfs @ 7.91 fps)
  - **2=Orifice/Grate** (Passes < 0.26 cfs potential flow)
  - **3=Sharp-Crested Rectangular Weir** (Passes < 17.65 cfs potential flow)
- **4=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)

Pond B-22: Basin #22



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)
147.30	0	0
147.31	99	0
147.32	198	2
147.33	297	4
147.34	396	8
147.35	495	12
147.36	594	18
147.37	693	24
147.38	792	32
147.39	891	40
147.40	990	49
147.41	1,089	60
147.42	1,188	71
147.43	1,287	84
147.44	1,386	97
147.45	1,485	111
147.46	1,584	127
147.47	1,683	143
147.48	1,781	160
147.49	1,880	179
147.50	1,979	198
147.51	2,078	218
147.52	2,177	240
147.53	2,276	262
147.54	2,375	285
147.55	2,474	309
147.56	2,573	335
147.57	2,672	361
147.58	2,771	388
147.59	2,870	416
147.60	2,969	445
147.61	3,068	476
147.62	3,167	507
147.63	3,266	539
147.64	3,365	572
147.65	3,464	606
147.66	3,563	641
147.67	3,662	677
147.68	3,761	715
147.69	3,860	753
147.70	3,959	792
147.71	4,058	832
147.72	4,157	873
147.73	4,256	915
147.74	4,355	958
147.75	4,454	1,002
147.76	4,553	1,047
147.77	4,652	1,093
147.78	4,751	1,140
147.79	4,850	1,188
147.80	4,949	1,237
147.81	5,048	1,287
147.82	5,147	1,338
147.83	5,245	1,390
147.84	5,344	1,443
147.85	5,443	1,497
147.86	5,542	1,552
147.87	5,641	1,608
147.88	5,740	1,665
147.89	5,839	1,723
147.90	5,938	1,781
147.91	6,037	1,841
147.92	6,136	1,902
147.93	6,235	1,964
147.94	6,334	2,027
147.95	6,433	2,091
147.96	6,532	2,156
147.97	6,631	2,221
147.98	6,730	2,288
147.99	6,829	2,356
148.00	6,928	2,425
148.01	6,938	2,494
148.02	6,948	2,564
148.03	6,958	2,633
148.04	6,968	2,703
148.05	6,978	2,772
148.06	6,989	2,842
148.07	6,999	2,912
148.08	7,009	2,982
148.09	7,019	3,052
148.10	7,029	3,123
148.11	7,039	3,193
148.12	7,049	3,263
148.13	7,059	3,334
148.14	7,069	3,405
148.15	7,079	3,475
148.16	7,089	3,546
148.17	7,100	3,617
148.18	7,110	3,688
148.19	7,120	3,759
148.20	7,130	3,831
148.21	7,140	3,902
148.22	7,150	3,973
148.23	7,160	4,045
148.24	7,170	4,117
148.25	7,180	4,188
148.26	7,190	4,260
148.27	7,200	4,332
148.28	7,211	4,404
148.29	7,221	4,476
148.30	7,231	4,549
148.31	7,241	4,621
148.32	7,251	4,693
148.33	7,261	4,766

Stage-Area-Storage for Pond B-22: Basin #22 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
148.34	7,271	4,839
148.35	7,281	4,911
148.36	7,291	4,984
148.37	7,301	5,057
148.38	7,311	5,130
148.39	7,322	5,203
148.40	7,332	5,277
148.41	7,342	5,350
148.42	7,352	5,424
148.43	7,362	5,497
148.44	7,372	5,571
148.45	7,382	5,645
148.46	7,392	5,718
148.47	7,402	5,792
148.48	7,412	5,866
148.49	7,422	5,941
148.50	7,433	6,015
148.51	7,443	6,089
148.52	7,453	6,164
148.53	7,463	6,238
148.54	7,473	6,313
148.55	7,483	6,388
148.56	7,493	6,463
148.57	7,503	6,538
148.58	7,513	6,613
148.59	7,523	6,688
148.60	7,533	6,763
148.61	7,543	6,839
148.62	7,554	6,914
148.63	7,564	6,990
148.64	7,574	7,065
148.65	7,584	7,141
148.66	7,594	7,217
148.67	7,604	7,293
148.68	7,614	7,369
148.69	7,624	7,445
148.70	7,634	7,522
148.71	7,644	7,598
148.72	7,654	7,674
148.73	7,665	7,751
148.74	7,675	7,828
148.75	7,685	7,905
148.76	7,695	7,981
148.77	7,705	8,058
148.78	7,715	8,136
148.79	7,725	8,213
148.80	7,735	8,290
148.81	7,745	8,367
148.82	7,755	8,445
148.83	7,765	8,523
148.84	7,776	8,600
148.85	7,786	8,678
148.86	7,796	8,756
148.87	7,806	8,834
148.88	7,816	8,912
148.89	7,826	8,990
148.90	7,836	9,069
148.91	7,846	9,147
148.92	7,856	9,226
148.93	7,866	9,304
148.94	7,876	9,383
148.95	7,887	9,462
148.96	7,897	9,541
148.97	7,907	9,620
148.98	7,917	9,699
148.99	7,927	9,778
149.00	7,937	9,857
149.01	7,948	9,937
149.02	7,958	10,016
149.03	7,969	10,096
149.04	7,980	10,176
149.05	7,990	10,255
149.06	8,001	10,335
149.07	8,012	10,416
149.08	8,022	10,496
149.09	8,033	10,576
149.10	8,044	10,656
149.11	8,054	10,737
149.12	8,065	10,817
149.13	8,076	10,898
149.14	8,086	10,979
149.15	8,097	11,060
149.16	8,108	11,141
149.17	8,118	11,222
149.18	8,129	11,303
149.19	8,140	11,385
149.20	8,150	11,466
149.21	8,161	11,548
149.22	8,172	11,629
149.23	8,182	11,711
149.24	8,193	11,793
149.25	8,204	11,875
149.26	8,214	11,957
149.27	8,225	12,039
149.28	8,235	12,121
149.29	8,246	12,204
149.30	8,257	12,286
149.31	8,267	12,369
149.32	8,278	12,452
149.33	8,289	12,535
149.34	8,299	12,617
149.35	8,310	12,701
149.36	8,321	12,784
149.37	8,331	12,867

Stage-Area-Storage for Pond B-22: Basin #22 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
149.38	8,342	12,950
149.39	8,353	13,034
149.40	8,363	13,117
149.41	8,374	13,201
149.42	8,385	13,285
149.43	8,395	13,369
149.44	8,406	13,453
149.45	8,417	13,537
149.46	8,427	13,621
149.47	8,438	13,705
149.48	8,449	13,790
149.49	8,459	13,874
149.50	8,470	13,959
149.51	8,481	14,044
149.52	8,491	14,129
149.53	8,502	14,214
149.54	8,513	14,299
149.55	8,523	14,384
149.56	8,534	14,469
149.57	8,545	14,555
149.58	8,555	14,640
149.59	8,566	14,726
149.60	8,577	14,811
149.61	8,587	14,897
149.62	8,598	14,983
149.63	8,609	15,069
149.64	8,619	15,155
149.65	8,630	15,242
149.66	8,641	15,328
149.67	8,651	15,414
149.68	8,662	15,501
149.69	8,673	15,588
149.70	8,683	15,674
149.71	8,694	15,761
149.72	8,705	15,848
149.73	8,715	15,935
149.74	8,726	16,023
149.75	8,737	16,110
149.76	8,747	16,197
149.77	8,758	16,285
149.78	8,768	16,372
149.79	8,779	16,460
149.80	8,790	16,548
149.81	8,800	16,636
149.82	8,811	16,724
149.83	8,822	16,812
149.84	8,832	16,900
149.85	8,843	16,989
149.86	8,854	17,077
149.87	8,864	17,166
149.88	8,875	17,255
149.89	8,886	17,343
149.90	8,896	17,432
149.91	8,907	17,521
149.92	8,918	17,610
149.93	8,928	17,700
149.94	8,939	17,789
149.95	8,950	17,878
149.96	8,960	17,968
149.97	8,971	18,058
149.98	8,982	18,147
149.99	8,992	18,237
150.00	9,003	18,327
150.01	9,014	18,417
150.02	9,025	18,508
150.03	9,037	18,598
150.04	9,048	18,688
150.05	9,059	18,779
150.06	9,070	18,869
150.07	9,082	18,960
150.08	9,093	19,051
150.09	9,104	19,142
150.10	9,115	19,233
150.11	9,126	19,324
150.12	9,138	19,416
150.13	9,149	19,507
150.14	9,160	19,599
150.15	9,171	19,690
150.16	9,183	19,782
150.17	9,194	19,874
150.18	9,205	19,966
150.19	9,216	20,058
150.20	9,227	20,150
150.21	9,239	20,243
150.22	9,250	20,335
150.23	9,261	20,428
150.24	9,272	20,520
150.25	9,284	20,613
150.26	9,295	20,706
150.27	9,306	20,799
150.28	9,317	20,892
150.29	9,328	20,985
150.30	9,340	21,079
150.31	9,351	21,172
150.32	9,362	21,266
150.33	9,373	21,359
150.34	9,384	21,453
150.35	9,396	21,547
150.36	9,407	21,641
150.37	9,418	21,735
150.38	9,429	21,829
150.39	9,441	21,924
150.40	9,452	22,018
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)
151.46	10,667	32,674
151.47	10,679	32,780
151.48	10,691	32,887
151.49	10,703	32,994
151.50	10,715	33,101
151.51	10,726	33,208
151.52	10,738	33,316
151.53	10,750	33,423
151.54	10,762	33,531
151.55	10,773	33,638
151.56	10,785	33,746
151.57	10,797	33,854
151.58	10,809	33,962
151.59	10,821	34,070
151.60	10,832	34,179
151.61	10,844	34,287
151.62	10,856	34,395
151.63	10,868	34,504
151.64	10,880	34,613
151.65	10,891	34,722
151.66	10,903	34,831
151.67	10,915	34,940
151.68	10,927	35,049
151.69	10,939	35,158
151.70	10,950	35,268
151.71	10,962	35,377
151.72	10,974	35,487
151.73	10,986	35,597
151.74	10,997	35,707
151.75	11,009	35,817
151.76	11,021	35,927
151.77	11,033	36,037
151.78	11,045	36,147
151.79	11,056	36,258
151.80	11,068	36,369
151.81	11,080	36,479
151.82	11,092	36,590
151.83	11,104	36,701
151.84	11,115	36,812
151.85	11,127	36,923
151.86	11,139	37,035
151.87	11,151	37,146
151.88	11,163	37,258
151.89	11,174	37,369
151.90	11,186	37,481
151.91	11,198	37,593
151.92	11,210	37,705
151.93	11,221	37,817
151.94	11,233	37,930
151.95	11,245	38,042
151.96	11,257	38,155
151.97	11,269	38,267
151.98	11,280	38,380
151.99	11,292	38,493
152.00	11,304	38,606
152.01	11,316	38,719
152.02	11,329	38,832
152.03	11,341	38,945
152.04	11,353	39,059
152.05	11,366	39,173
152.06	11,378	39,286
152.07	11,391	39,400
152.08	11,403	39,514
152.09	11,415	39,628
152.10	11,428	39,742
152.11	11,440	39,857
152.12	11,452	39,971
152.13	11,465	40,086
152.14	11,477	40,200
152.15	11,489	40,315
152.16	11,502	40,430
152.17	11,514	40,545
152.18	11,526	40,661
152.19	11,539	40,776
152.20	11,551	40,891
152.21	11,564	41,007
152.22	11,576	41,123
152.23	11,588	41,238
152.24	11,601	41,354
152.25	11,613	41,470
152.26	11,625	41,587
152.27	11,638	41,703
152.28	11,650	41,819
152.29	11,662	41,936
152.30	11,675	42,053
152.31	11,687	42,169
152.32	11,700	42,286
152.33	11,712	42,403
152.34	11,724	42,521
152.35	11,737	42,638
152.36	11,749	42,755
152.37	11,761	42,873
152.38	11,774	42,991
152.39	11,786	43,108
152.40	11,798	43,226
152.41	11,811	43,344
152.42	11,823	43,462
152.43	11,835	43,581
152.44	11,848	43,699
152.45	11,860	43,818
152.46	11,873	43,936
152.47	11,885	44,055
152.48	11,897	44,174
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 = 8.93" for Future 100 yr event
Inflow = 22.32 cfs @ 12.17 hrs, Volume= 1.823 af
Outflow = 14.21 cfs @ 12.29 hrs, Volume= 1.735 af, Atten= 36%, Lag= 7.1 min
Primary = 14.21 cfs @ 12.29 hrs, Volume= 1.735 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= 147.84' @ 12.29 hrs Surf.Area= 8,545 sf Storage= 21,784 cf

Plug-Flow detention time= 156.5 min calculated for 1.733 af (95% of inflow)
Center-of-Mass det. time= 129.5 min (910.9 - 781.5)

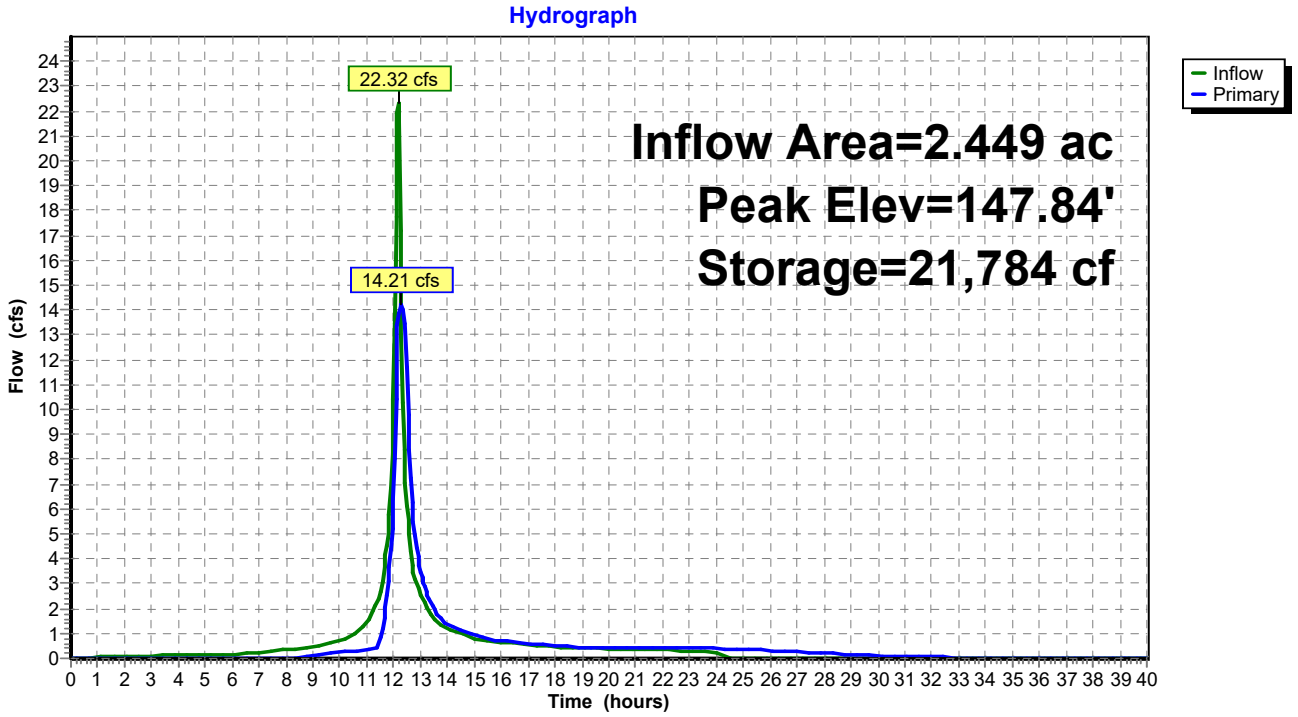
Volume	Invert	Avail.Storage	Storage Description
#1	144.30'	23,175 cf	**Custom Stage Data (Prismatic)** Listed below (Recalc)

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=14.19 cfs @ 12.29 hrs HW=147.83' (Free Discharge)
- **1=Culvert** (Inlet Controls 14.19 cfs @ 8.03 fps)
  - **2=Orifice/Grate** (Passes < 0.65 cfs potential flow)
  - **3=Sharp-Crested Rectangular Weir** (Passes < 18.78 cfs potential flow)
- **4=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)

Pond B-23: Basin #23



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)
147.42	8,073	18,303
147.43	8,084	18,384
147.44	8,095	18,464
147.45	8,107	18,545
147.46	8,118	18,627
147.47	8,129	18,708
147.48	8,140	18,789
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
147.94	8,659	22,653
147.95	8,671	22,740
147.96	8,682	22,827
147.97	8,693	22,913
147.98	8,704	23,000
147.99	8,716	23,087
148.00	**8,727**	**23,175**

Summary for Pond B-24: Basin #24

Inflow Area = 2.408 ac, 37.46% Impervious, Inflow Depth = 9.05" for Future 100 yr event
Inflow = 22.11 cfs @ 12.17 hrs, Volume= 1.817 af
Outflow = 13.31 cfs @ 12.30 hrs, Volume= 1.721 af, Atten= 40%, Lag= 7.7 min
Primary = 13.31 cfs @ 12.30 hrs, Volume= 1.721 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= 147.50' @ 12.30 hrs Surf.Area= 9,878 sf Storage= 24,024 cf

Plug-Flow detention time= 156.4 min calculated for 1.721 af (95% of inflow)
Center-of-Mass det. time= 125.8 min (904.4 - 778.6)

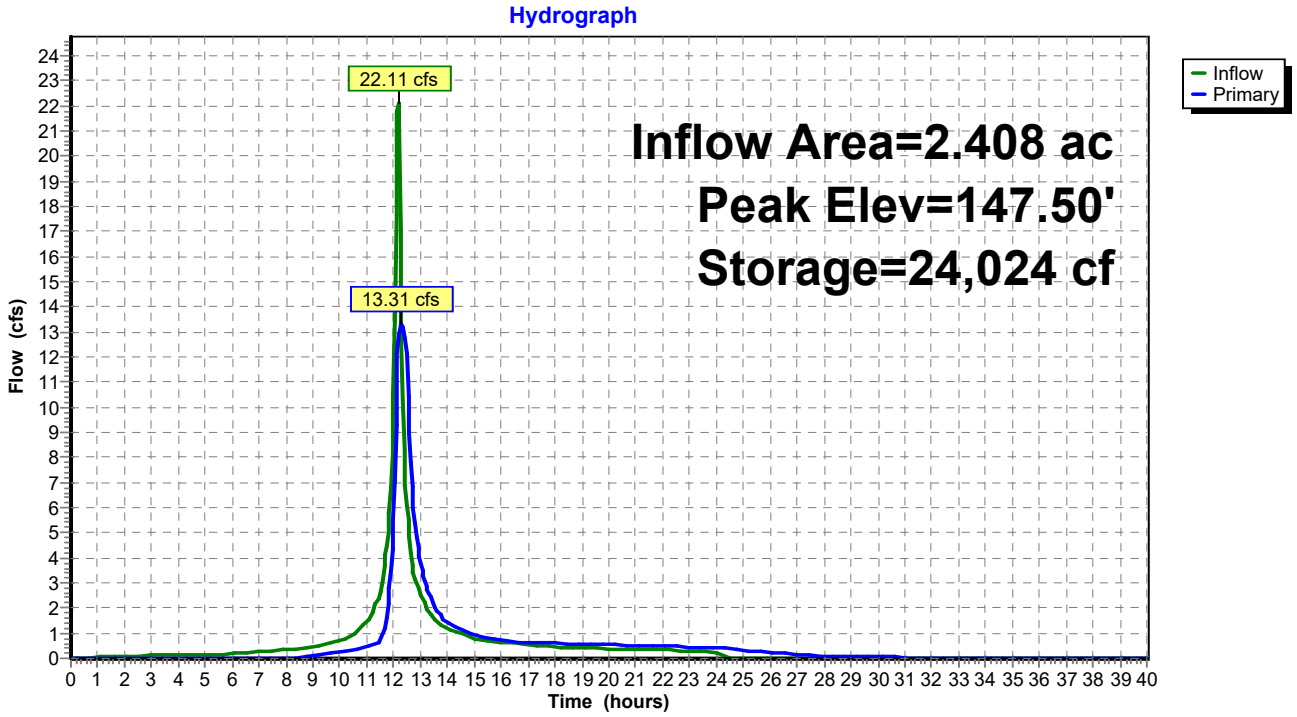
Volume	Invert	Avail.Storage	Storage Description
#1	144.30'	40,061 cf	**Custom Stage Data (Prismatic)** Listed below (Recalc)

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=13.31 cfs @ 12.30 hrs HW=147.50' (Free Discharge)
- **1=Culvert** (Inlet Controls 13.31 cfs @ 7.53 fps)
  - **2=Orifice/Grate** (Passes < 0.96 cfs potential flow)
  - **3=Sharp-Crested Rectangular Weir** (Passes < 17.09 cfs potential flow)
- **4=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)

Pond B-24: Basin #24



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)
148.46	58.05
148.47	59.62
148.48	61.22
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
148.98	155.14
148.99	157.32
149.00	**159.47**

Stage-Area-Storage for Pond B-24: Basin #24

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
144.30	0	0
144.31	105	1
144.32	209	2
144.33	314	5
144.34	419	8
144.35	524	13
144.36	628	19
144.37	733	26
144.38	838	34
144.39	943	42
144.40	1,047	52
144.41	1,152	63
144.42	1,257	75
144.43	1,361	88
144.44	1,466	103
144.45	1,571	118
144.46	1,676	134
144.47	1,780	151
144.48	1,885	170
144.49	1,990	189
144.50	2,095	209
144.51	2,199	231
144.52	2,304	253
144.53	2,409	277
144.54	2,513	302
144.55	2,618	327
144.56	2,723	354
144.57	2,828	382
144.58	2,932	411
144.59	3,037	440
144.60	3,142	471
144.61	3,247	503
144.62	3,351	536
144.63	3,456	570
144.64	3,561	605
144.65	3,666	641
144.66	3,770	679
144.67	3,875	717
144.68	3,980	756
144.69	4,084	796
144.70	4,189	838
144.71	4,294	880
144.72	4,399	924
144.73	4,503	968
144.74	4,608	1,014
144.75	4,713	1,060
144.76	4,818	1,108
144.77	4,922	1,157
144.78	5,027	1,206
144.79	5,132	1,257
144.80	5,236	1,309
144.81	5,341	1,362
144.82	5,446	1,416
144.83	5,551	1,471
144.84	5,655	1,527
144.85	5,760	1,584
144.86	5,865	1,642
144.87	5,970	1,701
144.88	6,074	1,762
144.89	6,179	1,823
144.90	6,284	1,885
144.91	6,388	1,948
144.92	6,493	2,013
144.93	6,598	2,078
144.94	6,703	2,145
144.95	6,807	2,212
144.96	6,912	2,281
144.97	7,017	2,351
144.98	7,122	2,421
144.99	7,226	2,493
145.00	7,331	2,566
145.01	7,341	2,639
145.02	7,351	2,713
145.03	7,361	2,786
145.04	7,371	2,860
145.05	7,381	2,934
145.06	7,391	3,008
145.07	7,401	3,081
145.08	7,411	3,156
145.09	7,421	3,230
145.10	7,431	3,304
145.11	7,441	3,378
145.12	7,451	3,453
145.13	7,460	3,527
145.14	7,470	3,602
145.15	7,480	3,677
145.16	7,490	3,752
145.17	7,500	3,827
145.18	7,510	3,902
145.19	7,520	3,977
145.20	7,530	4,052
145.21	7,540	4,127
145.22	7,550	4,203
145.23	7,560	4,278
145.24	7,570	4,354
145.25	7,580	4,430
145.26	7,590	4,506
145.27	7,600	4,582
145.28	7,610	4,658
145.29	7,620	4,734
145.30	7,630	4,810
145.31	7,640	4,886
145.32	7,650	4,963
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)
148.46	10,904	34,016
148.47	10,915	34,125
148.48	10,925	34,234
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
148.98	11,466	39,832
148.99	11,477	39,947
149.00	**11,488**	**40,061**

Summary for Pond B-25: Basin #25

Inflow Area = 2.500 ac, 34.96% Impervious, Inflow Depth = 8.98" for Future 100 yr event
Inflow = 22.85 cfs @ 12.17 hrs, Volume= 1.870 af
Outflow = 12.82 cfs @ 12.31 hrs, Volume= 1.781 af, Atten= 44%, Lag= 8.5 min
Primary = 12.82 cfs @ 12.31 hrs, Volume= 1.781 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= 147.51' @ 12.31 hrs Surf.Area= 7,917 sf Storage= 23,675 cf

Plug-Flow detention time= 149.1 min calculated for 1.781 af (95% of inflow)
Center-of-Mass det. time= 121.2 min (901.6 - 780.4)

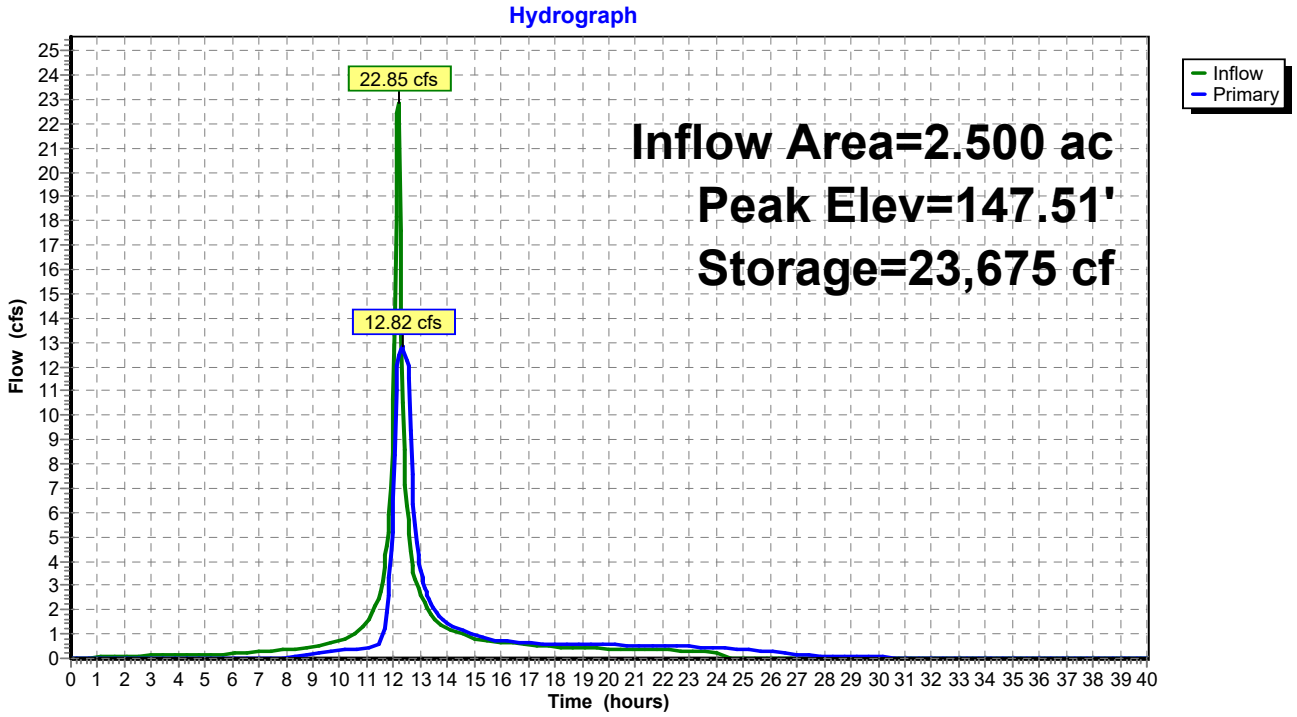
Volume	Invert	Avail.Storage	Storage Description
#1	143.30'	36,587 cf	**Custom Stage Data (Prismatic)** Listed below (Recalc)

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=12.81 cfs @ 12.31 hrs HW=147.50' (Free Discharge)
- **1=Culvert** (Barrel Controls 12.81 cfs @ 7.25 fps)
  - **2=Orifice/Grate** (Passes < 0.90 cfs potential flow)
  - **3=Sharp-Crested Rectangular Weir** (Passes < 23.26 cfs potential flow)
- **4=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)

Pond B-25: Basin #25



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)
143.30	0	0
143.31	67	0
143.32	134	1
143.33	202	3
143.34	269	5
143.35	336	8
143.36	403	12
143.37	470	16
143.38	537	21
143.39	605	27
143.40	672	34
143.41	739	41
143.42	806	48
143.43	873	57
143.44	940	66
143.45	1,008	76
143.46	1,075	86
143.47	1,142	97
143.48	1,209	109
143.49	1,276	121
143.50	1,343	134
143.51	1,411	148
143.52	1,478	163
143.53	1,545	178
143.54	1,612	193
143.55	1,679	210
143.56	1,746	227
143.57	1,814	245
143.58	1,881	263
143.59	1,948	282
143.60	2,015	302
143.61	2,082	323
143.62	2,149	344
143.63	2,217	366
143.64	2,284	388
143.65	2,351	411
143.66	2,418	435
143.67	2,485	460
143.68	2,553	485
143.69	2,620	511
143.70	2,687	537
143.71	2,754	565
143.72	2,821	592
143.73	2,888	621
143.74	2,956	650
143.75	3,023	680
143.76	3,090	711
143.77	3,157	742
143.78	3,224	774
143.79	3,291	806
143.80	3,359	840
143.81	3,426	874
143.82	3,493	908
143.83	3,560	943
143.84	3,627	979
143.85	3,694	1,016
143.86	3,762	1,053
143.87	3,829	1,091
143.88	3,896	1,130
143.89	3,963	1,169
143.90	4,030	1,209
143.91	4,097	1,250
143.92	4,165	1,291
143.93	4,232	1,333
143.94	4,299	1,376
143.95	4,366	1,419
143.96	4,433	1,463
143.97	4,500	1,508
143.98	4,568	1,553
143.99	4,635	1,599
144.00	4,702	1,646
144.01	4,711	1,693
144.02	4,720	1,740
144.03	4,728	1,787
144.04	4,737	1,834
144.05	4,746	1,882
144.06	4,755	1,929
144.07	4,764	1,977
144.08	4,773	2,025
144.09	4,781	2,072
144.10	4,790	2,120
144.11	4,799	2,168
144.12	4,808	2,216
144.13	4,817	2,264
144.14	4,825	2,313
144.15	4,834	2,361
144.16	4,843	2,409
144.17	4,852	2,458
144.18	4,861	2,506
144.19	4,870	2,555
144.20	4,878	2,604
144.21	4,887	2,653
144.22	4,896	2,701
144.23	4,905	2,750
144.24	4,914	2,800
144.25	4,923	2,849
144.26	4,931	2,898
144.27	4,940	2,947
144.28	4,949	2,997
144.29	4,958	3,046
144.30	4,967	3,096
144.31	4,975	3,146
144.32	4,984	3,195
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 = 9.13" for Future 100 yr event
Inflow = 21.82 cfs @ 12.17 hrs, Volume= 1.800 af
Outflow = 11.96 cfs @ 12.32 hrs, Volume= 1.666 af, Atten= 45%, Lag= 8.8 min
Primary = 11.96 cfs @ 12.32 hrs, Volume= 1.666 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= 147.61' @ 12.32 hrs Surf.Area= 7,351 sf Storage= 25,001 cf

Plug-Flow detention time= 218.9 min calculated for 1.664 af (92% of inflow)
Center-of-Mass det. time= 179.0 min (955.9 - 776.9)

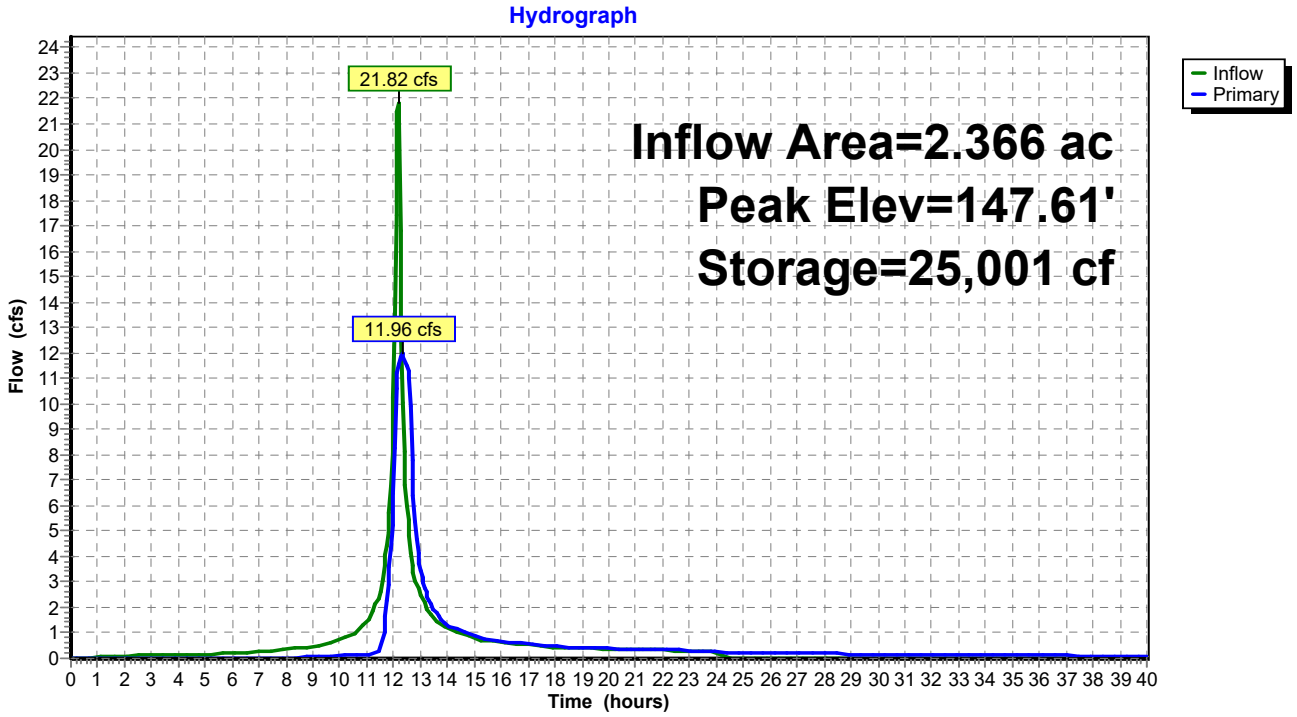
Volume	Invert	Avail.Storage	Storage Description
#1	143.30'	35,348 cf	**Custom Stage Data (Prismatic)** Listed below (Recalc)

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=11.95 cfs @ 12.32 hrs HW=147.60' (Free Discharge)
- **1=Culvert** (Barrel Controls 11.95 cfs @ 6.76 fps)
  - **2=Orifice/Grate** (Passes < 0.29 cfs potential flow)
  - **3=Sharp-Crested Rectangular Weir** (Passes < 24.40 cfs potential flow)
- **4=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)

Pond B-26: Basin #26



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)
143.30	0	0
143.31	78	0
143.32	156	2
143.33	234	4
143.34	312	6
143.35	390	10
143.36	469	14
143.37	547	19
143.38	625	25
143.39	703	32
143.40	781	39
143.41	859	47
143.42	937	56
143.43	1,015	66
143.44	1,093	77
143.45	1,171	88
143.46	1,249	100
143.47	1,327	113
143.48	1,406	126
143.49	1,484	141
143.50	1,562	156
143.51	1,640	172
143.52	1,718	189
143.53	1,796	207
143.54	1,874	225
143.55	1,952	244
143.56	2,030	264
143.57	2,108	285
143.58	2,186	306
143.59	2,264	328
143.60	2,343	351
143.61	2,421	375
143.62	2,499	400
143.63	2,577	425
143.64	2,655	451
143.65	2,733	478
143.66	2,811	506
143.67	2,889	534
143.68	2,967	564
143.69	3,045	594
143.70	3,123	625
143.71	3,202	656
143.72	3,280	689
143.73	3,358	722
143.74	3,436	756
143.75	3,514	791
143.76	3,592	826
143.77	3,670	862
143.78	3,748	900
143.79	3,826	937
143.80	3,904	976
143.81	3,982	1,016
143.82	4,060	1,056
143.83	4,139	1,097
143.84	4,217	1,138
143.85	4,295	1,181
143.86	4,373	1,224
143.87	4,451	1,269
143.88	4,529	1,313
143.89	4,607	1,359
143.90	4,685	1,406
143.91	4,763	1,453
143.92	4,841	1,501
143.93	4,919	1,550
143.94	4,997	1,599
143.95	5,076	1,650
143.96	5,154	1,701
143.97	5,232	1,753
143.98	5,310	1,805
143.99	5,388	1,859
144.00	5,466	1,913
144.01	5,471	1,968
144.02	5,476	2,023
144.03	5,481	2,077
144.04	5,486	2,132
144.05	5,491	2,187
144.06	5,496	2,242
144.07	5,501	2,297
144.08	5,506	2,352
144.09	5,511	2,407
144.10	5,516	2,462
144.11	5,521	2,517
144.12	5,526	2,573
144.13	5,531	2,628
144.14	5,536	2,683
144.15	5,541	2,739
144.16	5,546	2,794
144.17	5,551	2,850
144.18	5,556	2,905
144.19	5,561	2,961
144.20	5,566	3,016
144.21	5,571	3,072
144.22	5,576	3,128
144.23	5,581	3,184
144.24	5,586	3,239
144.25	5,591	3,295
144.26	5,596	3,351
144.27	5,601	3,407
144.28	5,606	3,463
144.29	5,611	3,519
144.30	5,616	3,575
144.31	5,621	3,632
144.32	5,626	3,688
144.33	5,631	3,744

Stage-Area-Storage for Pond B-26: Basin #26 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
144.34	5,636	3,800
144.35	5,641	3,857
144.36	5,646	3,913
144.37	5,651	3,970
144.38	5,656	4,026
144.39	5,661	4,083
144.40	5,666	4,140
144.41	5,671	4,196
144.42	5,676	4,253
144.43	5,681	4,310
144.44	5,686	4,367
144.45	5,691	4,424
144.46	5,696	4,480
144.47	5,701	4,537
144.48	5,706	4,594
144.49	5,711	4,652
144.50	5,717	4,709
144.51	5,722	4,766
144.52	5,727	4,823
144.53	5,732	4,880
144.54	5,737	4,938
144.55	5,742	4,995
144.56	5,747	5,053
144.57	5,752	5,110
144.58	5,757	5,168
144.59	5,762	5,225
144.60	5,767	5,283
144.61	5,772	5,341
144.62	5,777	5,398
144.63	5,782	5,456
144.64	5,787	5,514
144.65	5,792	5,572
144.66	5,797	5,630
144.67	5,802	5,688
144.68	5,807	5,746
144.69	5,812	5,804
144.70	5,817	5,862
144.71	5,822	5,920
144.72	5,827	5,978
144.73	5,832	6,037
144.74	5,837	6,095
144.75	5,842	6,154
144.76	5,847	6,212
144.77	5,852	6,270
144.78	5,857	6,329
144.79	5,862	6,388
144.80	5,867	6,446
144.81	5,872	6,505
144.82	5,877	6,564
144.83	5,882	6,622
144.84	5,887	6,681
144.85	5,892	6,740
144.86	5,897	6,799
144.87	5,902	6,858
144.88	5,907	6,917
144.89	5,912	6,976
144.90	5,917	7,035
144.91	5,922	7,095
144.92	5,927	7,154
144.93	5,932	7,213
144.94	5,937	7,272
144.95	5,942	7,332
144.96	5,947	7,391
144.97	5,952	7,451
144.98	5,957	7,510
144.99	5,962	7,570
145.00	5,967	7,630
145.01	5,972	7,689
145.02	5,977	7,749
145.03	5,983	7,809
145.04	5,988	7,869
145.05	5,993	7,929
145.06	5,998	7,989
145.07	6,003	8,049
145.08	6,009	8,109
145.09	6,014	8,169
145.10	6,019	8,229
145.11	6,024	8,289
145.12	6,029	8,349
145.13	6,034	8,410
145.14	6,040	8,470
145.15	6,045	8,530
145.16	6,050	8,591
145.17	6,055	8,651
145.18	6,060	8,712
145.19	6,066	8,773
145.20	6,071	8,833
145.21	6,076	8,894
145.22	6,081	8,955
145.23	6,086	9,016
145.24	6,092	9,077
145.25	6,097	9,138
145.26	6,102	9,199
145.27	6,107	9,260
145.28	6,112	9,321
145.29	6,118	9,382
145.30	6,123	9,443
145.31	6,128	9,504
145.32	6,133	9,566
145.33	6,138	9,627
145.34	6,143	9,688
145.35	6,149	9,750
145.36	6,154	9,811
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)
147.46	7,269	23,894
147.47	7,274	23,967
147.48	7,280	24,040
147.49	7,285	24,112
147.50	7,291	24,185
147.51	7,296	24,258
147.52	7,301	24,331
147.53	7,307	24,404
147.54	7,312	24,477
147.55	7,318	24,550
147.56	7,323	24,624
147.57	7,329	24,697
147.58	7,334	24,770
147.59	7,340	24,844
147.60	7,345	24,917
147.61	7,350	24,990
147.62	7,356	25,064
147.63	7,361	25,138
147.64	7,367	25,211
147.65	7,372	25,285
147.66	7,378	25,359
147.67	7,383	25,432
147.68	7,389	25,506
147.69	7,394	25,580
147.70	7,400	25,654
147.71	7,405	25,728
147.72	7,410	25,802
147.73	7,416	25,876
147.74	7,421	25,951
147.75	7,427	26,025
147.76	7,432	26,099
147.77	7,438	26,174
147.78	7,443	26,248
147.79	7,449	26,322
147.80	7,454	26,397
147.81	7,459	26,471
147.82	7,465	26,546
147.83	7,470	26,621
147.84	7,476	26,695
147.85	7,481	26,770
147.86	7,487	26,845
147.87	7,492	26,920
147.88	7,498	26,995
147.89	7,503	27,070
147.90	7,509	27,145
147.91	7,514	27,220
147.92	7,519	27,295
147.93	7,525	27,371
147.94	7,530	27,446
147.95	7,536	27,521
147.96	7,541	27,597
147.97	7,547	27,672
147.98	7,552	27,747
147.99	7,558	27,823
148.00	7,563	27,899
148.01	7,569	27,974
148.02	7,575	28,050
148.03	7,581	28,126
148.04	7,586	28,202
148.05	7,592	28,277
148.06	7,598	28,353
148.07	7,604	28,429
148.08	7,610	28,506
148.09	7,616	28,582
148.10	7,622	28,658
148.11	7,627	28,734
148.12	7,633	28,810
148.13	7,639	28,887
148.14	7,645	28,963
148.15	7,651	29,040
148.16	7,657	29,116
148.17	7,663	29,193
148.18	7,669	29,269
148.19	7,674	29,346
148.20	7,680	29,423
148.21	7,686	29,500
148.22	7,692	29,577
148.23	7,698	29,654
148.24	7,704	29,731
148.25	7,710	29,808
148.26	7,715	29,885
148.27	7,721	29,962
148.28	7,727	30,039
148.29	7,733	30,117
148.30	7,739	30,194
148.31	7,745	30,271
148.32	7,751	30,349
148.33	7,756	30,426
148.34	7,762	30,504
148.35	7,768	30,582
148.36	7,774	30,659
148.37	7,780	30,737
148.38	7,786	30,815
148.39	7,792	30,893
148.40	7,798	30,971
148.41	7,803	31,049
148.42	7,809	31,127
148.43	7,815	31,205
148.44	7,821	31,283
148.45	7,827	31,361
148.46	7,833	31,440
148.47	7,839	31,518
148.48	7,844	31,596
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 = 10.18" for Future 100 yr event
Inflow = 19.31 cfs @ 12.17 hrs, Volume= 1.642 af
Outflow = 18.68 cfs @ 12.20 hrs, Volume= 1.535 af, Atten= 3%, Lag= 2.1 min
Primary = 18.68 cfs @ 12.20 hrs, Volume= 1.535 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= 172.95' @ 12.21 hrs Surf.Area= 4,064 sf Storage= 13,051 cf

Plug-Flow detention time= 93.9 min calculated for 1.533 af (93% of inflow)
Center-of-Mass det. time= 57.5 min (819.7 - 762.2)

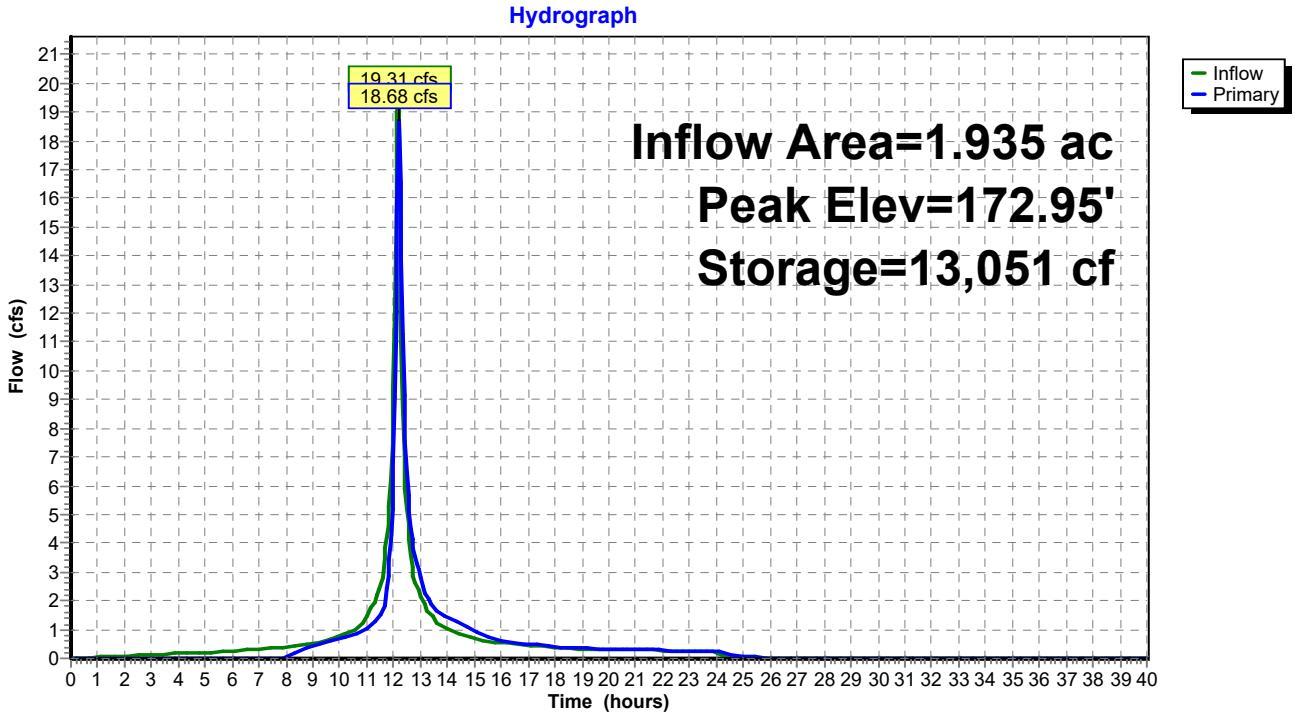
Volume	Invert	Avail.Storage	Storage Description
#1	167.35'	13,052 cf	**Custom Stage Data (Prismatic)** Listed below (Recalc)

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=18.40 cfs @ 12.20 hrs HW=172.94' (Free Discharge)
- **1=Culvert** (Passes 17.29 cfs of 31.35 cfs potential flow)
  - **2=Orifice/Grate** (Orifice Controls 2.46 cfs @ 7.05 fps)
  - **3=Sharp-Crested Rectangular Weir** (Weir Controls 7.52 cfs @ 3.57 fps)
  - **4=Sharp-Crested Rectangular Weir** (Weir Controls 7.31 cfs @ 2.73 fps)
- **5=Broad-Crested Rectangular Weir** (Weir Controls 1.11 cfs @ 0.50 fps)

Pond B-27: Basin #27



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)
170.47	2,548	4,641
170.48	2,555	4,666
170.49	2,562	4,692
170.50	2,569	4,718
170.51	2,575	4,743
170.52	2,582	4,769
170.53	2,589	4,795
170.54	2,596	4,821
170.55	2,603	4,847
170.56	2,610	4,873
170.57	2,617	4,899
170.58	2,624	4,925
170.59	2,631	4,952
170.60	2,638	4,978
170.61	2,645	5,004
170.62	2,652	5,031
170.63	2,659	5,057
170.64	2,666	5,084
170.65	2,673	5,111
170.66	2,680	5,137
170.67	2,687	5,164
170.68	2,694	5,191
170.69	2,701	5,218
170.70	2,707	5,245
170.71	2,714	5,272
170.72	2,721	5,299
170.73	2,728	5,327
170.74	2,735	5,354
170.75	2,742	5,381
170.76	2,749	5,409
170.77	2,756	5,436
170.78	2,763	5,464
170.79	2,770	5,492
170.80	2,777	5,519
170.81	2,784	5,547
170.82	2,791	5,575
170.83	2,798	5,603
170.84	2,805	5,631
170.85	2,812	5,659
170.86	2,819	5,687
170.87	2,826	5,715
170.88	2,833	5,744
170.89	2,840	5,772
170.90	2,847	5,801
170.91	2,853	5,829
170.92	2,860	5,858
170.93	2,867	5,886
170.94	2,874	5,915
170.95	2,881	5,944
170.96	2,888	5,973
170.97	2,895	6,001
170.98	2,902	6,030
170.99	2,909	6,060
171.00	2,916	6,089
171.01	2,924	6,118
171.02	2,931	6,147
171.03	2,939	6,176
171.04	2,946	6,206
171.05	2,954	6,235
171.06	2,961	6,265
171.07	2,969	6,295
171.08	2,976	6,324
171.09	2,984	6,354
171.10	2,991	6,384
171.11	2,999	6,414
171.12	3,006	6,444
171.13	3,014	6,474
171.14	3,021	6,504
171.15	3,029	6,534
171.16	3,036	6,565
171.17	3,044	6,595
171.18	3,051	6,626
171.19	3,059	6,656
171.20	3,066	6,687
171.21	3,074	6,718
171.22	3,081	6,748
171.23	3,089	6,779
171.24	3,096	6,810
171.25	3,104	6,841
171.26	3,111	6,872
171.27	3,119	6,903
171.28	3,126	6,935
171.29	3,134	6,966
171.30	3,141	6,997
171.31	3,149	7,029
171.32	3,156	7,060
171.33	3,164	7,092
171.34	3,171	7,123
171.35	3,179	7,155
171.36	3,186	7,187
171.37	3,194	7,219
171.38	3,201	7,251
171.39	3,209	7,283
171.40	3,216	7,315
171.41	3,224	7,347
171.42	3,231	7,380
171.43	3,239	7,412
171.44	3,246	7,444
171.45	3,254	7,477
171.46	3,261	7,509
171.47	3,269	7,542
171.48	3,276	7,575
171.49	3,284	7,608
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 = 8.97" for Future 100 yr event
Inflow = 21.32 cfs @ 12.17 hrs, Volume= 1.744 af
Outflow = 14.54 cfs @ 12.27 hrs, Volume= 1.665 af, Atten= 32%, Lag= 6.2 min
Primary = 14.54 cfs @ 12.27 hrs, Volume= 1.665 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= 170.35' @ 12.27 hrs Surf.Area= 4,237 sf Storage= 11,673 cf

Plug-Flow detention time= 58.7 min calculated for 1.663 af (95% of inflow)
Center-of-Mass det. time= 32.0 min (812.5 - 780.5)

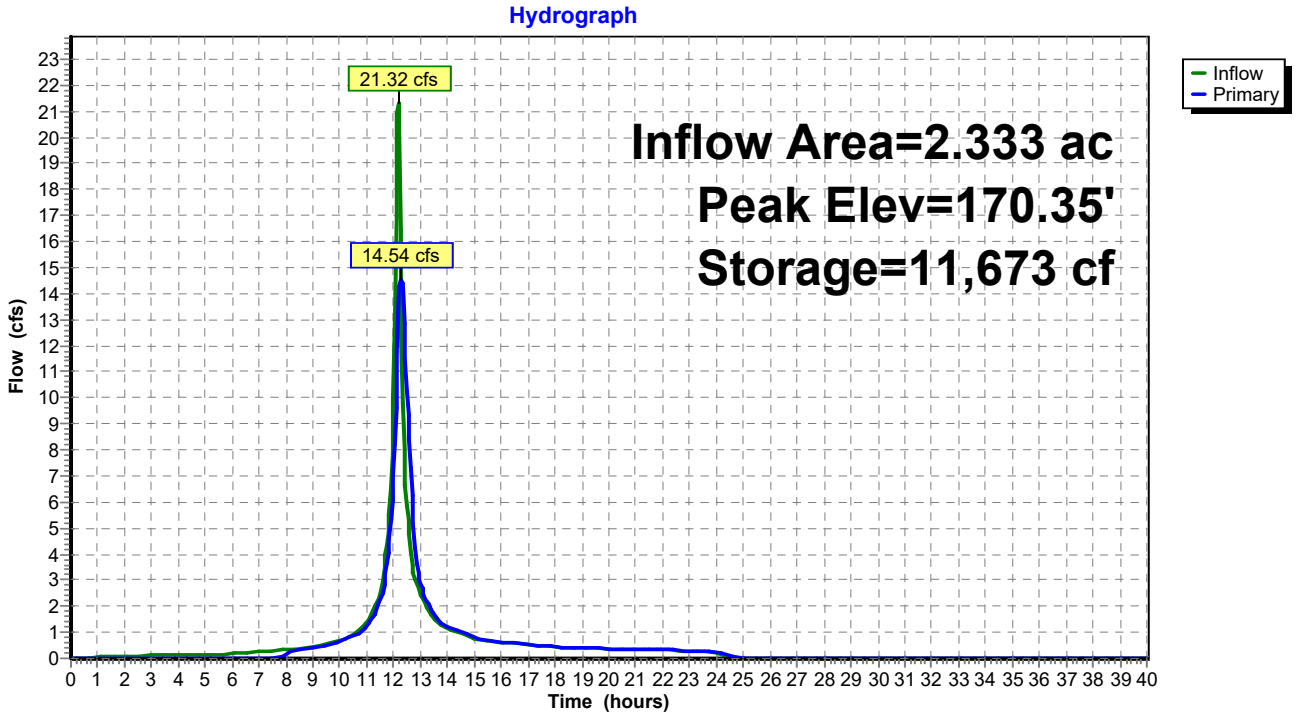
Volume	Invert	Avail.Storage	Storage Description
#1	165.65'	12,318 cf	**Custom Stage Data (Prismatic)** Listed below (Recalc)

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=14.50 cfs @ 12.27 hrs HW=170.33' (Free Discharge)
- **1=Culvert** (Barrel Controls 14.50 cfs @ 8.21 fps)
  - **2=Orifice/Grate** (Passes < 13.01 cfs potential flow)
  - **3=Sharp-Crested Rectangular Weir** (Passes < 2.05 cfs potential flow)
  - **4=Sharp-Crested Rectangular Weir** (Passes < 2.40 cfs potential flow)
- **5=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)

Pond B-28: Basin #28



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)
169.81	11.80
169.82	11.86
169.83	11.92
169.84	11.98
169.85	12.04
169.86	12.10
169.87	12.16
169.88	12.23
169.89	12.29
169.90	12.35
169.91	12.41
169.92	12.47
169.93	12.54
169.94	12.60
169.95	12.66
169.96	12.73
169.97	12.79
169.98	12.85
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
170.33	14.51
170.34	14.52
170.35	14.54
170.36	14.55
170.37	14.56
170.38	14.58
170.39	14.59
170.40	14.61
170.41	14.62
170.42	14.63
170.43	14.65
170.44	14.66
170.45	14.68
170.46	14.69
170.47	14.70
170.48	14.72
170.49	14.73
170.50	**14.86**

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)
166.69	1,582	1,141
166.70	1,588	1,157
166.71	1,594	1,173
166.72	1,601	1,189
166.73	1,607	1,205
166.74	1,613	1,221
166.75	1,620	1,237
166.76	1,626	1,253
166.77	1,632	1,270
166.78	1,639	1,286
166.79	1,645	1,302
166.80	1,651	1,319
166.81	1,658	1,335
166.82	1,664	1,352
166.83	1,670	1,369
166.84	1,677	1,385
166.85	1,683	1,402
166.86	1,689	1,419
166.87	1,696	1,436
166.88	1,702	1,453
166.89	1,708	1,470
166.90	1,715	1,487
166.91	1,721	1,504
166.92	1,727	1,522
166.93	1,734	1,539
166.94	1,740	1,556
166.95	1,746	1,574
166.96	1,753	1,591
166.97	1,759	1,609
166.98	1,765	1,626
166.99	1,772	1,644
167.00	1,778	1,662
167.01	1,785	1,680
167.02	1,792	1,698
167.03	1,799	1,716
167.04	1,805	1,734
167.05	1,812	1,752
167.06	1,819	1,770
167.07	1,826	1,788
167.08	1,833	1,806
167.09	1,840	1,825
167.10	1,847	1,843
167.11	1,854	1,862
167.12	1,860	1,880
167.13	1,867	1,899
167.14	1,874	1,918
167.15	1,881	1,936
167.16	1,888	1,955
167.17	1,895	1,974
167.18	1,902	1,993
167.19	1,909	2,012
167.20	1,915	2,031
167.21	1,922	2,050
167.22	1,929	2,070
167.23	1,936	2,089
167.24	1,943	2,108
167.25	1,950	2,128
167.26	1,957	2,147
167.27	1,963	2,167
167.28	1,970	2,187
167.29	1,977	2,206
167.30	1,984	2,226
167.31	1,991	2,246
167.32	1,998	2,266
167.33	2,005	2,286
167.34	2,012	2,306
167.35	2,018	2,326
167.36	2,025	2,346
167.37	2,032	2,367
167.38	2,039	2,387
167.39	2,046	2,408
167.40	2,053	2,428
167.41	2,060	2,449
167.42	2,067	2,469
167.43	2,073	2,490
167.44	2,080	2,511
167.45	2,087	2,532
167.46	2,094	2,552
167.47	2,101	2,573
167.48	2,108	2,594
167.49	2,115	2,616
167.50	2,122	2,637
167.51	2,128	2,658
167.52	2,135	2,679
167.53	2,142	2,701
167.54	2,149	2,722
167.55	2,156	2,744
167.56	2,163	2,765
167.57	2,170	2,787
167.58	2,176	2,809
167.59	2,183	2,830
167.60	2,190	2,852
167.61	2,197	2,874
167.62	2,204	2,896
167.63	2,211	2,918
167.64	2,218	2,940
167.65	2,225	2,963
167.66	2,231	2,985
167.67	2,238	3,007
167.68	2,245	3,030
167.69	2,252	3,052
167.70	2,259	3,075
167.71	2,266	3,097
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)
168.77	3,039	5,902
168.78	3,046	5,933
168.79	3,054	5,963
168.80	3,061	5,994
168.81	3,068	6,024
168.82	3,076	6,055
168.83	3,083	6,086
168.84	3,091	6,117
168.85	3,098	6,148
168.86	3,106	6,179
168.87	3,113	6,210
168.88	3,121	6,241
168.89	3,128	6,272
168.90	3,136	6,304
168.91	3,143	6,335
168.92	3,150	6,366
168.93	3,158	6,398
168.94	3,165	6,430
168.95	3,173	6,461
168.96	3,180	6,493
168.97	3,188	6,525
168.98	3,195	6,557
168.99	3,203	6,589
169.00	3,210	6,621
169.01	3,218	6,653
169.02	3,226	6,685
169.03	3,234	6,718
169.04	3,242	6,750
169.05	3,250	6,782
169.06	3,258	6,815
169.07	3,266	6,848
169.08	3,274	6,880
169.09	3,282	6,913
169.10	3,290	6,946
169.11	3,298	6,979
169.12	3,306	7,012
169.13	3,314	7,045
169.14	3,322	7,078
169.15	3,330	7,111
169.16	3,338	7,145
169.17	3,346	7,178
169.18	3,354	7,212
169.19	3,362	7,245
169.20	3,370	7,279
169.21	3,378	7,313
169.22	3,386	7,346
169.23	3,394	7,380
169.24	3,402	7,414
169.25	3,411	7,448
169.26	3,419	7,483
169.27	3,427	7,517
169.28	3,435	7,551
169.29	3,443	7,585
169.30	3,451	7,620
169.31	3,459	7,655
169.32	3,467	7,689
169.33	3,475	7,724
169.34	3,483	7,759
169.35	3,491	7,793
169.36	3,499	7,828
169.37	3,507	7,863
169.38	3,515	7,899
169.39	3,523	7,934
169.40	3,531	7,969
169.41	3,539	8,004
169.42	3,547	8,040
169.43	3,555	8,075
169.44	3,563	8,111
169.45	3,571	8,147
169.46	3,579	8,182
169.47	3,587	8,218
169.48	3,595	8,254
169.49	3,603	8,290
169.50	3,611	8,326
169.51	3,619	8,362
169.52	3,627	8,399
169.53	3,635	8,435
169.54	3,643	8,471
169.55	3,651	8,508
169.56	3,659	8,544
169.57	3,667	8,581
169.58	3,675	8,618
169.59	3,683	8,654
169.60	3,691	8,691
169.61	3,699	8,728
169.62	3,707	8,765
169.63	3,715	8,802
169.64	3,723	8,840
169.65	3,731	8,877
169.66	3,739	8,914
169.67	3,747	8,952
169.68	3,755	8,989
169.69	3,763	9,027
169.70	3,771	9,064
169.71	3,779	9,102
169.72	3,787	9,140
169.73	3,795	9,178
169.74	3,803	9,216
169.75	3,812	9,254
169.76	3,820	9,292
169.77	3,828	9,330
169.78	3,836	9,369
169.79	3,844	9,407
169.80	3,852	9,446

Stage-Area-Storage for Pond B-28: Basin #28 (continued)

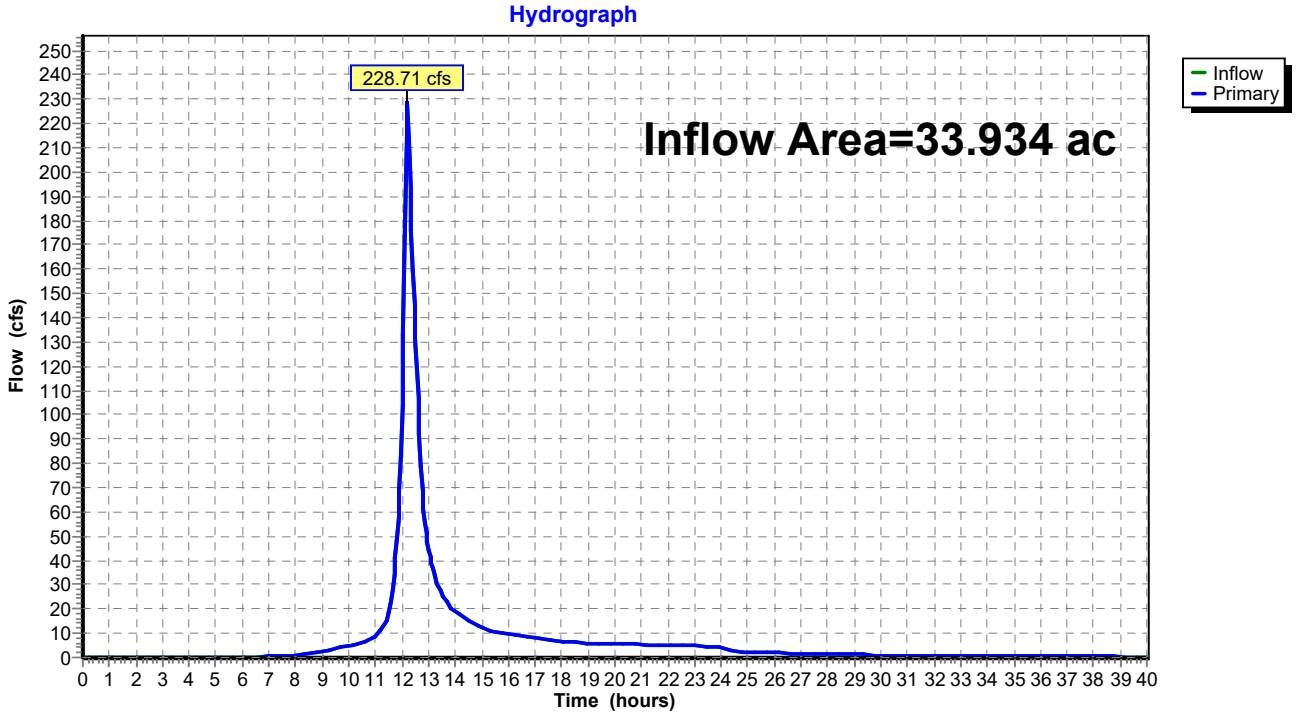
Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
169.81	3,860	9,484
169.82	3,868	9,523
169.83	3,876	9,561
169.84	3,884	9,600
169.85	3,892	9,639
169.86	3,900	9,678
169.87	3,908	9,717
169.88	3,916	9,756
169.89	3,924	9,795
169.90	3,932	9,835
169.91	3,940	9,874
169.92	3,948	9,913
169.93	3,956	9,953
169.94	3,964	9,993
169.95	3,972	10,032
169.96	3,980	10,072
169.97	3,988	10,112
169.98	3,996	10,152
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
170.33	4,225	11,591
170.34	4,231	11,633
170.35	4,237	11,676
170.36	4,244	11,718
170.37	4,250	11,760
170.38	4,257	11,803
170.39	4,263	11,846
170.40	4,270	11,888
170.41	4,276	11,931
170.42	4,282	11,974
170.43	4,289	12,017
170.44	4,295	12,059
170.45	4,302	12,102
170.46	4,308	12,146
170.47	4,315	12,189
170.48	4,321	12,232
170.49	4,328	12,275
170.50	**4,334**	**12,318**

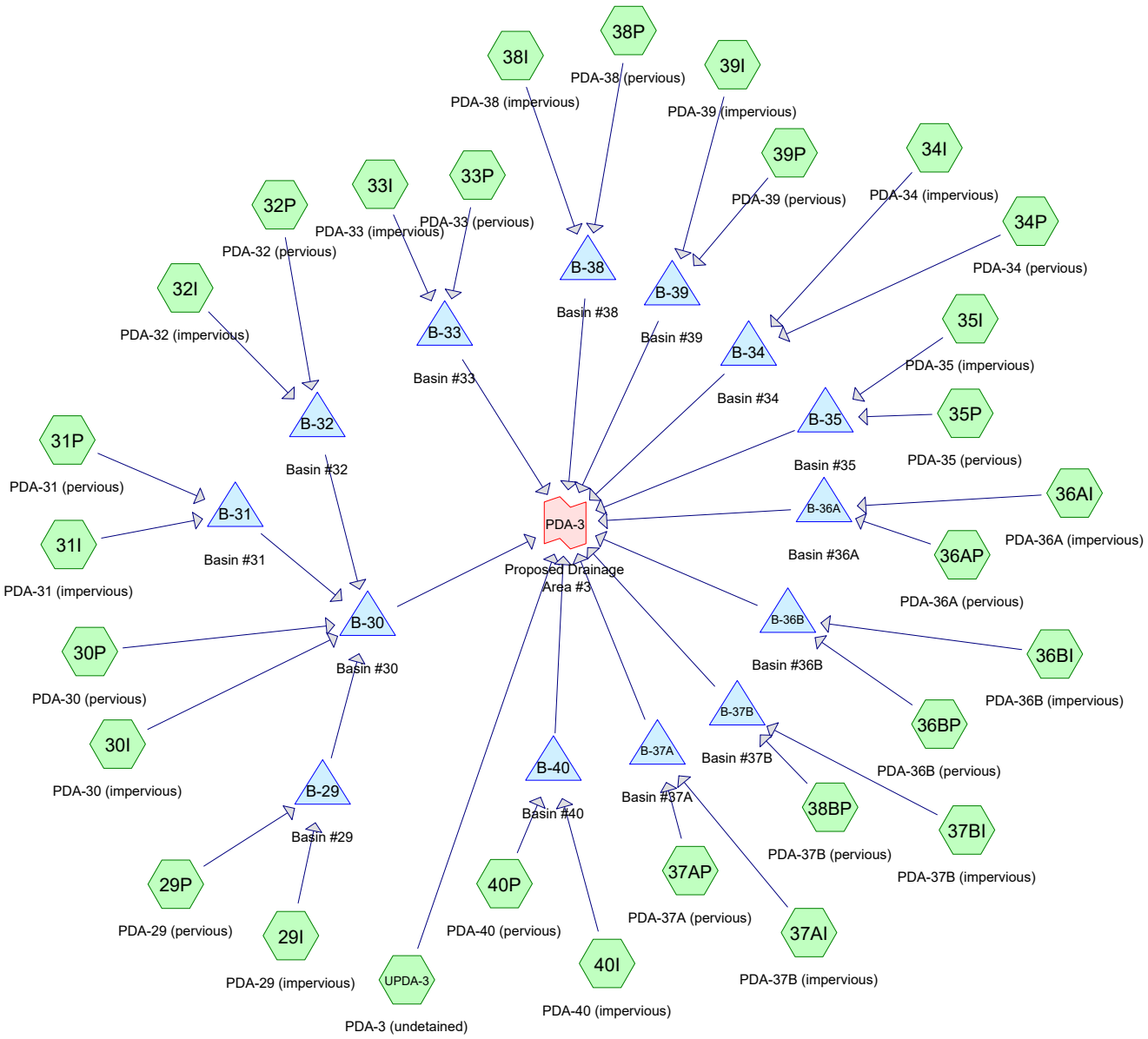
Summary for Link PDA-2: Proposed Drainage Area #2

Inflow Area = 33.934 ac, 26.90% Impervious, Inflow Depth > 8.38" for Future 100 yr event
Inflow = 228.71 cfs @ 12.20 hrs, Volume= 23.699 af
Primary = 228.71 cfs @ 12.20 hrs, Volume= 23.699 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





Routing Diagram for 2025-04-04 Proposed- 081391_3
Prepared by Bowman Consulting Group, Printed 4/1/2025
HydroCAD® 10.20-5c s/n 09435 © 2023 HydroCAD Software Solutions LLC

Area Listing (all nodes)

Area (acres)	CN	Description (subcatchment-numbers)
18.326	74	>75% Grass cover, Good, HSG C (29P, 30P, 31P, 32P, 33P, 34P, 35P, 36AP, 36BP, 37AP, 38BP, 38P, 39P, 40P, UPDA-3)
1.445	98	Concrete, HSC C (29I, 31I, 33I, 34I, 35I, 36AI, 36BI, 37AI, 37BI, 38I, 39I, 40I)
0.195	98	Paved roads w/curbs & sewers, HSG C (39I, 40I)
4.648	98	Pavement, HSG C (29I, 31I, 33I, 35I, 36AI, 36BI, 37AI, 37BI)
4.726	98	Roof, HSG C (30I, 31I, 32I, 33I, 34I, 35I, 36AI, 36BI, 38I, 39I, 40I)
0.279	98	Unconnected roofs, HSG C (37BI)
29.619	**83**	**TOTAL AREA**

Summary for Subcatchment 29l: PDA-29 (impervious)

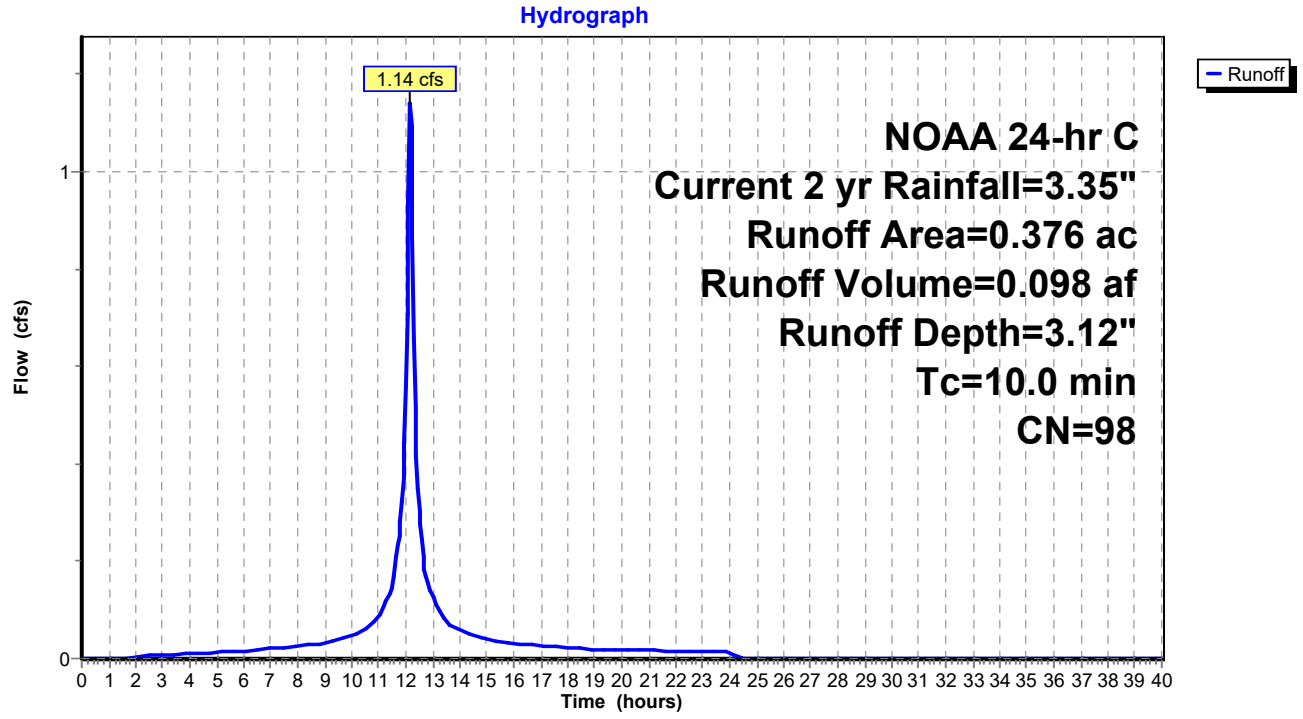
Runoff = 1.14 cfs @ 12.17 hrs, Volume= 0.098 af, Depth= 3.12"
Routed to Pond B-29 : Basin #29

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
*	0.342	98	Pavement, HSG C
*	0.034	98	Concrete, HSC C
	0.376	98	Weighted Average
	0.376		100.00% Impervious Area

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

Subcatchment 29l: PDA-29 (impervious)



Summary for Subcatchment 29P: PDA-29 (pervious)

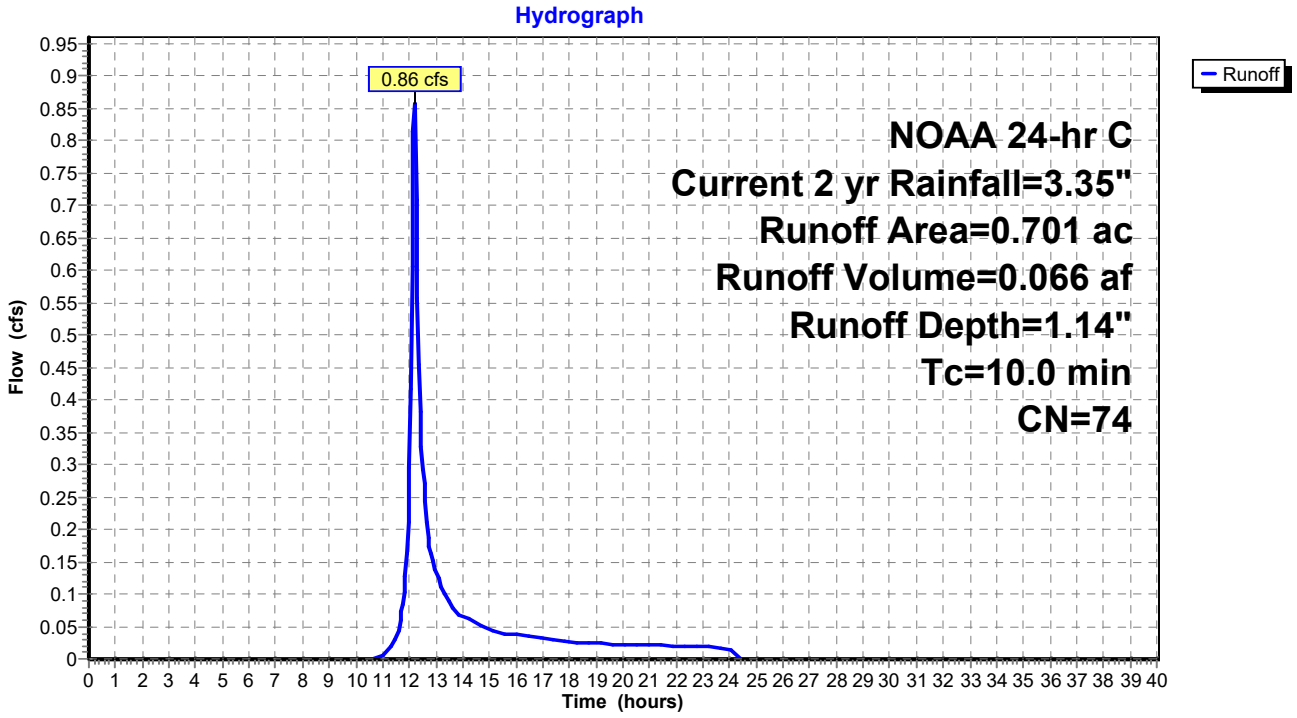
Runoff = 0.86 cfs @ 12.18 hrs, Volume= 0.066 af, Depth= 1.14"
Routed to Pond B-29 : Basin #29

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
0.701	74	>75% Grass cover, Good, HSG C
0.701		100.00% Pervious Area

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

Subcatchment 29P: PDA-29 (pervious)



Summary for Subcatchment 30l: PDA-30 (impervious)

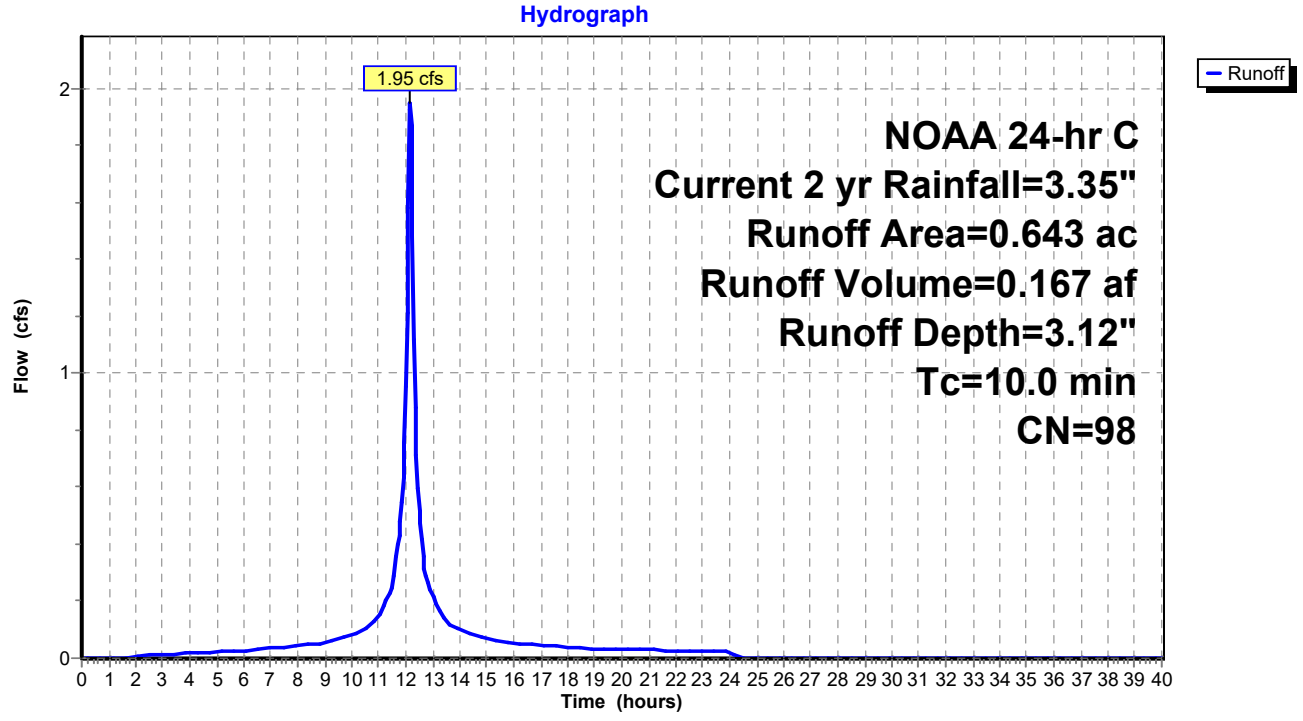
Runoff = 1.95 cfs @ 12.17 hrs, Volume= 0.167 af, Depth= 3.12"
Routed to Pond B-30 : Basin #30

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
*	0.643	98	Roof, HSG C
*	0.000	98	Concrete, HSC C
	0.643	98	Weighted Average
	0.643		100.00% Impervious Area

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

Subcatchment 30l: PDA-30 (impervious)



Summary for Subcatchment 30P: PDA-30 (pervious)

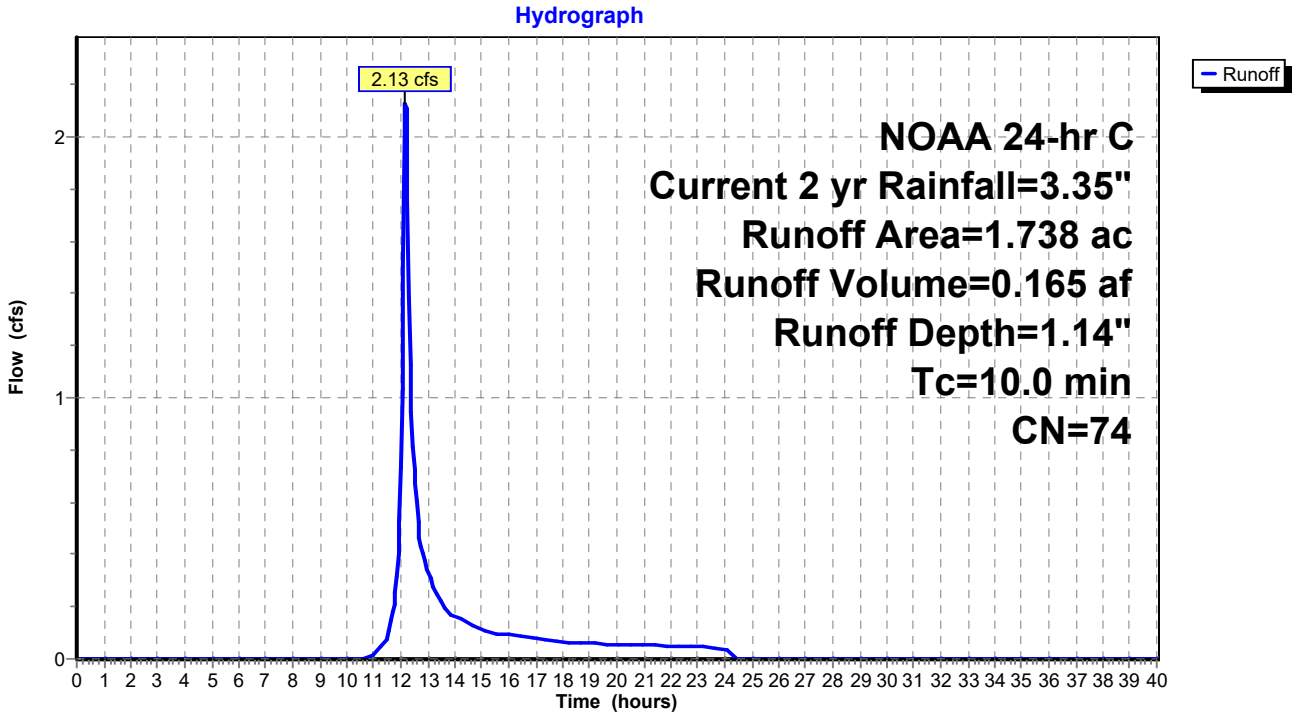
Runoff = 2.13 cfs @ 12.18 hrs, Volume= 0.165 af, Depth= 1.14"
Routed to Pond B-30 : Basin #30

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
1.738	74	>75% Grass cover, Good, HSG C
1.738		100.00% Pervious Area

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

Subcatchment 30P: PDA-30 (pervious)



Summary for Subcatchment 31I: PDA-31 (impervious)

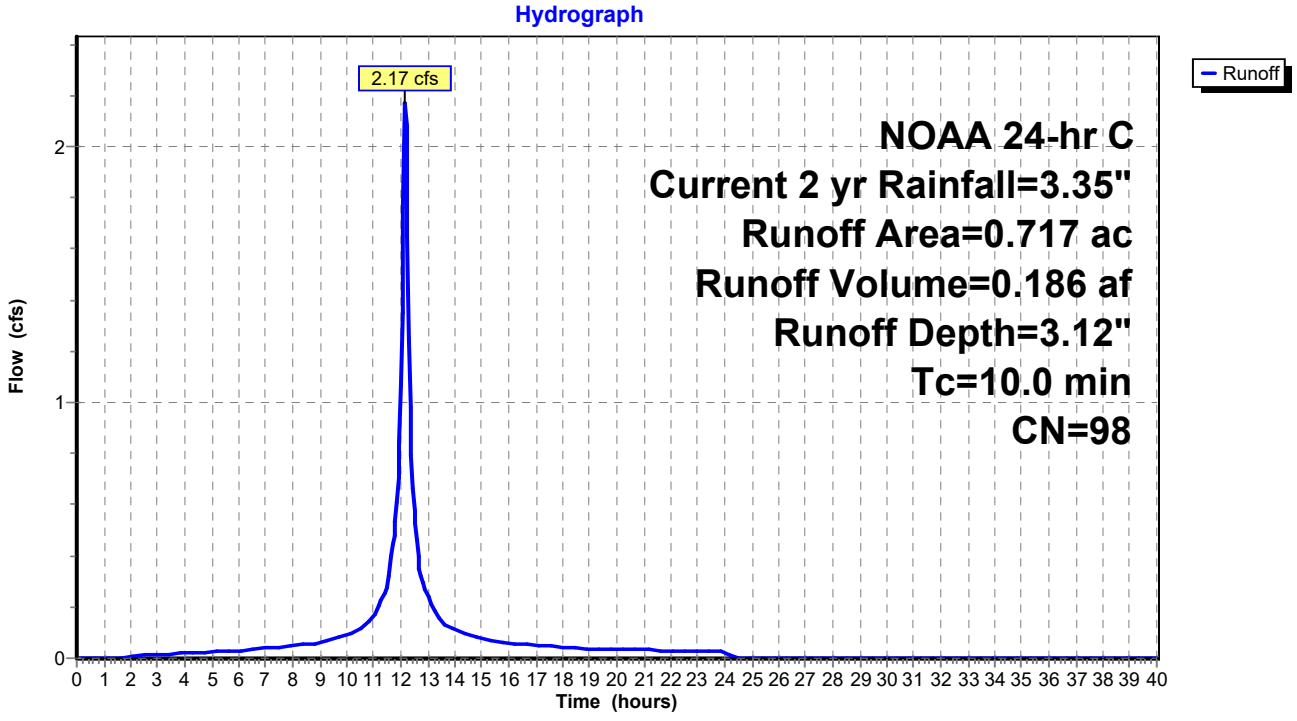
Runoff = 2.17 cfs @ 12.17 hrs, Volume= 0.186 af, Depth= 3.12"
Routed to Pond B-31 : Basin #31

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
*	0.557	98	Pavement, HSG C
*	0.064	98	Roof, HSG C
*	0.096	98	Concrete, HSC C
	0.717	98	Weighted Average
	0.717		100.00% Impervious Area

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

Subcatchment 31I: PDA-31 (impervious)



Summary for Subcatchment 31P: PDA-31 (pervious)

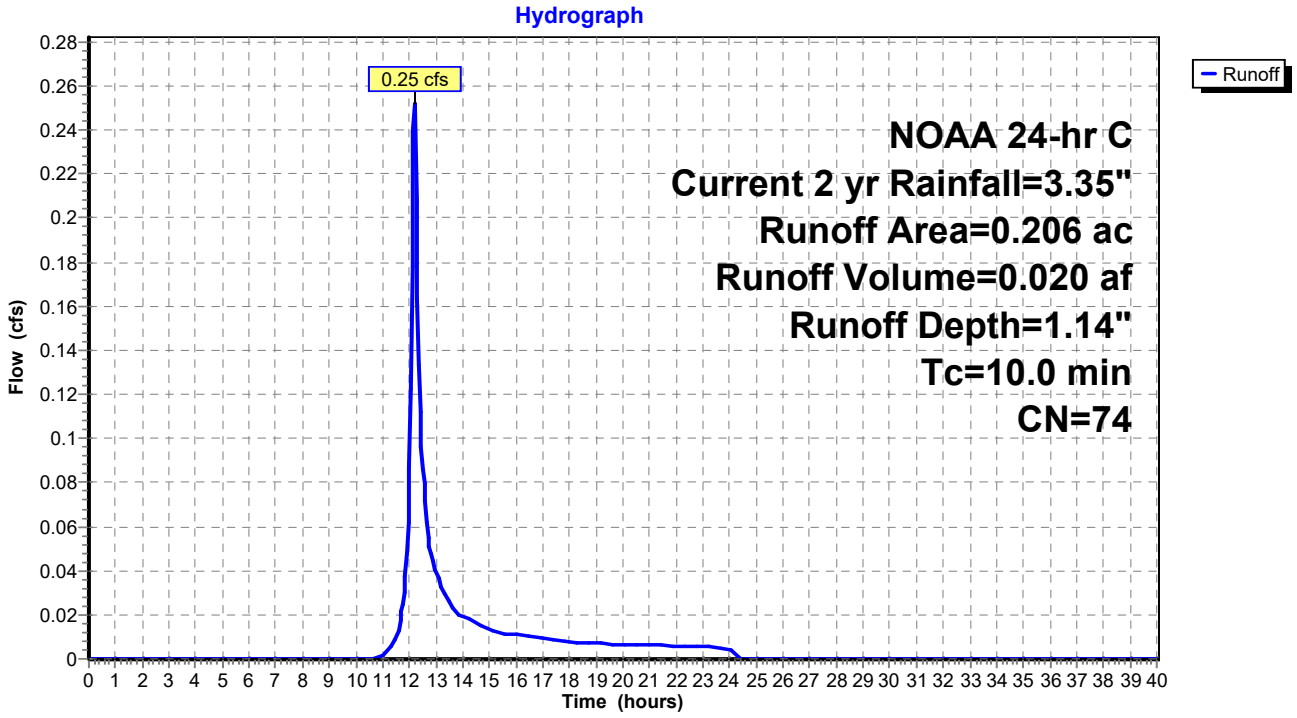
Runoff = 0.25 cfs @ 12.18 hrs, Volume= 0.020 af, Depth= 1.14"
Routed to Pond B-31 : Basin #31

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
0.206	74	>75% Grass cover, Good, HSG C
0.206		100.00% Pervious Area

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

Subcatchment 31P: PDA-31 (pervious)



Summary for Subcatchment 32I: PDA-32 (impervious)

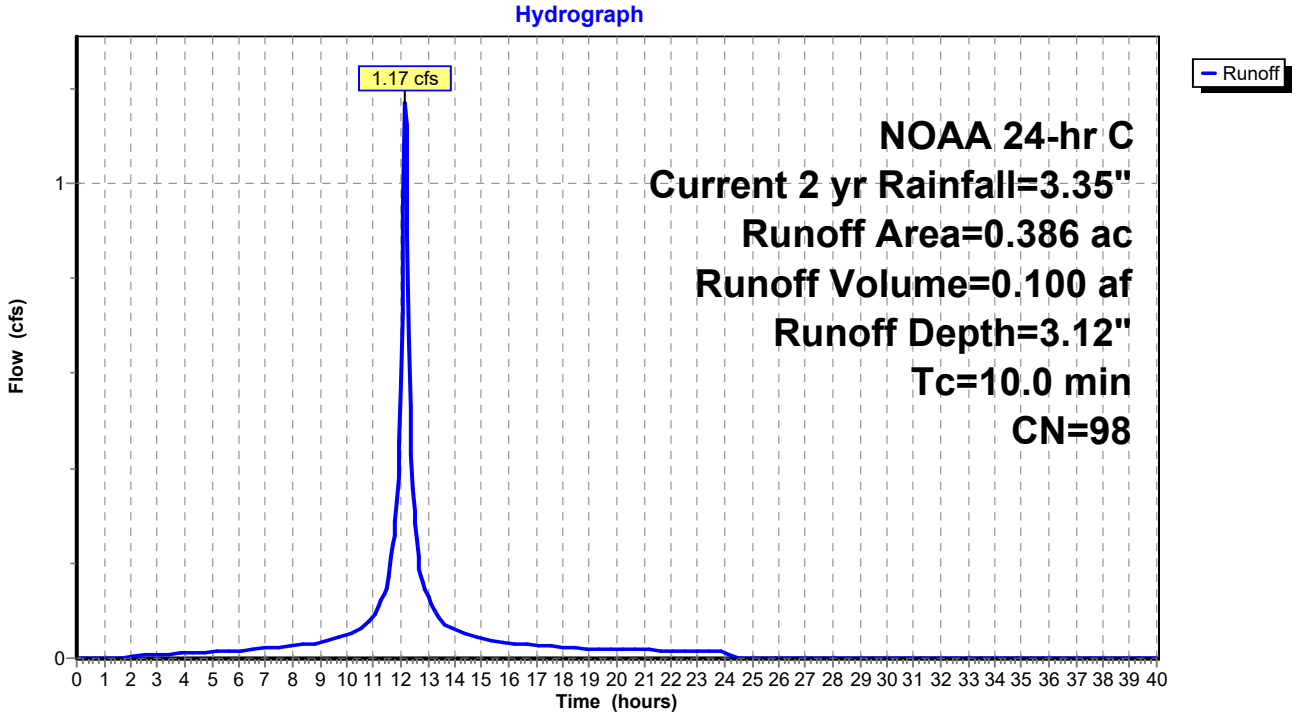
Runoff = 1.17 cfs @ 12.17 hrs, Volume= 0.100 af, Depth= 3.12"
Routed to Pond B-32 : Basin #32

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
*	0.386	98	Roof, HSG C
*	0.000	98	Concrete, HSC C
	0.386	98	Weighted Average
	0.386		100.00% Impervious Area

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

Subcatchment 32I: PDA-32 (impervious)



Summary for Subcatchment 32P: PDA-32 (pervious)

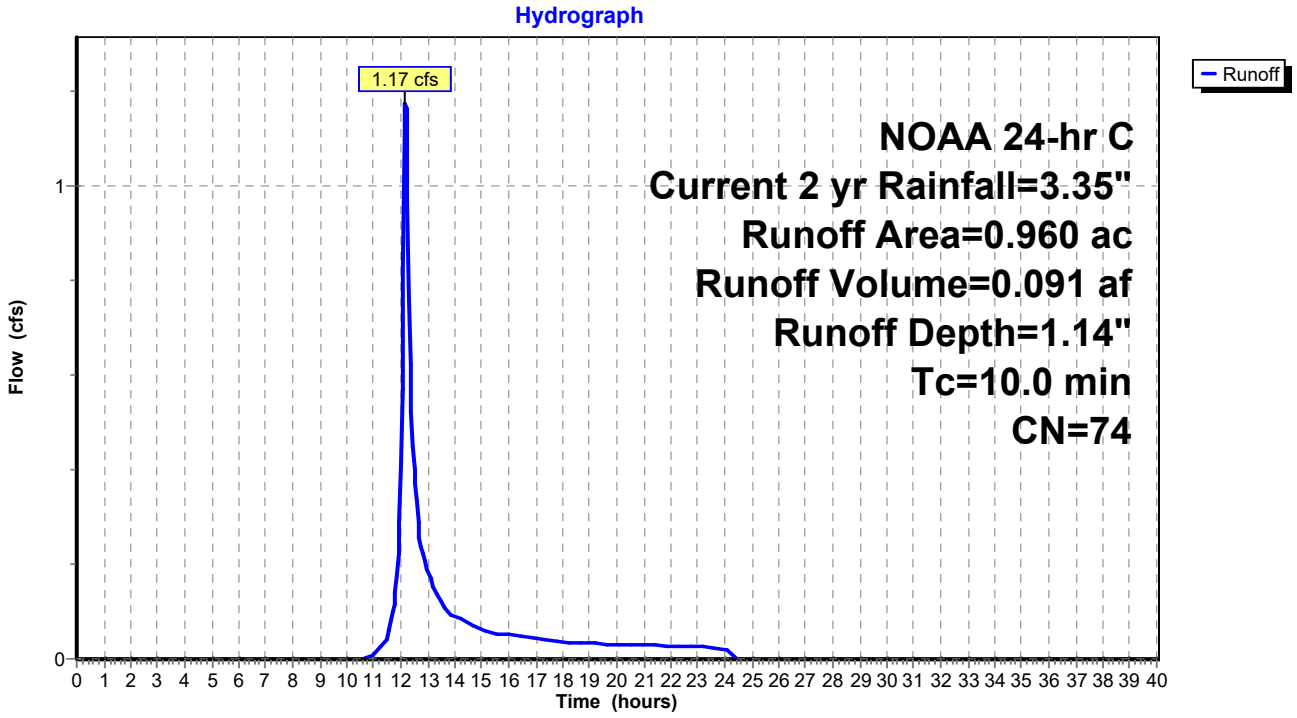
Runoff = 1.17 cfs @ 12.18 hrs, Volume= 0.091 af, Depth= 1.14"
Routed to Pond B-32 : Basin #32

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 32P: PDA-32 (pervious)



Summary for Subcatchment 33I: PDA-33 (impervious)

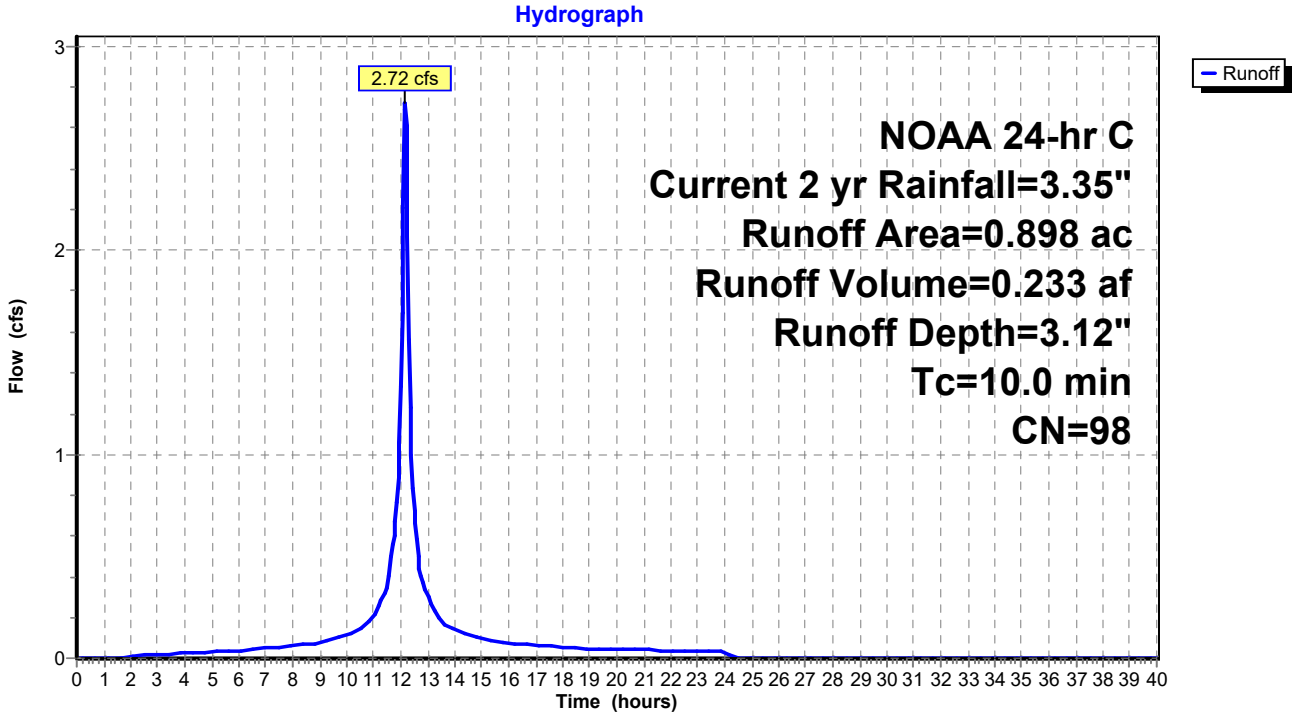
Runoff = 2.72 cfs @ 12.17 hrs, Volume= 0.233 af, Depth= 3.12"
Routed to Pond B-33 : Basin #33

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
*	0.351	98	Pavement, HSG C
*	0.514	98	Roof, HSG C
*	0.033	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 33I: PDA-33 (impervious)



Summary for Subcatchment 33P: PDA-33 (pervious)

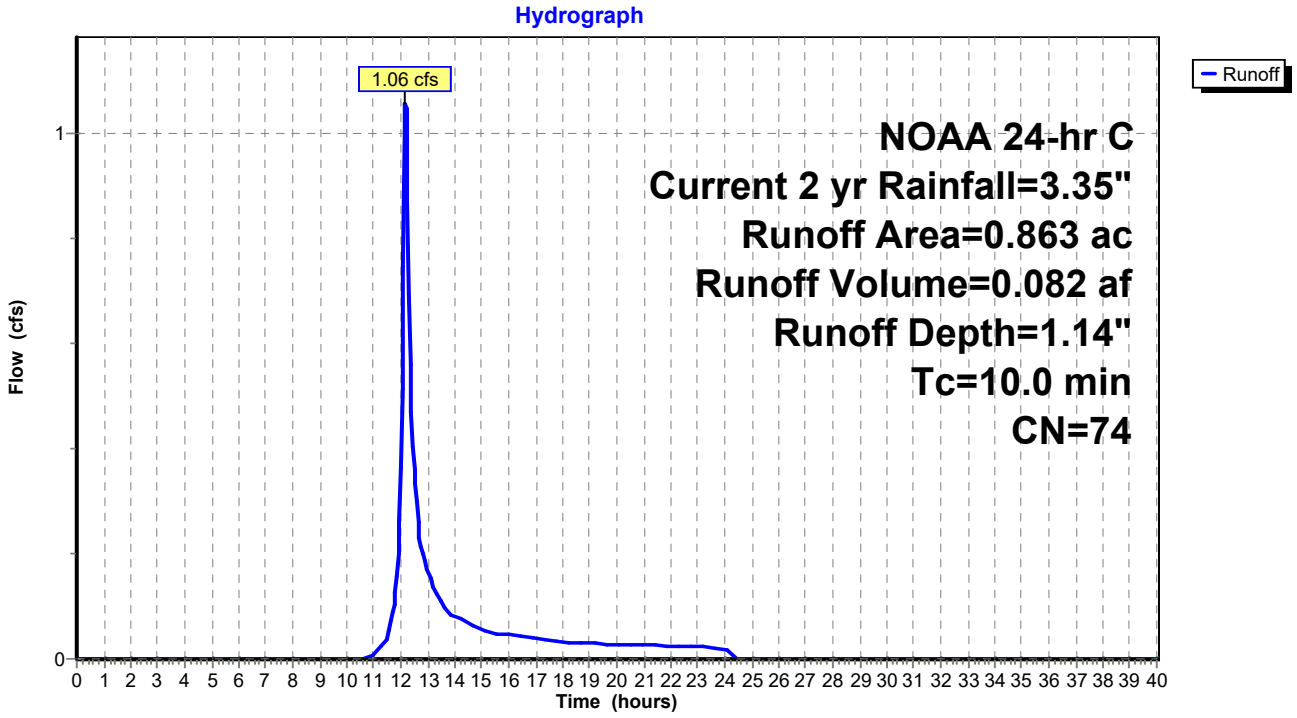
Runoff = 1.06 cfs @ 12.18 hrs, Volume= 0.082 af, Depth= 1.14"
Routed to Pond B-33 : Basin #33

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
0.863	74	>75% Grass cover, Good, HSG C
0.863		100.00% Pervious Area

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

Subcatchment 33P: PDA-33 (pervious)



Summary for Subcatchment 34I: PDA-34 (impervious)

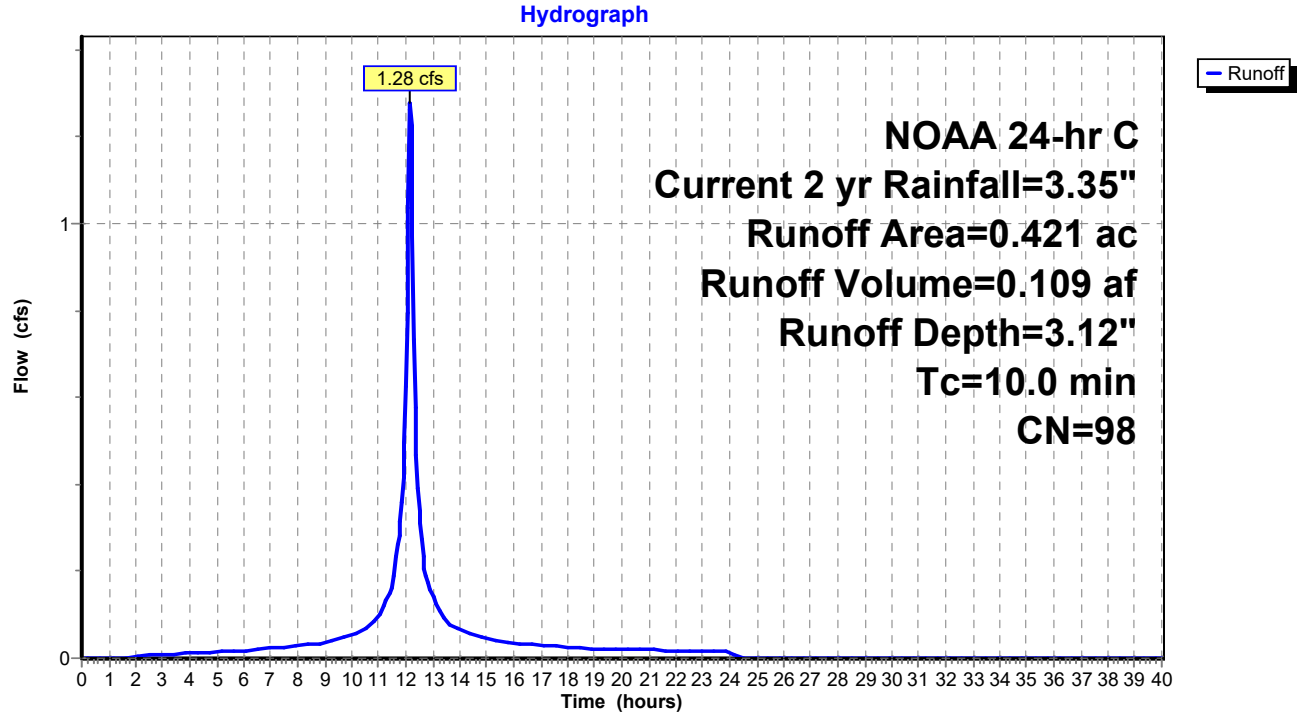
Runoff = 1.28 cfs @ 12.17 hrs, Volume= 0.109 af, Depth= 3.12"
Routed to Pond B-34 : Basin #34

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
*	0.279	98	Roof, HSG C
*	0.142	98	Concrete, HSC C
	0.421	98	Weighted Average
	0.421		100.00% Impervious Area

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

Subcatchment 34I: PDA-34 (impervious)



Summary for Subcatchment 34P: PDA-34 (pervious)

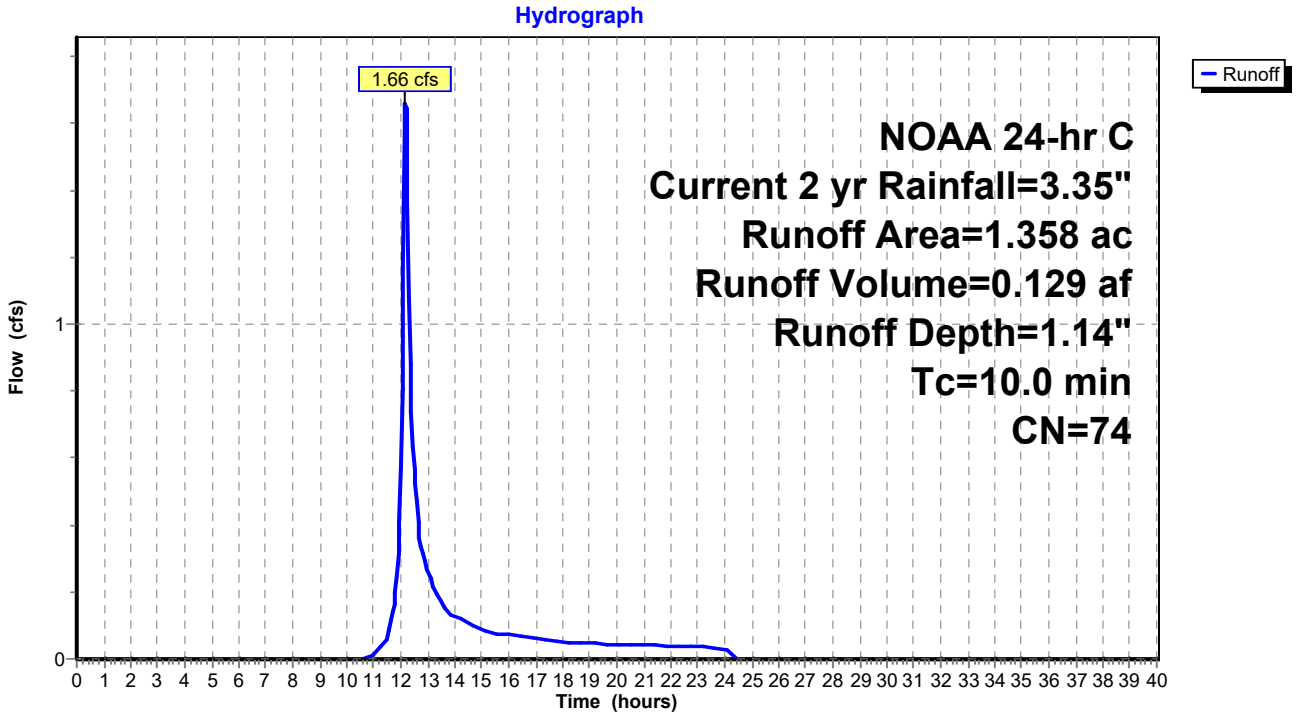
Runoff = 1.66 cfs @ 12.18 hrs, Volume= 0.129 af, Depth= 1.14"
Routed to Pond B-34 : Basin #34

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
1.358	74	>75% Grass cover, Good, HSG C
1.358		100.00% Pervious Area

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

Subcatchment 34P: PDA-34 (pervious)



Summary for Subcatchment 35l: PDA-35 (impervious)

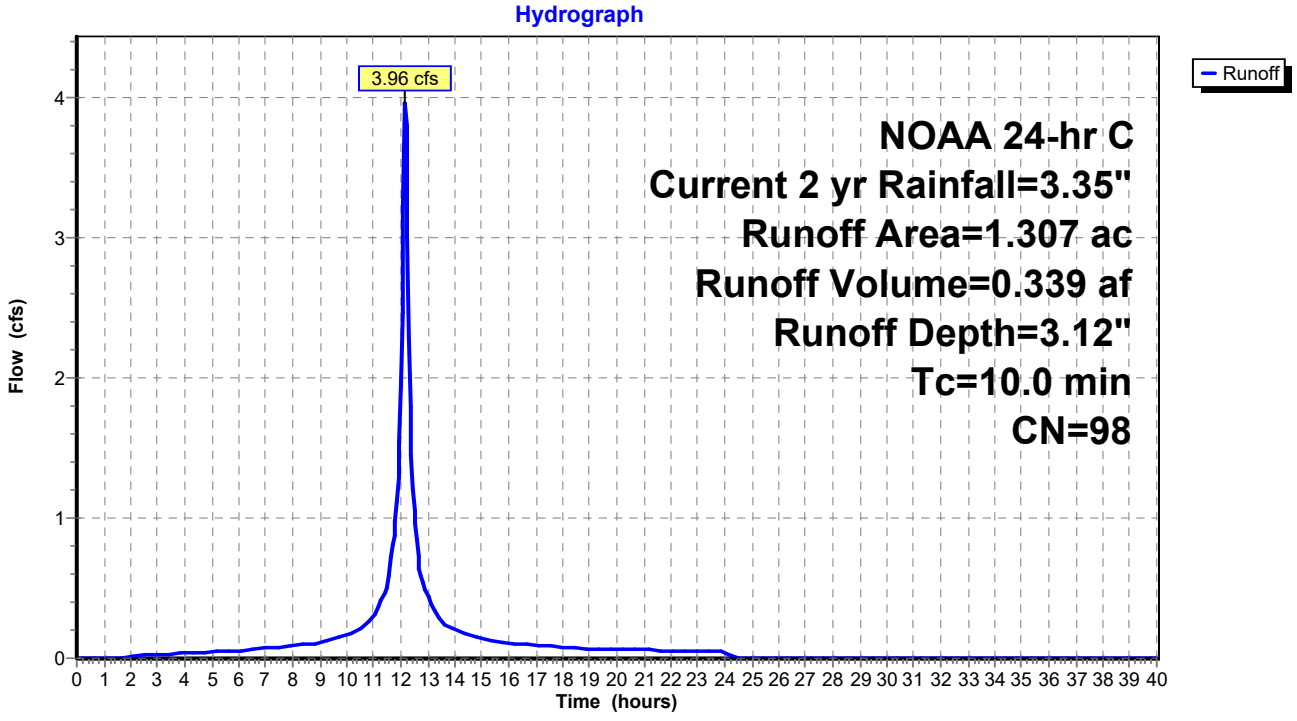
Runoff = 3.96 cfs @ 12.17 hrs, Volume= 0.339 af, Depth= 3.12"
Routed to Pond B-35 : Basin #35

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
*	1.003	98	Pavement, HSG C
*	0.139	98	Roof, HSG C
*	0.165	98	Concrete, HSC C
	1.307	98	Weighted Average
	1.307		100.00% Impervious Area

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

Subcatchment 35l: PDA-35 (impervious)



Summary for Subcatchment 35P: PDA-35 (pervious)

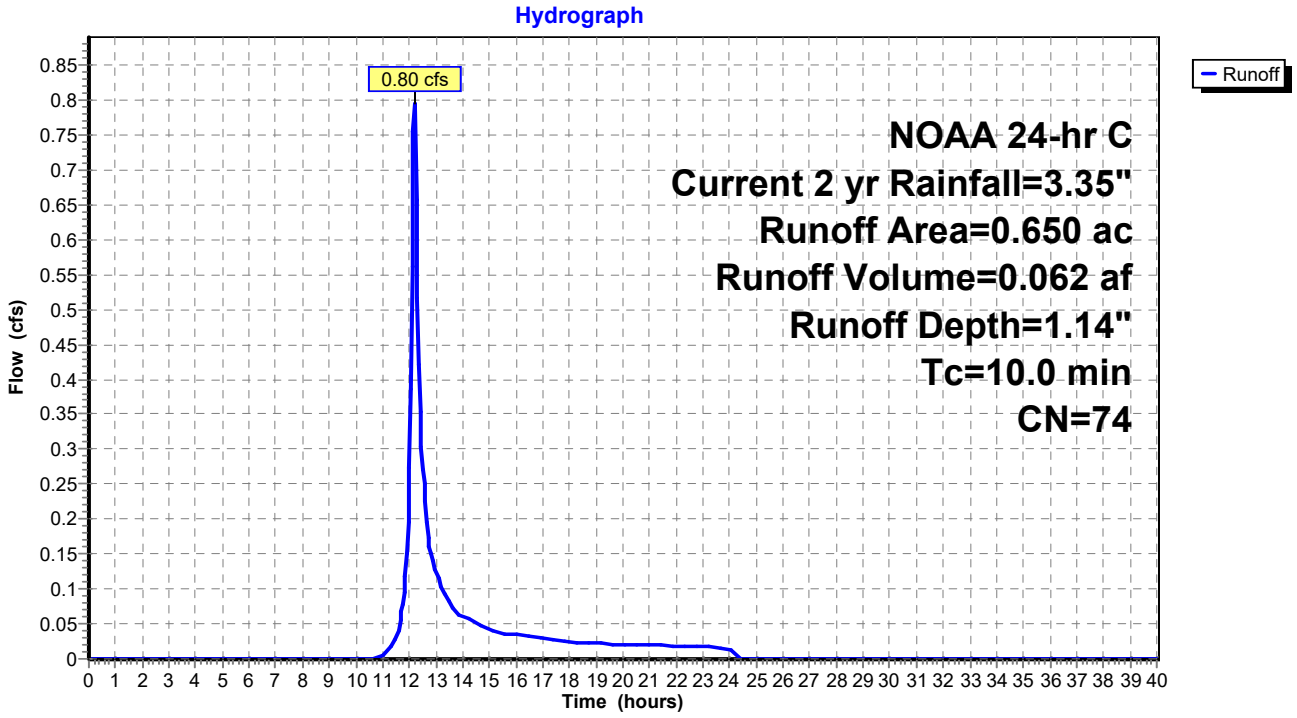
Runoff = 0.80 cfs @ 12.18 hrs, Volume= 0.062 af, Depth= 1.14"
Routed to Pond B-35 : Basin #35

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
0.650	74	>75% Grass cover, Good, HSG C
0.650		100.00% Pervious Area

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

Subcatchment 35P: PDA-35 (pervious)



Summary for Subcatchment 36AI: PDA-36A (impervious)

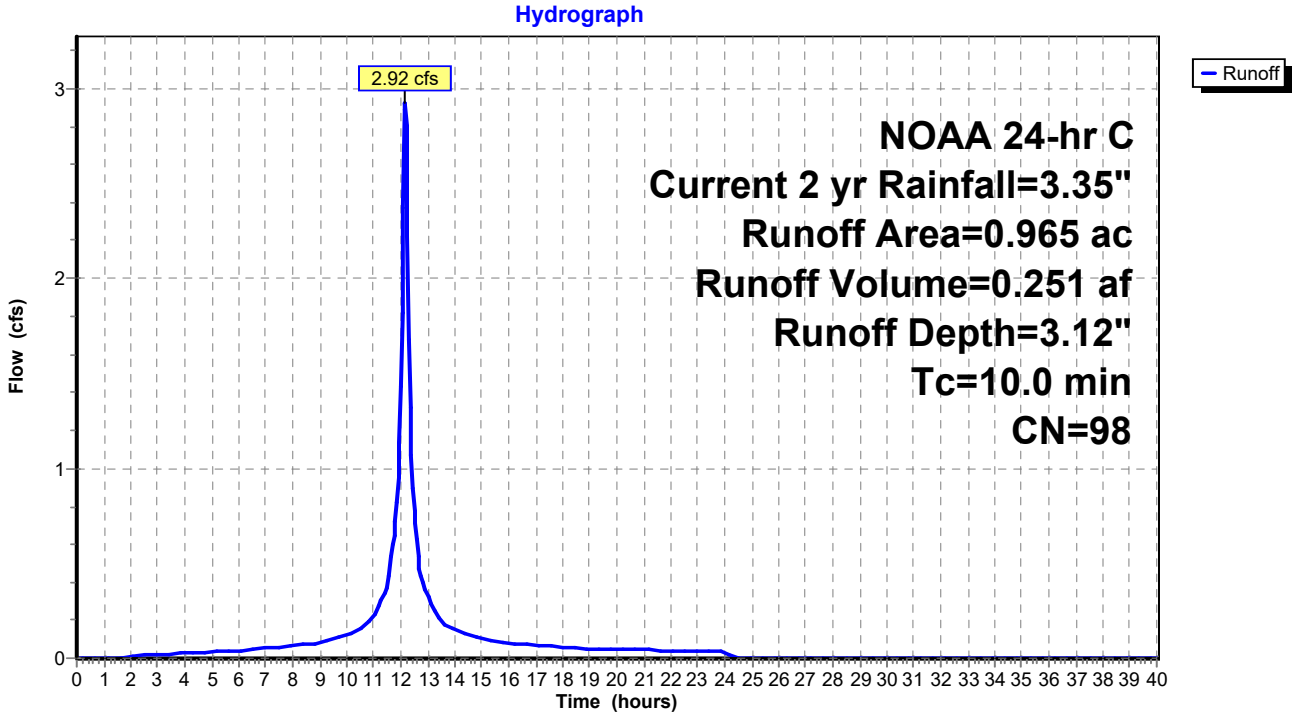
Runoff = 2.92 cfs @ 12.17 hrs, Volume= 0.251 af, Depth= 3.12"
Routed to Pond B-36A : Basin #36A

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
*	0.415	98	Pavement, HSG C
*	0.418	98	Roof, HSG C
*	0.132	98	Concrete, HSC C
	0.965	98	Weighted Average
	0.965		100.00% Impervious Area

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

Subcatchment 36AI: PDA-36A (impervious)



Summary for Subcatchment 36AP: PDA-36A (pervious)

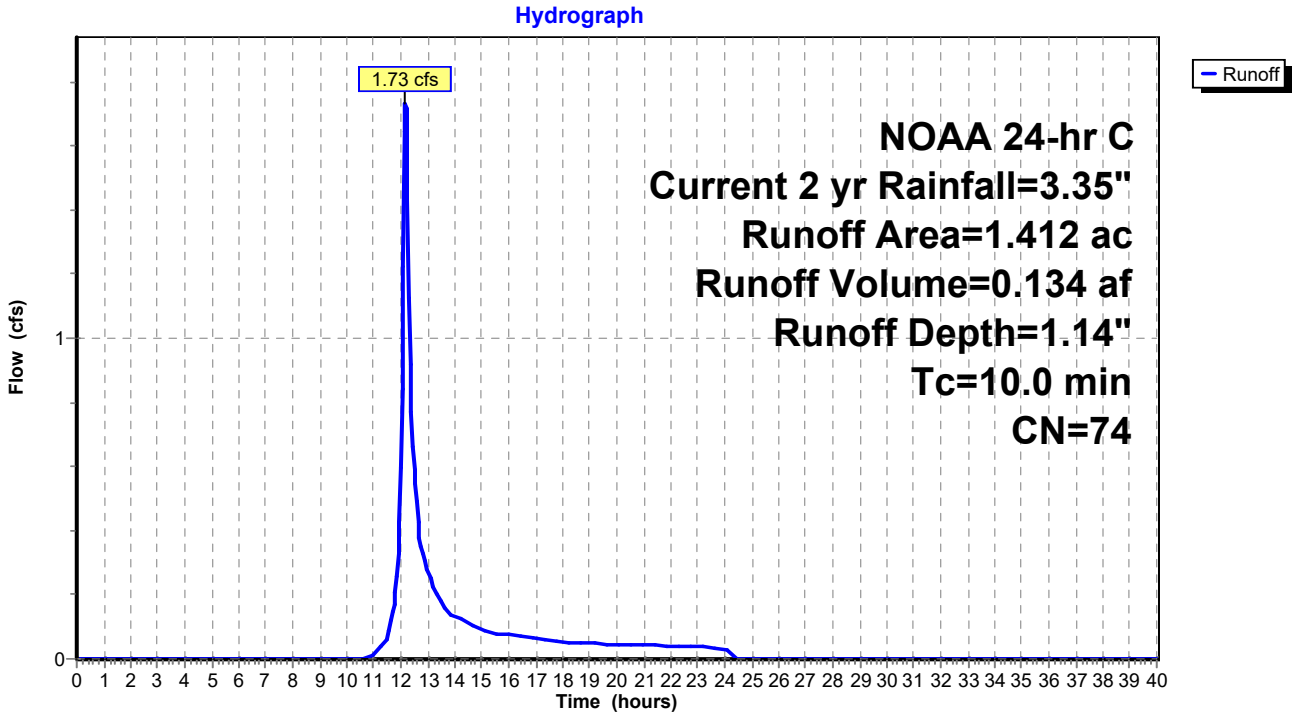
Runoff = 1.73 cfs @ 12.18 hrs, Volume= 0.134 af, Depth= 1.14"
Routed to Pond B-36A : Basin #36A

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
1.412	74	>75% Grass cover, Good, HSG C
1.412		100.00% Pervious Area

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

Subcatchment 36AP: PDA-36A (pervious)



Summary for Subcatchment 36BI: PDA-36B (impervious)

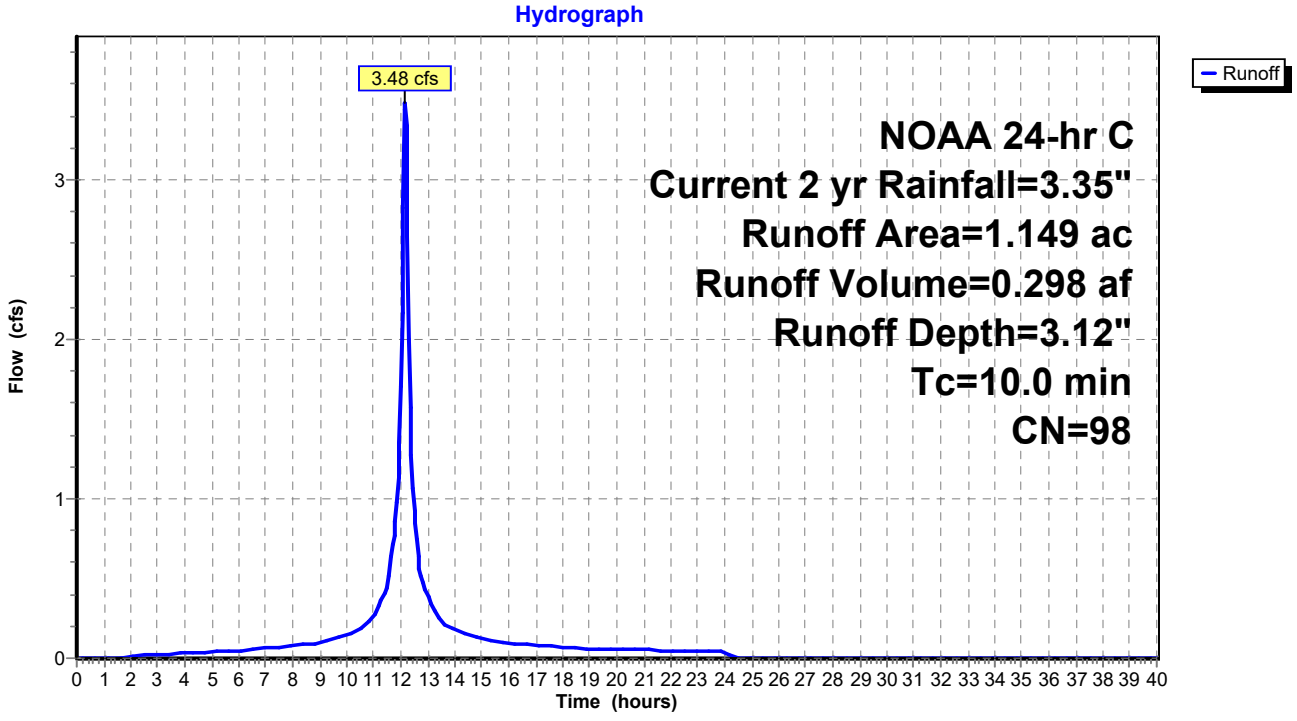
Runoff = 3.48 cfs @ 12.17 hrs, Volume= 0.298 af, Depth= 3.12"
Routed to Pond B-36B : Basin #36B

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
*	0.501	98	Pavement, HSG C
*	0.579	98	Roof, HSG C
*	0.069	98	Concrete, HSC C
	1.149	98	Weighted Average
	1.149		100.00% Impervious Area

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

Subcatchment 36BI: PDA-36B (impervious)



Summary for Subcatchment 36BP: PDA-36B (pervious)

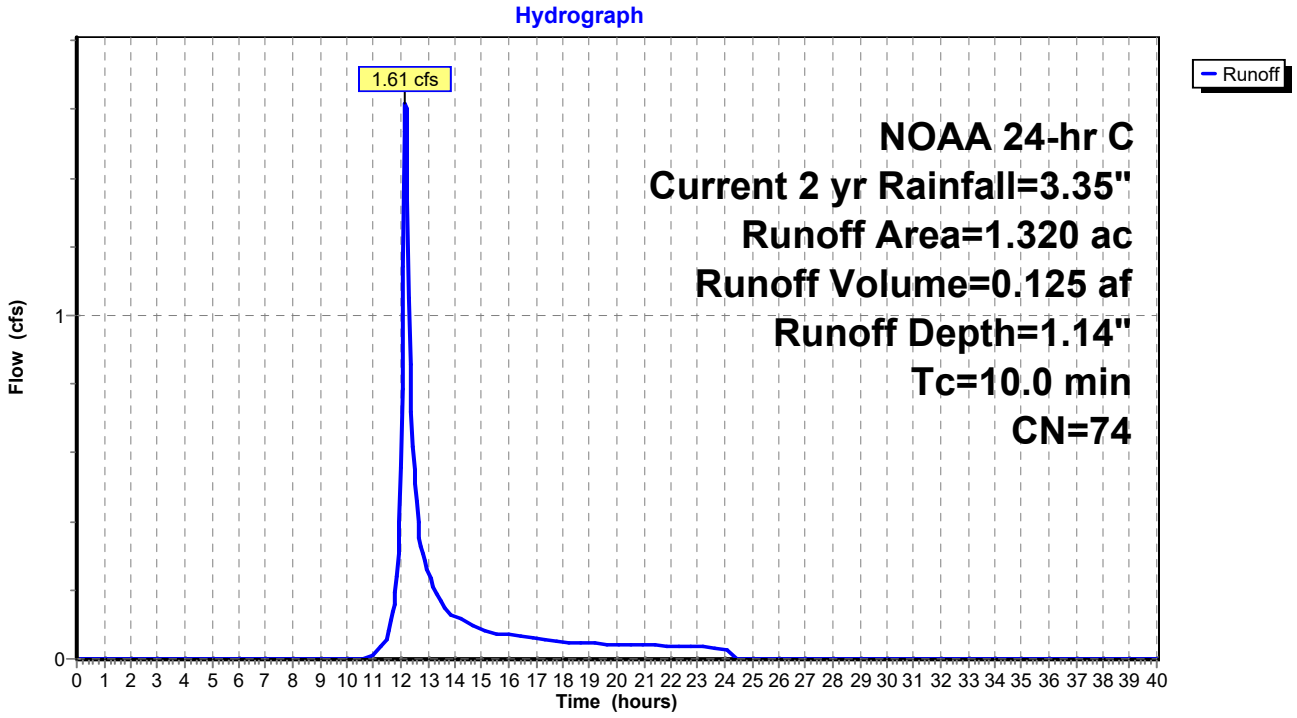
Runoff = 1.61 cfs @ 12.18 hrs, Volume= 0.125 af, Depth= 1.14"
Routed to Pond B-36B : Basin #36B

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
1.320	74	>75% Grass cover, Good, HSG C
1.320		100.00% Pervious Area

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

Subcatchment 36BP: PDA-36B (pervious)



Summary for Subcatchment 37AI: PDA-37B (impervious)

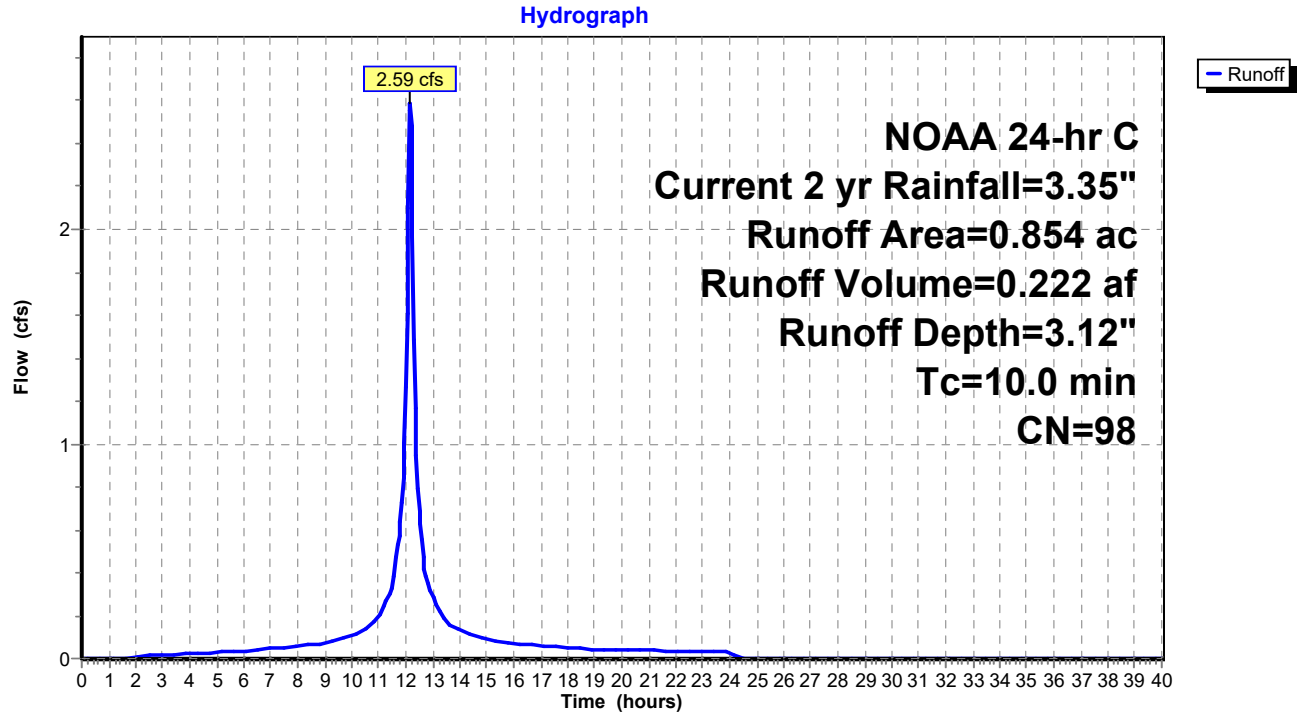
Runoff = 2.59 cfs @ 12.17 hrs, Volume= 0.222 af, Depth= 3.12"
Routed to Pond B-37A : Basin #37A

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
*	0.673	98	Pavement, HSG C
*	0.181	98	Concrete, HSC C
	0.854	98	Weighted Average
	0.854		100.00% Impervious Area

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

Subcatchment 37AI: PDA-37B (impervious)



Summary for Subcatchment 37AP: PDA-37A (pervious)

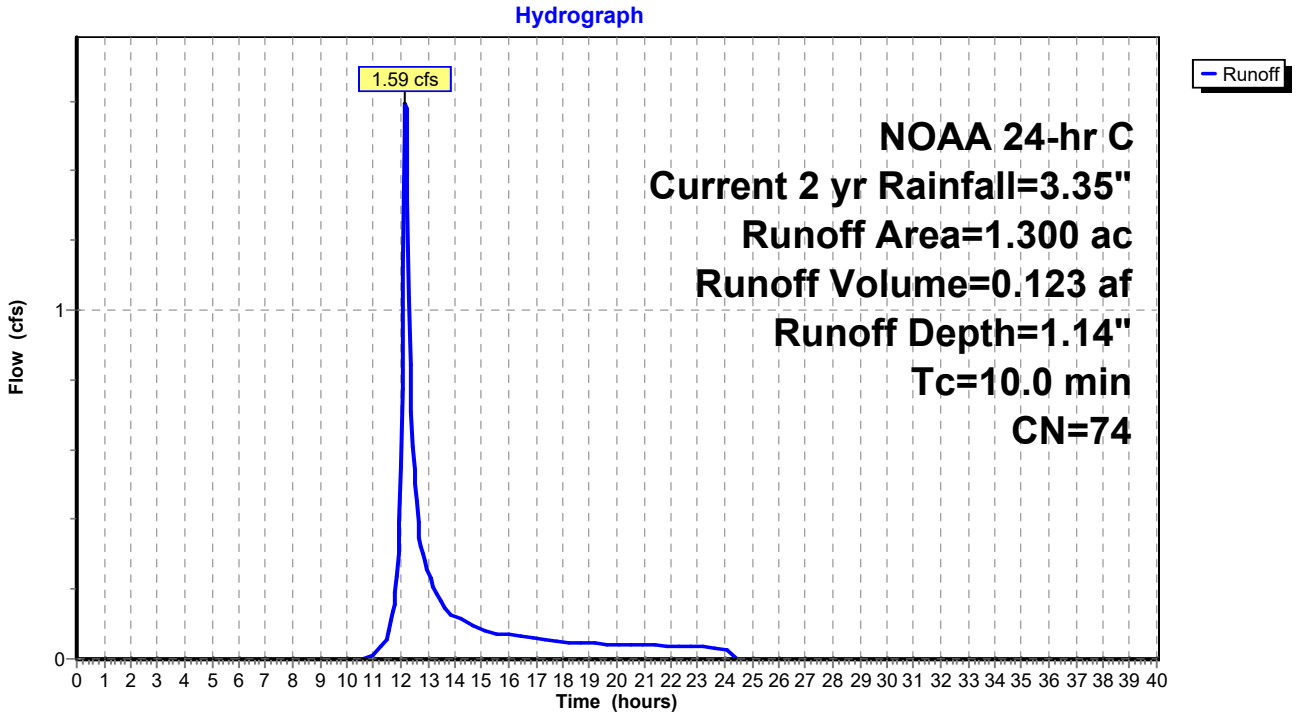
Runoff = 1.59 cfs @ 12.18 hrs, Volume= 0.123 af, Depth= 1.14"
Routed to Pond B-37A : Basin #37A

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
1.300	74	>75% Grass cover, Good, HSG C
1.300		100.00% Pervious Area

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

Subcatchment 37AP: PDA-37A (pervious)



Summary for Subcatchment 37BI: PDA-37B (impervious)

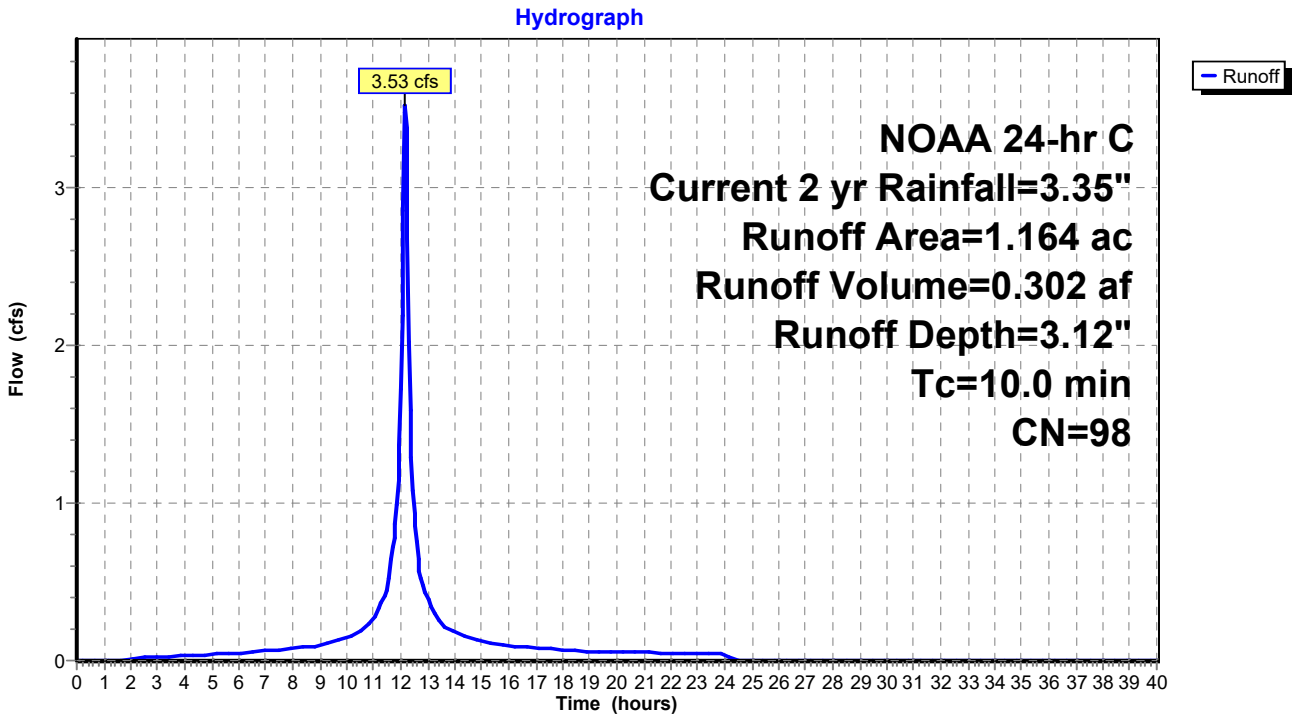
Runoff = 3.53 cfs @ 12.17 hrs, Volume= 0.302 af, Depth= 3.12"
Routed to Pond B-37B : Basin #37B

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
*	0.806	98	Pavement, HSG C
*	0.079	98	Concrete, HSC C
	0.279	98	Unconnected roofs, HSG C
	1.164	98	Weighted Average
	1.164		100.00% Impervious Area
	0.279		23.97% Unconnected

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

Subcatchment 37BI: PDA-37B (impervious)



Summary for Subcatchment 38BP: PDA-37B (pervious)

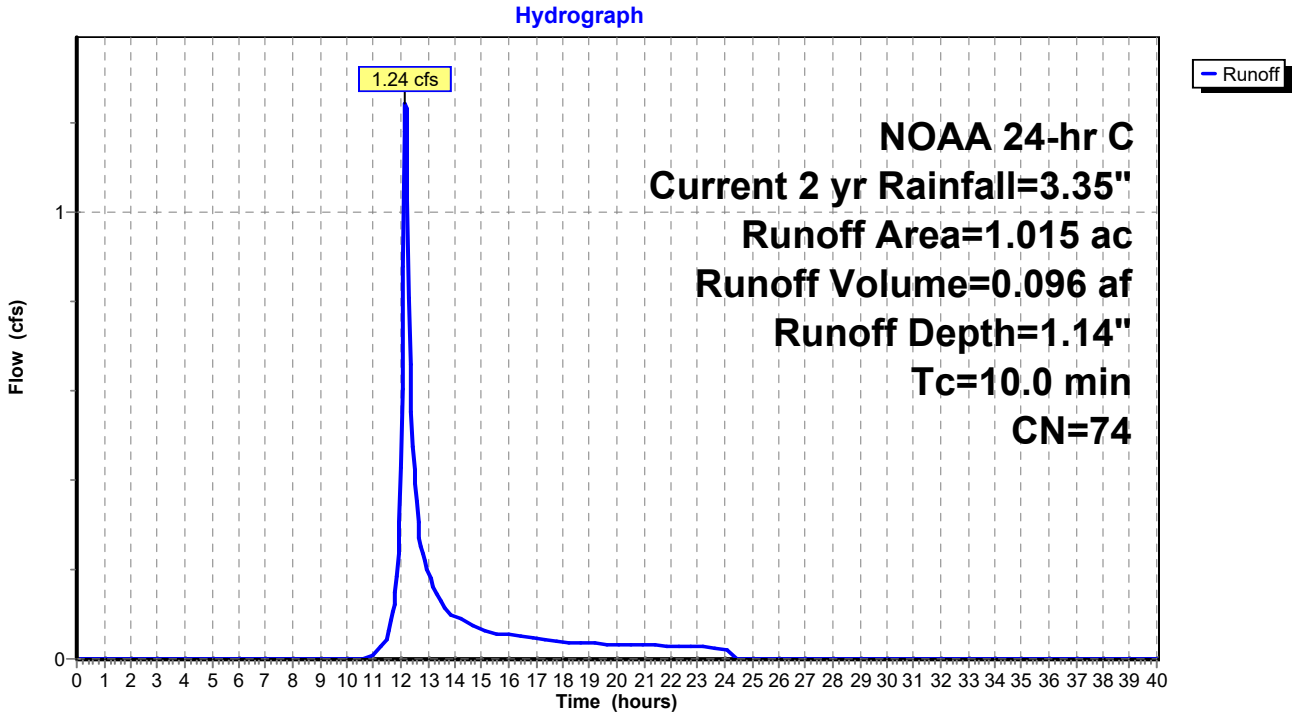
Runoff = 1.24 cfs @ 12.18 hrs, Volume= 0.096 af, Depth= 1.14"
Routed to Pond B-37B : Basin #37B

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
1.015	74	>75% Grass cover, Good, HSG C
1.015		100.00% Pervious Area

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

Subcatchment 38BP: PDA-37B (pervious)



Summary for Subcatchment 38I: PDA-38 (impervious)

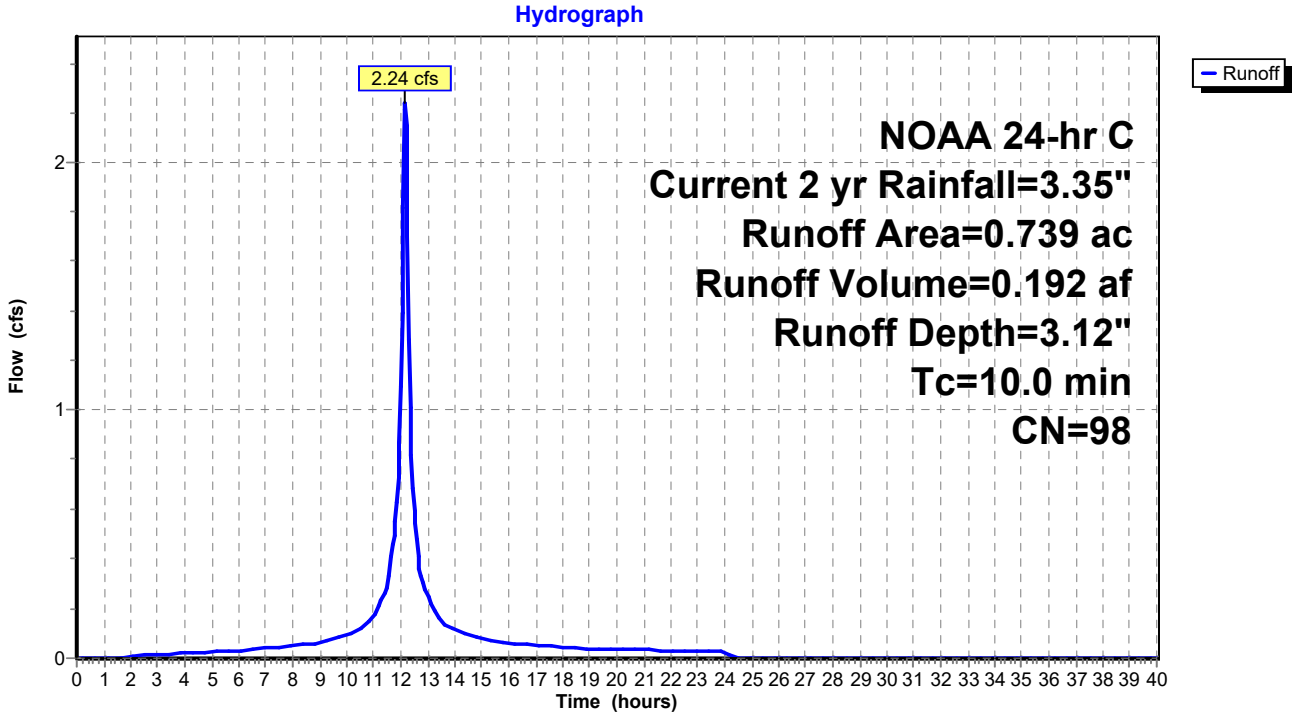
Runoff = 2.24 cfs @ 12.17 hrs, Volume= 0.192 af, Depth= 3.12"
Routed to Pond B-38 : Basin #38

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
*	0.568	98	Roof, HSG C
*	0.171	98	Concrete, HSC C
	0.000	98	Paved roads w/curbs & sewers, HSG C
	0.739	98	Weighted Average
	0.739		100.00% Impervious Area

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

Subcatchment 38I: PDA-38 (impervious)



Summary for Subcatchment 38P: PDA-38 (pervious)

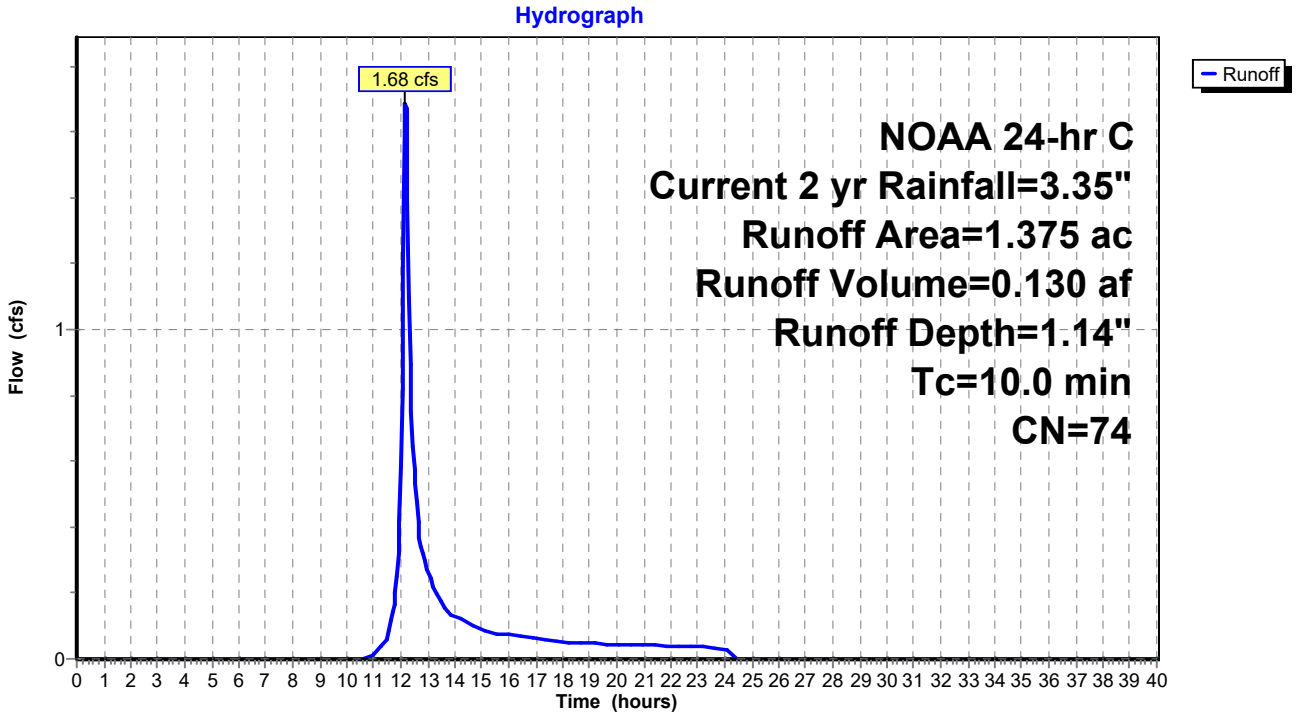
Runoff = 1.68 cfs @ 12.18 hrs, Volume= 0.130 af, Depth= 1.14"
Routed to Pond B-38 : Basin #38

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
1.375	74	>75% Grass cover, Good, HSG C
1.375		100.00% Pervious Area

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

Subcatchment 38P: PDA-38 (pervious)



Summary for Subcatchment 39l: PDA-39 (impervious)

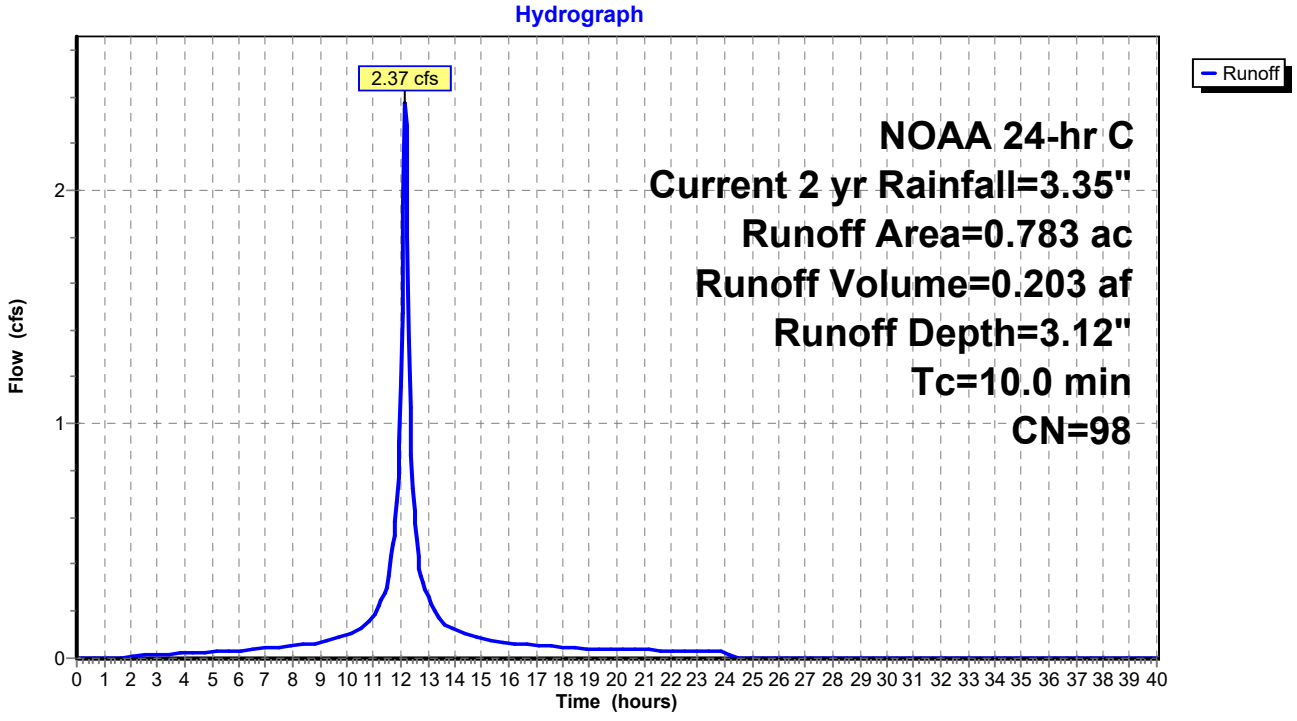
Runoff = 2.37 cfs @ 12.17 hrs, Volume= 0.203 af, Depth= 3.12"
Routed to Pond B-39 : Basin #39

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
*	0.568	98	Roof, HSG C
*	0.164	98	Concrete, HSC C
	0.051	98	Paved roads w/curbs & sewers, HSG C
	0.783	98	Weighted Average
	0.783		100.00% Impervious Area

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

Subcatchment 39l: PDA-39 (impervious)



Summary for Subcatchment 39P: PDA-39 (pervious)

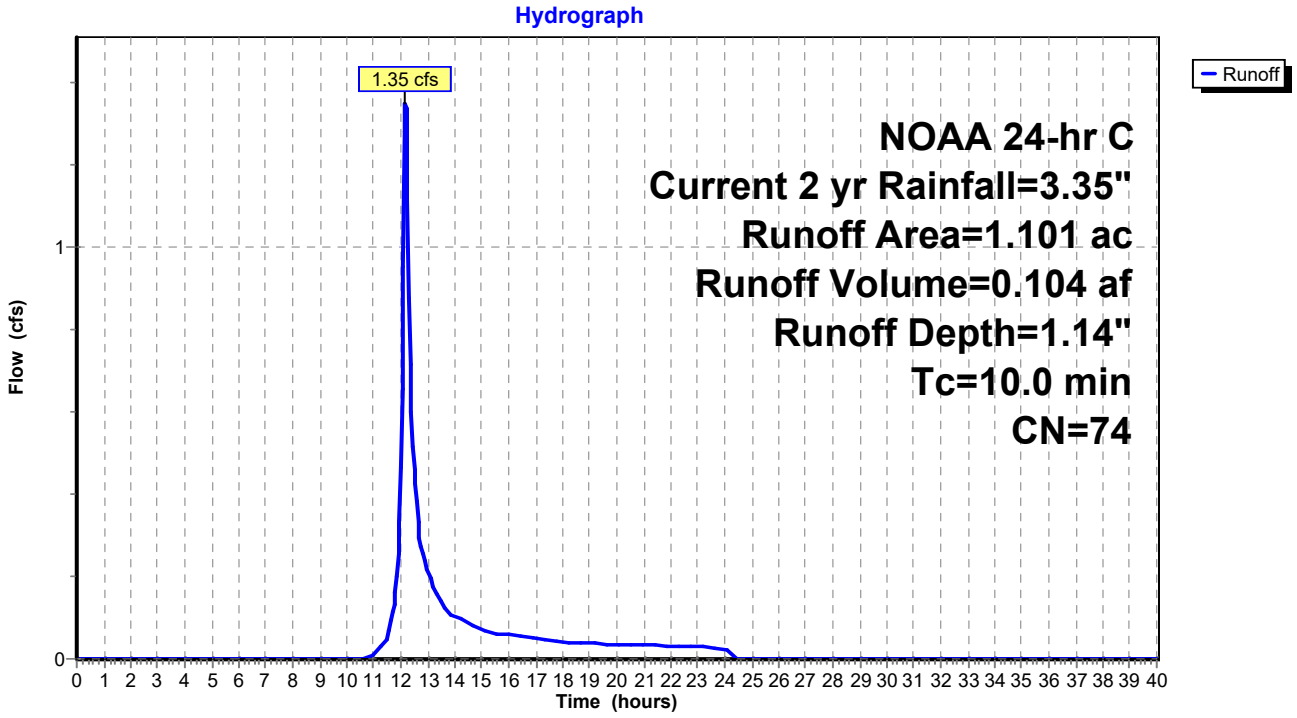
Runoff = 1.35 cfs @ 12.18 hrs, Volume= 0.104 af, Depth= 1.14"
Routed to Pond B-39 : Basin #39

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
1.101	74	>75% Grass cover, Good, HSG C
1.101		100.00% Pervious Area

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

Subcatchment 39P: PDA-39 (pervious)



Summary for Subcatchment 40l: PDA-40 (impervious)

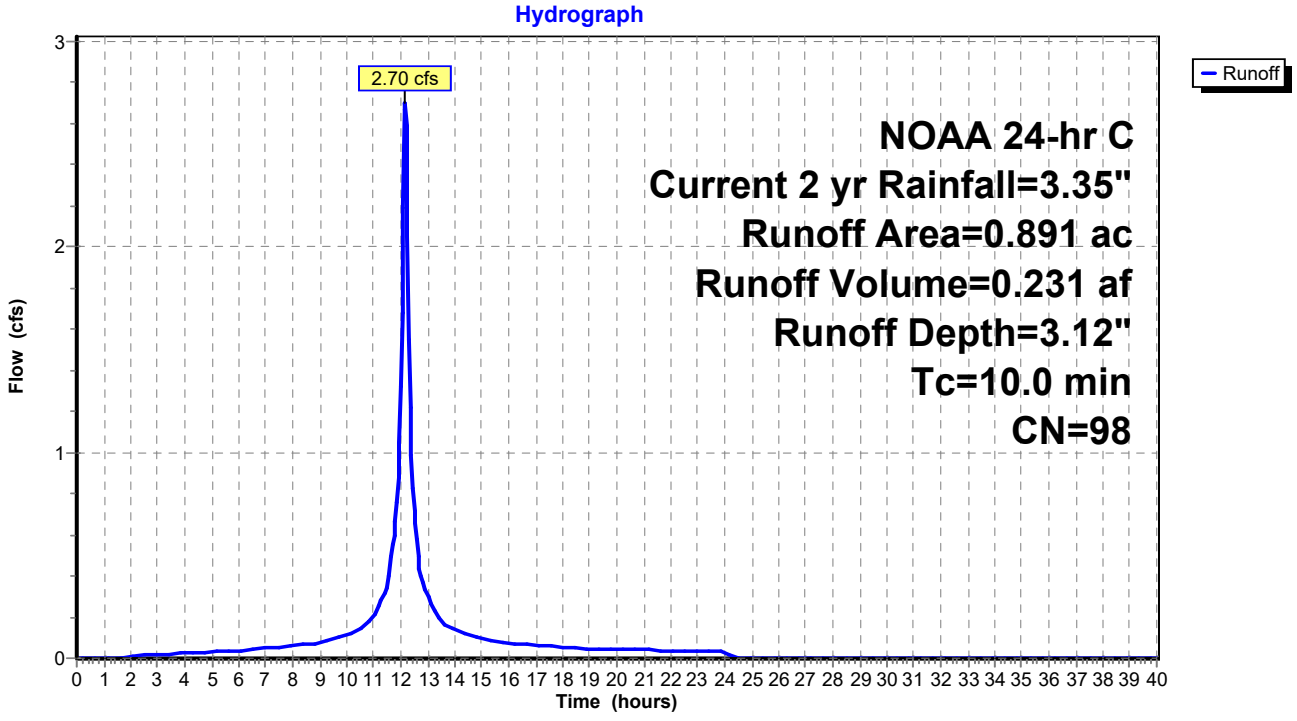
Runoff = 2.70 cfs @ 12.17 hrs, Volume= 0.231 af, Depth= 3.12"
Routed to Pond B-40 : Basin #40

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
*	0.568	98	Roof, HSG C
*	0.179	98	Concrete, HSC C
	0.144	98	Paved roads w/curbs & sewers, HSG C
	0.891	98	Weighted Average
	0.891		100.00% Impervious Area

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

Subcatchment 40l: PDA-40 (impervious)



Summary for Subcatchment 40P: PDA-40 (pervious)

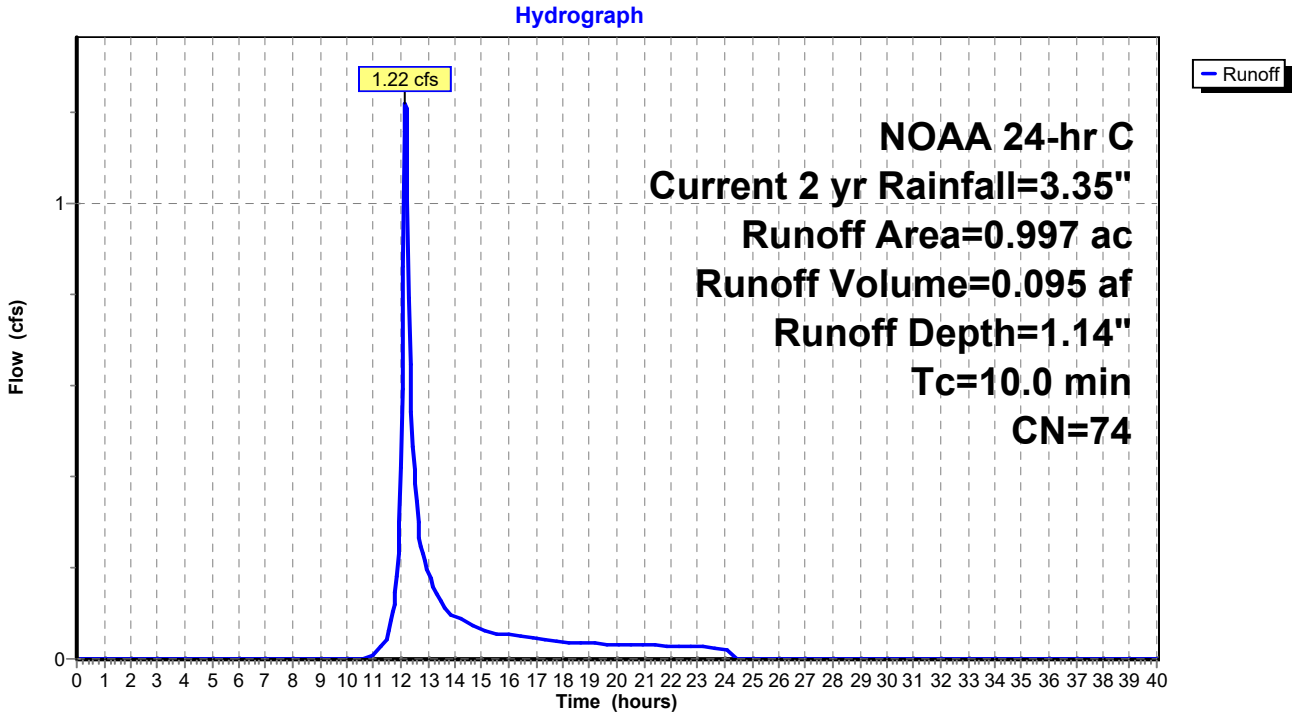
Runoff = 1.22 cfs @ 12.18 hrs, Volume= 0.095 af, Depth= 1.14"
Routed to Pond B-40 : Basin #40

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
0.997	74	>75% Grass cover, Good, HSG C
0.997		100.00% Pervious Area

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

Subcatchment 40P: PDA-40 (pervious)



Summary for Subcatchment UPDA-3: PDA-3 (undetained)

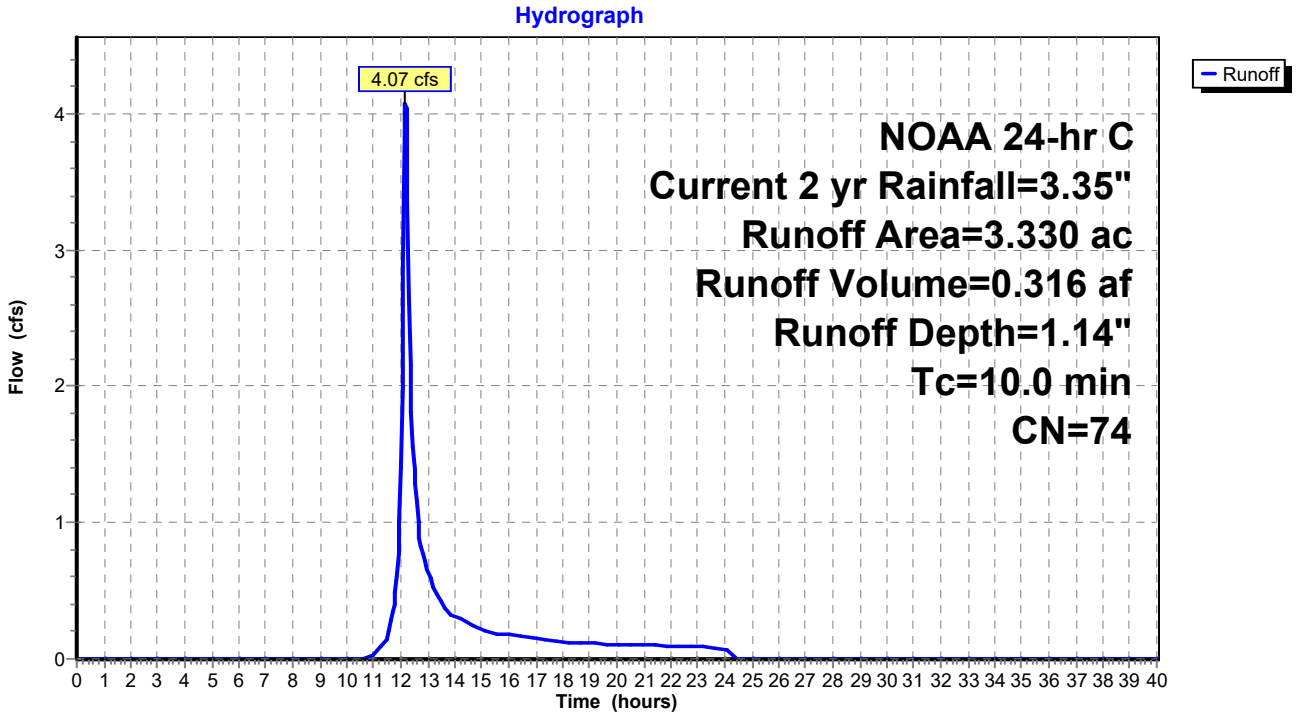
Runoff = 4.07 cfs @ 12.18 hrs, Volume= 0.316 af, Depth= 1.14"
Routed to Link PDA-3 : Proposed Drainage Area #3

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 Current 2 yr Rainfall=3.35"

Area (ac)	CN	Description
3.330	74	>75% Grass cover, Good, HSG C
3.330		100.00% Pervious Area

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

Subcatchment UPDA-3: PDA-3 (undetained)



Summary for Pond B-29: Basin #29

Inflow Area = 1.077 ac, 34.91% Impervious, Inflow Depth = 1.83" for Current 2 yr event
Inflow = 1.99 cfs @ 12.18 hrs, Volume= 0.164 af
Outflow = 0.71 cfs @ 12.44 hrs, Volume= 0.122 af, Atten= 64%, Lag= 15.7 min
Primary = 0.71 cfs @ 12.44 hrs, Volume= 0.122 af
Routed to Pond B-30 : Basin #30

Routing by Stor-Ind method, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
Peak Elev= 187.14' @ 12.44 hrs Surf.Area= 6,872 sf Storage= 3,294 cf

Plug-Flow detention time= 287.3 min calculated for 0.121 af (74% of inflow)
Center-of-Mass det. time= 191.2 min (994.5 - 803.3)

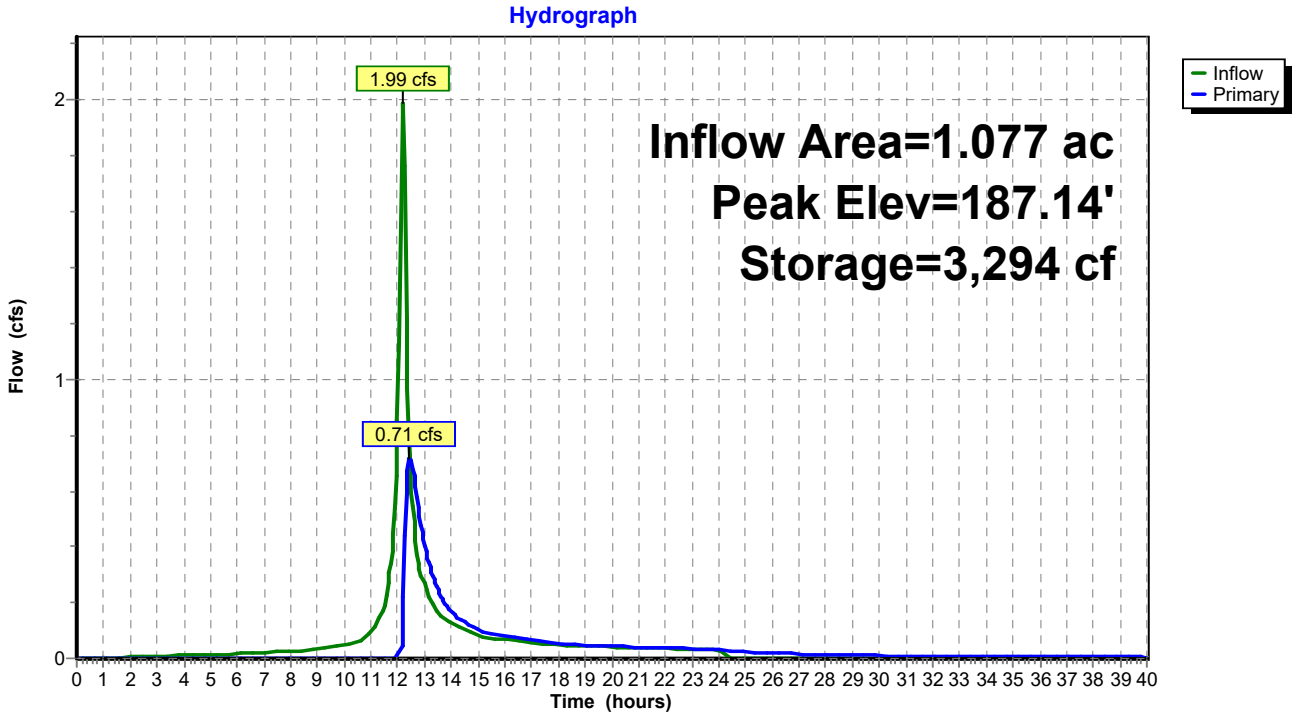
Volume	Invert	Avail.Storage	Storage Description
#1	186.30'	17,435 cf	**Custom Stage Data (Prismatic)** Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
186.30	0	0	0
187.00	6,769	2,369	2,369
188.00	7,526	7,148	9,517
189.00	8,311	7,919	17,435

Device	Routing	Invert	Outlet Devices
#1	Primary	185.65'	**18.0" Round Culvert** L= 177.0' Ke= 0.500 Inlet / Outlet Invert= 185.65' / 182.00' S= 0.0206 '/' Cc= 0.900 n= 0.013, Flow Area= 1.77 sf
#2	Device 1	186.88'	**2.5" Vert. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#3	Device 1	187.00'	**4.0' long Sharp-Crested Rectangular Weir** 2 End Contraction(s)
#4	Primary	188.17'	**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=0.71 cfs @ 12.44 hrs HW=187.14' (Free Discharge)
- **1=Culvert** (Passes 0.71 cfs of 7.32 cfs potential flow)
  - **2=Orifice/Grate** (Orifice Controls 0.06 cfs @ 1.87 fps)
  - **3=Sharp-Crested Rectangular Weir** (Weir Controls 0.65 cfs @ 1.20 fps)
- **4=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)

Pond B-29: Basin #29



Stage-Discharge for Pond B-29: Basin #29

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
186.30	0.00	186.82	0.00	187.34	2.65	187.86	10.14
186.31	0.00	186.83	0.00	187.35	2.76	187.87	10.31
186.32	0.00	186.84	0.00	187.36	2.88	187.88	10.35
186.33	0.00	186.85	0.00	187.37	2.99	187.89	10.39
186.34	0.00	186.86	0.00	187.38	3.11	187.90	10.42
186.35	0.00	186.87	0.00	187.39	3.23	187.91	10.46
186.36	0.00	186.88	0.00	187.40	3.35	187.92	10.49
186.37	0.00	186.89	0.00	187.41	3.47	187.93	10.52
186.38	0.00	186.90	0.00	187.42	3.59	187.94	10.56
186.39	0.00	186.91	0.00	187.43	3.72	187.95	10.59
186.40	0.00	186.92	0.00	187.44	3.84	187.96	10.63
186.41	0.00	186.93	0.00	187.45	3.97	187.97	10.66
186.42	0.00	186.94	0.01	187.46	4.10	187.98	10.70
186.43	0.00	186.95	0.01	187.47	4.23	187.99	10.73
186.44	0.00	186.96	0.01	187.48	4.36	188.00	10.76
186.45	0.00	186.97	0.01	187.49	4.49	188.01	10.80
186.46	0.00	186.98	0.02	187.50	4.63	188.02	10.83
186.47	0.00	186.99	0.02	187.51	4.76	188.03	10.86
186.48	0.00	187.00	0.02	187.52	4.90	188.04	10.90
186.49	0.00	187.01	0.04	187.53	5.03	188.05	10.93
186.50	0.00	187.02	0.07	187.54	5.17	188.06	10.96
186.51	0.00	187.03	0.10	187.55	5.31	188.07	11.00
186.52	0.00	187.04	0.14	187.56	5.45	188.08	11.03
186.53	0.00	187.05	0.19	187.57	5.59	188.09	11.06
186.54	0.00	187.06	0.24	187.58	5.74	188.10	11.09
186.55	0.00	187.07	0.29	187.59	5.88	188.11	11.13
186.56	0.00	187.08	0.35	187.60	6.03	188.12	11.16
186.57	0.00	187.09	0.40	187.61	6.17	188.13	11.19
186.58	0.00	187.10	0.47	187.62	6.32	188.14	11.22
186.59	0.00	187.11	0.53	187.63	6.47	188.15	11.26
186.60	0.00	187.12	0.60	187.64	6.62	188.16	11.29
186.61	0.00	187.13	0.67	187.65	6.77	188.17	11.32
186.62	0.00	187.14	0.75	187.66	6.92	188.18	11.47
186.63	0.00	187.15	0.82	187.67	7.07	188.19	11.72
186.64	0.00	187.16	0.90	187.68	7.22	188.20	12.02
186.65	0.00	187.17	0.98	187.69	7.38	188.21	12.39
186.66	0.00	187.18	1.06	187.70	7.53	188.22	12.79
186.67	0.00	187.19	1.15	187.71	7.69	188.23	13.23
186.68	0.00	187.20	1.23	187.72	7.84	188.24	13.72
186.69	0.00	187.21	1.32	187.73	8.00	188.25	14.23
186.70	0.00	187.22	1.41	187.74	8.16	188.26	14.78
186.71	0.00	187.23	1.51	187.75	8.32	188.27	15.35
186.72	0.00	187.24	1.60	187.76	8.48	188.28	15.96
186.73	0.00	187.25	1.70	187.77	8.64	188.29	16.59
186.74	0.00	187.26	1.80	187.78	8.81	188.30	17.25
186.75	0.00	187.27	1.90	187.79	8.97	188.31	17.93
186.76	0.00	187.28	2.00	187.80	9.13	188.32	18.64
186.77	0.00	187.29	2.10	187.81	9.30	188.33	19.37
186.78	0.00	187.30	2.21	187.82	9.46	188.34	20.12
186.79	0.00	187.31	2.32	187.83	9.63	188.35	20.89
186.80	0.00	187.32	2.42	187.84	9.80	188.36	21.69
186.81	0.00	187.33	2.54	187.85	9.97	188.37	22.51

Stage-Discharge for Pond B-29: Basin #29 (continued)

Elevation (feet)	Primary (cfs)
188.38	23.38
188.39	24.29
188.40	25.22
188.41	26.17
188.42	27.15
188.43	28.15
188.44	29.18
188.45	30.23
188.46	31.31
188.47	32.41
188.48	33.54
188.49	34.69
188.50	35.86
188.51	37.06
188.52	38.29
188.53	39.53
188.54	40.80
188.55	42.10
188.56	43.42
188.57	44.76
188.58	46.16
188.59	47.58
188.60	49.03
188.61	50.50
188.62	52.00
188.63	53.52
188.64	55.07
188.65	56.65
188.66	58.25
188.67	59.88
188.68	61.54
188.69	63.22
188.70	64.93
188.71	66.67
188.72	68.43
188.73	70.22
188.74	72.04
188.75	73.88
188.76	75.75
188.77	77.65
188.78	79.30
188.79	80.97
188.80	82.65
188.81	84.35
188.82	86.06
188.83	87.78
188.84	89.51
188.85	91.26
188.86	93.02
188.87	94.79
188.88	96.58
188.89	98.37
188.90	100.19
188.91	102.01
188.92	103.84
188.93	105.69
188.94	107.55
188.95	109.42
188.96	111.31
188.97	113.21
188.98	115.15
188.99	117.11
189.00	**119.08**

Stage-Area-Storage for Pond B-29: Basin #29

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
186.30	0	0
186.31	97	0
186.32	193	2
186.33	290	4
186.34	387	8
186.35	484	12
186.36	580	17
186.37	677	24
186.38	774	31
186.39	870	39
186.40	967	48
186.41	1,064	59
186.42	1,160	70
186.43	1,257	82
186.44	1,354	95
186.45	1,451	109
186.46	1,547	124
186.47	1,644	140
186.48	1,741	157
186.49	1,837	175
186.50	1,934	193
186.51	2,031	213
186.52	2,127	234
186.53	2,224	256
186.54	2,321	278
186.55	2,418	302
186.56	2,514	327
186.57	2,611	352
186.58	2,708	379
186.59	2,804	407
186.60	2,901	435
186.61	2,998	465
186.62	3,094	495
186.63	3,191	527
186.64	3,288	559
186.65	3,385	592
186.66	3,481	627
186.67	3,578	662
186.68	3,675	698
186.69	3,771	735
186.70	3,868	774
186.71	3,965	813
186.72	4,061	853
186.73	4,158	894
186.74	4,255	936
186.75	4,351	979
186.76	4,448	1,023
186.77	4,545	1,068
186.78	4,642	1,114
186.79	4,738	1,161
186.80	4,835	1,209
186.81	4,932	1,258
186.82	5,028	1,307
186.83	5,125	1,358
186.84	5,222	1,410
186.85	5,319	1,463
186.86	5,415	1,516
186.87	5,512	1,571
186.88	5,609	1,626
186.89	5,705	1,683
186.90	5,802	1,741
186.91	5,899	1,799
186.92	5,995	1,859
186.93	6,092	1,919
186.94	6,189	1,980
186.95	6,286	2,043
186.96	6,382	2,106
186.97	6,479	2,170
186.98	6,576	2,236
186.99	6,672	2,302
187.00	6,769	2,369
187.01	6,777	2,437
187.02	6,784	2,505
187.03	6,792	2,573
187.04	6,799	2,641
187.05	6,807	2,709
187.06	6,814	2,777
187.07	6,822	2,845
187.08	6,830	2,913
187.09	6,837	2,981
187.10	6,845	3,050
187.11	6,852	3,118
187.12	6,860	3,187
187.13	6,867	3,256
187.14	6,875	3,324
187.15	6,883	3,393
187.16	6,890	3,462
187.17	6,898	3,531
187.18	6,905	3,600
187.19	6,913	3,669
187.20	6,920	3,738
187.21	6,928	3,807
187.22	6,936	3,877
187.23	6,943	3,946
187.24	6,951	4,016
187.25	6,958	4,085
187.26	6,966	4,155
187.27	6,973	4,224
187.28	6,981	4,294
187.29	6,989	4,364
187.30	6,996	4,434
187.31	7,004	4,504
187.32	7,011	4,574
187.33	7,019	4,644

Stage-Area-Storage for Pond B-29: Basin #29 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
187.34	7,026	4,714	187.86	7,420	8,470
187.35	7,034	4,785	187.87	7,428	8,545
187.36	7,042	4,855	187.88	7,435	8,619
187.37	7,049	4,925	187.89	7,443	8,693
187.38	7,057	4,996	187.90	7,450	8,768
187.39	7,064	5,067	187.91	7,458	8,842
187.40	7,072	5,137	187.92	7,465	8,917
187.41	7,079	5,208	187.93	7,473	8,992
187.42	7,087	5,279	187.94	7,481	9,066
187.43	7,095	5,350	187.95	7,488	9,141
187.44	7,102	5,421	187.96	7,496	9,216
187.45	7,110	5,492	187.97	7,503	9,291
187.46	7,117	5,563	187.98	7,511	9,366
187.47	7,125	5,634	187.99	7,518	9,441
187.48	7,132	5,705	188.00	7,526	9,517
187.49	7,140	5,777	188.01	7,534	9,592
187.50	7,148	5,848	188.02	7,542	9,667
187.51	7,155	5,920	188.03	7,550	9,743
187.52	7,163	5,991	188.04	7,557	9,818
187.53	7,170	6,063	188.05	7,565	9,894
187.54	7,178	6,135	188.06	7,573	9,970
187.55	7,185	6,207	188.07	7,581	10,045
187.56	7,193	6,278	188.08	7,589	10,121
187.57	7,200	6,350	188.09	7,597	10,197
187.58	7,208	6,422	188.10	7,605	10,273
187.59	7,216	6,495	188.11	7,612	10,349
187.60	7,223	6,567	188.12	7,620	10,425
187.61	7,231	6,639	188.13	7,628	10,502
187.62	7,238	6,711	188.14	7,636	10,578
187.63	7,246	6,784	188.15	7,644	10,654
187.64	7,253	6,856	188.16	7,652	10,731
187.65	7,261	6,929	188.17	7,659	10,807
187.66	7,269	7,002	188.18	7,667	10,884
187.67	7,276	7,074	188.19	7,675	10,961
187.68	7,284	7,147	188.20	7,683	11,038
187.69	7,291	7,220	188.21	7,691	11,114
187.70	7,299	7,293	188.22	7,699	11,191
187.71	7,306	7,366	188.23	7,707	11,268
187.72	7,314	7,439	188.24	7,714	11,345
187.73	7,322	7,512	188.25	7,722	11,423
187.74	7,329	7,585	188.26	7,730	11,500
187.75	7,337	7,659	188.27	7,738	11,577
187.76	7,344	7,732	188.28	7,746	11,655
187.77	7,352	7,806	188.29	7,754	11,732
187.78	7,359	7,879	188.30	7,762	11,810
187.79	7,367	7,953	188.31	7,769	11,887
187.80	7,375	8,027	188.32	7,777	11,965
187.81	7,382	8,100	188.33	7,785	12,043
187.82	7,390	8,174	188.34	7,793	12,121
187.83	7,397	8,248	188.35	7,801	12,199
187.84	7,405	8,322	188.36	7,809	12,277
187.85	7,412	8,396	188.37	7,816	12,355

Stage-Area-Storage for Pond B-29: Basin #29 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
188.38	7,824	12,433
188.39	7,832	12,511
188.40	7,840	12,590
188.41	7,848	12,668
188.42	7,856	12,747
188.43	7,864	12,825
188.44	7,871	12,904
188.45	7,879	12,983
188.46	7,887	13,062
188.47	7,895	13,141
188.48	7,903	13,220
188.49	7,911	13,299
188.50	7,919	13,378
188.51	7,926	13,457
188.52	7,934	13,536
188.53	7,942	13,616
188.54	7,950	13,695
188.55	7,958	13,775
188.56	7,966	13,854
188.57	7,973	13,934
188.58	7,981	14,014
188.59	7,989	14,094
188.60	7,997	14,174
188.61	8,005	14,254
188.62	8,013	14,334
188.63	8,021	14,414
188.64	8,028	14,494
188.65	8,036	14,574
188.66	8,044	14,655
188.67	8,052	14,735
188.68	8,060	14,816
188.69	8,068	14,896
188.70	8,076	14,977
188.71	8,083	15,058
188.72	8,091	15,139
188.73	8,099	15,220
188.74	8,107	15,301
188.75	8,115	15,382
188.76	8,123	15,463
188.77	8,130	15,544
188.78	8,138	15,626
188.79	8,146	15,707
188.80	8,154	15,789
188.81	8,162	15,870
188.82	8,170	15,952
188.83	8,178	16,034
188.84	8,185	16,115
188.85	8,193	16,197
188.86	8,201	16,279
188.87	8,209	16,361
188.88	8,217	16,443
188.89	8,225	16,526
188.90	8,233	16,608
188.91	8,240	16,690
188.92	8,248	16,773
188.93	8,256	16,855
188.94	8,264	16,938
188.95	8,272	17,021
188.96	8,280	17,103
188.97	8,287	17,186
188.98	8,295	17,269
188.99	8,303	17,352
189.00	**8,311**	**17,435**

Summary for Pond B-30: Basin #30

Inflow Area = 5.727 ac, 37.05% Impervious, Inflow Depth > 1.67" for Current 2 yr event
Inflow = 5.78 cfs @ 12.21 hrs, Volume= 0.796 af
Outflow = 0.22 cfs @ 24.04 hrs, Volume= 0.454 af, Atten= 96%, Lag= 709.8 min
Primary = 0.22 cfs @ 24.04 hrs, Volume= 0.454 af
Routed to Link PDA-3 : Proposed Drainage Area #3

Routing by Stor-Ind method, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
Peak Elev= 177.81' @ 24.04 hrs Surf.Area= 13,046 sf Storage= 24,648 cf

Plug-Flow detention time= 814.5 min calculated for 0.454 af (57% of inflow)
Center-of-Mass det. time= 639.7 min (1,551.2 - 911.5)

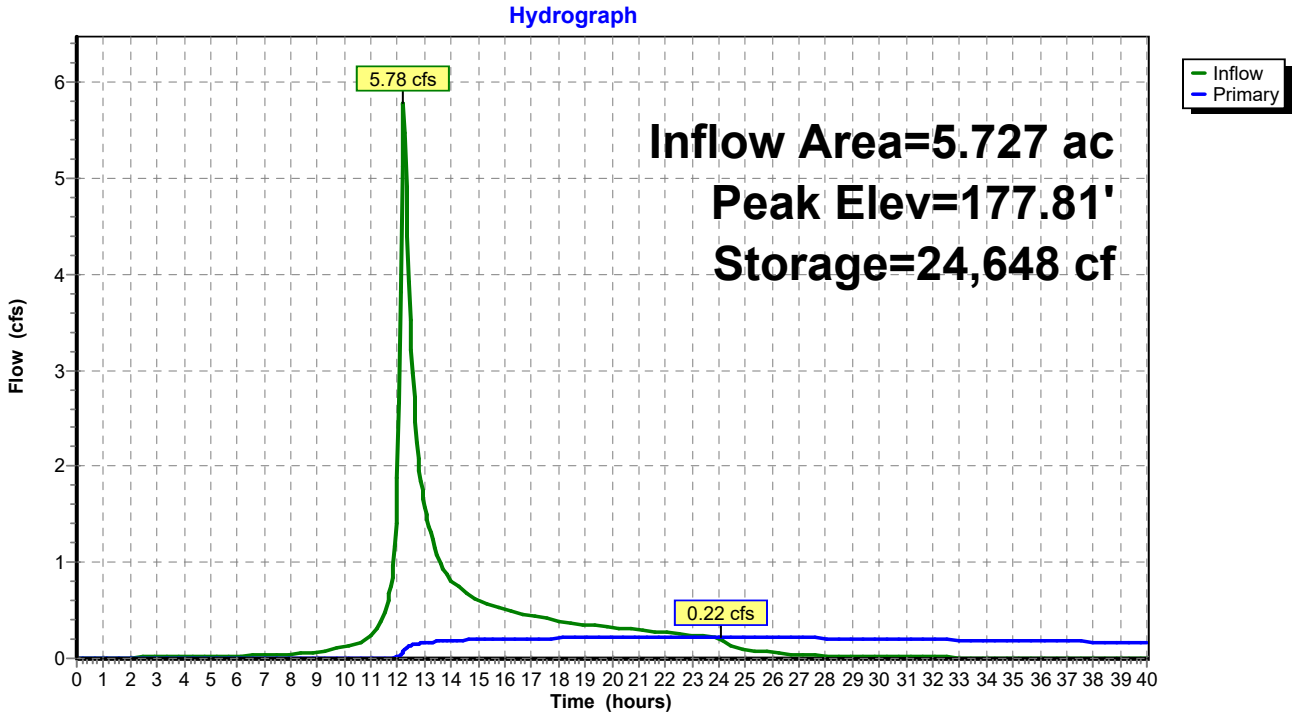
Volume	Invert	Avail.Storage	Storage Description
#1	175.30'	57,146 cf	**Custom Stage Data (Prismatic)** Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
175.30	0	0	0
176.00	10,254	3,589	3,589
177.00	11,773	11,014	14,602
178.00	13,346	12,560	27,162
179.00	14,978	14,162	41,324
180.00	16,667	15,823	57,146

Device	Routing	Invert	Outlet Devices
#1	Primary	174.65'	**18.0" Round Culvert** L= 86.0' Ke= 0.500 Inlet / Outlet Invert= 174.65' / 174.00' S= 0.0076 '/' Cc= 0.900 n= 0.013, Flow Area= 1.77 sf
#2	Device 1	175.93'	**2.5" Vert. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#3	Device 1	178.00'	**4.0' long Sharp-Crested Rectangular Weir** 2 End Contraction(s)
#4	Primary	179.50'	**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=0.22 cfs @ 24.04 hrs HW=177.81' (Free Discharge)
- **1=Culvert** (Passes 0.22 cfs of 12.29 cfs potential flow)
  - **2=Orifice/Grate** (Orifice Controls 0.22 cfs @ 6.42 fps)
  - **3=Sharp-Crested Rectangular Weir** (Controls 0.00 cfs)
- **4=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)

Pond B-30: Basin #30



Stage-Discharge for Pond B-30: Basin #30

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
175.30	0.00	175.82	0.00	176.34	0.09	176.86	0.15
175.31	0.00	175.83	0.00	176.35	0.09	176.87	0.15
175.32	0.00	175.84	0.00	176.36	0.09	176.88	0.15
175.33	0.00	175.85	0.00	176.37	0.10	176.89	0.15
175.34	0.00	175.86	0.00	176.38	0.10	176.90	0.15
175.35	0.00	175.87	0.00	176.39	0.10	176.91	0.15
175.36	0.00	175.88	0.00	176.40	0.10	176.92	0.15
175.37	0.00	175.89	0.00	176.41	0.10	176.93	0.16
175.38	0.00	175.90	0.00	176.42	0.10	176.94	0.16
175.39	0.00	175.91	0.00	176.43	0.10	176.95	0.16
175.40	0.00	175.92	0.00	176.44	0.10	176.96	0.16
175.41	0.00	175.93	0.00	176.45	0.11	176.97	0.16
175.42	0.00	175.94	0.00	176.46	0.11	176.98	0.16
175.43	0.00	175.95	0.00	176.47	0.11	176.99	0.16
175.44	0.00	175.96	0.00	176.48	0.11	177.00	0.16
175.45	0.00	175.97	0.00	176.49	0.11	177.01	0.16
175.46	0.00	175.98	0.00	176.50	0.11	177.02	0.16
175.47	0.00	175.99	0.01	176.51	0.11	177.03	0.16
175.48	0.00	176.00	0.01	176.52	0.11	177.04	0.16
175.49	0.00	176.01	0.01	176.53	0.12	177.05	0.17
175.50	0.00	176.02	0.01	176.54	0.12	177.06	0.17
175.51	0.00	176.03	0.02	176.55	0.12	177.07	0.17
175.52	0.00	176.04	0.02	176.56	0.12	177.08	0.17
175.53	0.00	176.05	0.02	176.57	0.12	177.09	0.17
175.54	0.00	176.06	0.03	176.58	0.12	177.10	0.17
175.55	0.00	176.07	0.03	176.59	0.12	177.11	0.17
175.56	0.00	176.08	0.03	176.60	0.12	177.12	0.17
175.57	0.00	176.09	0.04	176.61	0.12	177.13	0.17
175.58	0.00	176.10	0.04	176.62	0.13	177.14	0.17
175.59	0.00	176.11	0.05	176.63	0.13	177.15	0.17
175.60	0.00	176.12	0.05	176.64	0.13	177.16	0.17
175.61	0.00	176.13	0.05	176.65	0.13	177.17	0.17
175.62	0.00	176.14	0.05	176.66	0.13	177.18	0.18
175.63	0.00	176.15	0.06	176.67	0.13	177.19	0.18
175.64	0.00	176.16	0.06	176.68	0.13	177.20	0.18
175.65	0.00	176.17	0.06	176.69	0.13	177.21	0.18
175.66	0.00	176.18	0.06	176.70	0.13	177.22	0.18
175.67	0.00	176.19	0.06	176.71	0.13	177.23	0.18
175.68	0.00	176.20	0.07	176.72	0.14	177.24	0.18
175.69	0.00	176.21	0.07	176.73	0.14	177.25	0.18
175.70	0.00	176.22	0.07	176.74	0.14	177.26	0.18
175.71	0.00	176.23	0.07	176.75	0.14	177.27	0.18
175.72	0.00	176.24	0.07	176.76	0.14	177.28	0.18
175.73	0.00	176.25	0.08	176.77	0.14	177.29	0.18
175.74	0.00	176.26	0.08	176.78	0.14	177.30	0.18
175.75	0.00	176.27	0.08	176.79	0.14	177.31	0.19
175.76	0.00	176.28	0.08	176.80	0.14	177.32	0.19
175.77	0.00	176.29	0.08	176.81	0.14	177.33	0.19
175.78	0.00	176.30	0.08	176.82	0.15	177.34	0.19
175.79	0.00	176.31	0.09	176.83	0.15	177.35	0.19
175.80	0.00	176.32	0.09	176.84	0.15	177.36	0.19
175.81	0.00	176.33	0.09	176.85	0.15	177.37	0.19

Stage-Discharge for Pond B-30: Basin #30 (continued)

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
177.38	0.19	177.90	0.22	178.42	3.74	178.94	11.64
177.39	0.19	177.91	0.22	178.43	3.86	178.95	11.82
177.40	0.19	177.92	0.23	178.44	3.99	178.96	11.99
177.41	0.19	177.93	0.23	178.45	4.11	178.97	12.17
177.42	0.19	177.94	0.23	178.46	4.24	178.98	12.35
177.43	0.19	177.95	0.23	178.47	4.37	178.99	12.53
177.44	0.19	177.96	0.23	178.48	4.50	179.00	12.71
177.45	0.20	177.97	0.23	178.49	4.63	179.01	12.89
177.46	0.20	177.98	0.23	178.50	4.77	179.02	13.07
177.47	0.20	177.99	0.23	178.51	4.90	179.03	13.25
177.48	0.20	178.00	0.23	178.52	5.04	179.04	13.44
177.49	0.20	178.01	0.24	178.53	5.17	179.05	13.62
177.50	0.20	178.02	0.27	178.54	5.31	179.06	13.80
177.51	0.20	178.03	0.30	178.55	5.45	179.07	13.99
177.52	0.20	178.04	0.34	178.56	5.59	179.08	14.17
177.53	0.20	178.05	0.38	178.57	5.73	179.09	14.36
177.54	0.20	178.06	0.43	178.58	5.87	179.10	14.55
177.55	0.20	178.07	0.48	178.59	6.02	179.11	14.74
177.56	0.20	178.08	0.53	178.60	6.16	179.12	14.92
177.57	0.20	178.09	0.59	178.61	6.31	179.13	15.11
177.58	0.20	178.10	0.65	178.62	6.45	179.14	15.30
177.59	0.20	178.11	0.71	178.63	6.60	179.15	15.46
177.60	0.21	178.12	0.78	178.64	6.75	179.16	15.48
177.61	0.21	178.13	0.85	178.65	6.90	179.17	15.50
177.62	0.21	178.14	0.92	178.66	7.05	179.18	15.52
177.63	0.21	178.15	0.99	178.67	7.20	179.19	15.54
177.64	0.21	178.16	1.07	178.68	7.35	179.20	15.56
177.65	0.21	178.17	1.15	178.69	7.51	179.21	15.58
177.66	0.21	178.18	1.23	178.70	7.66	179.22	15.60
177.67	0.21	178.19	1.31	178.71	7.82	179.23	15.62
177.68	0.21	178.20	1.40	178.72	7.97	179.24	15.65
177.69	0.21	178.21	1.49	178.73	8.13	179.25	15.67
177.70	0.21	178.22	1.58	178.74	8.29	179.26	15.69
177.71	0.21	178.23	1.67	178.75	8.45	179.27	15.71
177.72	0.21	178.24	1.76	178.76	8.61	179.28	15.73
177.73	0.21	178.25	1.86	178.77	8.77	179.29	15.75
177.74	0.21	178.26	1.96	178.78	8.93	179.30	15.77
177.75	0.22	178.27	2.06	178.79	9.09	179.31	15.79
177.76	0.22	178.28	2.16	178.80	9.26	179.32	15.81
177.77	0.22	178.29	2.26	178.81	9.42	179.33	15.83
177.78	0.22	178.30	2.36	178.82	9.59	179.34	15.85
177.79	0.22	178.31	2.47	178.83	9.75	179.35	15.87
177.80	0.22	178.32	2.58	178.84	9.92	179.36	15.89
177.81	0.22	178.33	2.69	178.85	10.09	179.37	15.91
177.82	0.22	178.34	2.80	178.86	10.26	179.38	15.94
177.83	0.22	178.35	2.91	178.87	10.43	179.39	15.96
177.84	0.22	178.36	3.02	178.88	10.60	179.40	15.98
177.85	0.22	178.37	3.14	178.89	10.77	179.41	16.00
177.86	0.22	178.38	3.26	178.90	10.94	179.42	16.02
177.87	0.22	178.39	3.38	178.91	11.12	179.43	16.04
177.88	0.22	178.40	3.50	178.92	11.29	179.44	16.06
177.89	0.22	178.41	3.62	178.93	11.46	179.45	16.08

Stage-Discharge for Pond B-30: Basin #30 (continued)

Elevation (feet)	Primary (cfs)
179.46	16.10
179.47	16.12
179.48	16.14
179.49	16.16
179.50	16.18
179.51	16.32
179.52	16.55
179.53	16.85
179.54	17.20
179.55	17.59
179.56	18.03
179.57	18.50
179.58	19.00
179.59	19.53
179.60	20.10
179.61	20.69
179.62	21.31
179.63	21.96
179.64	22.63
179.65	23.33
179.66	24.05
179.67	24.79
179.68	25.55
179.69	26.34
179.70	27.14
179.71	28.01
179.72	28.90
179.73	29.82
179.74	30.76
179.75	31.73
179.76	32.72
179.77	33.74
179.78	34.79
179.79	35.85
179.80	36.94
179.81	38.06
179.82	39.20
179.83	40.37
179.84	41.56
179.85	42.77
179.86	44.01
179.87	45.27
179.88	46.56
179.89	47.87
179.90	49.20
179.91	50.58
179.92	52.00
179.93	53.43
179.94	54.90
179.95	56.39
179.96	57.90
179.97	59.44
179.98	61.01
179.99	62.61
180.00	**64.23**

Stage-Area-Storage for Pond B-30: Basin #30

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
175.30	0	0	175.82	7,617	1,980
175.31	146	1	175.83	7,764	2,057
175.32	293	3	175.84	7,910	2,136
175.33	439	7	175.85	8,057	2,216
175.34	586	12	175.86	8,203	2,297
175.35	732	18	175.87	8,350	2,380
175.36	879	26	175.88	8,496	2,464
175.37	1,025	36	175.89	8,643	2,550
175.38	1,172	47	175.90	8,789	2,637
175.39	1,318	59	175.91	8,936	2,725
175.40	1,465	73	175.92	9,082	2,815
175.41	1,611	89	175.93	9,229	2,907
175.42	1,758	105	175.94	9,375	3,000
175.43	1,904	124	175.95	9,522	3,095
175.44	2,051	144	175.96	9,668	3,190
175.45	2,197	165	175.97	9,815	3,288
175.46	2,344	188	175.98	9,961	3,387
175.47	2,490	212	175.99	10,108	3,487
175.48	2,637	237	176.00	10,254	3,589
175.49	2,783	264	176.01	10,269	3,692
175.50	2,930	293	176.02	10,284	3,794
175.51	3,076	323	176.03	10,300	3,897
175.52	3,223	354	176.04	10,315	4,000
175.53	3,369	387	176.05	10,330	4,103
175.54	3,516	422	176.06	10,345	4,207
175.55	3,662	458	176.07	10,360	4,310
175.56	3,809	495	176.08	10,376	4,414
175.57	3,955	534	176.09	10,391	4,518
175.58	4,102	574	176.10	10,406	4,622
175.59	4,248	616	176.11	10,421	4,726
175.60	4,395	659	176.12	10,436	4,830
175.61	4,541	704	176.13	10,451	4,935
175.62	4,688	750	176.14	10,467	5,039
175.63	4,834	798	176.15	10,482	5,144
175.64	4,981	847	176.16	10,497	5,249
175.65	5,127	897	176.17	10,512	5,354
175.66	5,273	949	176.18	10,527	5,459
175.67	5,420	1,003	176.19	10,543	5,565
175.68	5,566	1,058	176.20	10,558	5,670
175.69	5,713	1,114	176.21	10,573	5,776
175.70	5,859	1,172	176.22	10,588	5,882
175.71	6,006	1,231	176.23	10,603	5,987
175.72	6,152	1,292	176.24	10,619	6,094
175.73	6,299	1,354	176.25	10,634	6,200
175.74	6,445	1,418	176.26	10,649	6,306
175.75	6,592	1,483	176.27	10,664	6,413
175.76	6,738	1,550	176.28	10,679	6,520
175.77	6,885	1,618	176.29	10,695	6,626
175.78	7,031	1,688	176.30	10,710	6,733
175.79	7,178	1,759	176.31	10,725	6,841
175.80	7,324	1,831	176.32	10,740	6,948
175.81	7,471	1,905	176.33	10,755	7,055

Stage-Area-Storage for Pond B-30: Basin #30 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
176.34	10,770	7,163	176.86	11,560	12,969
176.35	10,786	7,271	176.87	11,576	13,085
176.36	10,801	7,379	176.88	11,591	13,201
176.37	10,816	7,487	176.89	11,606	13,317
176.38	10,831	7,595	176.90	11,621	13,433
176.39	10,846	7,703	176.91	11,636	13,549
176.40	10,862	7,812	176.92	11,651	13,665
176.41	10,877	7,921	176.93	11,667	13,782
176.42	10,892	8,030	176.94	11,682	13,899
176.43	10,907	8,139	176.95	11,697	14,016
176.44	10,922	8,248	176.96	11,712	14,133
176.45	10,938	8,357	176.97	11,727	14,250
176.46	10,953	8,466	176.98	11,743	14,367
176.47	10,968	8,576	176.99	11,758	14,485
176.48	10,983	8,686	177.00	11,773	14,602
176.49	10,998	8,796	177.01	11,789	14,720
176.50	11,014	8,906	177.02	11,804	14,838
176.51	11,029	9,016	177.03	11,820	14,956
176.52	11,044	9,126	177.04	11,836	15,075
176.53	11,059	9,237	177.05	11,852	15,193
176.54	11,074	9,348	177.06	11,867	15,312
176.55	11,089	9,458	177.07	11,883	15,430
176.56	11,105	9,569	177.08	11,899	15,549
176.57	11,120	9,680	177.09	11,915	15,668
176.58	11,135	9,792	177.10	11,930	15,788
176.59	11,150	9,903	177.11	11,946	15,907
176.60	11,165	10,015	177.12	11,962	16,026
176.61	11,181	10,126	177.13	11,977	16,146
176.62	11,196	10,238	177.14	11,993	16,266
176.63	11,211	10,350	177.15	12,009	16,386
176.64	11,226	10,463	177.16	12,025	16,506
176.65	11,241	10,575	177.17	12,040	16,627
176.66	11,257	10,687	177.18	12,056	16,747
176.67	11,272	10,800	177.19	12,072	16,868
176.68	11,287	10,913	177.20	12,088	16,988
176.69	11,302	11,026	177.21	12,103	17,109
176.70	11,317	11,139	177.22	12,119	17,231
176.71	11,332	11,252	177.23	12,135	17,352
176.72	11,348	11,366	177.24	12,151	17,473
176.73	11,363	11,479	177.25	12,166	17,595
176.74	11,378	11,593	177.26	12,182	17,717
176.75	11,393	11,707	177.27	12,198	17,838
176.76	11,408	11,821	177.28	12,213	17,961
176.77	11,424	11,935	177.29	12,229	18,083
176.78	11,439	12,049	177.30	12,245	18,205
176.79	11,454	12,164	177.31	12,261	18,328
176.80	11,469	12,278	177.32	12,276	18,450
176.81	11,484	12,393	177.33	12,292	18,573
176.82	11,500	12,508	177.34	12,308	18,696
176.83	11,515	12,623	177.35	12,324	18,819
176.84	11,530	12,738	177.36	12,339	18,943
176.85	11,545	12,854	177.37	12,355	19,066

Stage-Area-Storage for Pond B-30: Basin #30 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
177.38	12,371	19,190	177.90	13,189	25,835
177.39	12,386	19,313	177.91	13,204	25,967
177.40	12,402	19,437	177.92	13,220	26,099
177.41	12,418	19,562	177.93	13,236	26,232
177.42	12,434	19,686	177.94	13,252	26,364
177.43	12,449	19,810	177.95	13,267	26,497
177.44	12,465	19,935	177.96	13,283	26,629
177.45	12,481	20,060	177.97	13,299	26,762
177.46	12,497	20,184	177.98	13,315	26,895
177.47	12,512	20,309	177.99	13,330	27,029
177.48	12,528	20,435	178.00	13,346	27,162
177.49	12,544	20,560	178.01	13,362	27,295
177.50	12,560	20,686	178.02	13,379	27,429
177.51	12,575	20,811	178.03	13,395	27,563
177.52	12,591	20,937	178.04	13,411	27,697
177.53	12,607	21,063	178.05	13,428	27,831
177.54	12,622	21,189	178.06	13,444	27,966
177.55	12,638	21,315	178.07	13,460	28,100
177.56	12,654	21,442	178.08	13,477	28,235
177.57	12,670	21,569	178.09	13,493	28,370
177.58	12,685	21,695	178.10	13,509	28,505
177.59	12,701	21,822	178.11	13,526	28,640
177.60	12,717	21,949	178.12	13,542	28,775
177.61	12,733	22,077	178.13	13,558	28,911
177.62	12,748	22,204	178.14	13,574	29,046
177.63	12,764	22,332	178.15	13,591	29,182
177.64	12,780	22,459	178.16	13,607	29,318
177.65	12,795	22,587	178.17	13,623	29,454
177.66	12,811	22,715	178.18	13,640	29,591
177.67	12,827	22,843	178.19	13,656	29,727
177.68	12,843	22,972	178.20	13,672	29,864
177.69	12,858	23,100	178.21	13,689	30,001
177.70	12,874	23,229	178.22	13,705	30,138
177.71	12,890	23,358	178.23	13,721	30,275
177.72	12,906	23,487	178.24	13,738	30,412
177.73	12,921	23,616	178.25	13,754	30,549
177.74	12,937	23,745	178.26	13,770	30,687
177.75	12,953	23,875	178.27	13,787	30,825
177.76	12,968	24,004	178.28	13,803	30,963
177.77	12,984	24,134	178.29	13,819	31,101
177.78	13,000	24,264	178.30	13,836	31,239
177.79	13,016	24,394	178.31	13,852	31,378
177.80	13,031	24,524	178.32	13,868	31,516
177.81	13,047	24,655	178.33	13,885	31,655
177.82	13,063	24,785	178.34	13,901	31,794
177.83	13,079	24,916	178.35	13,917	31,933
177.84	13,094	25,047	178.36	13,934	32,072
177.85	13,110	25,178	178.37	13,950	32,212
177.86	13,126	25,309	178.38	13,966	32,351
177.87	13,142	25,440	178.39	13,982	32,491
177.88	13,157	25,572	178.40	13,999	32,631
177.89	13,173	25,703	178.41	14,015	32,771

Stage-Area-Storage for Pond B-30: Basin #30 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
178.42	14,031	32,911
178.43	14,048	33,052
178.44	14,064	33,192
178.45	14,080	33,333
178.46	14,097	33,474
178.47	14,113	33,615
178.48	14,129	33,756
178.49	14,146	33,897
178.50	14,162	34,039
178.51	14,178	34,181
178.52	14,195	34,322
178.53	14,211	34,464
178.54	14,227	34,607
178.55	14,244	34,749
178.56	14,260	34,892
178.57	14,276	35,034
178.58	14,293	35,177
178.59	14,309	35,320
178.60	14,325	35,463
178.61	14,342	35,607
178.62	14,358	35,750
178.63	14,374	35,894
178.64	14,390	36,038
178.65	14,407	36,182
178.66	14,423	36,326
178.67	14,439	36,470
178.68	14,456	36,614
178.69	14,472	36,759
178.70	14,488	36,904
178.71	14,505	37,049
178.72	14,521	37,194
178.73	14,537	37,339
178.74	14,554	37,485
178.75	14,570	37,630
178.76	14,586	37,776
178.77	14,603	37,922
178.78	14,619	38,068
178.79	14,635	38,215
178.80	14,652	38,361
178.81	14,668	38,508
178.82	14,684	38,654
178.83	14,701	38,801
178.84	14,717	38,948
178.85	14,733	39,096
178.86	14,750	39,243
178.87	14,766	39,391
178.88	14,782	39,538
178.89	14,798	39,686
178.90	14,815	39,834
178.91	14,831	39,982
178.92	14,847	40,131
178.93	14,864	40,279
178.94	14,880	40,428
178.95	14,896	40,577
178.96	14,913	40,726
178.97	14,929	40,875
178.98	14,945	41,025
178.99	14,962	41,174
179.00	14,978	41,324
179.01	14,995	41,474
179.02	15,012	41,624
179.03	15,029	41,774
179.04	15,046	41,924
179.05	15,062	42,075
179.06	15,079	42,226
179.07	15,096	42,376
179.08	15,113	42,528
179.09	15,130	42,679
179.10	15,147	42,830
179.11	15,164	42,982
179.12	15,181	43,133
179.13	15,198	43,285
179.14	15,214	43,437
179.15	15,231	43,590
179.16	15,248	43,742
179.17	15,265	43,895
179.18	15,282	44,047
179.19	15,299	44,200
179.20	15,316	44,353
179.21	15,333	44,507
179.22	15,350	44,660
179.23	15,366	44,814
179.24	15,383	44,967
179.25	15,400	45,121
179.26	15,417	45,275
179.27	15,434	45,430
179.28	15,451	45,584
179.29	15,468	45,739
179.30	15,485	45,893
179.31	15,502	46,048
179.32	15,518	46,203
179.33	15,535	46,359
179.34	15,552	46,514
179.35	15,569	46,670
179.36	15,586	46,825
179.37	15,603	46,981
179.38	15,620	47,137
179.39	15,637	47,294
179.40	15,654	47,450
179.41	15,670	47,607
179.42	15,687	47,764
179.43	15,704	47,921
179.44	15,721	48,078
179.45	15,738	48,235

Stage-Area-Storage for Pond B-30: Basin #30 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
179.46	15,755	48,392
179.47	15,772	48,550
179.48	15,789	48,708
179.49	15,806	48,866
179.50	15,823	49,024
179.51	15,839	49,182
179.52	15,856	49,341
179.53	15,873	49,499
179.54	15,890	49,658
179.55	15,907	49,817
179.56	15,924	49,976
179.57	15,941	50,136
179.58	15,958	50,295
179.59	15,975	50,455
179.60	15,991	50,615
179.61	16,008	50,775
179.62	16,025	50,935
179.63	16,042	51,095
179.64	16,059	51,256
179.65	16,076	51,416
179.66	16,093	51,577
179.67	16,110	51,738
179.68	16,127	51,899
179.69	16,143	52,061
179.70	16,160	52,222
179.71	16,177	52,384
179.72	16,194	52,546
179.73	16,211	52,708
179.74	16,228	52,870
179.75	16,245	53,032
179.76	16,262	53,195
179.77	16,279	53,358
179.78	16,295	53,521
179.79	16,312	53,684
179.80	16,329	53,847
179.81	16,346	54,010
179.82	16,363	54,174
179.83	16,380	54,337
179.84	16,397	54,501
179.85	16,414	54,665
179.86	16,431	54,830
179.87	16,447	54,994
179.88	16,464	55,159
179.89	16,481	55,323
179.90	16,498	55,488
179.91	16,515	55,653
179.92	16,532	55,818
179.93	16,549	55,984
179.94	16,566	56,149
179.95	16,583	56,315
179.96	16,599	56,481
179.97	16,616	56,647
179.98	16,633	56,813
179.99	16,650	56,980
180.00	**16,667**	**57,146**

Summary for Pond B-31: Basin #31

Inflow Area = 0.923 ac, 77.68% Impervious, Inflow Depth = 2.68" for Current 2 yr event
Inflow = 2.42 cfs @ 12.17 hrs, Volume= 0.206 af
Outflow = 0.21 cfs @ 13.27 hrs, Volume= 0.191 af, Atten= 91%, Lag= 66.2 min
Primary = 0.21 cfs @ 13.27 hrs, Volume= 0.191 af
Routed to Pond B-30 : Basin #30

Routing by Stor-Ind method, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
Peak Elev= 194.76' @ 13.27 hrs Surf.Area= 3,079 sf Storage= 5,067 cf

Plug-Flow detention time= 321.1 min calculated for 0.191 af (93% of inflow)
Center-of-Mass det. time= 281.6 min (1,052.0 - 770.4)

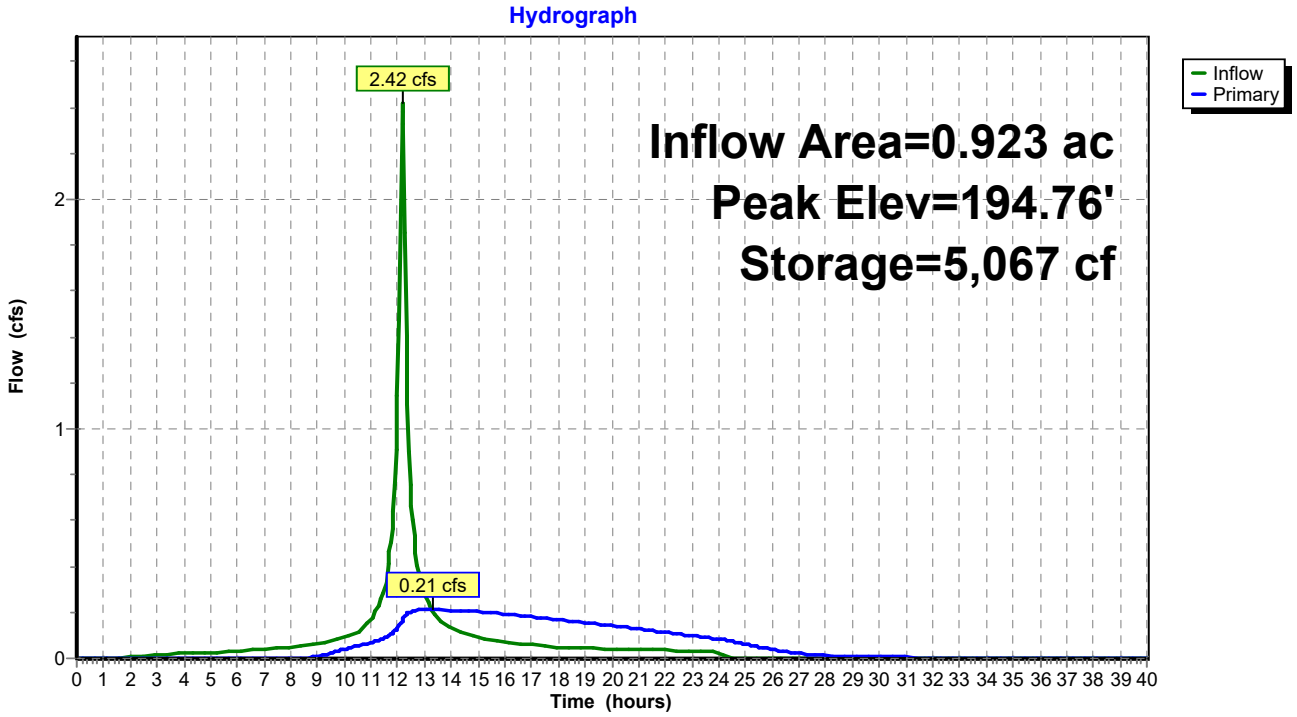
Volume	Invert	Avail.Storage	Storage Description
#1	192.30'	9,453 cf	**Custom Stage Data (Prismatic)** Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
192.30	0	0	0
193.00	1,944	680	680
194.00	2,566	2,255	2,935
195.00	3,245	2,906	5,841
196.00	3,980	3,613	9,453

Device	Routing	Invert	Outlet Devices
#1	Primary	191.65'	**18.0" Round Culvert** L= 126.0' Ke= 0.500 Inlet / Outlet Invert= 191.65' / 188.00' S= 0.0290 '/' Cc= 0.900 n= 0.013, Flow Area= 1.77 sf
#2	Device 1	192.97'	**2.5" Vert. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#3	Device 1	195.00'	**4.0' long Sharp-Crested Rectangular Weir** 2 End Contraction(s)
#4	Primary	195.50'	**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=0.21 cfs @ 13.27 hrs HW=194.76' (Free Discharge)
- **1=Culvert** (Passes 0.21 cfs of 13.06 cfs potential flow)
  - **2=Orifice/Grate** (Orifice Controls 0.21 cfs @ 6.24 fps)
  - **3=Sharp-Crested Rectangular Weir** (Controls 0.00 cfs)
- **4=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)

Pond B-31: Basin #31



Stage-Discharge for Pond B-31: Basin #31

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
192.30	0.00	192.82	0.00	193.34	0.08	193.86	0.15
192.31	0.00	192.83	0.00	193.35	0.09	193.87	0.15
192.32	0.00	192.84	0.00	193.36	0.09	193.88	0.15
192.33	0.00	192.85	0.00	193.37	0.09	193.89	0.15
192.34	0.00	192.86	0.00	193.38	0.09	193.90	0.15
192.35	0.00	192.87	0.00	193.39	0.09	193.91	0.15
192.36	0.00	192.88	0.00	193.40	0.09	193.92	0.15
192.37	0.00	192.89	0.00	193.41	0.10	193.93	0.15
192.38	0.00	192.90	0.00	193.42	0.10	193.94	0.15
192.39	0.00	192.91	0.00	193.43	0.10	193.95	0.15
192.40	0.00	192.92	0.00	193.44	0.10	193.96	0.15
192.41	0.00	192.93	0.00	193.45	0.10	193.97	0.16
192.42	0.00	192.94	0.00	193.46	0.10	193.98	0.16
192.43	0.00	192.95	0.00	193.47	0.10	193.99	0.16
192.44	0.00	192.96	0.00	193.48	0.10	194.00	0.16
192.45	0.00	192.97	0.00	193.49	0.11	194.01	0.16
192.46	0.00	192.98	0.00	193.50	0.11	194.02	0.16
192.47	0.00	192.99	0.00	193.51	0.11	194.03	0.16
192.48	0.00	193.00	0.00	193.52	0.11	194.04	0.16
192.49	0.00	193.01	0.00	193.53	0.11	194.05	0.16
192.50	0.00	193.02	0.00	193.54	0.11	194.06	0.16
192.51	0.00	193.03	0.01	193.55	0.11	194.07	0.16
192.52	0.00	193.04	0.01	193.56	0.11	194.08	0.16
192.53	0.00	193.05	0.01	193.57	0.12	194.09	0.17
192.54	0.00	193.06	0.01	193.58	0.12	194.10	0.17
192.55	0.00	193.07	0.02	193.59	0.12	194.11	0.17
192.56	0.00	193.08	0.02	193.60	0.12	194.12	0.17
192.57	0.00	193.09	0.02	193.61	0.12	194.13	0.17
192.58	0.00	193.10	0.03	193.62	0.12	194.14	0.17
192.59	0.00	193.11	0.03	193.63	0.12	194.15	0.17
192.60	0.00	193.12	0.03	193.64	0.12	194.16	0.17
192.61	0.00	193.13	0.04	193.65	0.12	194.17	0.17
192.62	0.00	193.14	0.04	193.66	0.13	194.18	0.17
192.63	0.00	193.15	0.05	193.67	0.13	194.19	0.17
192.64	0.00	193.16	0.05	193.68	0.13	194.20	0.17
192.65	0.00	193.17	0.05	193.69	0.13	194.21	0.17
192.66	0.00	193.18	0.05	193.70	0.13	194.22	0.18
192.67	0.00	193.19	0.06	193.71	0.13	194.23	0.18
192.68	0.00	193.20	0.06	193.72	0.13	194.24	0.18
192.69	0.00	193.21	0.06	193.73	0.13	194.25	0.18
192.70	0.00	193.22	0.06	193.74	0.13	194.26	0.18
192.71	0.00	193.23	0.06	193.75	0.13	194.27	0.18
192.72	0.00	193.24	0.07	193.76	0.14	194.28	0.18
192.73	0.00	193.25	0.07	193.77	0.14	194.29	0.18
192.74	0.00	193.26	0.07	193.78	0.14	194.30	0.18
192.75	0.00	193.27	0.07	193.79	0.14	194.31	0.18
192.76	0.00	193.28	0.07	193.80	0.14	194.32	0.18
192.77	0.00	193.29	0.08	193.81	0.14	194.33	0.18
192.78	0.00	193.30	0.08	193.82	0.14	194.34	0.18
192.79	0.00	193.31	0.08	193.83	0.14	194.35	0.19
192.80	0.00	193.32	0.08	193.84	0.14	194.36	0.19
192.81	0.00	193.33	0.08	193.85	0.14	194.37	0.19

Stage-Discharge for Pond B-31: Basin #31 (continued)

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
194.38	0.19	194.90	0.22	195.42	3.74	195.94	49.49
194.39	0.19	194.91	0.22	195.43	3.86	195.95	51.13
194.40	0.19	194.92	0.22	195.44	3.99	195.96	52.81
194.41	0.19	194.93	0.22	195.45	4.11	195.97	54.51
194.42	0.19	194.94	0.22	195.46	4.24	195.98	56.24
194.43	0.19	194.95	0.22	195.47	4.37	195.99	57.99
194.44	0.19	194.96	0.23	195.48	4.50	196.00	**59.77**
194.45	0.19	194.97	0.23	195.49	4.63		
194.46	0.19	194.98	0.23	195.50	4.76		
194.47	0.19	194.99	0.23	195.51	5.02		
194.48	0.19	195.00	0.23	195.52	5.37		
194.49	0.20	195.01	0.24	195.53	5.78		
194.50	0.20	195.02	0.27	195.54	6.25		
194.51	0.20	195.03	0.30	195.55	6.76		
194.52	0.20	195.04	0.33	195.56	7.31		
194.53	0.20	195.05	0.38	195.57	7.90		
194.54	0.20	195.06	0.42	195.58	8.53		
194.55	0.20	195.07	0.47	195.59	9.19		
194.56	0.20	195.08	0.53	195.60	9.88		
194.57	0.20	195.09	0.58	195.61	10.59		
194.58	0.20	195.10	0.65	195.62	11.34		
194.59	0.20	195.11	0.71	195.63	12.12		
194.60	0.20	195.12	0.78	195.64	12.92		
194.61	0.20	195.13	0.84	195.65	13.74		
194.62	0.20	195.14	0.92	195.66	14.59		
194.63	0.20	195.15	0.99	195.67	15.47		
194.64	0.21	195.16	1.07	195.68	16.36		
194.65	0.21	195.17	1.15	195.69	17.28		
194.66	0.21	195.18	1.23	195.70	18.22		
194.67	0.21	195.19	1.31	195.71	19.23		
194.68	0.21	195.20	1.40	195.72	20.25		
194.69	0.21	195.21	1.49	195.73	21.31		
194.70	0.21	195.22	1.58	195.74	22.39		
194.71	0.21	195.23	1.67	195.75	23.50		
194.72	0.21	195.24	1.76	195.76	24.63		
194.73	0.21	195.25	1.86	195.77	25.79		
194.74	0.21	195.26	1.95	195.78	26.98		
194.75	0.21	195.27	2.05	195.79	28.19		
194.76	0.21	195.28	2.15	195.80	29.42		
194.77	0.21	195.29	2.26	195.81	30.69		
194.78	0.21	195.30	2.36	195.82	31.97		
194.79	0.22	195.31	2.47	195.83	33.29		
194.80	0.22	195.32	2.58	195.84	34.62		
194.81	0.22	195.33	2.69	195.85	35.98		
194.82	0.22	195.34	2.80	195.86	37.37		
194.83	0.22	195.35	2.91	195.87	38.78		
194.84	0.22	195.36	3.02	195.88	40.22		
194.85	0.22	195.37	3.14	195.89	41.68		
194.86	0.22	195.38	3.25	195.90	43.17		
194.87	0.22	195.39	3.37	195.91	44.71		
194.88	0.22	195.40	3.49	195.92	46.28		
194.89	0.22	195.41	3.61	195.93	47.87		

Stage-Area-Storage for Pond B-31: Basin #31

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
192.30	0	0
192.31	28	0
192.32	56	1
192.33	83	1
192.34	111	2
192.35	139	3
192.36	167	5
192.37	194	7
192.38	222	9
192.39	250	11
192.40	278	14
192.41	305	17
192.42	333	20
192.43	361	23
192.44	389	27
192.45	417	31
192.46	444	36
192.47	472	40
192.48	500	45
192.49	528	50
192.50	555	56
192.51	583	61
192.52	611	67
192.53	639	73
192.54	667	80
192.55	694	87
192.56	722	94
192.57	750	101
192.58	778	109
192.59	805	117
192.60	833	125
192.61	861	133
192.62	889	142
192.63	916	151
192.64	944	161
192.65	972	170
192.66	1,000	180
192.67	1,028	190
192.68	1,055	201
192.69	1,083	211
192.70	1,111	222
192.71	1,139	233
192.72	1,166	245
192.73	1,194	257
192.74	1,222	269
192.75	1,250	281
192.76	1,277	294
192.77	1,305	307
192.78	1,333	320
192.79	1,361	333
192.80	1,389	347
192.81	1,416	361
192.82	1,444	375
192.83	1,472	390
192.84	1,500	405
192.85	1,527	420
192.86	1,555	435
192.87	1,583	451
192.88	1,611	467
192.89	1,639	483
192.90	1,666	500
192.91	1,694	517
192.92	1,722	534
192.93	1,750	551
192.94	1,777	569
192.95	1,805	587
192.96	1,833	605
192.97	1,861	623
192.98	1,888	642
192.99	1,916	661
193.00	1,944	680
193.01	1,950	700
193.02	1,956	719
193.03	1,963	739
193.04	1,969	759
193.05	1,975	778
193.06	1,981	798
193.07	1,988	818
193.08	1,994	838
193.09	2,000	858
193.10	2,006	878
193.11	2,012	898
193.12	2,019	918
193.13	2,025	938
193.14	2,031	959
193.15	2,037	979
193.16	2,044	999
193.17	2,050	1,020
193.18	2,056	1,040
193.19	2,062	1,061
193.20	2,068	1,082
193.21	2,075	1,102
193.22	2,081	1,123
193.23	2,087	1,144
193.24	2,093	1,165
193.25	2,100	1,186
193.26	2,106	1,207
193.27	2,112	1,228
193.28	2,118	1,249
193.29	2,124	1,270
193.30	2,131	1,292
193.31	2,137	1,313
193.32	2,143	1,334
193.33	2,149	1,356

Stage-Area-Storage for Pond B-31: Basin #31 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
193.34	2,155	1,377	193.86	2,479	2,582
193.35	2,162	1,399	193.87	2,485	2,607
193.36	2,168	1,421	193.88	2,491	2,632
193.37	2,174	1,442	193.89	2,498	2,657
193.38	2,180	1,464	193.90	2,504	2,682
193.39	2,187	1,486	193.91	2,510	2,707
193.40	2,193	1,508	193.92	2,516	2,732
193.41	2,199	1,530	193.93	2,522	2,757
193.42	2,205	1,552	193.94	2,529	2,783
193.43	2,211	1,574	193.95	2,535	2,808
193.44	2,218	1,596	193.96	2,541	2,833
193.45	2,224	1,618	193.97	2,547	2,859
193.46	2,230	1,640	193.98	2,554	2,884
193.47	2,236	1,663	193.99	2,560	2,910
193.48	2,243	1,685	194.00	2,566	2,935
193.49	2,249	1,708	194.01	2,573	2,961
193.50	2,255	1,730	194.02	2,580	2,987
193.51	2,261	1,753	194.03	2,586	3,013
193.52	2,267	1,775	194.04	2,593	3,039
193.53	2,274	1,798	194.05	2,600	3,065
193.54	2,280	1,821	194.06	2,607	3,091
193.55	2,286	1,844	194.07	2,614	3,117
193.56	2,292	1,867	194.08	2,620	3,143
193.57	2,299	1,890	194.09	2,627	3,169
193.58	2,305	1,913	194.10	2,634	3,195
193.59	2,311	1,936	194.11	2,641	3,222
193.60	2,317	1,959	194.12	2,647	3,248
193.61	2,323	1,982	194.13	2,654	3,275
193.62	2,330	2,005	194.14	2,661	3,301
193.63	2,336	2,029	194.15	2,668	3,328
193.64	2,342	2,052	194.16	2,675	3,355
193.65	2,348	2,075	194.17	2,681	3,381
193.66	2,355	2,099	194.18	2,688	3,408
193.67	2,361	2,122	194.19	2,695	3,435
193.68	2,367	2,146	194.20	2,702	3,462
193.69	2,373	2,170	194.21	2,709	3,489
193.70	2,379	2,194	194.22	2,715	3,516
193.71	2,386	2,217	194.23	2,722	3,544
193.72	2,392	2,241	194.24	2,729	3,571
193.73	2,398	2,265	194.25	2,736	3,598
193.74	2,404	2,289	194.26	2,743	3,626
193.75	2,411	2,313	194.27	2,749	3,653
193.76	2,417	2,337	194.28	2,756	3,680
193.77	2,423	2,362	194.29	2,763	3,708
193.78	2,429	2,386	194.30	2,770	3,736
193.79	2,435	2,410	194.31	2,776	3,763
193.80	2,442	2,435	194.32	2,783	3,791
193.81	2,448	2,459	194.33	2,790	3,819
193.82	2,454	2,484	194.34	2,797	3,847
193.83	2,460	2,508	194.35	2,804	3,875
193.84	2,466	2,533	194.36	2,810	3,903
193.85	2,473	2,557	194.37	2,817	3,931

Stage-Area-Storage for Pond B-31: Basin #31 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
194.38	2,824	3,960
194.39	2,831	3,988
194.40	2,838	4,016
194.41	2,844	4,045
194.42	2,851	4,073
194.43	2,858	4,102
194.44	2,865	4,130
194.45	2,872	4,159
194.46	2,878	4,188
194.47	2,885	4,216
194.48	2,892	4,245
194.49	2,899	4,274
194.50	2,906	4,303
194.51	2,912	4,332
194.52	2,919	4,362
194.53	2,926	4,391
194.54	2,933	4,420
194.55	2,939	4,449
194.56	2,946	4,479
194.57	2,953	4,508
194.58	2,960	4,538
194.59	2,967	4,568
194.60	2,973	4,597
194.61	2,980	4,627
194.62	2,987	4,657
194.63	2,994	4,687
194.64	3,001	4,717
194.65	3,007	4,747
194.66	3,014	4,777
194.67	3,021	4,807
194.68	3,028	4,837
194.69	3,035	4,868
194.70	3,041	4,898
194.71	3,048	4,928
194.72	3,055	4,959
194.73	3,062	4,989
194.74	3,068	5,020
194.75	3,075	5,051
194.76	3,082	5,082
194.77	3,089	5,113
194.78	3,096	5,143
194.79	3,102	5,174
194.80	3,109	5,205
194.81	3,116	5,237
194.82	3,123	5,268
194.83	3,130	5,299
194.84	3,136	5,330
194.85	3,143	5,362
194.86	3,150	5,393
194.87	3,157	5,425
194.88	3,164	5,456
194.89	3,170	5,488
194.90	3,177	5,520
194.91	3,184	5,552
194.92	3,191	5,583
194.93	3,197	5,615
194.94	3,204	5,647
194.95	3,211	5,679
194.96	3,218	5,712
194.97	3,225	5,744
194.98	3,231	5,776
194.99	3,238	5,808
195.00	3,245	5,841
195.01	3,252	5,873
195.02	3,260	5,906
195.03	3,267	5,939
195.04	3,274	5,971
195.05	3,282	6,004
195.06	3,289	6,037
195.07	3,296	6,070
195.08	3,304	6,103
195.09	3,311	6,136
195.10	3,319	6,169
195.11	3,326	6,202
195.12	3,333	6,236
195.13	3,341	6,269
195.14	3,348	6,302
195.15	3,355	6,336
195.16	3,363	6,370
195.17	3,370	6,403
195.18	3,377	6,437
195.19	3,385	6,471
195.20	3,392	6,505
195.21	3,399	6,539
195.22	3,407	6,573
195.23	3,414	6,607
195.24	3,421	6,641
195.25	3,429	6,675
195.26	3,436	6,709
195.27	3,443	6,744
195.28	3,451	6,778
195.29	3,458	6,813
195.30	3,466	6,847
195.31	3,473	6,882
195.32	3,480	6,917
195.33	3,488	6,952
195.34	3,495	6,987
195.35	3,502	7,022
195.36	3,510	7,057
195.37	3,517	7,092
195.38	3,524	7,127
195.39	3,532	7,162
195.40	3,539	7,198
195.41	3,546	7,233

Stage-Area-Storage for Pond B-31: Basin #31 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
195.42	3,554	7,269
195.43	3,561	7,304
195.44	3,568	7,340
195.45	3,576	7,376
195.46	3,583	7,411
195.47	3,590	7,447
195.48	3,598	7,483
195.49	3,605	7,519
195.50	3,613	7,555
195.51	3,620	7,591
195.52	3,627	7,628
195.53	3,635	7,664
195.54	3,642	7,700
195.55	3,649	7,737
195.56	3,657	7,773
195.57	3,664	7,810
195.58	3,671	7,847
195.59	3,679	7,883
195.60	3,686	7,920
195.61	3,693	7,957
195.62	3,701	7,994
195.63	3,708	8,031
195.64	3,715	8,068
195.65	3,723	8,105
195.66	3,730	8,143
195.67	3,737	8,180
195.68	3,745	8,217
195.69	3,752	8,255
195.70	3,760	8,292
195.71	3,767	8,330
195.72	3,774	8,368
195.73	3,782	8,406
195.74	3,789	8,443
195.75	3,796	8,481
195.76	3,804	8,519
195.77	3,811	8,557
195.78	3,818	8,596
195.79	3,826	8,634
195.80	3,833	8,672
195.81	3,840	8,710
195.82	3,848	8,749
195.83	3,855	8,787
195.84	3,862	8,826
195.85	3,870	8,865
195.86	3,877	8,903
195.87	3,884	8,942
195.88	3,892	8,981
195.89	3,899	9,020
195.90	3,907	9,059
195.91	3,914	9,098
195.92	3,921	9,137
195.93	3,929	9,177
195.94	3,936	9,216
195.95	3,943	9,255
195.96	3,951	9,295
195.97	3,958	9,334
195.98	3,965	9,374
195.99	3,973	9,414
196.00	**3,980**	**9,453**

Summary for Pond B-32: Basin #32

Inflow Area = 1.346 ac, 28.68% Impervious, Inflow Depth = 1.71" for Current 2 yr event
Inflow = 2.33 cfs @ 12.18 hrs, Volume= 0.191 af
Outflow = 1.64 cfs @ 12.28 hrs, Volume= 0.152 af, Atten= 30%, Lag= 6.1 min
Primary = 1.64 cfs @ 12.28 hrs, Volume= 0.152 af
Routed to Pond B-30 : Basin #30

Routing by Stor-Ind method, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
Peak Elev= 195.87' @ 12.28 hrs Surf.Area= 3,471 sf Storage= 2,733 cf

Plug-Flow detention time= 159.6 min calculated for 0.152 af (80% of inflow)
Center-of-Mass det. time= 72.9 min (883.7 - 810.8)

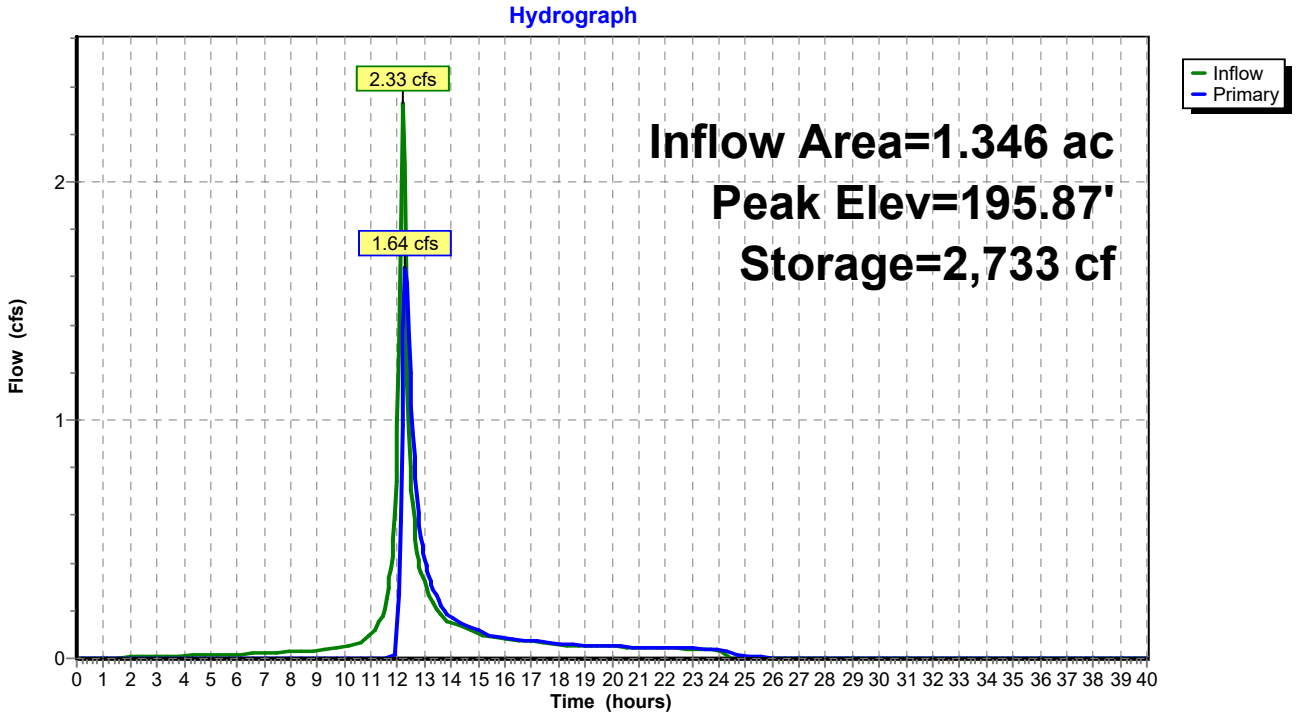
Volume	Invert	Avail.Storage	Storage Description
#1	195.00'	11,936 cf	**Custom Stage Data (Prismatic)** Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
195.00	2,830	0	0
196.00	3,569	3,200	3,200
197.00	4,349	3,959	7,159
198.00	5,206	4,778	11,936

Device	Routing	Invert	Outlet Devices
#1	Primary	195.00'	**24.0" Round Culvert** L= 43.0' Ke= 0.500 Inlet / Outlet Invert= 195.00' / 193.94' S= 0.0247 '/' Cc= 0.900 n= 0.013, Flow Area= 3.14 sf
#2	Device 1	195.56'	**36.0" W x 6.0" H Vert. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#3	Device 1	197.00'	**4.0' long Sharp-Crested Rectangular Weir** 2 End Contraction(s)
#4	Primary	197.95'	**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=1.63 cfs @ 12.28 hrs HW=195.87' (Free Discharge)
- **1=Culvert** (Passes 1.63 cfs of 4.13 cfs potential flow)
  - **2=Orifice/Grate** (Orifice Controls 1.63 cfs @ 1.77 fps)
  - **3=Sharp-Crested Rectangular Weir** (Controls 0.00 cfs)
- **4=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)

Pond B-32: Basin #32



Stage-Discharge for Pond B-32: Basin #32

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
195.00	0.00	195.52	0.00	196.04	3.20	196.56	6.23
195.01	0.00	195.53	0.00	196.05	3.30	196.57	6.27
195.02	0.00	195.54	0.00	196.06	3.40	196.58	6.31
195.03	0.00	195.55	0.00	196.07	3.50	196.59	6.35
195.04	0.00	195.56	0.00	196.08	3.58	196.60	6.39
195.05	0.00	195.57	0.01	196.09	3.67	196.61	6.43
195.06	0.00	195.58	0.03	196.10	3.74	196.62	6.47
195.07	0.00	195.59	0.05	196.11	3.82	196.63	6.51
195.08	0.00	195.60	0.08	196.12	3.89	196.64	6.55
195.09	0.00	195.61	0.11	196.13	3.97	196.65	6.59
195.10	0.00	195.62	0.14	196.14	4.04	196.66	6.63
195.11	0.00	195.63	0.18	196.15	4.10	196.67	6.67
195.12	0.00	195.64	0.22	196.16	4.17	196.68	6.71
195.13	0.00	195.65	0.26	196.17	4.24	196.69	6.75
195.14	0.00	195.66	0.30	196.18	4.30	196.70	6.79
195.15	0.00	195.67	0.35	196.19	4.36	196.71	6.83
195.16	0.00	195.68	0.40	196.20	4.43	196.72	6.87
195.17	0.00	195.69	0.45	196.21	4.49	196.73	6.91
195.18	0.00	195.70	0.50	196.22	4.55	196.74	6.94
195.19	0.00	195.71	0.56	196.23	4.61	196.75	6.98
195.20	0.00	195.72	0.62	196.24	4.66	196.76	7.02
195.21	0.00	195.73	0.67	196.25	4.72	196.77	7.06
195.22	0.00	195.74	0.74	196.26	4.78	196.78	7.09
195.23	0.00	195.75	0.80	196.27	4.83	196.79	7.13
195.24	0.00	195.76	0.86	196.28	4.89	196.80	7.17
195.25	0.00	195.77	0.93	196.29	4.94	196.81	7.20
195.26	0.00	195.78	0.99	196.30	5.00	196.82	7.24
195.27	0.00	195.79	1.06	196.31	5.05	196.83	7.28
195.28	0.00	195.80	1.13	196.32	5.10	196.84	7.31
195.29	0.00	195.81	1.20	196.33	5.16	196.85	7.35
195.30	0.00	195.82	1.28	196.34	5.21	196.86	7.38
195.31	0.00	195.83	1.35	196.35	5.26	196.87	7.42
195.32	0.00	195.84	1.43	196.36	5.31	196.88	7.45
195.33	0.00	195.85	1.50	196.37	5.36	196.89	7.49
195.34	0.00	195.86	1.58	196.38	5.41	196.90	7.52
195.35	0.00	195.87	1.66	196.39	5.46	196.91	7.56
195.36	0.00	195.88	1.74	196.40	5.50	196.92	7.59
195.37	0.00	195.89	1.83	196.41	5.55	196.93	7.63
195.38	0.00	195.90	1.91	196.42	5.60	196.94	7.66
195.39	0.00	195.91	1.99	196.43	5.65	196.95	7.70
195.40	0.00	195.92	2.08	196.44	5.69	196.96	7.73
195.41	0.00	195.93	2.17	196.45	5.74	196.97	7.76
195.42	0.00	195.94	2.26	196.46	5.79	196.98	7.80
195.43	0.00	195.95	2.35	196.47	5.83	196.99	7.83
195.44	0.00	195.96	2.44	196.48	5.88	197.00	7.86
195.45	0.00	195.97	2.53	196.49	5.92	197.01	7.91
195.46	0.00	195.98	2.62	196.50	5.97	197.02	7.97
195.47	0.00	195.99	2.72	196.51	6.01	197.03	8.03
195.48	0.00	196.00	2.81	196.52	6.05	197.04	8.10
195.49	0.00	196.01	2.91	196.53	6.10	197.05	8.17
195.50	0.00	196.02	3.00	196.54	6.14	197.06	8.25
195.51	0.00	196.03	3.10	196.55	6.18	197.07	8.34

Stage-Discharge for Pond B-32: Basin #32 (continued)

Elevation (feet)	Primary (cfs)
197.08	8.42
197.09	8.51
197.10	8.60
197.11	8.70
197.12	8.79
197.13	8.89
197.14	9.00
197.15	9.10
197.16	9.21
197.17	9.32
197.18	9.43
197.19	9.55
197.20	9.66
197.21	9.78
197.22	9.90
197.23	10.02
197.24	10.15
197.25	10.27
197.26	10.40
197.27	10.53
197.28	10.66
197.29	10.79
197.30	10.92
197.31	11.06
197.32	11.19
197.33	11.33
197.34	11.47
197.35	11.61
197.36	11.76
197.37	11.90
197.38	12.05
197.39	12.19
197.40	12.34
197.41	12.49
197.42	12.64
197.43	12.79
197.44	12.95
197.45	13.10
197.46	13.26
197.47	13.41
197.48	13.57
197.49	13.73
197.50	13.89
197.51	14.05
197.52	14.21
197.53	14.38
197.54	14.54
197.55	14.71
197.56	14.87
197.57	15.04
197.58	15.21
197.59	15.38
197.60	15.55
197.61	15.72
197.62	15.90
197.63	16.07
197.64	16.25
197.65	16.42
197.66	16.60
197.67	16.78
197.68	16.95
197.69	17.13
197.70	17.31
197.71	17.50
197.72	17.68
197.73	17.86
197.74	18.05
197.75	18.23
197.76	18.42
197.77	18.60
197.78	18.79
197.79	18.98
197.80	19.17
197.81	19.36
197.82	19.55
197.83	19.74
197.84	19.93
197.85	20.12
197.86	20.32
197.87	20.51
197.88	20.71
197.89	20.80
197.90	20.85
197.91	20.91
197.92	20.96
197.93	21.01
197.94	21.07
197.95	21.12
197.96	21.29
197.97	21.56
197.98	21.89
197.99	22.28
198.00	**22.70**

Stage-Area-Storage for Pond B-32: Basin #32

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
195.00	2,830	0	195.52	3,214	1,572
195.01	2,837	28	195.53	3,222	1,604
195.02	2,845	57	195.54	3,229	1,636
195.03	2,852	85	195.55	3,236	1,668
195.04	2,860	114	195.56	3,244	1,701
195.05	2,867	142	195.57	3,251	1,733
195.06	2,874	171	195.58	3,259	1,766
195.07	2,882	200	195.59	3,266	1,798
195.08	2,889	229	195.60	3,273	1,831
195.09	2,897	258	195.61	3,281	1,864
195.10	2,904	287	195.62	3,288	1,897
195.11	2,911	316	195.63	3,296	1,930
195.12	2,919	345	195.64	3,303	1,963
195.13	2,926	374	195.65	3,310	1,996
195.14	2,933	403	195.66	3,318	2,029
195.15	2,941	433	195.67	3,325	2,062
195.16	2,948	462	195.68	3,333	2,095
195.17	2,956	492	195.69	3,340	2,129
195.18	2,963	521	195.70	3,347	2,162
195.19	2,970	551	195.71	3,355	2,196
195.20	2,978	581	195.72	3,362	2,229
195.21	2,985	611	195.73	3,369	2,263
195.22	2,993	640	195.74	3,377	2,297
195.23	3,000	670	195.75	3,384	2,330
195.24	3,007	700	195.76	3,392	2,364
195.25	3,015	731	195.77	3,399	2,398
195.26	3,022	761	195.78	3,406	2,432
195.27	3,030	791	195.79	3,414	2,466
195.28	3,037	821	195.80	3,421	2,500
195.29	3,044	852	195.81	3,429	2,535
195.30	3,052	882	195.82	3,436	2,569
195.31	3,059	913	195.83	3,443	2,603
195.32	3,066	943	195.84	3,451	2,638
195.33	3,074	974	195.85	3,458	2,672
195.34	3,081	1,005	195.86	3,466	2,707
195.35	3,089	1,036	195.87	3,473	2,742
195.36	3,096	1,067	195.88	3,480	2,777
195.37	3,103	1,098	195.89	3,488	2,811
195.38	3,111	1,129	195.90	3,495	2,846
195.39	3,118	1,160	195.91	3,502	2,881
195.40	3,126	1,191	195.92	3,510	2,916
195.41	3,133	1,222	195.93	3,517	2,951
195.42	3,140	1,254	195.94	3,525	2,987
195.43	3,148	1,285	195.95	3,532	3,022
195.44	3,155	1,317	195.96	3,539	3,057
195.45	3,163	1,348	195.97	3,547	3,093
195.46	3,170	1,380	195.98	3,554	3,128
195.47	3,177	1,412	195.99	3,562	3,164
195.48	3,185	1,444	196.00	3,569	3,200
195.49	3,192	1,475	196.01	3,577	3,235
195.50	3,200	1,507	196.02	3,585	3,271
195.51	3,207	1,539	196.03	3,592	3,307

Stage-Area-Storage for Pond B-32: Basin #32 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
196.04	3,600	3,343	196.56	4,006	5,320
196.05	3,608	3,379	196.57	4,014	5,361
196.06	3,616	3,415	196.58	4,021	5,401
196.07	3,624	3,451	196.59	4,029	5,441
196.08	3,631	3,488	196.60	4,037	5,481
196.09	3,639	3,524	196.61	4,045	5,522
196.10	3,647	3,560	196.62	4,053	5,562
196.11	3,655	3,597	196.63	4,060	5,603
196.12	3,663	3,633	196.64	4,068	5,643
196.13	3,670	3,670	196.65	4,076	5,684
196.14	3,678	3,707	196.66	4,084	5,725
196.15	3,686	3,744	196.67	4,092	5,766
196.16	3,694	3,781	196.68	4,099	5,807
196.17	3,702	3,818	196.69	4,107	5,848
196.18	3,709	3,855	196.70	4,115	5,889
196.19	3,717	3,892	196.71	4,123	5,930
196.20	3,725	3,929	196.72	4,131	5,971
196.21	3,733	3,966	196.73	4,138	6,013
196.22	3,741	4,004	196.74	4,146	6,054
196.23	3,748	4,041	196.75	4,154	6,096
196.24	3,756	4,079	196.76	4,162	6,137
196.25	3,764	4,116	196.77	4,170	6,179
196.26	3,772	4,154	196.78	4,177	6,221
196.27	3,780	4,192	196.79	4,185	6,262
196.28	3,787	4,229	196.80	4,193	6,304
196.29	3,795	4,267	196.81	4,201	6,346
196.30	3,803	4,305	196.82	4,209	6,388
196.31	3,811	4,343	196.83	4,216	6,430
196.32	3,819	4,382	196.84	4,224	6,473
196.33	3,826	4,420	196.85	4,232	6,515
196.34	3,834	4,458	196.86	4,240	6,557
196.35	3,842	4,496	196.87	4,248	6,600
196.36	3,850	4,535	196.88	4,255	6,642
196.37	3,858	4,573	196.89	4,263	6,685
196.38	3,865	4,612	196.90	4,271	6,728
196.39	3,873	4,651	196.91	4,279	6,770
196.40	3,881	4,690	196.92	4,287	6,813
196.41	3,889	4,728	196.93	4,294	6,856
196.42	3,897	4,767	196.94	4,302	6,899
196.43	3,904	4,806	196.95	4,310	6,942
196.44	3,912	4,845	196.96	4,318	6,985
196.45	3,920	4,885	196.97	4,326	7,028
196.46	3,928	4,924	196.98	4,333	7,072
196.47	3,936	4,963	196.99	4,341	7,115
196.48	3,943	5,002	197.00	4,349	7,159
196.49	3,951	5,042	197.01	4,358	7,202
196.50	3,959	5,082	197.02	4,366	7,246
196.51	3,967	5,121	197.03	4,375	7,289
196.52	3,975	5,161	197.04	4,383	7,333
196.53	3,982	5,201	197.05	4,392	7,377
196.54	3,990	5,240	197.06	4,400	7,421
196.55	3,998	5,280	197.07	4,409	7,465

Stage-Area-Storage for Pond B-32: Basin #32 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
197.08	4,418	7,509
197.09	4,426	7,553
197.10	4,435	7,598
197.11	4,443	7,642
197.12	4,452	7,687
197.13	4,460	7,731
197.14	4,469	7,776
197.15	4,478	7,820
197.16	4,486	7,865
197.17	4,495	7,910
197.18	4,503	7,955
197.19	4,512	8,000
197.20	4,520	8,045
197.21	4,529	8,091
197.22	4,538	8,136
197.23	4,546	8,181
197.24	4,555	8,227
197.25	4,563	8,273
197.26	4,572	8,318
197.27	4,580	8,364
197.28	4,589	8,410
197.29	4,598	8,456
197.30	4,606	8,502
197.31	4,615	8,548
197.32	4,623	8,594
197.33	4,632	8,640
197.34	4,640	8,687
197.35	4,649	8,733
197.36	4,658	8,780
197.37	4,666	8,826
197.38	4,675	8,873
197.39	4,683	8,920
197.40	4,692	8,967
197.41	4,700	9,014
197.42	4,709	9,061
197.43	4,718	9,108
197.44	4,726	9,155
197.45	4,735	9,202
197.46	4,743	9,250
197.47	4,752	9,297
197.48	4,760	9,345
197.49	4,769	9,392
197.50	4,778	9,440
197.51	4,786	9,488
197.52	4,795	9,536
197.53	4,803	9,584
197.54	4,812	9,632
197.55	4,820	9,680
197.56	4,829	9,728
197.57	4,837	9,777
197.58	4,846	9,825
197.59	4,855	9,874
197.60	4,863	9,922
197.61	4,872	9,971
197.62	4,880	10,020
197.63	4,889	10,068
197.64	4,897	10,117
197.65	4,906	10,166
197.66	4,915	10,215
197.67	4,923	10,265
197.68	4,932	10,314
197.69	4,940	10,363
197.70	4,949	10,413
197.71	4,957	10,462
197.72	4,966	10,512
197.73	4,975	10,562
197.74	4,983	10,611
197.75	4,992	10,661
197.76	5,000	10,711
197.77	5,009	10,761
197.78	5,017	10,811
197.79	5,026	10,862
197.80	5,035	10,912
197.81	5,043	10,962
197.82	5,052	11,013
197.83	5,060	11,063
197.84	5,069	11,114
197.85	5,077	11,165
197.86	5,086	11,216
197.87	5,095	11,266
197.88	5,103	11,317
197.89	5,112	11,369
197.90	5,120	11,420
197.91	5,129	11,471
197.92	5,137	11,522
197.93	5,146	11,574
197.94	5,155	11,625
197.95	5,163	11,677
197.96	5,172	11,728
197.97	5,180	11,780
197.98	5,189	11,832
197.99	5,197	11,884
198.00	**5,206**	**11,936**

Summary for Pond B-33: Basin #33

Inflow Area = 1.761 ac, 50.99% Impervious, Inflow Depth = 2.15" for Current 2 yr event
Inflow = 3.77 cfs @ 12.17 hrs, Volume= 0.315 af
Outflow = 0.37 cfs @ 13.22 hrs, Volume= 0.229 af, Atten= 90%, Lag= 63.0 min
Primary = 0.37 cfs @ 13.22 hrs, Volume= 0.229 af
Routed to Link PDA-3 : Proposed Drainage Area #3

Routing by Stor-Ind method, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
Peak Elev= 186.31' @ 13.22 hrs Surf.Area= 4,389 sf Storage= 8,747 cf

Plug-Flow detention time= 497.7 min calculated for 0.229 af (73% of inflow)
Center-of-Mass det. time= 401.5 min (1,189.3 - 787.9)

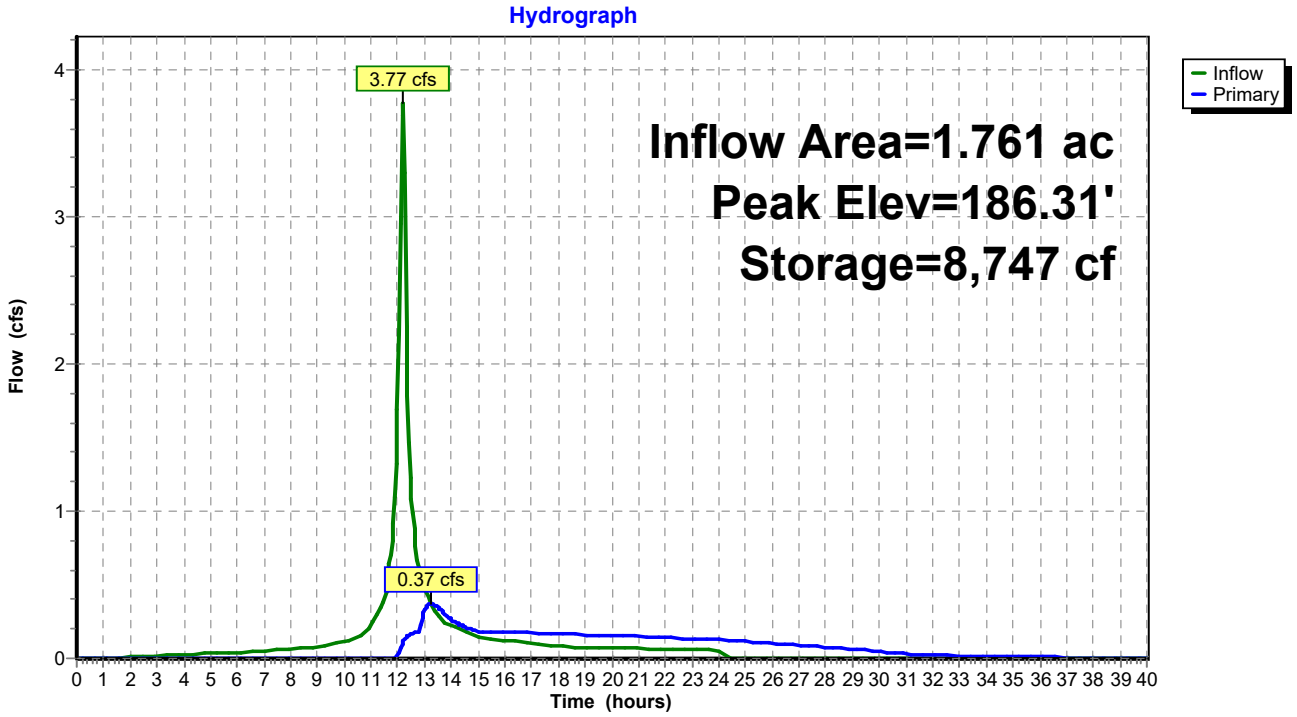
Volume	Invert	Avail.Storage	Storage Description
#1	183.30'	17,481 cf	**Custom Stage Data (Prismatic)** Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
183.30	0	0	0
184.00	2,481	868	868
185.00	3,268	2,875	3,743
186.00	4,111	3,690	7,432
187.00	5,010	4,561	11,993
188.00	5,966	5,488	17,481

Device	Routing	Invert	Outlet Devices
#1	Primary	184.00'	**18.0" Round Culvert** L= 104.0' Ke= 0.500 Inlet / Outlet Invert= 184.00' / 182.00' S= 0.0192 '/' Cc= 0.900 n= 0.013, Flow Area= 1.77 sf
#2	Device 1	184.96'	**2.5" Vert. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#3	Device 1	186.25'	**4.0' long Sharp-Crested Rectangular Weir** 2 End Contraction(s)
#4	Primary	187.75'	**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 @ 13.22 hrs HW=186.31' (Free Discharge)
- **1=Culvert** (Passes 0.37 cfs of 10.62 cfs potential flow)
  - **2=Orifice/Grate** (Orifice Controls 0.18 cfs @ 5.37 fps)
  - **3=Sharp-Crested Rectangular Weir** (Weir Controls 0.19 cfs @ 0.80 fps)
- **4=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)

Pond B-33: Basin #33



Stage-Discharge for Pond B-33: Basin #33

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
183.30	0.00	183.82	0.00	184.34	0.00	184.86	0.00
183.31	0.00	183.83	0.00	184.35	0.00	184.87	0.00
183.32	0.00	183.84	0.00	184.36	0.00	184.88	0.00
183.33	0.00	183.85	0.00	184.37	0.00	184.89	0.00
183.34	0.00	183.86	0.00	184.38	0.00	184.90	0.00
183.35	0.00	183.87	0.00	184.39	0.00	184.91	0.00
183.36	0.00	183.88	0.00	184.40	0.00	184.92	0.00
183.37	0.00	183.89	0.00	184.41	0.00	184.93	0.00
183.38	0.00	183.90	0.00	184.42	0.00	184.94	0.00
183.39	0.00	183.91	0.00	184.43	0.00	184.95	0.00
183.40	0.00	183.92	0.00	184.44	0.00	184.96	0.00
183.41	0.00	183.93	0.00	184.45	0.00	184.97	0.00
183.42	0.00	183.94	0.00	184.46	0.00	184.98	0.00
183.43	0.00	183.95	0.00	184.47	0.00	184.99	0.00
183.44	0.00	183.96	0.00	184.48	0.00	185.00	0.00
183.45	0.00	183.97	0.00	184.49	0.00	185.01	0.00
183.46	0.00	183.98	0.00	184.50	0.00	185.02	0.01
183.47	0.00	183.99	0.00	184.51	0.00	185.03	0.01
183.48	0.00	184.00	0.00	184.52	0.00	185.04	0.01
183.49	0.00	184.01	0.00	184.53	0.00	185.05	0.01
183.50	0.00	184.02	0.00	184.54	0.00	185.06	0.02
183.51	0.00	184.03	0.00	184.55	0.00	185.07	0.02
183.52	0.00	184.04	0.00	184.56	0.00	185.08	0.02
183.53	0.00	184.05	0.00	184.57	0.00	185.09	0.03
183.54	0.00	184.06	0.00	184.58	0.00	185.10	0.03
183.55	0.00	184.07	0.00	184.59	0.00	185.11	0.03
183.56	0.00	184.08	0.00	184.60	0.00	185.12	0.04
183.57	0.00	184.09	0.00	184.61	0.00	185.13	0.04
183.58	0.00	184.10	0.00	184.62	0.00	185.14	0.05
183.59	0.00	184.11	0.00	184.63	0.00	185.15	0.05
183.60	0.00	184.12	0.00	184.64	0.00	185.16	0.05
183.61	0.00	184.13	0.00	184.65	0.00	185.17	0.05
183.62	0.00	184.14	0.00	184.66	0.00	185.18	0.06
183.63	0.00	184.15	0.00	184.67	0.00	185.19	0.06
183.64	0.00	184.16	0.00	184.68	0.00	185.20	0.06
183.65	0.00	184.17	0.00	184.69	0.00	185.21	0.06
183.66	0.00	184.18	0.00	184.70	0.00	185.22	0.06
183.67	0.00	184.19	0.00	184.71	0.00	185.23	0.07
183.68	0.00	184.20	0.00	184.72	0.00	185.24	0.07
183.69	0.00	184.21	0.00	184.73	0.00	185.25	0.07
183.70	0.00	184.22	0.00	184.74	0.00	185.26	0.07
183.71	0.00	184.23	0.00	184.75	0.00	185.27	0.07
183.72	0.00	184.24	0.00	184.76	0.00	185.28	0.08
183.73	0.00	184.25	0.00	184.77	0.00	185.29	0.08
183.74	0.00	184.26	0.00	184.78	0.00	185.30	0.08
183.75	0.00	184.27	0.00	184.79	0.00	185.31	0.08
183.76	0.00	184.28	0.00	184.80	0.00	185.32	0.08
183.77	0.00	184.29	0.00	184.81	0.00	185.33	0.08
183.78	0.00	184.30	0.00	184.82	0.00	185.34	0.09
183.79	0.00	184.31	0.00	184.83	0.00	185.35	0.09
183.80	0.00	184.32	0.00	184.84	0.00	185.36	0.09
183.81	0.00	184.33	0.00	184.85	0.00	185.37	0.09

Stage-Discharge for Pond B-33: Basin #33 (continued)

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
185.38	0.09	185.90	0.15	186.42	1.10	186.94	7.46
185.39	0.09	185.91	0.15	186.43	1.18	186.95	7.62
185.40	0.10	185.92	0.15	186.44	1.27	186.96	7.77
185.41	0.10	185.93	0.15	186.45	1.35	186.97	7.93
185.42	0.10	185.94	0.15	186.46	1.44	186.98	8.09
185.43	0.10	185.95	0.15	186.47	1.53	186.99	8.25
185.44	0.10	185.96	0.16	186.48	1.62	187.00	8.41
185.45	0.10	185.97	0.16	186.49	1.72	187.01	8.57
185.46	0.10	185.98	0.16	186.50	1.81	187.02	8.73
185.47	0.10	185.99	0.16	186.51	1.91	187.03	8.89
185.48	0.11	186.00	0.16	186.52	2.01	187.04	9.05
185.49	0.11	186.01	0.16	186.53	2.11	187.05	9.22
185.50	0.11	186.02	0.16	186.54	2.21	187.06	9.38
185.51	0.11	186.03	0.16	186.55	2.32	187.07	9.55
185.52	0.11	186.04	0.16	186.56	2.42	187.08	9.71
185.53	0.11	186.05	0.16	186.57	2.53	187.09	9.88
185.54	0.11	186.06	0.16	186.58	2.64	187.10	10.05
185.55	0.11	186.07	0.16	186.59	2.75	187.11	10.22
185.56	0.12	186.08	0.17	186.60	2.86	187.12	10.39
185.57	0.12	186.09	0.17	186.61	2.98	187.13	10.56
185.58	0.12	186.10	0.17	186.62	3.09	187.14	10.73
185.59	0.12	186.11	0.17	186.63	3.21	187.15	10.90
185.60	0.12	186.12	0.17	186.64	3.33	187.16	11.08
185.61	0.12	186.13	0.17	186.65	3.45	187.17	11.25
185.62	0.12	186.14	0.17	186.66	3.57	187.18	11.42
185.63	0.12	186.15	0.17	186.67	3.69	187.19	11.60
185.64	0.12	186.16	0.17	186.68	3.82	187.20	11.78
185.65	0.13	186.17	0.17	186.69	3.94	187.21	11.95
185.66	0.13	186.18	0.17	186.70	4.07	187.22	12.13
185.67	0.13	186.19	0.17	186.71	4.20	187.23	12.31
185.68	0.13	186.20	0.17	186.72	4.33	187.24	12.49
185.69	0.13	186.21	0.18	186.73	4.46	187.25	12.67
185.70	0.13	186.22	0.18	186.74	4.59	187.26	12.85
185.71	0.13	186.23	0.18	186.75	4.72	187.27	13.03
185.72	0.13	186.24	0.18	186.76	4.86	187.28	13.21
185.73	0.13	186.25	0.18	186.77	4.99	187.29	13.40
185.74	0.13	186.26	0.19	186.78	5.13	187.30	13.58
185.75	0.14	186.27	0.22	186.79	5.27	187.31	13.61
185.76	0.14	186.28	0.25	186.80	5.40	187.32	13.64
185.77	0.14	186.29	0.29	186.81	5.54	187.33	13.67
185.78	0.14	186.30	0.33	186.82	5.69	187.34	13.69
185.79	0.14	186.31	0.37	186.83	5.83	187.35	13.72
185.80	0.14	186.32	0.43	186.84	5.97	187.36	13.75
185.81	0.14	186.33	0.48	186.85	6.12	187.37	13.77
185.82	0.14	186.34	0.54	186.86	6.26	187.38	13.80
185.83	0.14	186.35	0.60	186.87	6.41	187.39	13.83
185.84	0.14	186.36	0.66	186.88	6.56	187.40	13.85
185.85	0.15	186.37	0.73	186.89	6.70	187.41	13.88
185.86	0.15	186.38	0.80	186.90	6.85	187.42	13.90
185.87	0.15	186.39	0.87	186.91	7.00	187.43	13.93
185.88	0.15	186.40	0.94	186.92	7.16	187.44	13.96
185.89	0.15	186.41	1.02	186.93	7.31	187.45	13.98

Stage-Discharge for Pond B-33: Basin #33 (continued)

Elevation (feet)	Primary (cfs)
187.46	14.01
187.47	14.03
187.48	14.06
187.49	14.08
187.50	14.11
187.51	14.14
187.52	14.16
187.53	14.19
187.54	14.21
187.55	14.24
187.56	14.26
187.57	14.29
187.58	14.31
187.59	14.34
187.60	14.36
187.61	14.39
187.62	14.41
187.63	14.44
187.64	14.46
187.65	14.49
187.66	14.51
187.67	14.54
187.68	14.56
187.69	14.59
187.70	14.61
187.71	14.64
187.72	14.66
187.73	14.69
187.74	14.71
187.75	14.74
187.76	14.88
187.77	15.12
187.78	15.42
187.79	15.77
187.80	16.17
187.81	16.61
187.82	17.08
187.83	17.59
187.84	18.13
187.85	18.70
187.86	19.30
187.87	19.92
187.88	20.57
187.89	21.25
187.90	21.95
187.91	22.67
187.92	23.42
187.93	24.19
187.94	24.98
187.95	25.79
187.96	26.66
187.97	27.55
187.98	28.47
187.99	29.42
188.00	**30.39**

Stage-Area-Storage for Pond B-33: Basin #33

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
183.30	0	0	183.82	1,843	479
183.31	35	0	183.83	1,878	498
183.32	71	1	183.84	1,914	517
183.33	106	2	183.85	1,949	536
183.34	142	3	183.86	1,985	556
183.35	177	4	183.87	2,020	576
183.36	213	6	183.88	2,056	596
183.37	248	9	183.89	2,091	617
183.38	284	11	183.90	2,127	638
183.39	319	14	183.91	2,162	659
183.40	354	18	183.92	2,197	681
183.41	390	21	183.93	2,233	703
183.42	425	26	183.94	2,268	726
183.43	461	30	183.95	2,304	749
183.44	496	35	183.96	2,339	772
183.45	532	40	183.97	2,375	796
183.46	567	45	183.98	2,410	819
183.47	603	51	183.99	2,446	844
183.48	638	57	184.00	2,481	868
183.49	673	64	184.01	2,489	893
183.50	709	71	184.02	2,497	918
183.51	744	78	184.03	2,505	943
183.52	780	86	184.04	2,512	968
183.53	815	94	184.05	2,520	993
183.54	851	102	184.06	2,528	1,019
183.55	886	111	184.07	2,536	1,044
183.56	922	120	184.08	2,544	1,069
183.57	957	129	184.09	2,552	1,095
183.58	992	139	184.10	2,560	1,120
183.59	1,028	149	184.11	2,568	1,146
183.60	1,063	159	184.12	2,575	1,172
183.61	1,099	170	184.13	2,583	1,198
183.62	1,134	181	184.14	2,591	1,223
183.63	1,170	193	184.15	2,599	1,249
183.64	1,205	205	184.16	2,607	1,275
183.65	1,241	217	184.17	2,615	1,301
183.66	1,276	230	184.18	2,623	1,328
183.67	1,311	243	184.19	2,631	1,354
183.68	1,347	256	184.20	2,638	1,380
183.69	1,382	270	184.21	2,646	1,407
183.70	1,418	284	184.22	2,654	1,433
183.71	1,453	298	184.23	2,662	1,460
183.72	1,489	313	184.24	2,670	1,486
183.73	1,524	328	184.25	2,678	1,513
183.74	1,559	343	184.26	2,686	1,540
183.75	1,595	359	184.27	2,693	1,567
183.76	1,630	375	184.28	2,701	1,594
183.77	1,666	391	184.29	2,709	1,621
183.78	1,701	408	184.30	2,717	1,648
183.79	1,737	425	184.31	2,725	1,675
183.80	1,772	443	184.32	2,733	1,703
183.81	1,808	461	184.33	2,741	1,730

Stage-Area-Storage for Pond B-33: Basin #33 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
184.34	2,749	1,757
184.35	2,756	1,785
184.36	2,764	1,813
184.37	2,772	1,840
184.38	2,780	1,868
184.39	2,788	1,896
184.40	2,796	1,924
184.41	2,804	1,952
184.42	2,812	1,980
184.43	2,819	2,008
184.44	2,827	2,036
184.45	2,835	2,064
184.46	2,843	2,093
184.47	2,851	2,121
184.48	2,859	2,150
184.49	2,867	2,179
184.50	2,875	2,207
184.51	2,882	2,236
184.52	2,890	2,265
184.53	2,898	2,294
184.54	2,906	2,323
184.55	2,914	2,352
184.56	2,922	2,381
184.57	2,930	2,410
184.58	2,937	2,440
184.59	2,945	2,469
184.60	2,953	2,499
184.61	2,961	2,528
184.62	2,969	2,558
184.63	2,977	2,588
184.64	2,985	2,617
184.65	2,993	2,647
184.66	3,000	2,677
184.67	3,008	2,707
184.68	3,016	2,737
184.69	3,024	2,768
184.70	3,032	2,798
184.71	3,040	2,828
184.72	3,048	2,859
184.73	3,056	2,889
184.74	3,063	2,920
184.75	3,071	2,950
184.76	3,079	2,981
184.77	3,087	3,012
184.78	3,095	3,043
184.79	3,103	3,074
184.80	3,111	3,105
184.81	3,118	3,136
184.82	3,126	3,167
184.83	3,134	3,199
184.84	3,142	3,230
184.85	3,150	3,262
184.86	3,158	3,293
184.87	3,166	3,325
184.88	3,174	3,356
184.89	3,181	3,388
184.90	3,189	3,420
184.91	3,197	3,452
184.92	3,205	3,484
184.93	3,213	3,516
184.94	3,221	3,548
184.95	3,229	3,580
184.96	3,237	3,613
184.97	3,244	3,645
184.98	3,252	3,678
184.99	3,260	3,710
185.00	3,268	3,743
185.01	3,276	3,776
185.02	3,285	3,808
185.03	3,293	3,841
185.04	3,302	3,874
185.05	3,310	3,907
185.06	3,319	3,940
185.07	3,327	3,974
185.08	3,335	4,007
185.09	3,344	4,040
185.10	3,352	4,074
185.11	3,361	4,107
185.12	3,369	4,141
185.13	3,378	4,175
185.14	3,386	4,209
185.15	3,394	4,243
185.16	3,403	4,277
185.17	3,411	4,311
185.18	3,420	4,345
185.19	3,428	4,379
185.20	3,437	4,413
185.21	3,445	4,448
185.22	3,453	4,482
185.23	3,462	4,517
185.24	3,470	4,551
185.25	3,479	4,586
185.26	3,487	4,621
185.27	3,496	4,656
185.28	3,504	4,691
185.29	3,512	4,726
185.30	3,521	4,761
185.31	3,529	4,796
185.32	3,538	4,832
185.33	3,546	4,867
185.34	3,555	4,903
185.35	3,563	4,938
185.36	3,571	4,974
185.37	3,580	5,010

Stage-Area-Storage for Pond B-33: Basin #33 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
185.38	3,588	5,046	185.90	4,027	7,025
185.39	3,597	5,081	185.91	4,035	7,066
185.40	3,605	5,117	185.92	4,044	7,106
185.41	3,614	5,154	185.93	4,052	7,147
185.42	3,622	5,190	185.94	4,060	7,187
185.43	3,630	5,226	185.95	4,069	7,228
185.44	3,639	5,262	185.96	4,077	7,269
185.45	3,647	5,299	185.97	4,086	7,309
185.46	3,656	5,335	185.98	4,094	7,350
185.47	3,664	5,372	185.99	4,103	7,391
185.48	3,673	5,409	186.00	4,111	7,432
185.49	3,681	5,445	186.01	4,120	7,474
185.50	3,690	5,482	186.02	4,129	7,515
185.51	3,698	5,519	186.03	4,138	7,556
185.52	3,706	5,556	186.04	4,147	7,598
185.53	3,715	5,593	186.05	4,156	7,639
185.54	3,723	5,630	186.06	4,165	7,681
185.55	3,732	5,668	186.07	4,174	7,722
185.56	3,740	5,705	186.08	4,183	7,764
185.57	3,749	5,743	186.09	4,192	7,806
185.58	3,757	5,780	186.10	4,201	7,848
185.59	3,765	5,818	186.11	4,210	7,890
185.60	3,774	5,855	186.12	4,219	7,932
185.61	3,782	5,893	186.13	4,228	7,974
185.62	3,791	5,931	186.14	4,237	8,017
185.63	3,799	5,969	186.15	4,246	8,059
185.64	3,808	6,007	186.16	4,255	8,102
185.65	3,816	6,045	186.17	4,264	8,144
185.66	3,824	6,083	186.18	4,273	8,187
185.67	3,833	6,122	186.19	4,282	8,230
185.68	3,841	6,160	186.20	4,291	8,273
185.69	3,850	6,198	186.21	4,300	8,315
185.70	3,858	6,237	186.22	4,309	8,359
185.71	3,867	6,276	186.23	4,318	8,402
185.72	3,875	6,314	186.24	4,327	8,445
185.73	3,883	6,353	186.25	4,336	8,488
185.74	3,892	6,392	186.26	4,345	8,532
185.75	3,900	6,431	186.27	4,354	8,575
185.76	3,909	6,470	186.28	4,363	8,619
185.77	3,917	6,509	186.29	4,372	8,662
185.78	3,926	6,548	186.30	4,381	8,706
185.79	3,934	6,588	186.31	4,390	8,750
185.80	3,942	6,627	186.32	4,399	8,794
185.81	3,951	6,666	186.33	4,408	8,838
185.82	3,959	6,706	186.34	4,417	8,882
185.83	3,968	6,746	186.35	4,426	8,926
185.84	3,976	6,785	186.36	4,435	8,971
185.85	3,985	6,825	186.37	4,444	9,015
185.86	3,993	6,865	186.38	4,453	9,059
185.87	4,001	6,905	186.39	4,462	9,104
185.88	4,010	6,945	186.40	4,471	9,149
185.89	4,018	6,985	186.41	4,480	9,193

Stage-Area-Storage for Pond B-33: Basin #33 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
186.42	4,489	9,238	186.94	4,956	11,694
186.43	4,498	9,283	186.95	4,965	11,743
186.44	4,507	9,328	186.96	4,974	11,793
186.45	4,516	9,373	186.97	4,983	11,843
186.46	4,525	9,419	186.98	4,992	11,893
186.47	4,534	9,464	186.99	5,001	11,943
186.48	4,543	9,509	187.00	5,010	11,993
186.49	4,552	9,555	187.01	5,020	12,043
186.50	4,561	9,600	187.02	5,029	12,093
186.51	4,569	9,646	187.03	5,039	12,144
186.52	4,578	9,692	187.04	5,048	12,194
186.53	4,587	9,737	187.05	5,058	12,245
186.54	4,596	9,783	187.06	5,067	12,295
186.55	4,605	9,829	187.07	5,077	12,346
186.56	4,614	9,875	187.08	5,086	12,397
186.57	4,623	9,922	187.09	5,096	12,448
186.58	4,632	9,968	187.10	5,106	12,499
186.59	4,641	10,014	187.11	5,115	12,550
186.60	4,650	10,061	187.12	5,125	12,601
186.61	4,659	10,107	187.13	5,134	12,652
186.62	4,668	10,154	187.14	5,144	12,704
186.63	4,677	10,201	187.15	5,153	12,755
186.64	4,686	10,248	187.16	5,163	12,807
186.65	4,695	10,294	187.17	5,173	12,858
186.66	4,704	10,341	187.18	5,182	12,910
186.67	4,713	10,389	187.19	5,192	12,962
186.68	4,722	10,436	187.20	5,201	13,014
186.69	4,731	10,483	187.21	5,211	13,066
186.70	4,740	10,530	187.22	5,220	13,118
186.71	4,749	10,578	187.23	5,230	13,170
186.72	4,758	10,625	187.24	5,239	13,223
186.73	4,767	10,673	187.25	5,249	13,275
186.74	4,776	10,721	187.26	5,259	13,328
186.75	4,785	10,768	187.27	5,268	13,380
186.76	4,794	10,816	187.28	5,278	13,433
186.77	4,803	10,864	187.29	5,287	13,486
186.78	4,812	10,912	187.30	5,297	13,539
186.79	4,821	10,961	187.31	5,306	13,592
186.80	4,830	11,009	187.32	5,316	13,645
186.81	4,839	11,057	187.33	5,325	13,698
186.82	4,848	11,106	187.34	5,335	13,752
186.83	4,857	11,154	187.35	5,345	13,805
186.84	4,866	11,203	187.36	5,354	13,858
186.85	4,875	11,251	187.37	5,364	13,912
186.86	4,884	11,300	187.38	5,373	13,966
186.87	4,893	11,349	187.39	5,383	14,019
186.88	4,902	11,398	187.40	5,392	14,073
186.89	4,911	11,447	187.41	5,402	14,127
186.90	4,920	11,496	187.42	5,412	14,181
186.91	4,929	11,546	187.43	5,421	14,236
186.92	4,938	11,595	187.44	5,431	14,290
186.93	4,947	11,644	187.45	5,440	14,344

Stage-Area-Storage for Pond B-33: Basin #33 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
187.46	5,450	14,399
187.47	5,459	14,453
187.48	5,469	14,508
187.49	5,478	14,563
187.50	5,488	14,617
187.51	5,498	14,672
187.52	5,507	14,727
187.53	5,517	14,782
187.54	5,526	14,838
187.55	5,536	14,893
187.56	5,545	14,948
187.57	5,555	15,004
187.58	5,564	15,059
187.59	5,574	15,115
187.60	5,584	15,171
187.61	5,593	15,227
187.62	5,603	15,283
187.63	5,612	15,339
187.64	5,622	15,395
187.65	5,631	15,451
187.66	5,641	15,508
187.67	5,651	15,564
187.68	5,660	15,621
187.69	5,670	15,677
187.70	5,679	15,734
187.71	5,689	15,791
187.72	5,698	15,848
187.73	5,708	15,905
187.74	5,717	15,962
187.75	5,727	16,019
187.76	5,737	16,077
187.77	5,746	16,134
187.78	5,756	16,191
187.79	5,765	16,249
187.80	5,775	16,307
187.81	5,784	16,365
187.82	5,794	16,422
187.83	5,803	16,480
187.84	5,813	16,539
187.85	5,823	16,597
187.86	5,832	16,655
187.87	5,842	16,713
187.88	5,851	16,772
187.89	5,861	16,830
187.90	5,870	16,889
187.91	5,880	16,948
187.92	5,890	17,007
187.93	5,899	17,066
187.94	5,909	17,125
187.95	5,918	17,184
187.96	5,928	17,243
187.97	5,937	17,302
187.98	5,947	17,362
187.99	5,956	17,421
188.00	**5,966**	**17,481**

Summary for Pond B-34: Basin #34

Inflow Area = 1.779 ac, 23.66% Impervious, Inflow Depth = 1.61" for Current 2 yr event
Inflow = 2.92 cfs @ 12.18 hrs, Volume= 0.238 af
Outflow = 0.15 cfs @ 14.70 hrs, Volume= 0.188 af, Atten= 95%, Lag= 151.4 min
Primary = 0.15 cfs @ 14.70 hrs, Volume= 0.188 af
Routed to Link PDA-3 : Proposed Drainage Area #3

Routing by Stor-Ind method, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
Peak Elev= 192.03' @ 14.70 hrs Surf.Area= 5,370 sf Storage= 6,547 cf

Plug-Flow detention time= 529.2 min calculated for 0.188 af (79% of inflow)
Center-of-Mass det. time= 442.4 min (1,260.1 - 817.7)

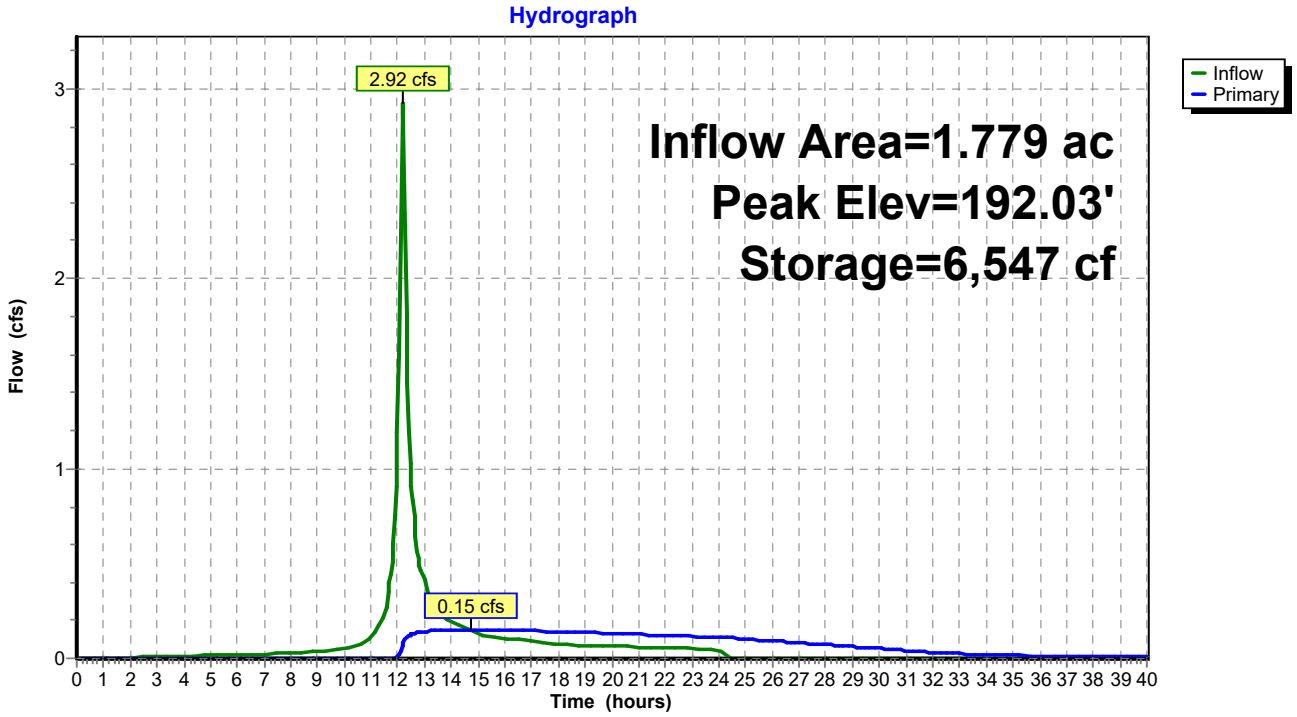
Volume	Invert	Avail.Storage	Storage Description
#1	190.30'	27,449 cf	**Custom Stage Data (Prismatic)** Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
190.30	0	0	0
191.00	4,390	1,536	1,536
192.00	5,343	4,867	6,403
193.00	6,353	5,848	12,251
194.00	7,419	6,886	19,137
195.00	9,205	8,312	27,449

Device	Routing	Invert	Outlet Devices
#1	Primary	189.65'	**18.0" Round Culvert** L= 100.0' Ke= 0.500 Inlet / Outlet Invert= 189.65' / 189.15' S= 0.0050 '/' Cc= 0.900 n= 0.013, Flow Area= 1.77 sf
#2	Device 1	191.09'	**2.5" Vert. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#3	Device 1	192.33'	**4.0' long Sharp-Crested Rectangular Weir** 2 End Contraction(s)
#4	Primary	194.25'	**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 @ 14.70 hrs HW=192.03' (Free Discharge)
- **1=Culvert** (Passes 0.15 cfs of 9.12 cfs potential flow)
  - **2=Orifice/Grate** (Orifice Controls 0.15 cfs @ 4.39 fps)
  - **3=Sharp-Crested Rectangular Weir** (Controls 0.00 cfs)
- **4=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)

Pond B-34: Basin #34



Stage-Discharge for Pond B-34: Basin #34

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
190.30	0.00	190.82	0.00	191.34	0.06	191.86	0.13
190.31	0.00	190.83	0.00	191.35	0.06	191.87	0.13
190.32	0.00	190.84	0.00	191.36	0.07	191.88	0.14
190.33	0.00	190.85	0.00	191.37	0.07	191.89	0.14
190.34	0.00	190.86	0.00	191.38	0.07	191.90	0.14
190.35	0.00	190.87	0.00	191.39	0.07	191.91	0.14
190.36	0.00	190.88	0.00	191.40	0.07	191.92	0.14
190.37	0.00	190.89	0.00	191.41	0.08	191.93	0.14
190.38	0.00	190.90	0.00	191.42	0.08	191.94	0.14
190.39	0.00	190.91	0.00	191.43	0.08	191.95	0.14
190.40	0.00	190.92	0.00	191.44	0.08	191.96	0.14
190.41	0.00	190.93	0.00	191.45	0.08	191.97	0.14
190.42	0.00	190.94	0.00	191.46	0.08	191.98	0.15
190.43	0.00	190.95	0.00	191.47	0.09	191.99	0.15
190.44	0.00	190.96	0.00	191.48	0.09	192.00	0.15
190.45	0.00	190.97	0.00	191.49	0.09	192.01	0.15
190.46	0.00	190.98	0.00	191.50	0.09	192.02	0.15
190.47	0.00	190.99	0.00	191.51	0.09	192.03	0.15
190.48	0.00	191.00	0.00	191.52	0.09	192.04	0.15
190.49	0.00	191.01	0.00	191.53	0.10	192.05	0.15
190.50	0.00	191.02	0.00	191.54	0.10	192.06	0.15
190.51	0.00	191.03	0.00	191.55	0.10	192.07	0.15
190.52	0.00	191.04	0.00	191.56	0.10	192.08	0.15
190.53	0.00	191.05	0.00	191.57	0.10	192.09	0.16
190.54	0.00	191.06	0.00	191.58	0.10	192.10	0.16
190.55	0.00	191.07	0.00	191.59	0.10	192.11	0.16
190.56	0.00	191.08	0.00	191.60	0.10	192.12	0.16
190.57	0.00	191.09	0.00	191.61	0.11	192.13	0.16
190.58	0.00	191.10	0.00	191.62	0.11	192.14	0.16
190.59	0.00	191.11	0.00	191.63	0.11	192.15	0.16
190.60	0.00	191.12	0.00	191.64	0.11	192.16	0.16
190.61	0.00	191.13	0.00	191.65	0.11	192.17	0.16
190.62	0.00	191.14	0.00	191.66	0.11	192.18	0.16
190.63	0.00	191.15	0.01	191.67	0.11	192.19	0.16
190.64	0.00	191.16	0.01	191.68	0.11	192.20	0.16
190.65	0.00	191.17	0.01	191.69	0.12	192.21	0.17
190.66	0.00	191.18	0.01	191.70	0.12	192.22	0.17
190.67	0.00	191.19	0.02	191.71	0.12	192.23	0.17
190.68	0.00	191.20	0.02	191.72	0.12	192.24	0.17
190.69	0.00	191.21	0.02	191.73	0.12	192.25	0.17
190.70	0.00	191.22	0.03	191.74	0.12	192.26	0.17
190.71	0.00	191.23	0.03	191.75	0.12	192.27	0.17
190.72	0.00	191.24	0.03	191.76	0.12	192.28	0.17
190.73	0.00	191.25	0.04	191.77	0.12	192.29	0.17
190.74	0.00	191.26	0.04	191.78	0.13	192.30	0.17
190.75	0.00	191.27	0.05	191.79	0.13	192.31	0.17
190.76	0.00	191.28	0.05	191.80	0.13	192.32	0.17
190.77	0.00	191.29	0.05	191.81	0.13	192.33	0.17
190.78	0.00	191.30	0.05	191.82	0.13	192.34	0.19
190.79	0.00	191.31	0.06	191.83	0.13	192.35	0.21
190.80	0.00	191.32	0.06	191.84	0.13	192.36	0.25
190.81	0.00	191.33	0.06	191.85	0.13	192.37	0.28

Stage-Discharge for Pond B-34: Basin #34 (continued)

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
192.38	0.32	192.90	5.68	193.42	12.94	193.94	14.10
192.39	0.37	192.91	5.83	193.43	12.96	193.95	14.12
192.40	0.42	192.92	5.97	193.44	12.98	193.96	14.14
192.41	0.48	192.93	6.11	193.45	13.01	193.97	14.16
192.42	0.53	192.94	6.26	193.46	13.03	193.98	14.18
192.43	0.59	192.95	6.41	193.47	13.05	193.99	14.21
192.44	0.66	192.96	6.55	193.48	13.08	194.00	14.23
192.45	0.72	192.97	6.70	193.49	13.10	194.01	14.25
192.46	0.79	192.98	6.85	193.50	13.12	194.02	14.27
192.47	0.87	192.99	7.00	193.51	13.14	194.03	14.29
192.48	0.94	193.00	7.15	193.52	13.17	194.04	14.31
192.49	1.02	193.01	7.31	193.53	13.19	194.05	14.33
192.50	1.10	193.02	7.46	193.54	13.21	194.06	14.35
192.51	1.18	193.03	7.61	193.55	13.24	194.07	14.37
192.52	1.26	193.04	7.77	193.56	13.26	194.08	14.40
192.53	1.35	193.05	7.93	193.57	13.28	194.09	14.42
192.54	1.44	193.06	8.08	193.58	13.30	194.10	14.44
192.55	1.53	193.07	8.24	193.59	13.33	194.11	14.46
192.56	1.62	193.08	8.40	193.60	13.35	194.12	14.48
192.57	1.71	193.09	8.56	193.61	13.37	194.13	14.50
192.58	1.81	193.10	8.72	193.62	13.40	194.14	14.52
192.59	1.91	193.11	8.89	193.63	13.42	194.15	14.54
192.60	2.00	193.12	9.05	193.64	13.44	194.16	14.56
192.61	2.11	193.13	9.21	193.65	13.46	194.17	14.58
192.62	2.21	193.14	9.38	193.66	13.49	194.18	14.60
192.63	2.31	193.15	9.54	193.67	13.51	194.19	14.62
192.64	2.42	193.16	9.71	193.68	13.53	194.20	14.64
192.65	2.53	193.17	9.88	193.69	13.55	194.21	14.67
192.66	2.64	193.18	10.05	193.70	13.57	194.22	14.69
192.67	2.75	193.19	10.22	193.71	13.60	194.23	14.71
192.68	2.86	193.20	10.38	193.72	13.62	194.24	14.73
192.69	2.98	193.21	10.56	193.73	13.64	194.25	14.75
192.70	3.09	193.22	10.73	193.74	13.66	194.26	14.89
192.71	3.21	193.23	10.90	193.75	13.69	194.27	15.12
192.72	3.33	193.24	11.07	193.76	13.71	194.28	15.42
192.73	3.45	193.25	11.25	193.77	13.73	194.29	15.77
192.74	3.57	193.26	11.42	193.78	13.75	194.30	16.16
192.75	3.69	193.27	11.60	193.79	13.77	194.31	16.59
192.76	3.81	193.28	11.77	193.80	13.80	194.32	17.06
192.77	3.94	193.29	11.95	193.81	13.82	194.33	17.57
192.78	4.07	193.30	12.13	193.82	13.84	194.34	18.10
192.79	4.19	193.31	12.31	193.83	13.86	194.35	18.67
192.80	4.32	193.32	12.49	193.84	13.88	194.36	19.26
192.81	4.45	193.33	12.67	193.85	13.90	194.37	19.88
192.82	4.59	193.34	12.75	193.86	13.93	194.38	20.53
192.83	4.72	193.35	12.77	193.87	13.95	194.39	21.20
192.84	4.85	193.36	12.80	193.88	13.97	194.40	21.90
192.85	4.99	193.37	12.82	193.89	13.99	194.41	22.62
192.86	5.12	193.38	12.84	193.90	14.01	194.42	23.36
192.87	5.26	193.39	12.87	193.91	14.03	194.43	24.12
192.88	5.40	193.40	12.89	193.92	14.06	194.44	24.91
192.89	5.54	193.41	12.91	193.93	14.08	194.45	25.72

Stage-Discharge for Pond B-34: Basin #34 (continued)

Elevation (feet)	Primary (cfs)
194.46	26.58
194.47	27.48
194.48	28.39
194.49	29.34
194.50	30.30
194.51	31.30
194.52	32.32
194.53	33.36
194.54	34.43
194.55	35.52
194.56	36.64
194.57	37.78
194.58	38.94
194.59	40.13
194.60	41.34
194.61	42.58
194.62	43.84
194.63	45.13
194.64	46.44
194.65	47.78
194.66	49.16
194.67	50.57
194.68	52.01
194.69	53.47
194.70	54.96
194.71	56.48
194.72	58.02
194.73	59.59
194.74	61.18
194.75	62.80
194.76	64.45
194.77	66.12
194.78	67.83
194.79	69.55
194.80	71.31
194.81	73.09
194.82	74.89
194.83	76.73
194.84	78.59
194.85	80.48
194.86	82.12
194.87	83.78
194.88	85.46
194.89	87.14
194.90	88.84
194.91	90.56
194.92	92.28
194.93	94.02
194.94	95.77
194.95	97.54
194.96	99.31
194.97	101.10
194.98	102.91
194.99	104.72
195.00	**106.55**

Stage-Area-Storage for Pond B-34: Basin #34

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
190.30	0	0	190.82	3,261	848
190.31	63	0	190.83	3,324	881
190.32	125	1	190.84	3,387	914
190.33	188	3	190.85	3,449	949
190.34	251	5	190.86	3,512	983
190.35	314	8	190.87	3,575	1,019
190.36	376	11	190.88	3,637	1,055
190.37	439	15	190.89	3,700	1,092
190.38	502	20	190.90	3,763	1,129
190.39	564	25	190.91	3,826	1,167
190.40	627	31	190.92	3,888	1,205
190.41	690	38	190.93	3,951	1,245
190.42	753	45	190.94	4,014	1,284
190.43	815	53	190.95	4,076	1,325
190.44	878	61	190.96	4,139	1,366
190.45	941	71	190.97	4,202	1,408
190.46	1,003	80	190.98	4,265	1,450
190.47	1,066	91	190.99	4,327	1,493
190.48	1,129	102	191.00	4,390	1,536
190.49	1,192	113	191.01	4,400	1,580
190.50	1,254	125	191.02	4,409	1,624
190.51	1,317	138	191.03	4,419	1,669
190.52	1,380	152	191.04	4,428	1,713
190.53	1,442	166	191.05	4,438	1,757
190.54	1,505	181	191.06	4,447	1,802
190.55	1,568	196	191.07	4,457	1,846
190.56	1,631	212	191.08	4,466	1,891
190.57	1,693	229	191.09	4,476	1,935
190.58	1,756	246	191.10	4,485	1,980
190.59	1,819	264	191.11	4,495	2,025
190.60	1,881	282	191.12	4,504	2,070
190.61	1,944	301	191.13	4,514	2,115
190.62	2,007	321	191.14	4,523	2,160
190.63	2,070	341	191.15	4,533	2,206
190.64	2,132	362	191.16	4,542	2,251
190.65	2,195	384	191.17	4,552	2,297
190.66	2,258	406	191.18	4,562	2,342
190.67	2,320	429	191.19	4,571	2,388
190.68	2,383	453	191.20	4,581	2,434
190.69	2,446	477	191.21	4,590	2,479
190.70	2,509	502	191.22	4,600	2,525
190.71	2,571	527	191.23	4,609	2,571
190.72	2,634	553	191.24	4,619	2,618
190.73	2,697	580	191.25	4,628	2,664
190.74	2,759	607	191.26	4,638	2,710
190.75	2,822	635	191.27	4,647	2,757
190.76	2,885	664	191.28	4,657	2,803
190.77	2,948	693	191.29	4,666	2,850
190.78	3,010	722	191.30	4,676	2,896
190.79	3,073	753	191.31	4,685	2,943
190.80	3,136	784	191.32	4,695	2,990
190.81	3,198	816	191.33	4,704	3,037

Stage-Area-Storage for Pond B-34: Basin #34 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
191.34	4,714	3,084	191.86	5,210	5,664
191.35	4,724	3,131	191.87	5,219	5,716
191.36	4,733	3,179	191.88	5,229	5,769
191.37	4,743	3,226	191.89	5,238	5,821
191.38	4,752	3,274	191.90	5,248	5,873
191.39	4,762	3,321	191.91	5,257	5,926
191.40	4,771	3,369	191.92	5,267	5,979
191.41	4,781	3,416	191.93	5,276	6,031
191.42	4,790	3,464	191.94	5,286	6,084
191.43	4,800	3,512	191.95	5,295	6,137
191.44	4,809	3,560	191.96	5,305	6,190
191.45	4,819	3,608	191.97	5,314	6,243
191.46	4,828	3,657	191.98	5,324	6,296
191.47	4,838	3,705	191.99	5,333	6,350
191.48	4,847	3,753	192.00	5,343	6,403
191.49	4,857	3,802	192.01	5,353	6,456
191.50	4,867	3,851	192.02	5,363	6,510
191.51	4,876	3,899	192.03	5,373	6,564
191.52	4,886	3,948	192.04	5,383	6,618
191.53	4,895	3,997	192.05	5,394	6,671
191.54	4,905	4,046	192.06	5,404	6,725
191.55	4,914	4,095	192.07	5,414	6,779
191.56	4,924	4,144	192.08	5,424	6,834
191.57	4,933	4,194	192.09	5,434	6,888
191.58	4,943	4,243	192.10	5,444	6,942
191.59	4,952	4,292	192.11	5,454	6,997
191.60	4,962	4,342	192.12	5,464	7,051
191.61	4,971	4,392	192.13	5,474	7,106
191.62	4,981	4,441	192.14	5,484	7,161
191.63	4,990	4,491	192.15	5,495	7,216
191.64	5,000	4,541	192.16	5,505	7,271
191.65	5,009	4,591	192.17	5,515	7,326
191.66	5,019	4,641	192.18	5,525	7,381
191.67	5,029	4,692	192.19	5,535	7,436
191.68	5,038	4,742	192.20	5,545	7,492
191.69	5,048	4,792	192.21	5,555	7,547
191.70	5,057	4,843	192.22	5,565	7,603
191.71	5,067	4,894	192.23	5,575	7,659
191.72	5,076	4,944	192.24	5,585	7,714
191.73	5,086	4,995	192.25	5,596	7,770
191.74	5,095	5,046	192.26	5,606	7,826
191.75	5,105	5,097	192.27	5,616	7,882
191.76	5,114	5,148	192.28	5,626	7,939
191.77	5,124	5,199	192.29	5,636	7,995
191.78	5,133	5,251	192.30	5,646	8,051
191.79	5,143	5,302	192.31	5,656	8,108
191.80	5,152	5,353	192.32	5,666	8,164
191.81	5,162	5,405	192.33	5,676	8,221
191.82	5,171	5,457	192.34	5,686	8,278
191.83	5,181	5,508	192.35	5,697	8,335
191.84	5,191	5,560	192.36	5,707	8,392
191.85	5,200	5,612	192.37	5,717	8,449

Stage-Area-Storage for Pond B-34: Basin #34 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
192.38	5,727	8,506	192.90	6,252	11,621
192.39	5,737	8,564	192.91	6,262	11,683
192.40	5,747	8,621	192.92	6,272	11,746
192.41	5,757	8,679	192.93	6,282	11,809
192.42	5,767	8,736	192.94	6,292	11,872
192.43	5,777	8,794	192.95	6,303	11,935
192.44	5,787	8,852	192.96	6,313	11,998
192.45	5,798	8,910	192.97	6,323	12,061
192.46	5,808	8,968	192.98	6,333	12,124
192.47	5,818	9,026	192.99	6,343	12,188
192.48	5,828	9,084	193.00	6,353	12,251
192.49	5,838	9,142	193.01	6,364	12,315
192.50	5,848	9,201	193.02	6,374	12,378
192.51	5,858	9,259	193.03	6,385	12,442
192.52	5,868	9,318	193.04	6,396	12,506
192.53	5,878	9,377	193.05	6,406	12,570
192.54	5,888	9,435	193.06	6,417	12,634
192.55	5,899	9,494	193.07	6,428	12,698
192.56	5,909	9,553	193.08	6,438	12,763
192.57	5,919	9,613	193.09	6,449	12,827
192.58	5,929	9,672	193.10	6,460	12,892
192.59	5,939	9,731	193.11	6,470	12,956
192.60	5,949	9,791	193.12	6,481	13,021
192.61	5,959	9,850	193.13	6,492	13,086
192.62	5,969	9,910	193.14	6,502	13,151
192.63	5,979	9,970	193.15	6,513	13,216
192.64	5,989	10,029	193.16	6,524	13,281
192.65	6,000	10,089	193.17	6,534	13,346
192.66	6,010	10,149	193.18	6,545	13,412
192.67	6,020	10,210	193.19	6,556	13,477
192.68	6,030	10,270	193.20	6,566	13,543
192.69	6,040	10,330	193.21	6,577	13,609
192.70	6,050	10,391	193.22	6,588	13,674
192.71	6,060	10,451	193.23	6,598	13,740
192.72	6,070	10,512	193.24	6,609	13,806
192.73	6,080	10,573	193.25	6,620	13,873
192.74	6,090	10,633	193.26	6,630	13,939
192.75	6,101	10,694	193.27	6,641	14,005
192.76	6,111	10,755	193.28	6,651	14,072
192.77	6,121	10,817	193.29	6,662	14,138
192.78	6,131	10,878	193.30	6,673	14,205
192.79	6,141	10,939	193.31	6,683	14,272
192.80	6,151	11,001	193.32	6,694	14,339
192.81	6,161	11,062	193.33	6,705	14,406
192.82	6,171	11,124	193.34	6,715	14,473
192.83	6,181	11,186	193.35	6,726	14,540
192.84	6,191	11,247	193.36	6,737	14,607
192.85	6,202	11,309	193.37	6,747	14,675
192.86	6,212	11,371	193.38	6,758	14,742
192.87	6,222	11,434	193.39	6,769	14,810
192.88	6,232	11,496	193.40	6,779	14,877
192.89	6,242	11,558	193.41	6,790	14,945

Stage-Area-Storage for Pond B-34: Basin #34 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
193.42	6,801	15,013
193.43	6,811	15,081
193.44	6,822	15,150
193.45	6,833	15,218
193.46	6,843	15,286
193.47	6,854	15,355
193.48	6,865	15,423
193.49	6,875	15,492
193.50	6,886	15,561
193.51	6,897	15,630
193.52	6,907	15,699
193.53	6,918	15,768
193.54	6,929	15,837
193.55	6,939	15,906
193.56	6,950	15,976
193.57	6,961	16,045
193.58	6,971	16,115
193.59	6,982	16,185
193.60	6,993	16,255
193.61	7,003	16,325
193.62	7,014	16,395
193.63	7,025	16,465
193.64	7,035	16,535
193.65	7,046	16,606
193.66	7,057	16,676
193.67	7,067	16,747
193.68	7,078	16,817
193.69	7,089	16,888
193.70	7,099	16,959
193.71	7,110	17,030
193.72	7,121	17,101
193.73	7,131	17,173
193.74	7,142	17,244
193.75	7,153	17,316
193.76	7,163	17,387
193.77	7,174	17,459
193.78	7,184	17,531
193.79	7,195	17,603
193.80	7,206	17,675
193.81	7,216	17,747
193.82	7,227	17,819
193.83	7,238	17,891
193.84	7,248	17,964
193.85	7,259	18,036
193.86	7,270	18,109
193.87	7,280	18,182
193.88	7,291	18,254
193.89	7,302	18,327
193.90	7,312	18,400
193.91	7,323	18,474
193.92	7,334	18,547
193.93	7,344	18,620
193.94	7,355	18,694
193.95	7,366	18,767
193.96	7,376	18,841
193.97	7,387	18,915
193.98	7,398	18,989
193.99	7,408	19,063
194.00	7,419	19,137
194.01	7,437	19,211
194.02	7,455	19,286
194.03	7,473	19,360
194.04	7,490	19,435
194.05	7,508	19,510
194.06	7,526	19,585
194.07	7,544	19,661
194.08	7,562	19,736
194.09	7,580	19,812
194.10	7,598	19,888
194.11	7,615	19,964
194.12	7,633	20,040
194.13	7,651	20,117
194.14	7,669	20,193
194.15	7,687	20,270
194.16	7,705	20,347
194.17	7,723	20,424
194.18	7,740	20,501
194.19	7,758	20,579
194.20	7,776	20,657
194.21	7,794	20,734
194.22	7,812	20,812
194.23	7,830	20,891
194.24	7,848	20,969
194.25	7,866	21,048
194.26	7,883	21,126
194.27	7,901	21,205
194.28	7,919	21,284
194.29	7,937	21,364
194.30	7,955	21,443
194.31	7,973	21,523
194.32	7,991	21,603
194.33	8,008	21,683
194.34	8,026	21,763
194.35	8,044	21,843
194.36	8,062	21,924
194.37	8,080	22,004
194.38	8,098	22,085
194.39	8,116	22,166
194.40	8,133	22,247
194.41	8,151	22,329
194.42	8,169	22,411
194.43	8,187	22,492
194.44	8,205	22,574
194.45	8,223	22,656

Stage-Area-Storage for Pond B-34: Basin #34 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
194.46	8,241	22,739
194.47	8,258	22,821
194.48	8,276	22,904
194.49	8,294	22,987
194.50	8,312	23,070
194.51	8,330	23,153
194.52	8,348	23,236
194.53	8,366	23,320
194.54	8,383	23,404
194.55	8,401	23,488
194.56	8,419	23,572
194.57	8,437	23,656
194.58	8,455	23,740
194.59	8,473	23,825
194.60	8,491	23,910
194.61	8,508	23,995
194.62	8,526	24,080
194.63	8,544	24,165
194.64	8,562	24,251
194.65	8,580	24,337
194.66	8,598	24,423
194.67	8,616	24,509
194.68	8,633	24,595
194.69	8,651	24,681
194.70	8,669	24,768
194.71	8,687	24,855
194.72	8,705	24,942
194.73	8,723	25,029
194.74	8,741	25,116
194.75	8,759	25,204
194.76	8,776	25,291
194.77	8,794	25,379
194.78	8,812	25,467
194.79	8,830	25,555
194.80	8,848	25,644
194.81	8,866	25,732
194.82	8,884	25,821
194.83	8,901	25,910
194.84	8,919	25,999
194.85	8,937	26,088
194.86	8,955	26,178
194.87	8,973	26,267
194.88	8,991	26,357
194.89	9,009	26,447
194.90	9,026	26,537
194.91	9,044	26,628
194.92	9,062	26,718
194.93	9,080	26,809
194.94	9,098	26,900
194.95	9,116	26,991
194.96	9,134	27,082
194.97	9,151	27,174
194.98	9,169	27,265
194.99	9,187	27,357
195.00	**9,205**	**27,449**

Summary for Pond B-35: Basin #35

Inflow Area = 1.957 ac, 66.79% Impervious, Inflow Depth = 2.46" for Current 2 yr event
Inflow = 4.75 cfs @ 12.17 hrs, Volume= 0.401 af
Outflow = 0.44 cfs @ 13.25 hrs, Volume= 0.283 af, Atten= 91%, Lag= 64.6 min
Primary = 0.44 cfs @ 13.25 hrs, Volume= 0.283 af
Routed to Link PDA-3 : Proposed Drainage Area #3

Routing by Stor-Ind method, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
Peak Elev= 192.70' @ 13.25 hrs Surf.Area= 5,378 sf Storage= 10,964 cf

Plug-Flow detention time= 354.1 min calculated for 0.282 af (70% of inflow)
Center-of-Mass det. time= 256.7 min (1,033.3 - 776.6)

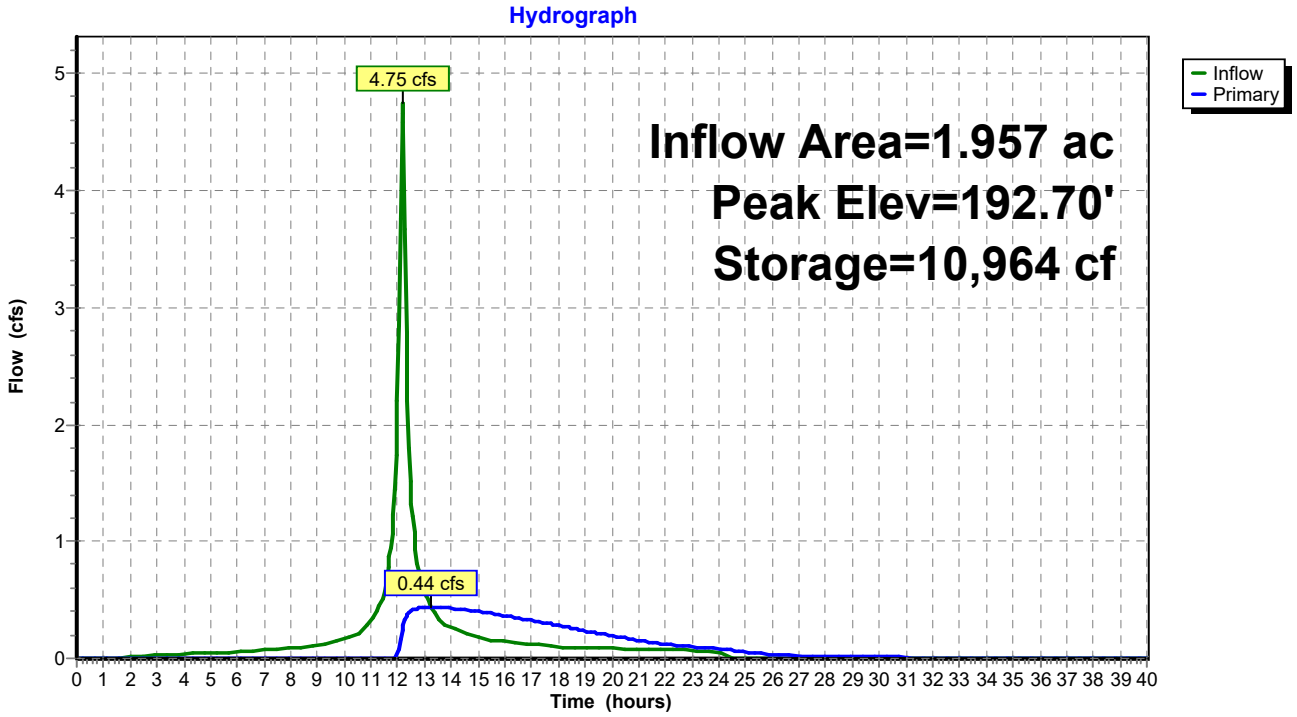
Volume	Invert	Avail.Storage	Storage Description
#1	189.80'	26,431 cf	**Custom Stage Data (Prismatic)** Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
189.80	0	0	0
190.00	2,647	265	265
191.00	3,593	3,120	3,385
192.00	4,618	4,106	7,490
193.00	5,711	5,165	12,655
194.00	6,871	6,291	18,946
195.00	8,099	7,485	26,431

Device	Routing	Invert	Outlet Devices
#1	Primary	189.80'	**18.0" Round Culvert** L= 103.0' Ke= 0.500 Inlet / Outlet Invert= 189.80' / 189.30' S= 0.0049 '/' Cc= 0.900 n= 0.013, Flow Area= 1.77 sf
#2	Device 1	191.44'	**4.0" Vert. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#3	Device 1	193.05'	**4.0' long Sharp-Crested Rectangular Weir** 2 End Contraction(s)
#4	Primary	194.50'	**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=0.44 cfs @ 13.25 hrs HW=192.70' (Free Discharge)
- **1=Culvert** (Passes 0.44 cfs of 10.61 cfs potential flow)
  - **2=Orifice/Grate** (Orifice Controls 0.44 cfs @ 5.02 fps)
  - **3=Sharp-Crested Rectangular Weir** (Controls 0.00 cfs)
- **4=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)

Pond B-35: Basin #35



Stage-Discharge for Pond B-35: Basin #35

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
189.80	0.00	190.32	0.00	190.84	0.00	191.36	0.00
189.81	0.00	190.33	0.00	190.85	0.00	191.37	0.00
189.82	0.00	190.34	0.00	190.86	0.00	191.38	0.00
189.83	0.00	190.35	0.00	190.87	0.00	191.39	0.00
189.84	0.00	190.36	0.00	190.88	0.00	191.40	0.00
189.85	0.00	190.37	0.00	190.89	0.00	191.41	0.00
189.86	0.00	190.38	0.00	190.90	0.00	191.42	0.00
189.87	0.00	190.39	0.00	190.91	0.00	191.43	0.00
189.88	0.00	190.40	0.00	190.92	0.00	191.44	0.00
189.89	0.00	190.41	0.00	190.93	0.00	191.45	0.00
189.90	0.00	190.42	0.00	190.94	0.00	191.46	0.00
189.91	0.00	190.43	0.00	190.95	0.00	191.47	0.00
189.92	0.00	190.44	0.00	190.96	0.00	191.48	0.00
189.93	0.00	190.45	0.00	190.97	0.00	191.49	0.01
189.94	0.00	190.46	0.00	190.98	0.00	191.50	0.01
189.95	0.00	190.47	0.00	190.99	0.00	191.51	0.01
189.96	0.00	190.48	0.00	191.00	0.00	191.52	0.02
189.97	0.00	190.49	0.00	191.01	0.00	191.53	0.02
189.98	0.00	190.50	0.00	191.02	0.00	191.54	0.02
189.99	0.00	190.51	0.00	191.03	0.00	191.55	0.03
190.00	0.00	190.52	0.00	191.04	0.00	191.56	0.03
190.01	0.00	190.53	0.00	191.05	0.00	191.57	0.04
190.02	0.00	190.54	0.00	191.06	0.00	191.58	0.04
190.03	0.00	190.55	0.00	191.07	0.00	191.59	0.05
190.04	0.00	190.56	0.00	191.08	0.00	191.60	0.06
190.05	0.00	190.57	0.00	191.09	0.00	191.61	0.06
190.06	0.00	190.58	0.00	191.10	0.00	191.62	0.07
190.07	0.00	190.59	0.00	191.11	0.00	191.63	0.08
190.08	0.00	190.60	0.00	191.12	0.00	191.64	0.08
190.09	0.00	190.61	0.00	191.13	0.00	191.65	0.09
190.10	0.00	190.62	0.00	191.14	0.00	191.66	0.10
190.11	0.00	190.63	0.00	191.15	0.00	191.67	0.10
190.12	0.00	190.64	0.00	191.16	0.00	191.68	0.11
190.13	0.00	190.65	0.00	191.17	0.00	191.69	0.12
190.14	0.00	190.66	0.00	191.18	0.00	191.70	0.13
190.15	0.00	190.67	0.00	191.19	0.00	191.71	0.13
190.16	0.00	190.68	0.00	191.20	0.00	191.72	0.14
190.17	0.00	190.69	0.00	191.21	0.00	191.73	0.15
190.18	0.00	190.70	0.00	191.22	0.00	191.74	0.15
190.19	0.00	190.71	0.00	191.23	0.00	191.75	0.16
190.20	0.00	190.72	0.00	191.24	0.00	191.76	0.17
190.21	0.00	190.73	0.00	191.25	0.00	191.77	0.17
190.22	0.00	190.74	0.00	191.26	0.00	191.78	0.17
190.23	0.00	190.75	0.00	191.27	0.00	191.79	0.18
190.24	0.00	190.76	0.00	191.28	0.00	191.80	0.18
190.25	0.00	190.77	0.00	191.29	0.00	191.81	0.19
190.26	0.00	190.78	0.00	191.30	0.00	191.82	0.19
190.27	0.00	190.79	0.00	191.31	0.00	191.83	0.20
190.28	0.00	190.80	0.00	191.32	0.00	191.84	0.20
190.29	0.00	190.81	0.00	191.33	0.00	191.85	0.21
190.30	0.00	190.82	0.00	191.34	0.00	191.86	0.21
190.31	0.00	190.83	0.00	191.35	0.00	191.87	0.22

Stage-Discharge for Pond B-35: Basin #35 (continued)

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
191.88	0.22	192.40	0.37	192.92	0.48	193.44	3.69
191.89	0.22	192.41	0.38	192.93	0.48	193.45	3.81
191.90	0.23	192.42	0.38	192.94	0.49	193.46	3.94
191.91	0.23	192.43	0.38	192.95	0.49	193.47	4.06
191.92	0.24	192.44	0.38	192.96	0.49	193.48	4.18
191.93	0.24	192.45	0.39	192.97	0.49	193.49	4.31
191.94	0.24	192.46	0.39	192.98	0.49	193.50	4.44
191.95	0.25	192.47	0.39	192.99	0.49	193.51	4.57
191.96	0.25	192.48	0.39	193.00	0.50	193.52	4.70
191.97	0.25	192.49	0.39	193.01	0.50	193.53	4.83
191.98	0.26	192.50	0.40	193.02	0.50	193.54	4.96
191.99	0.26	192.51	0.40	193.03	0.50	193.55	5.09
192.00	0.26	192.52	0.40	193.04	0.50	193.56	5.23
192.01	0.27	192.53	0.40	193.05	0.50	193.57	5.37
192.02	0.27	192.54	0.41	193.06	0.52	193.58	5.50
192.03	0.27	192.55	0.41	193.07	0.55	193.59	5.64
192.04	0.28	192.56	0.41	193.08	0.58	193.60	5.78
192.05	0.28	192.57	0.41	193.09	0.62	193.61	5.92
192.06	0.28	192.58	0.41	193.10	0.66	193.62	6.06
192.07	0.29	192.59	0.42	193.11	0.71	193.63	6.21
192.08	0.29	192.60	0.42	193.12	0.76	193.64	6.35
192.09	0.29	192.61	0.42	193.13	0.81	193.65	6.50
192.10	0.30	192.62	0.42	193.14	0.87	193.66	6.64
192.11	0.30	192.63	0.43	193.15	0.93	193.67	6.79
192.12	0.30	192.64	0.43	193.16	1.00	193.68	6.94
192.13	0.30	192.65	0.43	193.17	1.07	193.69	7.09
192.14	0.31	192.66	0.43	193.18	1.14	193.70	7.24
192.15	0.31	192.67	0.43	193.19	1.21	193.71	7.39
192.16	0.31	192.68	0.44	193.20	1.28	193.72	7.54
192.17	0.32	192.69	0.44	193.21	1.36	193.73	7.70
192.18	0.32	192.70	0.44	193.22	1.44	193.74	7.85
192.19	0.32	192.71	0.44	193.23	1.53	193.75	8.01
192.20	0.32	192.72	0.44	193.24	1.61	193.76	8.16
192.21	0.33	192.73	0.45	193.25	1.70	193.77	8.32
192.22	0.33	192.74	0.45	193.26	1.79	193.78	8.48
192.23	0.33	192.75	0.45	193.27	1.88	193.79	8.64
192.24	0.33	192.76	0.45	193.28	1.97	193.80	8.80
192.25	0.34	192.77	0.45	193.29	2.06	193.81	8.96
192.26	0.34	192.78	0.46	193.30	2.16	193.82	9.12
192.27	0.34	192.79	0.46	193.31	2.26	193.83	9.29
192.28	0.34	192.80	0.46	193.32	2.36	193.84	9.45
192.29	0.35	192.81	0.46	193.33	2.46	193.85	9.61
192.30	0.35	192.82	0.46	193.34	2.57	193.86	9.78
192.31	0.35	192.83	0.46	193.35	2.67	193.87	9.95
192.32	0.35	192.84	0.47	193.36	2.78	193.88	10.11
192.33	0.36	192.85	0.47	193.37	2.89	193.89	10.28
192.34	0.36	192.86	0.47	193.38	3.00	193.90	10.45
192.35	0.36	192.87	0.47	193.39	3.11	193.91	10.62
192.36	0.36	192.88	0.47	193.40	3.22	193.92	10.79
192.37	0.37	192.89	0.48	193.41	3.34	193.93	10.96
192.38	0.37	192.90	0.48	193.42	3.46	193.94	11.14
192.39	0.37	192.91	0.48	193.43	3.57	193.95	11.31

Stage-Discharge for Pond B-35: Basin #35 (continued)

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
193.96	11.48	194.48	14.79	195.00	**62.86**
193.97	11.66	194.49	14.81		
193.98	11.83	194.50	14.83		
193.99	12.01	194.51	14.97		
194.00	12.19	194.52	15.20		
194.01	12.36	194.53	15.50		
194.02	12.54	194.54	15.85		
194.03	12.72	194.55	16.24		
194.04	12.90	194.56	16.67		
194.05	13.08	194.57	17.14		
194.06	13.26	194.58	17.65		
194.07	13.45	194.59	18.18		
194.08	13.63	194.60	18.75		
194.09	13.81	194.61	19.34		
194.10	14.00	194.62	19.96		
194.11	14.03	194.63	20.61		
194.12	14.05	194.64	21.28		
194.13	14.07	194.65	21.97		
194.14	14.09	194.66	22.69		
194.15	14.11	194.67	23.43		
194.16	14.13	194.68	24.20		
194.17	14.15	194.69	24.98		
194.18	14.17	194.70	25.79		
194.19	14.19	194.71	26.66		
194.20	14.22	194.72	27.55		
194.21	14.24	194.73	28.47		
194.22	14.26	194.74	29.41		
194.23	14.28	194.75	30.38		
194.24	14.30	194.76	31.37		
194.25	14.32	194.77	32.39		
194.26	14.34	194.78	33.43		
194.27	14.36	194.79	34.50		
194.28	14.38	194.80	35.59		
194.29	14.40	194.81	36.70		
194.30	14.42	194.82	37.84		
194.31	14.44	194.83	39.01		
194.32	14.46	194.84	40.20		
194.33	14.48	194.85	41.41		
194.34	14.51	194.86	42.65		
194.35	14.53	194.87	43.91		
194.36	14.55	194.88	45.20		
194.37	14.57	194.89	46.51		
194.38	14.59	194.90	47.84		
194.39	14.61	194.91	49.23		
194.40	14.63	194.92	50.64		
194.41	14.65	194.93	52.07		
194.42	14.67	194.94	53.54		
194.43	14.69	194.95	55.02		
194.44	14.71	194.96	56.54		
194.45	14.73	194.97	58.08		
194.46	14.75	194.98	59.65		
194.47	14.77	194.99	61.24		

Stage-Area-Storage for Pond B-35: Basin #35

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
189.80	0	0
189.81	132	1
189.82	265	3
189.83	397	6
189.84	529	11
189.85	662	17
189.86	794	24
189.87	926	32
189.88	1,059	42
189.89	1,191	54
189.90	1,324	66
189.91	1,456	80
189.92	1,588	95
189.93	1,721	112
189.94	1,853	130
189.95	1,985	149
189.96	2,118	169
189.97	2,250	191
189.98	2,382	214
189.99	2,515	239
190.00	2,647	265
190.01	2,656	291
190.02	2,666	318
190.03	2,675	345
190.04	2,685	371
190.05	2,694	398
190.06	2,704	425
190.07	2,713	452
190.08	2,723	479
190.09	2,732	507
190.10	2,742	534
190.11	2,751	562
190.12	2,761	589
190.13	2,770	617
190.14	2,779	645
190.15	2,789	672
190.16	2,798	700
190.17	2,808	728
190.18	2,817	756
190.19	2,827	785
190.20	2,836	813
190.21	2,846	841
190.22	2,855	870
190.23	2,865	899
190.24	2,874	927
190.25	2,884	956
190.26	2,893	985
190.27	2,902	1,014
190.28	2,912	1,043
190.29	2,921	1,072
190.30	2,931	1,101
190.31	2,940	1,131
190.32	2,950	1,160
190.33	2,959	1,190
190.34	2,969	1,219
190.35	2,978	1,249
190.36	2,988	1,279
190.37	2,997	1,309
190.38	3,006	1,339
190.39	3,016	1,369
190.40	3,025	1,399
190.41	3,035	1,429
190.42	3,044	1,460
190.43	3,054	1,490
190.44	3,063	1,521
190.45	3,073	1,552
190.46	3,082	1,582
190.47	3,092	1,613
190.48	3,101	1,644
190.49	3,111	1,675
190.50	3,120	1,706
190.51	3,129	1,738
190.52	3,139	1,769
190.53	3,148	1,800
190.54	3,158	1,832
190.55	3,167	1,864
190.56	3,177	1,895
190.57	3,186	1,927
190.58	3,196	1,959
190.59	3,205	1,991
190.60	3,215	2,023
190.61	3,224	2,055
190.62	3,234	2,088
190.63	3,243	2,120
190.64	3,252	2,153
190.65	3,262	2,185
190.66	3,271	2,218
190.67	3,281	2,251
190.68	3,290	2,283
190.69	3,300	2,316
190.70	3,309	2,349
190.71	3,319	2,383
190.72	3,328	2,416
190.73	3,338	2,449
190.74	3,347	2,482
190.75	3,357	2,516
190.76	3,366	2,550
190.77	3,375	2,583
190.78	3,385	2,617
190.79	3,394	2,651
190.80	3,404	2,685
190.81	3,413	2,719
190.82	3,423	2,753
190.83	3,432	2,788

Stage-Area-Storage for Pond B-35: Basin #35 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
190.84	3,442	2,822
190.85	3,451	2,856
190.86	3,461	2,891
190.87	3,470	2,926
190.88	3,479	2,960
190.89	3,489	2,995
190.90	3,498	3,030
190.91	3,508	3,065
190.92	3,517	3,100
190.93	3,527	3,136
190.94	3,536	3,171
190.95	3,546	3,206
190.96	3,555	3,242
190.97	3,565	3,277
190.98	3,574	3,313
190.99	3,584	3,349
191.00	3,593	3,385
191.01	3,603	3,421
191.02	3,614	3,457
191.03	3,624	3,493
191.04	3,634	3,529
191.05	3,644	3,566
191.06	3,655	3,602
191.07	3,665	3,639
191.08	3,675	3,675
191.09	3,685	3,712
191.10	3,696	3,749
191.11	3,706	3,786
191.12	3,716	3,823
191.13	3,726	3,860
191.14	3,737	3,898
191.15	3,747	3,935
191.16	3,757	3,973
191.17	3,767	4,010
191.18	3,778	4,048
191.19	3,788	4,086
191.20	3,798	4,124
191.21	3,808	4,162
191.22	3,818	4,200
191.23	3,829	4,238
191.24	3,839	4,277
191.25	3,849	4,315
191.26	3,860	4,354
191.27	3,870	4,392
191.28	3,880	4,431
191.29	3,890	4,470
191.30	3,901	4,509
191.31	3,911	4,548
191.32	3,921	4,587
191.33	3,931	4,626
191.34	3,942	4,666
191.35	3,952	4,705
191.36	3,962	4,745
191.37	3,972	4,784
191.38	3,983	4,824
191.39	3,993	4,864
191.40	4,003	4,904
191.41	4,013	4,944
191.42	4,024	4,984
191.43	4,034	5,024
191.44	4,044	5,065
191.45	4,054	5,105
191.46	4,065	5,146
191.47	4,075	5,187
191.48	4,085	5,227
191.49	4,095	5,268
191.50	4,106	5,309
191.51	4,116	5,350
191.52	4,126	5,392
191.53	4,136	5,433
191.54	4,147	5,474
191.55	4,157	5,516
191.56	4,167	5,557
191.57	4,177	5,599
191.58	4,188	5,641
191.59	4,198	5,683
191.60	4,208	5,725
191.61	4,218	5,767
191.62	4,229	5,809
191.63	4,239	5,852
191.64	4,249	5,894
191.65	4,259	5,937
191.66	4,270	5,979
191.67	4,280	6,022
191.68	4,290	6,065
191.69	4,300	6,108
191.70	4,311	6,151
191.71	4,321	6,194
191.72	4,331	6,237
191.73	4,341	6,281
191.74	4,352	6,324
191.75	4,362	6,368
191.76	4,372	6,411
191.77	4,382	6,455
191.78	4,393	6,499
191.79	4,403	6,543
191.80	4,413	6,587
191.81	4,423	6,631
191.82	4,434	6,676
191.83	4,444	6,720
191.84	4,454	6,764
191.85	4,464	6,809
191.86	4,475	6,854
191.87	4,485	6,899

Stage-Area-Storage for Pond B-35: Basin #35 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
191.88	4,495	6,943	192.40	5,055	9,425
191.89	4,505	6,988	192.41	5,066	9,475
191.90	4,516	7,034	192.42	5,077	9,526
191.91	4,526	7,079	192.43	5,088	9,577
191.92	4,536	7,124	192.44	5,099	9,628
191.93	4,546	7,169	192.45	5,110	9,679
191.94	4,556	7,215	192.46	5,121	9,730
191.95	4,567	7,261	192.47	5,132	9,781
191.96	4,577	7,306	192.48	5,143	9,833
191.97	4,587	7,352	192.49	5,154	9,884
191.98	4,598	7,398	192.50	5,165	9,936
191.99	4,608	7,444	192.51	5,175	9,988
192.00	4,618	7,490	192.52	5,186	10,039
192.01	4,629	7,536	192.53	5,197	10,091
192.02	4,640	7,583	192.54	5,208	10,143
192.03	4,651	7,629	192.55	5,219	10,195
192.04	4,662	7,676	192.56	5,230	10,248
192.05	4,673	7,722	192.57	5,241	10,300
192.06	4,684	7,769	192.58	5,252	10,352
192.07	4,695	7,816	192.59	5,263	10,405
192.08	4,705	7,863	192.60	5,274	10,458
192.09	4,716	7,910	192.61	5,285	10,511
192.10	4,727	7,957	192.62	5,296	10,563
192.11	4,738	8,005	192.63	5,307	10,616
192.12	4,749	8,052	192.64	5,318	10,670
192.13	4,760	8,100	192.65	5,328	10,723
192.14	4,771	8,147	192.66	5,339	10,776
192.15	4,782	8,195	192.67	5,350	10,830
192.16	4,793	8,243	192.68	5,361	10,883
192.17	4,804	8,291	192.69	5,372	10,937
192.18	4,815	8,339	192.70	5,383	10,991
192.19	4,826	8,387	192.71	5,394	11,044
192.20	4,837	8,436	192.72	5,405	11,098
192.21	4,848	8,484	192.73	5,416	11,153
192.22	4,858	8,533	192.74	5,427	11,207
192.23	4,869	8,581	192.75	5,438	11,261
192.24	4,880	8,630	192.76	5,449	11,316
192.25	4,891	8,679	192.77	5,460	11,370
192.26	4,902	8,728	192.78	5,471	11,425
192.27	4,913	8,777	192.79	5,481	11,479
192.28	4,924	8,826	192.80	5,492	11,534
192.29	4,935	8,875	192.81	5,503	11,589
192.30	4,946	8,925	192.82	5,514	11,644
192.31	4,957	8,974	192.83	5,525	11,700
192.32	4,968	9,024	192.84	5,536	11,755
192.33	4,979	9,074	192.85	5,547	11,810
192.34	4,990	9,123	192.86	5,558	11,866
192.35	5,001	9,173	192.87	5,569	11,922
192.36	5,011	9,224	192.88	5,580	11,977
192.37	5,022	9,274	192.89	5,591	12,033
192.38	5,033	9,324	192.90	5,602	12,089
192.39	5,044	9,374	192.91	5,613	12,145

Stage-Area-Storage for Pond B-35: Basin #35 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
192.92	5,624	12,201	193.44	6,221	15,280
192.93	5,634	12,258	193.45	6,233	15,342
192.94	5,645	12,314	193.46	6,245	15,404
192.95	5,656	12,371	193.47	6,256	15,467
192.96	5,667	12,427	193.48	6,268	15,530
192.97	5,678	12,484	193.49	6,279	15,592
192.98	5,689	12,541	193.50	6,291	15,655
192.99	5,700	12,598	193.51	6,303	15,718
193.00	5,711	12,655	193.52	6,314	15,781
193.01	5,723	12,712	193.53	6,326	15,844
193.02	5,734	12,769	193.54	6,337	15,908
193.03	5,746	12,827	193.55	6,349	15,971
193.04	5,757	12,884	193.56	6,361	16,035
193.05	5,769	12,942	193.57	6,372	16,098
193.06	5,781	12,999	193.58	6,384	16,162
193.07	5,792	13,057	193.59	6,395	16,226
193.08	5,804	13,115	193.60	6,407	16,290
193.09	5,815	13,173	193.61	6,419	16,354
193.10	5,827	13,232	193.62	6,430	16,418
193.11	5,839	13,290	193.63	6,442	16,483
193.12	5,850	13,348	193.64	6,453	16,547
193.13	5,862	13,407	193.65	6,465	16,612
193.14	5,873	13,466	193.66	6,477	16,677
193.15	5,885	13,524	193.67	6,488	16,741
193.16	5,897	13,583	193.68	6,500	16,806
193.17	5,908	13,642	193.69	6,511	16,871
193.18	5,920	13,701	193.70	6,523	16,937
193.19	5,931	13,761	193.71	6,535	17,002
193.20	5,943	13,820	193.72	6,546	17,067
193.21	5,955	13,880	193.73	6,558	17,133
193.22	5,966	13,939	193.74	6,569	17,198
193.23	5,978	13,999	193.75	6,581	17,264
193.24	5,989	14,059	193.76	6,593	17,330
193.25	6,001	14,119	193.77	6,604	17,396
193.26	6,013	14,179	193.78	6,616	17,462
193.27	6,024	14,239	193.79	6,627	17,528
193.28	6,036	14,299	193.80	6,639	17,595
193.29	6,047	14,360	193.81	6,651	17,661
193.30	6,059	14,420	193.82	6,662	17,728
193.31	6,071	14,481	193.83	6,674	17,794
193.32	6,082	14,542	193.84	6,685	17,861
193.33	6,094	14,602	193.85	6,697	17,928
193.34	6,105	14,663	193.86	6,709	17,995
193.35	6,117	14,725	193.87	6,720	18,062
193.36	6,129	14,786	193.88	6,732	18,130
193.37	6,140	14,847	193.89	6,743	18,197
193.38	6,152	14,909	193.90	6,755	18,264
193.39	6,163	14,970	193.91	6,767	18,332
193.40	6,175	15,032	193.92	6,778	18,400
193.41	6,187	15,094	193.93	6,790	18,468
193.42	6,198	15,156	193.94	6,801	18,536
193.43	6,210	15,218	193.95	6,813	18,604

Stage-Area-Storage for Pond B-35: Basin #35 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
193.96	6,825	18,672	194.48	7,460	22,385
193.97	6,836	18,740	194.49	7,473	22,460
193.98	6,848	18,809	194.50	7,485	22,535
193.99	6,859	18,877	194.51	7,497	22,610
194.00	6,871	18,946	194.52	7,510	22,685
194.01	6,883	19,014	194.53	7,522	22,760
194.02	6,896	19,083	194.54	7,534	22,835
194.03	6,908	19,152	194.55	7,546	22,910
194.04	6,920	19,222	194.56	7,559	22,986
194.05	6,932	19,291	194.57	7,571	23,062
194.06	6,945	19,360	194.58	7,583	23,137
194.07	6,957	19,430	194.59	7,596	23,213
194.08	6,969	19,499	194.60	7,608	23,289
194.09	6,982	19,569	194.61	7,620	23,365
194.10	6,994	19,639	194.62	7,632	23,442
194.11	7,006	19,709	194.63	7,645	23,518
194.12	7,018	19,779	194.64	7,657	23,595
194.13	7,031	19,849	194.65	7,669	23,671
194.14	7,043	19,920	194.66	7,681	23,748
194.15	7,055	19,990	194.67	7,694	23,825
194.16	7,067	20,061	194.68	7,706	23,902
194.17	7,080	20,132	194.69	7,718	23,979
194.18	7,092	20,202	194.70	7,731	24,056
194.19	7,104	20,273	194.71	7,743	24,134
194.20	7,117	20,344	194.72	7,755	24,211
194.21	7,129	20,416	194.73	7,767	24,289
194.22	7,141	20,487	194.74	7,780	24,366
194.23	7,153	20,559	194.75	7,792	24,444
194.24	7,166	20,630	194.76	7,804	24,522
194.25	7,178	20,702	194.77	7,817	24,600
194.26	7,190	20,774	194.78	7,829	24,679
194.27	7,203	20,846	194.79	7,841	24,757
194.28	7,215	20,918	194.80	7,853	24,835
194.29	7,227	20,990	194.81	7,866	24,914
194.30	7,239	21,062	194.82	7,878	24,993
194.31	7,252	21,135	194.83	7,890	25,072
194.32	7,264	21,207	194.84	7,903	25,151
194.33	7,276	21,280	194.85	7,915	25,230
194.34	7,289	21,353	194.86	7,927	25,309
194.35	7,301	21,426	194.87	7,939	25,388
194.36	7,313	21,499	194.88	7,952	25,468
194.37	7,325	21,572	194.89	7,964	25,547
194.38	7,338	21,645	194.90	7,976	25,627
194.39	7,350	21,719	194.91	7,988	25,707
194.40	7,362	21,792	194.92	8,001	25,787
194.41	7,374	21,866	194.93	8,013	25,867
194.42	7,387	21,940	194.94	8,025	25,947
194.43	7,399	22,014	194.95	8,038	26,027
194.44	7,411	22,088	194.96	8,050	26,108
194.45	7,424	22,162	194.97	8,062	26,188
194.46	7,436	22,236	194.98	8,074	26,269
194.47	7,448	22,311	194.99	8,087	26,350

Stage-Area-Storage for Pond B-35: Basin #35 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
195.00	**8,099**	**26,431**

Summary for Pond B-36A: Basin #36A

Inflow Area = 2.377 ac, 40.60% Impervious, Inflow Depth = 1.94" for Current 2 yr event
Inflow = 4.64 cfs @ 12.17 hrs, Volume= 0.385 af
Outflow = 0.49 cfs @ 13.19 hrs, Volume= 0.291 af, Atten= 89%, Lag= 60.7 min
Primary = 0.49 cfs @ 13.19 hrs, Volume= 0.291 af
Routed to Link PDA-3 : Proposed Drainage Area #3

Routing by Stor-Ind method, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
Peak Elev= 193.77' @ 13.19 hrs Surf.Area= 4,250 sf Storage= 9,650 cf

Plug-Flow detention time= 306.2 min calculated for 0.291 af (76% of inflow)
Center-of-Mass det. time= 214.0 min (1,011.3 - 797.3)

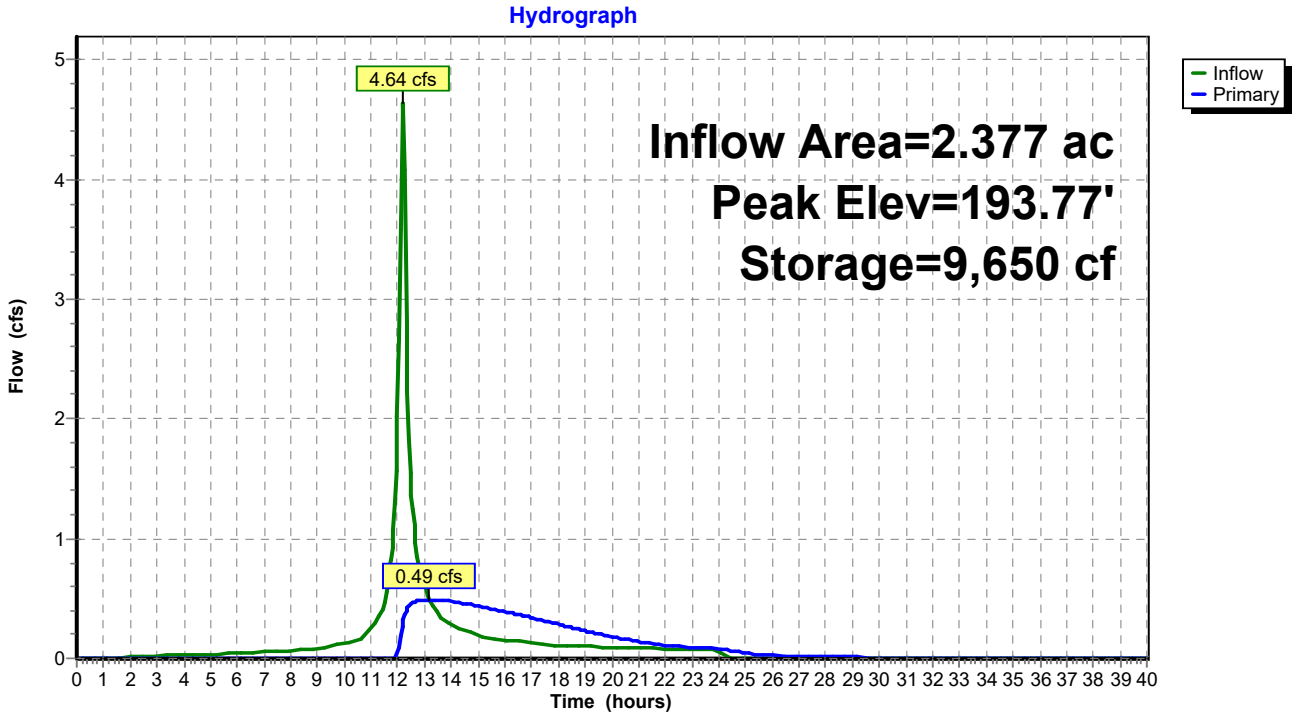
Volume	Invert	Avail.Storage	Storage Description
#1	190.50'	16,844 cf	**Custom Stage Data (Prismatic)** Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
190.50	0	0	0
191.00	2,366	592	592
192.00	2,995	2,681	3,272
193.00	3,681	3,338	6,610
194.00	4,424	4,053	10,663
195.00	5,223	4,824	15,486
195.25	5,644	1,358	16,844

Device	Routing	Invert	Outlet Devices
#1	Primary	190.50'	**18.0" Round Culvert** L= 82.0' Ke= 0.500 Inlet / Outlet Invert= 190.50' / 190.10' S= 0.0049 '/' Cc= 0.900 n= 0.013, Flow Area= 1.77 sf
#2	Device 1	192.24'	**4.0" Vert. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#3	Device 1	194.00'	**4.0' long Sharp-Crested Rectangular Weir** 2 End Contraction(s)
#4	Primary	194.95'	**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=0.49 cfs @ 13.19 hrs HW=193.77' (Free Discharge)
- **1=Culvert** (Passes 0.49 cfs of 12.05 cfs potential flow)
  - **2=Orifice/Grate** (Orifice Controls 0.49 cfs @ 5.61 fps)
  - **3=Sharp-Crested Rectangular Weir** (Controls 0.00 cfs)
- **4=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)

Pond B-36A: Basin #36A



Stage-Discharge for Pond B-36A: Basin #36A

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
190.50	0.00	191.02	0.00	191.54	0.00	192.06	0.00
190.51	0.00	191.03	0.00	191.55	0.00	192.07	0.00
190.52	0.00	191.04	0.00	191.56	0.00	192.08	0.00
190.53	0.00	191.05	0.00	191.57	0.00	192.09	0.00
190.54	0.00	191.06	0.00	191.58	0.00	192.10	0.00
190.55	0.00	191.07	0.00	191.59	0.00	192.11	0.00
190.56	0.00	191.08	0.00	191.60	0.00	192.12	0.00
190.57	0.00	191.09	0.00	191.61	0.00	192.13	0.00
190.58	0.00	191.10	0.00	191.62	0.00	192.14	0.00
190.59	0.00	191.11	0.00	191.63	0.00	192.15	0.00
190.60	0.00	191.12	0.00	191.64	0.00	192.16	0.00
190.61	0.00	191.13	0.00	191.65	0.00	192.17	0.00
190.62	0.00	191.14	0.00	191.66	0.00	192.18	0.00
190.63	0.00	191.15	0.00	191.67	0.00	192.19	0.00
190.64	0.00	191.16	0.00	191.68	0.00	192.20	0.00
190.65	0.00	191.17	0.00	191.69	0.00	192.21	0.00
190.66	0.00	191.18	0.00	191.70	0.00	192.22	0.00
190.67	0.00	191.19	0.00	191.71	0.00	192.23	0.00
190.68	0.00	191.20	0.00	191.72	0.00	192.24	0.00
190.69	0.00	191.21	0.00	191.73	0.00	192.25	0.00
190.70	0.00	191.22	0.00	191.74	0.00	192.26	0.00
190.71	0.00	191.23	0.00	191.75	0.00	192.27	0.00
190.72	0.00	191.24	0.00	191.76	0.00	192.28	0.00
190.73	0.00	191.25	0.00	191.77	0.00	192.29	0.01
190.74	0.00	191.26	0.00	191.78	0.00	192.30	0.01
190.75	0.00	191.27	0.00	191.79	0.00	192.31	0.01
190.76	0.00	191.28	0.00	191.80	0.00	192.32	0.02
190.77	0.00	191.29	0.00	191.81	0.00	192.33	0.02
190.78	0.00	191.30	0.00	191.82	0.00	192.34	0.02
190.79	0.00	191.31	0.00	191.83	0.00	192.35	0.03
190.80	0.00	191.32	0.00	191.84	0.00	192.36	0.03
190.81	0.00	191.33	0.00	191.85	0.00	192.37	0.04
190.82	0.00	191.34	0.00	191.86	0.00	192.38	0.04
190.83	0.00	191.35	0.00	191.87	0.00	192.39	0.05
190.84	0.00	191.36	0.00	191.88	0.00	192.40	0.06
190.85	0.00	191.37	0.00	191.89	0.00	192.41	0.06
190.86	0.00	191.38	0.00	191.90	0.00	192.42	0.07
190.87	0.00	191.39	0.00	191.91	0.00	192.43	0.08
190.88	0.00	191.40	0.00	191.92	0.00	192.44	0.08
190.89	0.00	191.41	0.00	191.93	0.00	192.45	0.09
190.90	0.00	191.42	0.00	191.94	0.00	192.46	0.10
190.91	0.00	191.43	0.00	191.95	0.00	192.47	0.10
190.92	0.00	191.44	0.00	191.96	0.00	192.48	0.11
190.93	0.00	191.45	0.00	191.97	0.00	192.49	0.12
190.94	0.00	191.46	0.00	191.98	0.00	192.50	0.13
190.95	0.00	191.47	0.00	191.99	0.00	192.51	0.13
190.96	0.00	191.48	0.00	192.00	0.00	192.52	0.14
190.97	0.00	191.49	0.00	192.01	0.00	192.53	0.15
190.98	0.00	191.50	0.00	192.02	0.00	192.54	0.15
190.99	0.00	191.51	0.00	192.03	0.00	192.55	0.16
191.00	0.00	191.52	0.00	192.04	0.00	192.56	0.17
191.01	0.00	191.53	0.00	192.05	0.00	192.57	0.17

Stage-Discharge for Pond B-36A: Basin #36A (continued)

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
192.58	0.17	193.10	0.35	193.62	0.46	194.14	1.23
192.59	0.18	193.11	0.35	193.63	0.46	194.15	1.31
192.60	0.18	193.12	0.35	193.64	0.47	194.16	1.39
192.61	0.19	193.13	0.36	193.65	0.47	194.17	1.47
192.62	0.19	193.14	0.36	193.66	0.47	194.18	1.55
192.63	0.20	193.15	0.36	193.67	0.47	194.19	1.63
192.64	0.20	193.16	0.36	193.68	0.47	194.20	1.72
192.65	0.21	193.17	0.37	193.69	0.48	194.21	1.81
192.66	0.21	193.18	0.37	193.70	0.48	194.22	1.90
192.67	0.22	193.19	0.37	193.71	0.48	194.23	1.99
192.68	0.22	193.20	0.37	193.72	0.48	194.24	2.09
192.69	0.22	193.21	0.38	193.73	0.48	194.25	2.19
192.70	0.23	193.22	0.38	193.74	0.49	194.26	2.28
192.71	0.23	193.23	0.38	193.75	0.49	194.27	2.38
192.72	0.24	193.24	0.38	193.76	0.49	194.28	2.49
192.73	0.24	193.25	0.39	193.77	0.49	194.29	2.59
192.74	0.24	193.26	0.39	193.78	0.49	194.30	2.70
192.75	0.25	193.27	0.39	193.79	0.49	194.31	2.80
192.76	0.25	193.28	0.39	193.80	0.50	194.32	2.91
192.77	0.25	193.29	0.39	193.81	0.50	194.33	3.02
192.78	0.26	193.30	0.40	193.82	0.50	194.34	3.13
192.79	0.26	193.31	0.40	193.83	0.50	194.35	3.25
192.80	0.26	193.32	0.40	193.84	0.50	194.36	3.36
192.81	0.27	193.33	0.40	193.85	0.50	194.37	3.48
192.82	0.27	193.34	0.41	193.86	0.51	194.38	3.60
192.83	0.27	193.35	0.41	193.87	0.51	194.39	3.72
192.84	0.28	193.36	0.41	193.88	0.51	194.40	3.84
192.85	0.28	193.37	0.41	193.89	0.51	194.41	3.96
192.86	0.28	193.38	0.41	193.90	0.51	194.42	4.08
192.87	0.29	193.39	0.42	193.91	0.52	194.43	4.21
192.88	0.29	193.40	0.42	193.92	0.52	194.44	4.33
192.89	0.29	193.41	0.42	193.93	0.52	194.45	4.46
192.90	0.30	193.42	0.42	193.94	0.52	194.46	4.59
192.91	0.30	193.43	0.43	193.95	0.52	194.47	4.72
192.92	0.30	193.44	0.43	193.96	0.52	194.48	4.85
192.93	0.30	193.45	0.43	193.97	0.53	194.49	4.98
192.94	0.31	193.46	0.43	193.98	0.53	194.50	5.12
192.95	0.31	193.47	0.43	193.99	0.53	194.51	5.25
192.96	0.31	193.48	0.44	194.00	0.53	194.52	5.39
192.97	0.32	193.49	0.44	194.01	0.55	194.53	5.53
192.98	0.32	193.50	0.44	194.02	0.57	194.54	5.66
192.99	0.32	193.51	0.44	194.03	0.60	194.55	5.80
193.00	0.32	193.52	0.44	194.04	0.64	194.56	5.94
193.01	0.33	193.53	0.45	194.05	0.68	194.57	6.09
193.02	0.33	193.54	0.45	194.06	0.73	194.58	6.23
193.03	0.33	193.55	0.45	194.07	0.78	194.59	6.37
193.04	0.33	193.56	0.45	194.08	0.84	194.60	6.52
193.05	0.34	193.57	0.45	194.09	0.90	194.61	6.67
193.06	0.34	193.58	0.46	194.10	0.96	194.62	6.81
193.07	0.34	193.59	0.46	194.11	1.02	194.63	6.96
193.08	0.34	193.60	0.46	194.12	1.09	194.64	7.11
193.09	0.35	193.61	0.46	194.13	1.16	194.65	7.26

Stage-Discharge for Pond B-36A: Basin #36A (continued)

Elevation (feet)	Primary (cfs)
194.66	7.41
194.67	7.57
194.68	7.72
194.69	7.87
194.70	8.03
194.71	8.19
194.72	8.34
194.73	8.50
194.74	8.66
194.75	8.82
194.76	8.98
194.77	9.14
194.78	9.31
194.79	9.47
194.80	9.63
194.81	9.80
194.82	9.97
194.83	10.13
194.84	10.30
194.85	10.47
194.86	10.64
194.87	10.81
194.88	10.98
194.89	11.16
194.90	11.33
194.91	11.50
194.92	11.68
194.93	11.85
194.94	12.03
194.95	12.21
194.96	12.50
194.97	12.89
194.98	13.35
194.99	13.86
195.00	14.41
195.01	15.01
195.02	15.64
195.03	16.31
195.04	17.01
195.05	17.74
195.06	18.49
195.07	19.28
195.08	20.09
195.09	20.93
195.10	21.80
195.11	22.68
195.12	23.60
195.13	24.40
195.14	25.18
195.15	25.99
195.16	26.86
195.17	27.75
195.18	28.67
195.19	29.62
195.20	30.59
195.21	31.58
195.22	32.60
195.23	33.65
195.24	34.72
195.25	**35.81**

Stage-Area-Storage for Pond B-36A: Basin #36A

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
190.50	0	0
190.51	47	0
190.52	95	1
190.53	142	2
190.54	189	4
190.55	237	6
190.56	284	9
190.57	331	12
190.58	379	15
190.59	426	19
190.60	473	24
190.61	521	29
190.62	568	34
190.63	615	40
190.64	662	46
190.65	710	53
190.66	757	61
190.67	804	68
190.68	852	77
190.69	899	85
190.70	946	95
190.71	994	104
190.72	1,041	115
190.73	1,088	125
190.74	1,136	136
190.75	1,183	148
190.76	1,230	160
190.77	1,278	172
190.78	1,325	185
190.79	1,372	199
190.80	1,420	213
190.81	1,467	227
190.82	1,514	242
190.83	1,562	258
190.84	1,609	274
190.85	1,656	290
190.86	1,704	307
190.87	1,751	324
190.88	1,798	342
190.89	1,845	360
190.90	1,893	379
190.91	1,940	398
190.92	1,987	417
190.93	2,035	437
190.94	2,082	458
190.95	2,129	479
190.96	2,177	501
190.97	2,224	523
190.98	2,271	545
190.99	2,319	568
191.00	2,366	592
191.01	2,372	615
191.02	2,379	639
191.03	2,385	663
191.04	2,391	687
191.05	2,397	711
191.06	2,404	735
191.07	2,410	759
191.08	2,416	783
191.09	2,423	807
191.10	2,429	831
191.11	2,435	856
191.12	2,441	880
191.13	2,448	904
191.14	2,454	929
191.15	2,460	953
191.16	2,467	978
191.17	2,473	1,003
191.18	2,479	1,028
191.19	2,486	1,052
191.20	2,492	1,077
191.21	2,498	1,102
191.22	2,504	1,127
191.23	2,511	1,152
191.24	2,517	1,177
191.25	2,523	1,203
191.26	2,530	1,228
191.27	2,536	1,253
191.28	2,542	1,279
191.29	2,548	1,304
191.30	2,555	1,330
191.31	2,561	1,355
191.32	2,567	1,381
191.33	2,574	1,407
191.34	2,580	1,432
191.35	2,586	1,458
191.36	2,592	1,484
191.37	2,599	1,510
191.38	2,605	1,536
191.39	2,611	1,562
191.40	2,618	1,588
191.41	2,624	1,614
191.42	2,630	1,641
191.43	2,636	1,667
191.44	2,643	1,693
191.45	2,649	1,720
191.46	2,655	1,746
191.47	2,662	1,773
191.48	2,668	1,800
191.49	2,674	1,826
191.50	2,681	1,853
191.51	2,687	1,880
191.52	2,693	1,907
191.53	2,699	1,934

Stage-Area-Storage for Pond B-36A: Basin #36A (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
191.54	2,706	1,961
191.55	2,712	1,988
191.56	2,718	2,015
191.57	2,725	2,042
191.58	2,731	2,070
191.59	2,737	2,097
191.60	2,743	2,124
191.61	2,750	2,152
191.62	2,756	2,179
191.63	2,762	2,207
191.64	2,769	2,235
191.65	2,775	2,262
191.66	2,781	2,290
191.67	2,787	2,318
191.68	2,794	2,346
191.69	2,800	2,374
191.70	2,806	2,402
191.71	2,813	2,430
191.72	2,819	2,458
191.73	2,825	2,486
191.74	2,831	2,515
191.75	2,838	2,543
191.76	2,844	2,571
191.77	2,850	2,600
191.78	2,857	2,628
191.79	2,863	2,657
191.80	2,869	2,686
191.81	2,875	2,714
191.82	2,882	2,743
191.83	2,888	2,772
191.84	2,894	2,801
191.85	2,901	2,830
191.86	2,907	2,859
191.87	2,913	2,888
191.88	2,920	2,917
191.89	2,926	2,946
191.90	2,932	2,976
191.91	2,938	3,005
191.92	2,945	3,034
191.93	2,951	3,064
191.94	2,957	3,093
191.95	2,964	3,123
191.96	2,970	3,153
191.97	2,976	3,182
191.98	2,982	3,212
191.99	2,989	3,242
192.00	2,995	3,272
192.01	3,002	3,302
192.02	3,009	3,332
192.03	3,016	3,362
192.04	3,022	3,392
192.05	3,029	3,423
192.06	3,036	3,453
192.07	3,043	3,483
192.08	3,050	3,514
192.09	3,057	3,544
192.10	3,064	3,575
192.11	3,070	3,606
192.12	3,077	3,636
192.13	3,084	3,667
192.14	3,091	3,698
192.15	3,098	3,729
192.16	3,105	3,760
192.17	3,112	3,791
192.18	3,118	3,822
192.19	3,125	3,853
192.20	3,132	3,885
192.21	3,139	3,916
192.22	3,146	3,948
192.23	3,153	3,979
192.24	3,160	4,011
192.25	3,167	4,042
192.26	3,173	4,074
192.27	3,180	4,106
192.28	3,187	4,137
192.29	3,194	4,169
192.30	3,201	4,201
192.31	3,208	4,233
192.32	3,215	4,266
192.33	3,221	4,298
192.34	3,228	4,330
192.35	3,235	4,362
192.36	3,242	4,395
192.37	3,249	4,427
192.38	3,256	4,460
192.39	3,263	4,492
192.40	3,269	4,525
192.41	3,276	4,558
192.42	3,283	4,590
192.43	3,290	4,623
192.44	3,297	4,656
192.45	3,304	4,689
192.46	3,311	4,722
192.47	3,317	4,755
192.48	3,324	4,789
192.49	3,331	4,822
192.50	3,338	4,855
192.51	3,345	4,889
192.52	3,352	4,922
192.53	3,359	4,956
192.54	3,365	4,989
192.55	3,372	5,023
192.56	3,379	5,057
192.57	3,386	5,091

Stage-Area-Storage for Pond B-36A: Basin #36A (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
192.58	3,393	5,124
192.59	3,400	5,158
192.60	3,407	5,192
192.61	3,413	5,227
192.62	3,420	5,261
192.63	3,427	5,295
192.64	3,434	5,329
192.65	3,441	5,364
192.66	3,448	5,398
192.67	3,455	5,433
192.68	3,461	5,467
192.69	3,468	5,502
192.70	3,475	5,537
192.71	3,482	5,571
192.72	3,489	5,606
192.73	3,496	5,641
192.74	3,503	5,676
192.75	3,510	5,711
192.76	3,516	5,746
192.77	3,523	5,782
192.78	3,530	5,817
192.79	3,537	5,852
192.80	3,544	5,888
192.81	3,551	5,923
192.82	3,558	5,959
192.83	3,564	5,994
192.84	3,571	6,030
192.85	3,578	6,066
192.86	3,585	6,101
192.87	3,592	6,137
192.88	3,599	6,173
192.89	3,606	6,209
192.90	3,612	6,245
192.91	3,619	6,281
192.92	3,626	6,318
192.93	3,633	6,354
192.94	3,640	6,390
192.95	3,647	6,427
192.96	3,654	6,463
192.97	3,660	6,500
192.98	3,667	6,537
192.99	3,674	6,573
193.00	3,681	6,610
193.01	3,688	6,647
193.02	3,696	6,684
193.03	3,703	6,721
193.04	3,711	6,758
193.05	3,718	6,795
193.06	3,726	6,832
193.07	3,733	6,869
193.08	3,740	6,907
193.09	3,748	6,944
193.10	3,755	6,982
193.11	3,763	7,019
193.12	3,770	7,057
193.13	3,778	7,095
193.14	3,785	7,133
193.15	3,792	7,171
193.16	3,800	7,208
193.17	3,807	7,247
193.18	3,815	7,285
193.19	3,822	7,323
193.20	3,830	7,361
193.21	3,837	7,399
193.22	3,844	7,438
193.23	3,852	7,476
193.24	3,859	7,515
193.25	3,867	7,553
193.26	3,874	7,592
193.27	3,882	7,631
193.28	3,889	7,670
193.29	3,896	7,709
193.30	3,904	7,748
193.31	3,911	7,787
193.32	3,919	7,826
193.33	3,926	7,865
193.34	3,934	7,904
193.35	3,941	7,944
193.36	3,948	7,983
193.37	3,956	8,023
193.38	3,963	8,062
193.39	3,971	8,102
193.40	3,978	8,142
193.41	3,986	8,182
193.42	3,993	8,222
193.43	4,000	8,262
193.44	4,008	8,302
193.45	4,015	8,342
193.46	4,023	8,382
193.47	4,030	8,422
193.48	4,038	8,462
193.49	4,045	8,503
193.50	4,053	8,543
193.51	4,060	8,584
193.52	4,067	8,625
193.53	4,075	8,665
193.54	4,082	8,706
193.55	4,090	8,747
193.56	4,097	8,788
193.57	4,105	8,829
193.58	4,112	8,870
193.59	4,119	8,911
193.60	4,127	8,952
193.61	4,134	8,994

Stage-Area-Storage for Pond B-36A: Basin #36A (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
193.62	4,142	9,035	194.14	4,536	11,290
193.63	4,149	9,076	194.15	4,544	11,335
193.64	4,157	9,118	194.16	4,552	11,381
193.65	4,164	9,160	194.17	4,560	11,426
193.66	4,171	9,201	194.18	4,568	11,472
193.67	4,179	9,243	194.19	4,576	11,517
193.68	4,186	9,285	194.20	4,584	11,563
193.69	4,194	9,327	194.21	4,592	11,609
193.70	4,201	9,369	194.22	4,600	11,655
193.71	4,209	9,411	194.23	4,608	11,701
193.72	4,216	9,453	194.24	4,616	11,747
193.73	4,223	9,495	194.25	4,624	11,793
193.74	4,231	9,537	194.26	4,632	11,840
193.75	4,238	9,580	194.27	4,640	11,886
193.76	4,246	9,622	194.28	4,648	11,933
193.77	4,253	9,665	194.29	4,656	11,979
193.78	4,261	9,707	194.30	4,664	12,026
193.79	4,268	9,750	194.31	4,672	12,072
193.80	4,275	9,793	194.32	4,680	12,119
193.81	4,283	9,835	194.33	4,688	12,166
193.82	4,290	9,878	194.34	4,696	12,213
193.83	4,298	9,921	194.35	4,704	12,260
193.84	4,305	9,964	194.36	4,712	12,307
193.85	4,313	10,007	194.37	4,720	12,354
193.86	4,320	10,050	194.38	4,728	12,401
193.87	4,327	10,094	194.39	4,736	12,449
193.88	4,335	10,137	194.40	4,744	12,496
193.89	4,342	10,180	194.41	4,752	12,543
193.90	4,350	10,224	194.42	4,760	12,591
193.91	4,357	10,267	194.43	4,768	12,639
193.92	4,365	10,311	194.44	4,776	12,686
193.93	4,372	10,355	194.45	4,784	12,734
193.94	4,379	10,398	194.46	4,792	12,782
193.95	4,387	10,442	194.47	4,800	12,830
193.96	4,394	10,486	194.48	4,808	12,878
193.97	4,402	10,530	194.49	4,816	12,926
193.98	4,409	10,574	194.50	4,824	12,974
193.99	4,417	10,618	194.51	4,831	13,023
194.00	4,424	10,663	194.52	4,839	13,071
194.01	4,432	10,707	194.53	4,847	13,119
194.02	4,440	10,751	194.54	4,855	13,168
194.03	4,448	10,796	194.55	4,863	13,217
194.04	4,456	10,840	194.56	4,871	13,265
194.05	4,464	10,885	194.57	4,879	13,314
194.06	4,472	10,929	194.58	4,887	13,363
194.07	4,480	10,974	194.59	4,895	13,412
194.08	4,488	11,019	194.60	4,903	13,461
194.09	4,496	11,064	194.61	4,911	13,510
194.10	4,504	11,109	194.62	4,919	13,559
194.11	4,512	11,154	194.63	4,927	13,608
194.12	4,520	11,199	194.64	4,935	13,657
194.13	4,528	11,244	194.65	4,943	13,707

Stage-Area-Storage for Pond B-36A: Basin #36A (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
194.66	4,951	13,756
194.67	4,959	13,806
194.68	4,967	13,856
194.69	4,975	13,905
194.70	4,983	13,955
194.71	4,991	14,005
194.72	4,999	14,055
194.73	5,007	14,105
194.74	5,015	14,155
194.75	5,023	14,205
194.76	5,031	14,255
194.77	5,039	14,306
194.78	5,047	14,356
194.79	5,055	14,407
194.80	5,063	14,457
194.81	5,071	14,508
194.82	5,079	14,559
194.83	5,087	14,610
194.84	5,095	14,661
194.85	5,103	14,712
194.86	5,111	14,763
194.87	5,119	14,814
194.88	5,127	14,865
194.89	5,135	14,916
194.90	5,143	14,968
194.91	5,151	15,019
194.92	5,159	15,071
194.93	5,167	15,122
194.94	5,175	15,174
194.95	5,183	15,226
194.96	5,191	15,278
194.97	5,199	15,330
194.98	5,207	15,382
194.99	5,215	15,434
195.00	5,223	15,486
195.01	5,240	15,538
195.02	5,257	15,591
195.03	5,274	15,643
195.04	5,290	15,696
195.05	5,307	15,749
195.06	5,324	15,802
195.07	5,341	15,856
195.08	5,358	15,909
195.09	5,375	15,963
195.10	5,391	16,017
195.11	5,408	16,071
195.12	5,425	16,125
195.13	5,442	16,179
195.14	5,459	16,234
195.15	5,476	16,288
195.16	5,492	16,343
195.17	5,509	16,398
195.18	5,526	16,453
195.19	5,543	16,509
195.20	5,560	16,564
195.21	5,577	16,620
195.22	5,593	16,676
195.23	5,610	16,732
195.24	5,627	16,788
195.25	**5,644**	**16,844**

Summary for Pond B-36B: Basin #36B

Inflow Area = 2.469 ac, 46.54% Impervious, Inflow Depth = 2.06" for Current 2 yr event
Inflow = 5.09 cfs @ 12.17 hrs, Volume= 0.424 af
Outflow = 2.45 cfs @ 12.35 hrs, Volume= 0.316 af, Atten= 52%, Lag= 10.8 min
Primary = 2.45 cfs @ 12.35 hrs, Volume= 0.316 af
Routed to Link PDA-3 : Proposed Drainage Area #3

Routing by Stor-Ind method, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
Peak Elev= 193.30' @ 12.35 hrs Surf.Area= 3,972 sf Storage= 7,481 cf

Plug-Flow detention time= 181.3 min calculated for 0.316 af (75% of inflow)
Center-of-Mass det. time= 85.9 min (877.6 - 791.7)

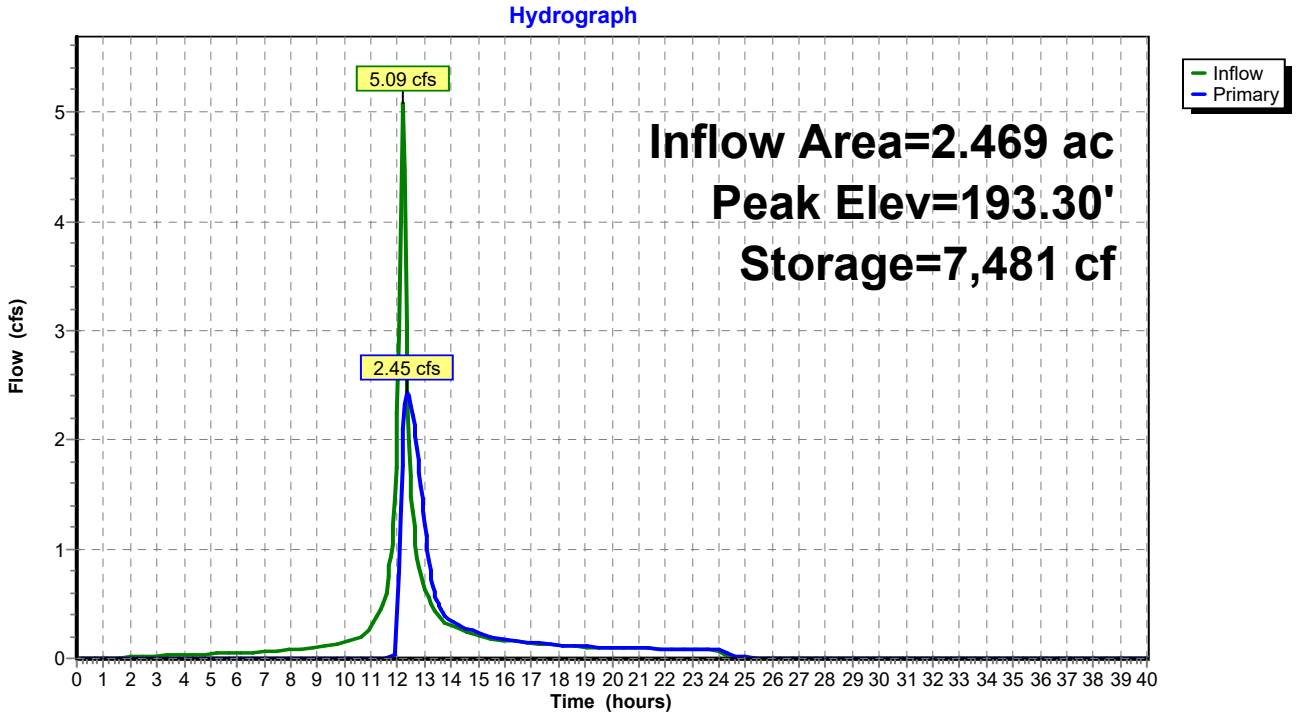
Volume	Invert	Avail.Storage	Storage Description
#1	190.50'	16,864 cf	**Custom Stage Data (Prismatic)** Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
190.50	0	0	0
191.00	2,110	528	528
192.00	2,893	2,502	3,029
193.00	3,730	3,312	6,341
194.00	4,547	4,139	10,479
195.00	5,356	4,952	15,431
195.25	6,113	1,434	16,864

Device	Routing	Invert	Outlet Devices
#1	Primary	190.50'	**18.0" Round Culvert** L= 82.0' Ke= 0.500 Inlet / Outlet Invert= 190.50' / 190.10' S= 0.0049 '/' Cc= 0.900 n= 0.013, Flow Area= 1.77 sf
#2	Device 1	192.53'	**36.0" W x 2.5" H Vert. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#3	Device 1	193.55'	**4.0' long Sharp-Crested Rectangular Weir** 2 End Contraction(s)
#4	Primary	194.95'	**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 @ 12.35 hrs HW=193.30' (Free Discharge)
- **1=Culvert** (Passes 2.44 cfs of 10.66 cfs potential flow)
  - **2=Orifice/Grate** (Orifice Controls 2.44 cfs @ 3.91 fps)
  - **3=Sharp-Crested Rectangular Weir** (Controls 0.00 cfs)
- **4=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)

Pond B-36B: Basin #36B



Stage-Discharge for Pond B-36B: Basin #36B

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
190.50	0.00	191.02	0.00	191.54	0.00	192.06	0.00
190.51	0.00	191.03	0.00	191.55	0.00	192.07	0.00
190.52	0.00	191.04	0.00	191.56	0.00	192.08	0.00
190.53	0.00	191.05	0.00	191.57	0.00	192.09	0.00
190.54	0.00	191.06	0.00	191.58	0.00	192.10	0.00
190.55	0.00	191.07	0.00	191.59	0.00	192.11	0.00
190.56	0.00	191.08	0.00	191.60	0.00	192.12	0.00
190.57	0.00	191.09	0.00	191.61	0.00	192.13	0.00
190.58	0.00	191.10	0.00	191.62	0.00	192.14	0.00
190.59	0.00	191.11	0.00	191.63	0.00	192.15	0.00
190.60	0.00	191.12	0.00	191.64	0.00	192.16	0.00
190.61	0.00	191.13	0.00	191.65	0.00	192.17	0.00
190.62	0.00	191.14	0.00	191.66	0.00	192.18	0.00
190.63	0.00	191.15	0.00	191.67	0.00	192.19	0.00
190.64	0.00	191.16	0.00	191.68	0.00	192.20	0.00
190.65	0.00	191.17	0.00	191.69	0.00	192.21	0.00
190.66	0.00	191.18	0.00	191.70	0.00	192.22	0.00
190.67	0.00	191.19	0.00	191.71	0.00	192.23	0.00
190.68	0.00	191.20	0.00	191.72	0.00	192.24	0.00
190.69	0.00	191.21	0.00	191.73	0.00	192.25	0.00
190.70	0.00	191.22	0.00	191.74	0.00	192.26	0.00
190.71	0.00	191.23	0.00	191.75	0.00	192.27	0.00
190.72	0.00	191.24	0.00	191.76	0.00	192.28	0.00
190.73	0.00	191.25	0.00	191.77	0.00	192.29	0.00
190.74	0.00	191.26	0.00	191.78	0.00	192.30	0.00
190.75	0.00	191.27	0.00	191.79	0.00	192.31	0.00
190.76	0.00	191.28	0.00	191.80	0.00	192.32	0.00
190.77	0.00	191.29	0.00	191.81	0.00	192.33	0.00
190.78	0.00	191.30	0.00	191.82	0.00	192.34	0.00
190.79	0.00	191.31	0.00	191.83	0.00	192.35	0.00
190.80	0.00	191.32	0.00	191.84	0.00	192.36	0.00
190.81	0.00	191.33	0.00	191.85	0.00	192.37	0.00
190.82	0.00	191.34	0.00	191.86	0.00	192.38	0.00
190.83	0.00	191.35	0.00	191.87	0.00	192.39	0.00
190.84	0.00	191.36	0.00	191.88	0.00	192.40	0.00
190.85	0.00	191.37	0.00	191.89	0.00	192.41	0.00
190.86	0.00	191.38	0.00	191.90	0.00	192.42	0.00
190.87	0.00	191.39	0.00	191.91	0.00	192.43	0.00
190.88	0.00	191.40	0.00	191.92	0.00	192.44	0.00
190.89	0.00	191.41	0.00	191.93	0.00	192.45	0.00
190.90	0.00	191.42	0.00	191.94	0.00	192.46	0.00
190.91	0.00	191.43	0.00	191.95	0.00	192.47	0.00
190.92	0.00	191.44	0.00	191.96	0.00	192.48	0.00
190.93	0.00	191.45	0.00	191.97	0.00	192.49	0.00
190.94	0.00	191.46	0.00	191.98	0.00	192.50	0.00
190.95	0.00	191.47	0.00	191.99	0.00	192.51	0.00
190.96	0.00	191.48	0.00	192.00	0.00	192.52	0.00
190.97	0.00	191.49	0.00	192.01	0.00	192.53	0.00
190.98	0.00	191.50	0.00	192.02	0.00	192.54	0.01
190.99	0.00	191.51	0.00	192.03	0.00	192.55	0.03
191.00	0.00	191.52	0.00	192.04	0.00	192.56	0.05
191.01	0.00	191.53	0.00	192.05	0.00	192.57	0.08

Stage-Discharge for Pond B-36B: Basin #36B (continued)

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
192.58	0.11	193.10	2.05	193.62	3.23	194.14	9.44
192.59	0.14	193.11	2.07	193.63	3.30	194.15	9.60
192.60	0.18	193.12	2.09	193.64	3.37	194.16	9.76
192.61	0.22	193.13	2.12	193.65	3.44	194.17	9.92
192.62	0.26	193.14	2.14	193.66	3.52	194.18	10.08
192.63	0.30	193.15	2.16	193.67	3.60	194.19	10.24
192.64	0.35	193.16	2.18	193.68	3.69	194.20	10.40
192.65	0.40	193.17	2.20	193.69	3.77	194.21	10.56
192.66	0.45	193.18	2.22	193.70	3.86	194.22	10.72
192.67	0.50	193.19	2.24	193.71	3.95	194.23	10.89
192.68	0.56	193.20	2.26	193.72	4.04	194.24	11.05
192.69	0.62	193.21	2.28	193.73	4.14	194.25	11.22
192.70	0.67	193.22	2.30	193.74	4.24	194.26	11.38
192.71	0.74	193.23	2.32	193.75	4.34	194.27	11.55
192.72	0.80	193.24	2.34	193.76	4.44	194.28	11.72
192.73	0.86	193.25	2.36	193.77	4.54	194.29	11.89
192.74	0.93	193.26	2.38	193.78	4.65	194.30	12.06
192.75	0.98	193.27	2.40	193.79	4.75	194.31	12.23
192.76	1.03	193.28	2.42	193.80	4.86	194.32	12.40
192.77	1.08	193.29	2.43	193.81	4.97	194.33	12.58
192.78	1.12	193.30	2.45	193.82	5.09	194.34	12.75
192.79	1.16	193.31	2.47	193.83	5.20	194.35	12.93
192.80	1.20	193.32	2.49	193.84	5.32	194.36	13.10
192.81	1.24	193.33	2.51	193.85	5.43	194.37	13.28
192.82	1.28	193.34	2.53	193.86	5.55	194.38	13.46
192.83	1.32	193.35	2.54	193.87	5.67	194.39	13.63
192.84	1.35	193.36	2.56	193.88	5.80	194.40	13.70
192.85	1.38	193.37	2.58	193.89	5.92	194.41	13.73
192.86	1.42	193.38	2.60	193.90	6.05	194.42	13.75
192.87	1.45	193.39	2.61	193.91	6.17	194.43	13.77
192.88	1.48	193.40	2.63	193.92	6.30	194.44	13.80
192.89	1.51	193.41	2.65	193.93	6.43	194.45	13.82
192.90	1.54	193.42	2.67	193.94	6.56	194.46	13.85
192.91	1.57	193.43	2.68	193.95	6.69	194.47	13.87
192.92	1.60	193.44	2.70	193.96	6.83	194.48	13.90
192.93	1.63	193.45	2.72	193.97	6.96	194.49	13.92
192.94	1.66	193.46	2.73	193.98	7.10	194.50	13.94
192.95	1.68	193.47	2.75	193.99	7.24	194.51	13.97
192.96	1.71	193.48	2.77	194.00	7.38	194.52	13.99
192.97	1.74	193.49	2.78	194.01	7.52	194.53	14.02
192.98	1.76	193.50	2.80	194.02	7.66	194.54	14.04
192.99	1.79	193.51	2.81	194.03	7.80	194.55	14.06
193.00	1.81	193.52	2.83	194.04	7.94	194.56	14.09
193.01	1.84	193.53	2.85	194.05	8.09	194.57	14.11
193.02	1.86	193.54	2.86	194.06	8.24	194.58	14.13
193.03	1.89	193.55	2.88	194.07	8.38	194.59	14.16
193.04	1.91	193.56	2.91	194.08	8.53	194.60	14.18
193.05	1.94	193.57	2.95	194.09	8.68	194.61	14.21
193.06	1.96	193.58	2.99	194.10	8.83	194.62	14.23
193.07	1.98	193.59	3.05	194.11	8.98	194.63	14.25
193.08	2.00	193.60	3.10	194.12	9.14	194.64	14.28
193.09	2.03	193.61	3.16	194.13	9.29	194.65	14.30

Stage-Discharge for Pond B-36B: Basin #36B (continued)

Elevation (feet)	Primary (cfs)
194.66	14.32
194.67	14.35
194.68	14.37
194.69	14.39
194.70	14.42
194.71	14.44
194.72	14.46
194.73	14.49
194.74	14.51
194.75	14.53
194.76	14.56
194.77	14.58
194.78	14.60
194.79	14.62
194.80	14.65
194.81	14.67
194.82	14.69
194.83	14.72
194.84	14.74
194.85	14.76
194.86	14.78
194.87	14.81
194.88	14.83
194.89	14.85
194.90	14.87
194.91	14.90
194.92	14.92
194.93	14.94
194.94	14.96
194.95	14.99
194.96	15.13
194.97	15.36
194.98	15.66
194.99	16.01
195.00	16.41
195.01	16.84
195.02	17.32
195.03	17.82
195.04	18.36
195.05	18.93
195.06	19.52
195.07	20.14
195.08	20.79
195.09	21.47
195.10	22.16
195.11	22.89
195.12	23.63
195.13	24.40
195.14	25.18
195.15	25.99
195.16	26.86
195.17	27.75
195.18	28.67
195.19	29.62
195.20	30.59
195.21	31.58
195.22	32.60
195.23	33.65
195.24	34.72
195.25	**35.81**

Stage-Area-Storage for Pond B-36B: Basin #36B

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
190.50	0	0	191.02	2,126	570
190.51	42	0	191.03	2,133	591
190.52	84	1	191.04	2,141	613
190.53	127	2	191.05	2,149	634
190.54	169	3	191.06	2,157	656
190.55	211	5	191.07	2,165	677
190.56	253	8	191.08	2,173	699
190.57	295	10	191.09	2,180	721
190.58	338	14	191.10	2,188	742
190.59	380	17	191.11	2,196	764
190.60	422	21	191.12	2,204	786
190.61	464	26	191.13	2,212	808
190.62	506	30	191.14	2,220	831
190.63	549	36	191.15	2,227	853
190.64	591	41	191.16	2,235	875
190.65	633	47	191.17	2,243	898
190.66	675	54	191.18	2,251	920
190.67	717	61	191.19	2,259	943
190.68	760	68	191.20	2,267	965
190.69	802	76	191.21	2,274	988
190.70	844	84	191.22	2,282	1,011
190.71	886	93	191.23	2,290	1,034
190.72	928	102	191.24	2,298	1,056
190.73	971	112	191.25	2,306	1,079
190.74	1,013	122	191.26	2,314	1,103
190.75	1,055	132	191.27	2,321	1,126
190.76	1,097	143	191.28	2,329	1,149
190.77	1,139	154	191.29	2,337	1,172
190.78	1,182	165	191.30	2,345	1,196
190.79	1,224	177	191.31	2,353	1,219
190.80	1,266	190	191.32	2,361	1,243
190.81	1,308	203	191.33	2,368	1,266
190.82	1,350	216	191.34	2,376	1,290
190.83	1,393	230	191.35	2,384	1,314
190.84	1,435	244	191.36	2,392	1,338
190.85	1,477	258	191.37	2,400	1,362
190.86	1,519	273	191.38	2,408	1,386
190.87	1,561	289	191.39	2,415	1,410
190.88	1,604	305	191.40	2,423	1,434
190.89	1,646	321	191.41	2,431	1,458
190.90	1,688	338	191.42	2,439	1,483
190.91	1,730	355	191.43	2,447	1,507
190.92	1,772	372	191.44	2,455	1,532
190.93	1,815	390	191.45	2,462	1,556
190.94	1,857	408	191.46	2,470	1,581
190.95	1,899	427	191.47	2,478	1,606
190.96	1,941	446	191.48	2,486	1,631
190.97	1,983	466	191.49	2,494	1,655
190.98	2,026	486	191.50	2,502	1,680
190.99	2,068	507	191.51	2,509	1,705
191.00	2,110	528	191.52	2,517	1,731
191.01	2,118	549	191.53	2,525	1,756

Stage-Area-Storage for Pond B-36B: Basin #36B (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
191.54	2,533	1,781
191.55	2,541	1,806
191.56	2,548	1,832
191.57	2,556	1,857
191.58	2,564	1,883
191.59	2,572	1,909
191.60	2,580	1,934
191.61	2,588	1,960
191.62	2,595	1,986
191.63	2,603	2,012
191.64	2,611	2,038
191.65	2,619	2,064
191.66	2,627	2,091
191.67	2,635	2,117
191.68	2,642	2,143
191.69	2,650	2,170
191.70	2,658	2,196
191.71	2,666	2,223
191.72	2,674	2,250
191.73	2,682	2,276
191.74	2,689	2,303
191.75	2,697	2,330
191.76	2,705	2,357
191.77	2,713	2,384
191.78	2,721	2,411
191.79	2,729	2,439
191.80	2,736	2,466
191.81	2,744	2,493
191.82	2,752	2,521
191.83	2,760	2,549
191.84	2,768	2,576
191.85	2,776	2,604
191.86	2,783	2,632
191.87	2,791	2,660
191.88	2,799	2,687
191.89	2,807	2,716
191.90	2,815	2,744
191.91	2,823	2,772
191.92	2,830	2,800
191.93	2,838	2,828
191.94	2,846	2,857
191.95	2,854	2,885
191.96	2,862	2,914
191.97	2,870	2,943
191.98	2,877	2,971
191.99	2,885	3,000
192.00	2,893	3,029
192.01	2,901	3,058
192.02	2,910	3,087
192.03	2,918	3,116
192.04	2,926	3,145
192.05	2,935	3,175
192.06	2,943	3,204
192.07	2,952	3,234
192.08	2,960	3,263
192.09	2,968	3,293
192.10	2,977	3,322
192.11	2,985	3,352
192.12	2,993	3,382
192.13	3,002	3,412
192.14	3,010	3,442
192.15	3,019	3,472
192.16	3,027	3,503
192.17	3,035	3,533
192.18	3,044	3,563
192.19	3,052	3,594
192.20	3,060	3,624
192.21	3,069	3,655
192.22	3,077	3,686
192.23	3,086	3,717
192.24	3,094	3,747
192.25	3,102	3,778
192.26	3,111	3,809
192.27	3,119	3,841
192.28	3,127	3,872
192.29	3,136	3,903
192.30	3,144	3,935
192.31	3,152	3,966
192.32	3,161	3,998
192.33	3,169	4,029
192.34	3,178	4,061
192.35	3,186	4,093
192.36	3,194	4,125
192.37	3,203	4,157
192.38	3,211	4,189
192.39	3,219	4,221
192.40	3,228	4,253
192.41	3,236	4,285
192.42	3,245	4,318
192.43	3,253	4,350
192.44	3,261	4,383
192.45	3,270	4,416
192.46	3,278	4,448
192.47	3,286	4,481
192.48	3,295	4,514
192.49	3,303	4,547
192.50	3,312	4,580
192.51	3,320	4,613
192.52	3,328	4,647
192.53	3,337	4,680
192.54	3,345	4,713
192.55	3,353	4,747
192.56	3,362	4,780
192.57	3,370	4,814

Stage-Area-Storage for Pond B-36B: Basin #36B (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
192.58	3,378	4,848	193.10	3,812	6,718
192.59	3,387	4,882	193.11	3,820	6,756
192.60	3,395	4,915	193.12	3,828	6,794
192.61	3,404	4,949	193.13	3,836	6,832
192.62	3,412	4,984	193.14	3,844	6,871
192.63	3,420	5,018	193.15	3,853	6,909
192.64	3,429	5,052	193.16	3,861	6,948
192.65	3,437	5,086	193.17	3,869	6,986
192.66	3,445	5,121	193.18	3,877	7,025
192.67	3,454	5,155	193.19	3,885	7,064
192.68	3,462	5,190	193.20	3,893	7,103
192.69	3,471	5,224	193.21	3,902	7,142
192.70	3,479	5,259	193.22	3,910	7,181
192.71	3,487	5,294	193.23	3,918	7,220
192.72	3,496	5,329	193.24	3,926	7,259
192.73	3,504	5,364	193.25	3,934	7,299
192.74	3,512	5,399	193.26	3,942	7,338
192.75	3,521	5,434	193.27	3,951	7,377
192.76	3,529	5,469	193.28	3,959	7,417
192.77	3,537	5,505	193.29	3,967	7,457
192.78	3,546	5,540	193.30	3,975	7,496
192.79	3,554	5,576	193.31	3,983	7,536
192.80	3,563	5,611	193.32	3,991	7,576
192.81	3,571	5,647	193.33	4,000	7,616
192.82	3,579	5,683	193.34	4,008	7,656
192.83	3,588	5,718	193.35	4,016	7,696
192.84	3,596	5,754	193.36	4,024	7,736
192.85	3,604	5,790	193.37	4,032	7,777
192.86	3,613	5,827	193.38	4,040	7,817
192.87	3,621	5,863	193.39	4,049	7,857
192.88	3,630	5,899	193.40	4,057	7,898
192.89	3,638	5,935	193.41	4,065	7,938
192.90	3,646	5,972	193.42	4,073	7,979
192.91	3,655	6,008	193.43	4,081	8,020
192.92	3,663	6,045	193.44	4,089	8,061
192.93	3,671	6,081	193.45	4,098	8,102
192.94	3,680	6,118	193.46	4,106	8,143
192.95	3,688	6,155	193.47	4,114	8,184
192.96	3,697	6,192	193.48	4,122	8,225
192.97	3,705	6,229	193.49	4,130	8,266
192.98	3,713	6,266	193.50	4,139	8,308
192.99	3,722	6,303	193.51	4,147	8,349
193.00	3,730	6,341	193.52	4,155	8,391
193.01	3,738	6,378	193.53	4,163	8,432
193.02	3,746	6,415	193.54	4,171	8,474
193.03	3,755	6,453	193.55	4,179	8,516
193.04	3,763	6,490	193.56	4,188	8,557
193.05	3,771	6,528	193.57	4,196	8,599
193.06	3,779	6,566	193.58	4,204	8,641
193.07	3,787	6,604	193.59	4,212	8,683
193.08	3,795	6,642	193.60	4,220	8,726
193.09	3,804	6,680	193.61	4,228	8,768

Stage-Area-Storage for Pond B-36B: Basin #36B (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
193.62	4,237	8,810
193.63	4,245	8,853
193.64	4,253	8,895
193.65	4,261	8,938
193.66	4,269	8,980
193.67	4,277	9,023
193.68	4,286	9,066
193.69	4,294	9,109
193.70	4,302	9,152
193.71	4,310	9,195
193.72	4,318	9,238
193.73	4,326	9,281
193.74	4,335	9,324
193.75	4,343	9,368
193.76	4,351	9,411
193.77	4,359	9,455
193.78	4,367	9,498
193.79	4,375	9,542
193.80	4,384	9,586
193.81	4,392	9,630
193.82	4,400	9,674
193.83	4,408	9,718
193.84	4,416	9,762
193.85	4,424	9,806
193.86	4,433	9,850
193.87	4,441	9,895
193.88	4,449	9,939
193.89	4,457	9,984
193.90	4,465	10,028
193.91	4,473	10,073
193.92	4,482	10,118
193.93	4,490	10,163
193.94	4,498	10,208
193.95	4,506	10,253
193.96	4,514	10,298
193.97	4,522	10,343
193.98	4,531	10,388
193.99	4,539	10,434
194.00	4,547	10,479
194.01	4,555	10,525
194.02	4,563	10,570
194.03	4,571	10,616
194.04	4,579	10,662
194.05	4,587	10,707
194.06	4,596	10,753
194.07	4,604	10,799
194.08	4,612	10,845
194.09	4,620	10,892
194.10	4,628	10,938
194.11	4,636	10,984
194.12	4,644	11,030
194.13	4,652	11,077
194.14	4,660	11,124
194.15	4,668	11,170
194.16	4,676	11,217
194.17	4,685	11,264
194.18	4,693	11,311
194.19	4,701	11,358
194.20	4,709	11,405
194.21	4,717	11,452
194.22	4,725	11,499
194.23	4,733	11,546
194.24	4,741	11,594
194.25	4,749	11,641
194.26	4,757	11,689
194.27	4,765	11,736
194.28	4,774	11,784
194.29	4,782	11,832
194.30	4,790	11,880
194.31	4,798	11,927
194.32	4,806	11,975
194.33	4,814	12,024
194.34	4,822	12,072
194.35	4,830	12,120
194.36	4,838	12,168
194.37	4,846	12,217
194.38	4,854	12,265
194.39	4,863	12,314
194.40	4,871	12,363
194.41	4,879	12,411
194.42	4,887	12,460
194.43	4,895	12,509
194.44	4,903	12,558
194.45	4,911	12,607
194.46	4,919	12,656
194.47	4,927	12,705
194.48	4,935	12,755
194.49	4,943	12,804
194.50	4,952	12,854
194.51	4,960	12,903
194.52	4,968	12,953
194.53	4,976	13,003
194.54	4,984	13,052
194.55	4,992	13,102
194.56	5,000	13,152
194.57	5,008	13,202
194.58	5,016	13,252
194.59	5,024	13,303
194.60	5,032	13,353
194.61	5,040	13,403
194.62	5,049	13,454
194.63	5,057	13,504
194.64	5,065	13,555
194.65	5,073	13,605

Stage-Area-Storage for Pond B-36B: Basin #36B (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
194.66	5,081	13,656
194.67	5,089	13,707
194.68	5,097	13,758
194.69	5,105	13,809
194.70	5,113	13,860
194.71	5,121	13,911
194.72	5,129	13,963
194.73	5,138	14,014
194.74	5,146	14,065
194.75	5,154	14,117
194.76	5,162	14,168
194.77	5,170	14,220
194.78	5,178	14,272
194.79	5,186	14,324
194.80	5,194	14,375
194.81	5,202	14,427
194.82	5,210	14,480
194.83	5,218	14,532
194.84	5,227	14,584
194.85	5,235	14,636
194.86	5,243	14,689
194.87	5,251	14,741
194.88	5,259	14,794
194.89	5,267	14,846
194.90	5,275	14,899
194.91	5,283	14,952
194.92	5,291	15,005
194.93	5,299	15,058
194.94	5,307	15,111
194.95	5,316	15,164
194.96	5,324	15,217
194.97	5,332	15,270
194.98	5,340	15,324
194.99	5,348	15,377
195.00	5,356	15,431
195.01	5,386	15,484
195.02	5,417	15,538
195.03	5,447	15,593
195.04	5,477	15,647
195.05	5,507	15,702
195.06	5,538	15,757
195.07	5,568	15,813
195.08	5,598	15,869
195.09	5,629	15,925
195.10	5,659	15,981
195.11	5,689	16,038
195.12	5,719	16,095
195.13	5,750	16,152
195.14	5,780	16,210
195.15	5,810	16,268
195.16	5,840	16,326
195.17	5,871	16,385
195.18	5,901	16,444
195.19	5,931	16,503
195.20	5,962	16,562
195.21	5,992	16,622
195.22	6,022	16,682
195.23	6,052	16,742
195.24	6,083	16,803
195.25	**6,113**	**16,864**

Summary for Pond B-37A: Basin #37A

Inflow Area = 2.154 ac, 39.65% Impervious, Inflow Depth = 1.92" for Current 2 yr event
Inflow = 4.17 cfs @ 12.17 hrs, Volume= 0.345 af
Outflow = 0.45 cfs @ 13.18 hrs, Volume= 0.262 af, Atten= 89%, Lag= 60.1 min
Primary = 0.45 cfs @ 13.18 hrs, Volume= 0.262 af
Routed to Link PDA-3 : Proposed Drainage Area #3

Routing by Stor-Ind method, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
Peak Elev= 196.06' @ 13.18 hrs Surf.Area= 4,381 sf Storage= 8,622 cf

Plug-Flow detention time= 309.6 min calculated for 0.262 af (76% of inflow)
Center-of-Mass det. time= 216.4 min (1,014.7 - 798.2)

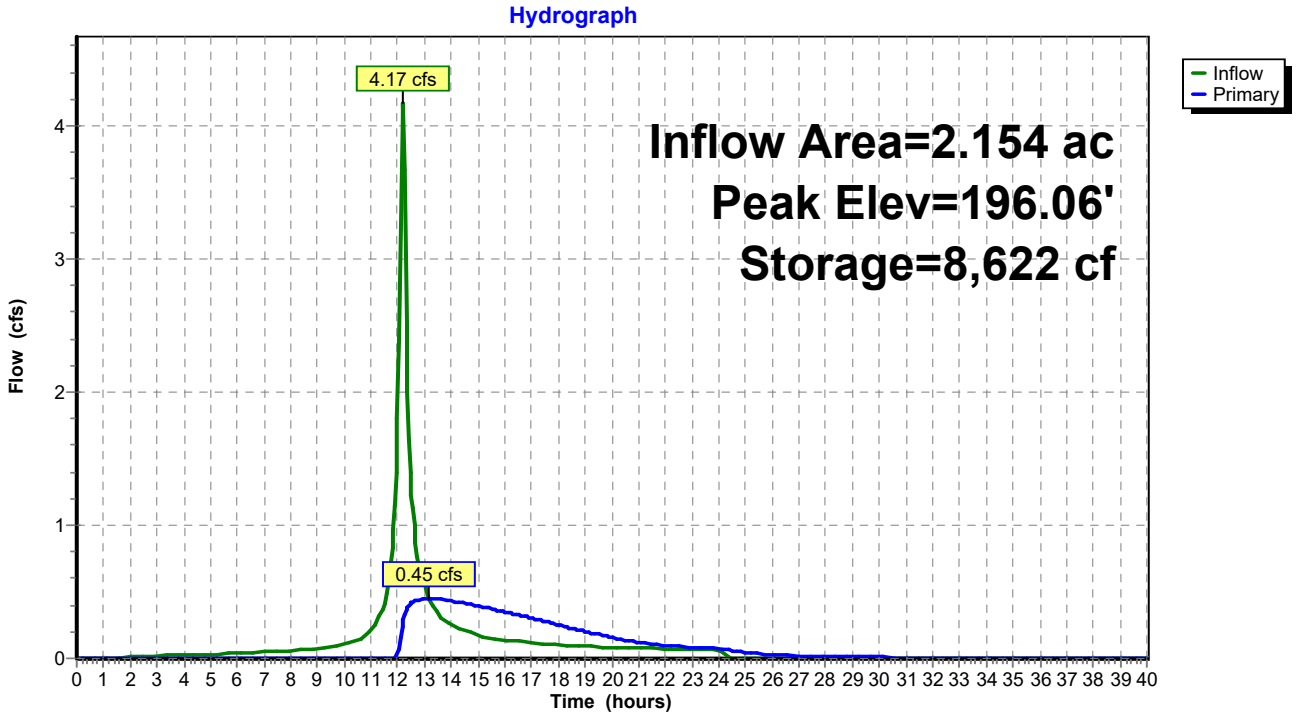
Volume	Invert	Avail.Storage	Storage Description
#1	193.30'	18,546 cf	**Custom Stage Data (Prismatic)** Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
193.30	0	0	0
194.00	2,990	1,046	1,046
195.00	3,633	3,312	4,358
196.00	4,332	3,983	8,340
197.00	5,089	4,711	13,051
198.00	5,901	5,495	18,546

Device	Routing	Invert	Outlet Devices
#1	Primary	192.65'	**18.0" Round Culvert** L= 265.0' Ke= 0.500 Inlet / Outlet Invert= 192.65' / 191.33' S= 0.0050 '/' Cc= 0.900 n= 0.013, Flow Area= 1.77 sf
#2	Device 1	194.77'	**4.0" Vert. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#3	Device 1	196.48'	**4.0' long Sharp-Crested Rectangular Weir** 2 End Contraction(s)
#4	Primary	197.95'	**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=0.45 cfs @ 13.18 hrs HW=196.06' (Free Discharge)
- **1=Culvert** (Passes 0.45 cfs of 10.12 cfs potential flow)
  - **2=Orifice/Grate** (Orifice Controls 0.45 cfs @ 5.11 fps)
  - **3=Sharp-Crested Rectangular Weir** (Controls 0.00 cfs)
- **4=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)

Pond B-37A: Basin #37A



Stage-Discharge for Pond B-37A: Basin #37A

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
193.30	0.00	193.82	0.00	194.34	0.00	194.86	0.02
193.31	0.00	193.83	0.00	194.35	0.00	194.87	0.02
193.32	0.00	193.84	0.00	194.36	0.00	194.88	0.03
193.33	0.00	193.85	0.00	194.37	0.00	194.89	0.03
193.34	0.00	193.86	0.00	194.38	0.00	194.90	0.04
193.35	0.00	193.87	0.00	194.39	0.00	194.91	0.04
193.36	0.00	193.88	0.00	194.40	0.00	194.92	0.05
193.37	0.00	193.89	0.00	194.41	0.00	194.93	0.06
193.38	0.00	193.90	0.00	194.42	0.00	194.94	0.06
193.39	0.00	193.91	0.00	194.43	0.00	194.95	0.07
193.40	0.00	193.92	0.00	194.44	0.00	194.96	0.08
193.41	0.00	193.93	0.00	194.45	0.00	194.97	0.08
193.42	0.00	193.94	0.00	194.46	0.00	194.98	0.09
193.43	0.00	193.95	0.00	194.47	0.00	194.99	0.10
193.44	0.00	193.96	0.00	194.48	0.00	195.00	0.10
193.45	0.00	193.97	0.00	194.49	0.00	195.01	0.11
193.46	0.00	193.98	0.00	194.50	0.00	195.02	0.12
193.47	0.00	193.99	0.00	194.51	0.00	195.03	0.13
193.48	0.00	194.00	0.00	194.52	0.00	195.04	0.13
193.49	0.00	194.01	0.00	194.53	0.00	195.05	0.14
193.50	0.00	194.02	0.00	194.54	0.00	195.06	0.15
193.51	0.00	194.03	0.00	194.55	0.00	195.07	0.15
193.52	0.00	194.04	0.00	194.56	0.00	195.08	0.16
193.53	0.00	194.05	0.00	194.57	0.00	195.09	0.17
193.54	0.00	194.06	0.00	194.58	0.00	195.10	0.17
193.55	0.00	194.07	0.00	194.59	0.00	195.11	0.17
193.56	0.00	194.08	0.00	194.60	0.00	195.12	0.18
193.57	0.00	194.09	0.00	194.61	0.00	195.13	0.18
193.58	0.00	194.10	0.00	194.62	0.00	195.14	0.19
193.59	0.00	194.11	0.00	194.63	0.00	195.15	0.19
193.60	0.00	194.12	0.00	194.64	0.00	195.16	0.20
193.61	0.00	194.13	0.00	194.65	0.00	195.17	0.20
193.62	0.00	194.14	0.00	194.66	0.00	195.18	0.21
193.63	0.00	194.15	0.00	194.67	0.00	195.19	0.21
193.64	0.00	194.16	0.00	194.68	0.00	195.20	0.22
193.65	0.00	194.17	0.00	194.69	0.00	195.21	0.22
193.66	0.00	194.18	0.00	194.70	0.00	195.22	0.22
193.67	0.00	194.19	0.00	194.71	0.00	195.23	0.23
193.68	0.00	194.20	0.00	194.72	0.00	195.24	0.23
193.69	0.00	194.21	0.00	194.73	0.00	195.25	0.24
193.70	0.00	194.22	0.00	194.74	0.00	195.26	0.24
193.71	0.00	194.23	0.00	194.75	0.00	195.27	0.24
193.72	0.00	194.24	0.00	194.76	0.00	195.28	0.25
193.73	0.00	194.25	0.00	194.77	0.00	195.29	0.25
193.74	0.00	194.26	0.00	194.78	0.00	195.30	0.25
193.75	0.00	194.27	0.00	194.79	0.00	195.31	0.26
193.76	0.00	194.28	0.00	194.80	0.00	195.32	0.26
193.77	0.00	194.29	0.00	194.81	0.00	195.33	0.26
193.78	0.00	194.30	0.00	194.82	0.01	195.34	0.27
193.79	0.00	194.31	0.00	194.83	0.01	195.35	0.27
193.80	0.00	194.32	0.00	194.84	0.01	195.36	0.27
193.81	0.00	194.33	0.00	194.85	0.02	195.37	0.28

Stage-Discharge for Pond B-37A: Basin #37A (continued)

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
195.38	0.28	195.90	0.41	196.42	0.51	196.94	4.58
195.39	0.28	195.91	0.41	196.43	0.51	196.95	4.71
195.40	0.29	195.92	0.42	196.44	0.52	196.96	4.84
195.41	0.29	195.93	0.42	196.45	0.52	196.97	4.98
195.42	0.29	195.94	0.42	196.46	0.52	196.98	5.11
195.43	0.30	195.95	0.42	196.47	0.52	196.99	5.24
195.44	0.30	195.96	0.43	196.48	0.52	197.00	5.38
195.45	0.30	195.97	0.43	196.49	0.54	197.01	5.52
195.46	0.30	195.98	0.43	196.50	0.56	197.02	5.66
195.47	0.31	195.99	0.43	196.51	0.59	197.03	5.80
195.48	0.31	196.00	0.43	196.52	0.63	197.04	5.94
195.49	0.31	196.01	0.44	196.53	0.68	197.05	6.08
195.50	0.32	196.02	0.44	196.54	0.72	197.06	6.22
195.51	0.32	196.03	0.44	196.55	0.78	197.07	6.37
195.52	0.32	196.04	0.44	196.56	0.83	197.08	6.51
195.53	0.32	196.05	0.44	196.57	0.89	197.09	6.66
195.54	0.33	196.06	0.45	196.58	0.95	197.10	6.81
195.55	0.33	196.07	0.45	196.59	1.01	197.11	6.95
195.56	0.33	196.08	0.45	196.60	1.08	197.12	7.10
195.57	0.33	196.09	0.45	196.61	1.15	197.13	7.25
195.58	0.34	196.10	0.45	196.62	1.23	197.14	7.41
195.59	0.34	196.11	0.46	196.63	1.30	197.15	7.56
195.60	0.34	196.12	0.46	196.64	1.38	197.16	7.71
195.61	0.34	196.13	0.46	196.65	1.46	197.17	7.87
195.62	0.35	196.14	0.46	196.66	1.54	197.18	8.02
195.63	0.35	196.15	0.46	196.67	1.63	197.19	8.18
195.64	0.35	196.16	0.46	196.68	1.71	197.20	8.34
195.65	0.35	196.17	0.47	196.69	1.80	197.21	8.49
195.66	0.36	196.18	0.47	196.70	1.89	197.22	8.65
195.67	0.36	196.19	0.47	196.71	1.99	197.23	8.81
195.68	0.36	196.20	0.47	196.72	2.08	197.24	8.97
195.69	0.36	196.21	0.47	196.73	2.18	197.25	9.14
195.70	0.37	196.22	0.48	196.74	2.28	197.26	9.30
195.71	0.37	196.23	0.48	196.75	2.38	197.27	9.46
195.72	0.37	196.24	0.48	196.76	2.48	197.28	9.63
195.73	0.37	196.25	0.48	196.77	2.58	197.29	9.79
195.74	0.38	196.26	0.48	196.78	2.69	197.30	9.96
195.75	0.38	196.27	0.49	196.79	2.79	197.31	10.13
195.76	0.38	196.28	0.49	196.80	2.90	197.32	10.30
195.77	0.38	196.29	0.49	196.81	3.01	197.33	10.46
195.78	0.39	196.30	0.49	196.82	3.13	197.34	10.63
195.79	0.39	196.31	0.49	196.83	3.24	197.35	10.81
195.80	0.39	196.32	0.49	196.84	3.35	197.36	10.98
195.81	0.39	196.33	0.50	196.85	3.47	197.37	11.15
195.82	0.39	196.34	0.50	196.86	3.59	197.38	11.32
195.83	0.40	196.35	0.50	196.87	3.71	197.39	11.50
195.84	0.40	196.36	0.50	196.88	3.83	197.40	11.67
195.85	0.40	196.37	0.50	196.89	3.95	197.41	11.85
195.86	0.40	196.38	0.50	196.90	4.07	197.42	12.02
195.87	0.41	196.39	0.51	196.91	4.20	197.43	12.07
195.88	0.41	196.40	0.51	196.92	4.33	197.44	12.09
195.89	0.41	196.41	0.51	196.93	4.45	197.45	12.10

Stage-Discharge for Pond B-37A: Basin #37A (continued)

Elevation (feet)	Primary (cfs)
197.46	12.11
197.47	12.13
197.48	12.14
197.49	12.15
197.50	12.17
197.51	12.18
197.52	12.19
197.53	12.20
197.54	12.22
197.55	12.23
197.56	12.24
197.57	12.26
197.58	12.27
197.59	12.28
197.60	12.29
197.61	12.31
197.62	12.32
197.63	12.33
197.64	12.35
197.65	12.36
197.66	12.37
197.67	12.38
197.68	12.40
197.69	12.41
197.70	12.42
197.71	12.44
197.72	12.45
197.73	12.46
197.74	12.47
197.75	12.49
197.76	12.50
197.77	12.51
197.78	12.52
197.79	12.54
197.80	12.55
197.81	12.56
197.82	12.57
197.83	12.59
197.84	12.60
197.85	12.61
197.86	12.63
197.87	12.64
197.88	12.65
197.89	12.66
197.90	12.68
197.91	12.69
197.92	12.70
197.93	12.71
197.94	12.73
197.95	12.74
197.96	12.87
197.97	13.09
197.98	13.38
197.99	13.73
198.00	**14.11**

Stage-Area-Storage for Pond B-37A: Basin #37A

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
193.30	0	0	193.82	2,221	577
193.31	43	0	193.83	2,264	600
193.32	85	1	193.84	2,307	623
193.33	128	2	193.85	2,349	646
193.34	171	3	193.86	2,392	670
193.35	214	5	193.87	2,435	694
193.36	256	8	193.88	2,477	718
193.37	299	10	193.89	2,520	743
193.38	342	14	193.90	2,563	769
193.39	384	17	193.91	2,606	795
193.40	427	21	193.92	2,648	821
193.41	470	26	193.93	2,691	848
193.42	513	31	193.94	2,734	875
193.43	555	36	193.95	2,776	902
193.44	598	42	193.96	2,819	930
193.45	641	48	193.97	2,862	959
193.46	683	55	193.98	2,905	988
193.47	726	62	193.99	2,947	1,017
193.48	769	69	194.00	2,990	1,046
193.49	812	77	194.01	2,996	1,076
193.50	854	85	194.02	3,003	1,106
193.51	897	94	194.03	3,009	1,136
193.52	940	103	194.04	3,016	1,167
193.53	982	113	194.05	3,022	1,197
193.54	1,025	123	194.06	3,029	1,227
193.55	1,068	133	194.07	3,035	1,257
193.56	1,111	144	194.08	3,041	1,288
193.57	1,153	156	194.09	3,048	1,318
193.58	1,196	167	194.10	3,054	1,349
193.59	1,239	180	194.11	3,061	1,379
193.60	1,281	192	194.12	3,067	1,410
193.61	1,324	205	194.13	3,074	1,441
193.62	1,367	219	194.14	3,080	1,471
193.63	1,410	233	194.15	3,086	1,502
193.64	1,452	247	194.16	3,093	1,533
193.65	1,495	262	194.17	3,099	1,564
193.66	1,538	277	194.18	3,106	1,595
193.67	1,580	292	194.19	3,112	1,626
193.68	1,623	308	194.20	3,119	1,657
193.69	1,666	325	194.21	3,125	1,689
193.70	1,709	342	194.22	3,131	1,720
193.71	1,751	359	194.23	3,138	1,751
193.72	1,794	377	194.24	3,144	1,783
193.73	1,837	395	194.25	3,151	1,814
193.74	1,879	413	194.26	3,157	1,846
193.75	1,922	432	194.27	3,164	1,877
193.76	1,965	452	194.28	3,170	1,909
193.77	2,008	472	194.29	3,176	1,941
193.78	2,050	492	194.30	3,183	1,972
193.79	2,093	513	194.31	3,189	2,004
193.80	2,136	534	194.32	3,196	2,036
193.81	2,178	555	194.33	3,202	2,068

Stage-Area-Storage for Pond B-37A: Basin #37A (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
194.34	3,209	2,100
194.35	3,215	2,132
194.36	3,221	2,165
194.37	3,228	2,197
194.38	3,234	2,229
194.39	3,241	2,262
194.40	3,247	2,294
194.41	3,254	2,326
194.42	3,260	2,359
194.43	3,266	2,392
194.44	3,273	2,424
194.45	3,279	2,457
194.46	3,286	2,490
194.47	3,292	2,523
194.48	3,299	2,556
194.49	3,305	2,589
194.50	3,312	2,622
194.51	3,318	2,655
194.52	3,324	2,688
194.53	3,331	2,722
194.54	3,337	2,755
194.55	3,344	2,788
194.56	3,350	2,822
194.57	3,357	2,855
194.58	3,363	2,889
194.59	3,369	2,923
194.60	3,376	2,956
194.61	3,382	2,990
194.62	3,389	3,024
194.63	3,395	3,058
194.64	3,402	3,092
194.65	3,408	3,126
194.66	3,414	3,160
194.67	3,421	3,194
194.68	3,427	3,228
194.69	3,434	3,263
194.70	3,440	3,297
194.71	3,447	3,331
194.72	3,453	3,366
194.73	3,459	3,401
194.74	3,466	3,435
194.75	3,472	3,470
194.76	3,479	3,505
194.77	3,485	3,539
194.78	3,492	3,574
194.79	3,498	3,609
194.80	3,504	3,644
194.81	3,511	3,679
194.82	3,517	3,714
194.83	3,524	3,750
194.84	3,530	3,785
194.85	3,537	3,820
194.86	3,543	3,856
194.87	3,549	3,891
194.88	3,556	3,927
194.89	3,562	3,962
194.90	3,569	3,998
194.91	3,575	4,034
194.92	3,582	4,069
194.93	3,588	4,105
194.94	3,594	4,141
194.95	3,601	4,177
194.96	3,607	4,213
194.97	3,614	4,249
194.98	3,620	4,285
194.99	3,627	4,322
195.00	3,633	4,358
195.01	3,640	4,394
195.02	3,647	4,431
195.03	3,654	4,467
195.04	3,661	4,504
195.05	3,668	4,541
195.06	3,675	4,577
195.07	3,682	4,614
195.08	3,689	4,651
195.09	3,696	4,688
195.10	3,703	4,725
195.11	3,710	4,762
195.12	3,717	4,799
195.13	3,724	4,836
195.14	3,731	4,873
195.15	3,738	4,911
195.16	3,745	4,948
195.17	3,752	4,986
195.18	3,759	5,023
195.19	3,766	5,061
195.20	3,773	5,099
195.21	3,780	5,136
195.22	3,787	5,174
195.23	3,794	5,212
195.24	3,801	5,250
195.25	3,808	5,288
195.26	3,815	5,326
195.27	3,822	5,364
195.28	3,829	5,403
195.29	3,836	5,441
195.30	3,843	5,479
195.31	3,850	5,518
195.32	3,857	5,556
195.33	3,864	5,595
195.34	3,871	5,634
195.35	3,878	5,672
195.36	3,885	5,711
195.37	3,892	5,750

Stage-Area-Storage for Pond B-37A: Basin #37A (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
195.38	3,899	5,789	195.90	4,262	7,911
195.39	3,906	5,828	195.91	4,269	7,953
195.40	3,913	5,867	195.92	4,276	7,996
195.41	3,920	5,906	195.93	4,283	8,039
195.42	3,927	5,946	195.94	4,290	8,082
195.43	3,934	5,985	195.95	4,297	8,125
195.44	3,941	6,024	195.96	4,304	8,168
195.45	3,948	6,064	195.97	4,311	8,211
195.46	3,955	6,103	195.98	4,318	8,254
195.47	3,962	6,143	195.99	4,325	8,297
195.48	3,969	6,182	196.00	4,332	8,340
195.49	3,976	6,222	196.01	4,340	8,384
195.50	3,983	6,262	196.02	4,347	8,427
195.51	3,989	6,302	196.03	4,355	8,471
195.52	3,996	6,342	196.04	4,362	8,514
195.53	4,003	6,382	196.05	4,370	8,558
195.54	4,010	6,422	196.06	4,377	8,602
195.55	4,017	6,462	196.07	4,385	8,646
195.56	4,024	6,502	196.08	4,393	8,689
195.57	4,031	6,542	196.09	4,400	8,733
195.58	4,038	6,583	196.10	4,408	8,777
195.59	4,045	6,623	196.11	4,415	8,822
195.60	4,052	6,664	196.12	4,423	8,866
195.61	4,059	6,704	196.13	4,430	8,910
195.62	4,066	6,745	196.14	4,438	8,954
195.63	4,073	6,786	196.15	4,446	8,999
195.64	4,080	6,826	196.16	4,453	9,043
195.65	4,087	6,867	196.17	4,461	9,088
195.66	4,094	6,908	196.18	4,468	9,133
195.67	4,101	6,949	196.19	4,476	9,177
195.68	4,108	6,990	196.20	4,483	9,222
195.69	4,115	7,031	196.21	4,491	9,267
195.70	4,122	7,072	196.22	4,499	9,312
195.71	4,129	7,114	196.23	4,506	9,357
195.72	4,136	7,155	196.24	4,514	9,402
195.73	4,143	7,196	196.25	4,521	9,447
195.74	4,150	7,238	196.26	4,529	9,492
195.75	4,157	7,279	196.27	4,536	9,538
195.76	4,164	7,321	196.28	4,544	9,583
195.77	4,171	7,363	196.29	4,552	9,629
195.78	4,178	7,404	196.30	4,559	9,674
195.79	4,185	7,446	196.31	4,567	9,720
195.80	4,192	7,488	196.32	4,574	9,765
195.81	4,199	7,530	196.33	4,582	9,811
195.82	4,206	7,572	196.34	4,589	9,857
195.83	4,213	7,614	196.35	4,597	9,903
195.84	4,220	7,656	196.36	4,605	9,949
195.85	4,227	7,699	196.37	4,612	9,995
195.86	4,234	7,741	196.38	4,620	10,041
195.87	4,241	7,783	196.39	4,627	10,088
195.88	4,248	7,826	196.40	4,635	10,134
195.89	4,255	7,868	196.41	4,642	10,180

Stage-Area-Storage for Pond B-37A: Basin #37A (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
196.42	4,650	10,227	196.94	5,044	12,747
196.43	4,658	10,273	196.95	5,051	12,797
196.44	4,665	10,320	196.96	5,059	12,848
196.45	4,673	10,367	196.97	5,066	12,899
196.46	4,680	10,413	196.98	5,074	12,949
196.47	4,688	10,460	196.99	5,081	13,000
196.48	4,695	10,507	197.00	5,089	13,051
196.49	4,703	10,554	197.01	5,097	13,102
196.50	4,711	10,601	197.02	5,105	13,153
196.51	4,718	10,648	197.03	5,113	13,204
196.52	4,726	10,695	197.04	5,121	13,255
196.53	4,733	10,743	197.05	5,130	13,306
196.54	4,741	10,790	197.06	5,138	13,358
196.55	4,748	10,838	197.07	5,146	13,409
196.56	4,756	10,885	197.08	5,154	13,461
196.57	4,763	10,933	197.09	5,162	13,512
196.58	4,771	10,980	197.10	5,170	13,564
196.59	4,779	11,028	197.11	5,178	13,616
196.60	4,786	11,076	197.12	5,186	13,668
196.61	4,794	11,124	197.13	5,195	13,719
196.62	4,801	11,172	197.14	5,203	13,771
196.63	4,809	11,220	197.15	5,211	13,823
196.64	4,816	11,268	197.16	5,219	13,876
196.65	4,824	11,316	197.17	5,227	13,928
196.66	4,832	11,364	197.18	5,235	13,980
196.67	4,839	11,413	197.19	5,243	14,033
196.68	4,847	11,461	197.20	5,251	14,085
196.69	4,854	11,510	197.21	5,260	14,138
196.70	4,862	11,558	197.22	5,268	14,190
196.71	4,869	11,607	197.23	5,276	14,243
196.72	4,877	11,656	197.24	5,284	14,296
196.73	4,885	11,705	197.25	5,292	14,349
196.74	4,892	11,753	197.26	5,300	14,402
196.75	4,900	11,802	197.27	5,308	14,455
196.76	4,907	11,851	197.28	5,316	14,508
196.77	4,915	11,901	197.29	5,324	14,561
196.78	4,922	11,950	197.30	5,333	14,614
196.79	4,930	11,999	197.31	5,341	14,668
196.80	4,938	12,048	197.32	5,349	14,721
196.81	4,945	12,098	197.33	5,357	14,775
196.82	4,953	12,147	197.34	5,365	14,828
196.83	4,960	12,197	197.35	5,373	14,882
196.84	4,968	12,246	197.36	5,381	14,936
196.85	4,975	12,296	197.37	5,389	14,990
196.86	4,983	12,346	197.38	5,398	15,043
196.87	4,991	12,396	197.39	5,406	15,097
196.88	4,998	12,446	197.40	5,414	15,152
196.89	5,006	12,496	197.41	5,422	15,206
196.90	5,013	12,546	197.42	5,430	15,260
196.91	5,021	12,596	197.43	5,438	15,314
196.92	5,028	12,646	197.44	5,446	15,369
196.93	5,036	12,697	197.45	5,454	15,423

Stage-Area-Storage for Pond B-37A: Basin #37A (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
197.46	5,463	15,478
197.47	5,471	15,533
197.48	5,479	15,587
197.49	5,487	15,642
197.50	5,495	15,697
197.51	5,503	15,752
197.52	5,511	15,807
197.53	5,519	15,862
197.54	5,527	15,917
197.55	5,536	15,973
197.56	5,544	16,028
197.57	5,552	16,084
197.58	5,560	16,139
197.59	5,568	16,195
197.60	5,576	16,251
197.61	5,584	16,306
197.62	5,592	16,362
197.63	5,601	16,418
197.64	5,609	16,474
197.65	5,617	16,530
197.66	5,625	16,587
197.67	5,633	16,643
197.68	5,641	16,699
197.69	5,649	16,756
197.70	5,657	16,812
197.71	5,666	16,869
197.72	5,674	16,926
197.73	5,682	16,982
197.74	5,690	17,039
197.75	5,698	17,096
197.76	5,706	17,153
197.77	5,714	17,210
197.78	5,722	17,267
197.79	5,730	17,325
197.80	5,739	17,382
197.81	5,747	17,439
197.82	5,755	17,497
197.83	5,763	17,555
197.84	5,771	17,612
197.85	5,779	17,670
197.86	5,787	17,728
197.87	5,795	17,786
197.88	5,804	17,844
197.89	5,812	17,902
197.90	5,820	17,960
197.91	5,828	18,018
197.92	5,836	18,077
197.93	5,844	18,135
197.94	5,852	18,193
197.95	5,860	18,252
197.96	5,869	18,311
197.97	5,877	18,369
197.98	5,885	18,428
197.99	5,893	18,487
198.00	**5,901**	**18,546**

Summary for Pond B-37B: Basin #37B

Inflow Area = 2.179 ac, 53.42% Impervious, Inflow Depth = 2.19" for Current 2 yr event
Inflow = 4.76 cfs @ 12.17 hrs, Volume= 0.399 af
Outflow = 0.19 cfs @ 14.98 hrs, Volume= 0.283 af, Atten= 96%, Lag= 168.5 min
Primary = 0.19 cfs @ 14.98 hrs, Volume= 0.283 af
Routed to Link PDA-3 : Proposed Drainage Area #3

Routing by Stor-Ind method, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
Peak Elev= 196.24' @ 14.98 hrs Surf.Area= 6,064 sf Storage= 12,184 cf

Plug-Flow detention time= 660.9 min calculated for 0.283 af (71% of inflow)
Center-of-Mass det. time= 560.7 min (1,346.6 - 785.9)

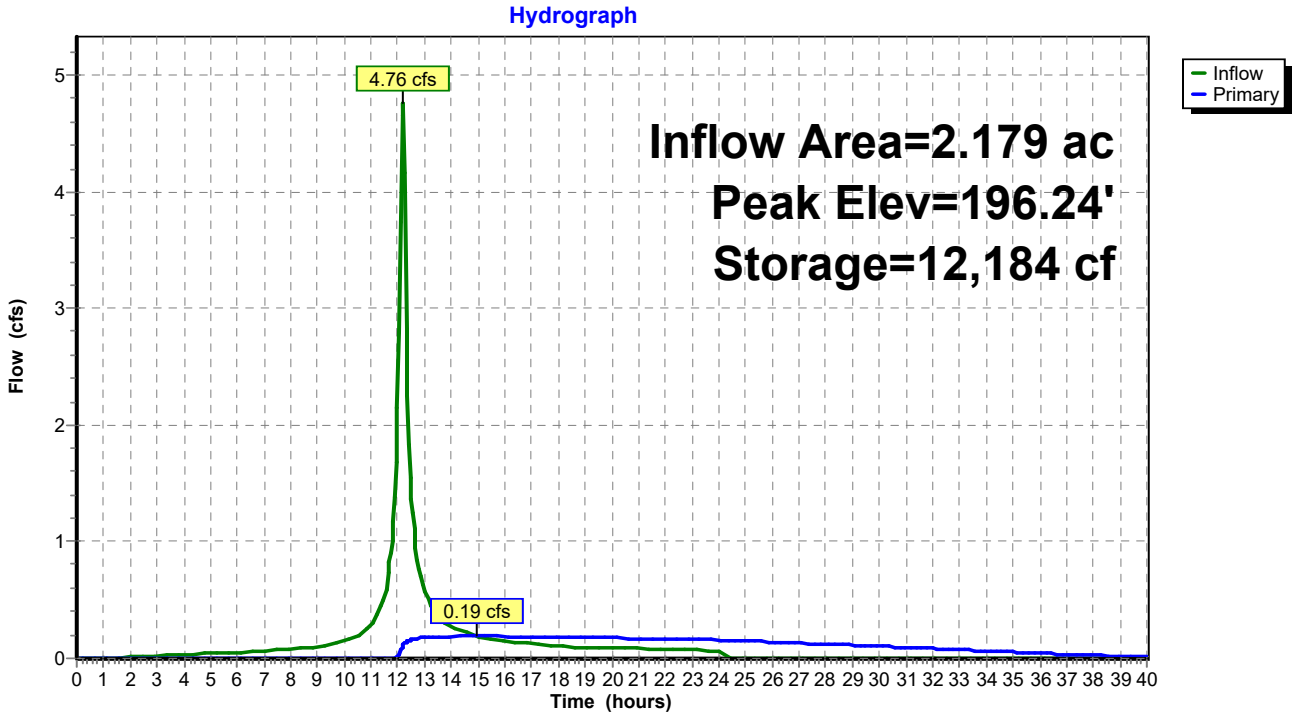
Volume	Invert	Avail.Storage	Storage Description
#1	193.30'	24,651 cf	**Custom Stage Data (Prismatic)** Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
193.30	0	0	0
194.00	3,709	1,298	1,298
195.00	4,724	4,217	5,515
196.00	5,796	5,260	10,775
197.00	6,924	6,360	17,135
198.00	8,108	7,516	24,651

Device	Routing	Invert	Outlet Devices
#1	Primary	192.65'	**18.0" Round Culvert** L= 265.0' Ke= 0.500 Inlet / Outlet Invert= 192.65' / 191.33' S= 0.0050 '/' Cc= 0.900 n= 0.013, Flow Area= 1.77 sf
#2	Device 1	194.81'	**2.5" Vert. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#3	Device 1	196.63'	**4.0' long Sharp-Crested Rectangular Weir** 2 End Contraction(s)
#4	Primary	197.95'	**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=0.19 cfs @ 14.98 hrs HW=196.24' (Free Discharge)
- **1=Culvert** (Passes 0.19 cfs of 10.39 cfs potential flow)
  - **2=Orifice/Grate** (Orifice Controls 0.19 cfs @ 5.54 fps)
  - **3=Sharp-Crested Rectangular Weir** (Controls 0.00 cfs)
- **4=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)

Pond B-37B: Basin #37B



Stage-Discharge for Pond B-37B: Basin #37B

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
193.30	0.00	193.82	0.00	194.34	0.00	194.86	0.00
193.31	0.00	193.83	0.00	194.35	0.00	194.87	0.01
193.32	0.00	193.84	0.00	194.36	0.00	194.88	0.01
193.33	0.00	193.85	0.00	194.37	0.00	194.89	0.01
193.34	0.00	193.86	0.00	194.38	0.00	194.90	0.01
193.35	0.00	193.87	0.00	194.39	0.00	194.91	0.02
193.36	0.00	193.88	0.00	194.40	0.00	194.92	0.02
193.37	0.00	193.89	0.00	194.41	0.00	194.93	0.02
193.38	0.00	193.90	0.00	194.42	0.00	194.94	0.03
193.39	0.00	193.91	0.00	194.43	0.00	194.95	0.03
193.40	0.00	193.92	0.00	194.44	0.00	194.96	0.03
193.41	0.00	193.93	0.00	194.45	0.00	194.97	0.04
193.42	0.00	193.94	0.00	194.46	0.00	194.98	0.04
193.43	0.00	193.95	0.00	194.47	0.00	194.99	0.05
193.44	0.00	193.96	0.00	194.48	0.00	195.00	0.05
193.45	0.00	193.97	0.00	194.49	0.00	195.01	0.05
193.46	0.00	193.98	0.00	194.50	0.00	195.02	0.05
193.47	0.00	193.99	0.00	194.51	0.00	195.03	0.06
193.48	0.00	194.00	0.00	194.52	0.00	195.04	0.06
193.49	0.00	194.01	0.00	194.53	0.00	195.05	0.06
193.50	0.00	194.02	0.00	194.54	0.00	195.06	0.06
193.51	0.00	194.03	0.00	194.55	0.00	195.07	0.06
193.52	0.00	194.04	0.00	194.56	0.00	195.08	0.07
193.53	0.00	194.05	0.00	194.57	0.00	195.09	0.07
193.54	0.00	194.06	0.00	194.58	0.00	195.10	0.07
193.55	0.00	194.07	0.00	194.59	0.00	195.11	0.07
193.56	0.00	194.08	0.00	194.60	0.00	195.12	0.07
193.57	0.00	194.09	0.00	194.61	0.00	195.13	0.08
193.58	0.00	194.10	0.00	194.62	0.00	195.14	0.08
193.59	0.00	194.11	0.00	194.63	0.00	195.15	0.08
193.60	0.00	194.12	0.00	194.64	0.00	195.16	0.08
193.61	0.00	194.13	0.00	194.65	0.00	195.17	0.08
193.62	0.00	194.14	0.00	194.66	0.00	195.18	0.08
193.63	0.00	194.15	0.00	194.67	0.00	195.19	0.09
193.64	0.00	194.16	0.00	194.68	0.00	195.20	0.09
193.65	0.00	194.17	0.00	194.69	0.00	195.21	0.09
193.66	0.00	194.18	0.00	194.70	0.00	195.22	0.09
193.67	0.00	194.19	0.00	194.71	0.00	195.23	0.09
193.68	0.00	194.20	0.00	194.72	0.00	195.24	0.09
193.69	0.00	194.21	0.00	194.73	0.00	195.25	0.10
193.70	0.00	194.22	0.00	194.74	0.00	195.26	0.10
193.71	0.00	194.23	0.00	194.75	0.00	195.27	0.10
193.72	0.00	194.24	0.00	194.76	0.00	195.28	0.10
193.73	0.00	194.25	0.00	194.77	0.00	195.29	0.10
193.74	0.00	194.26	0.00	194.78	0.00	195.30	0.10
193.75	0.00	194.27	0.00	194.79	0.00	195.31	0.10
193.76	0.00	194.28	0.00	194.80	0.00	195.32	0.10
193.77	0.00	194.29	0.00	194.81	0.00	195.33	0.11
193.78	0.00	194.30	0.00	194.82	0.00	195.34	0.11
193.79	0.00	194.31	0.00	194.83	0.00	195.35	0.11
193.80	0.00	194.32	0.00	194.84	0.00	195.36	0.11
193.81	0.00	194.33	0.00	194.85	0.00	195.37	0.11

Stage-Discharge for Pond B-37B: Basin #37B (continued)

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
195.38	0.11	195.90	0.16	196.42	0.20	196.94	2.46
195.39	0.11	195.91	0.16	196.43	0.20	196.95	2.56
195.40	0.11	195.92	0.16	196.44	0.20	196.96	2.67
195.41	0.12	195.93	0.17	196.45	0.20	196.97	2.78
195.42	0.12	195.94	0.17	196.46	0.20	196.98	2.90
195.43	0.12	195.95	0.17	196.47	0.20	196.99	3.01
195.44	0.12	195.96	0.17	196.48	0.21	197.00	3.13
195.45	0.12	195.97	0.17	196.49	0.21	197.01	3.24
195.46	0.12	195.98	0.17	196.50	0.21	197.02	3.36
195.47	0.12	195.99	0.17	196.51	0.21	197.03	3.48
195.48	0.12	196.00	0.17	196.52	0.21	197.04	3.60
195.49	0.12	196.01	0.17	196.53	0.21	197.05	3.73
195.50	0.13	196.02	0.17	196.54	0.21	197.06	3.85
195.51	0.13	196.03	0.17	196.55	0.21	197.07	3.97
195.52	0.13	196.04	0.17	196.56	0.21	197.08	4.10
195.53	0.13	196.05	0.17	196.57	0.21	197.09	4.23
195.54	0.13	196.06	0.18	196.58	0.21	197.10	4.36
195.55	0.13	196.07	0.18	196.59	0.21	197.11	4.49
195.56	0.13	196.08	0.18	196.60	0.21	197.12	4.62
195.57	0.13	196.09	0.18	196.61	0.21	197.13	4.75
195.58	0.13	196.10	0.18	196.62	0.21	197.14	4.89
195.59	0.13	196.11	0.18	196.63	0.22	197.15	5.02
195.60	0.14	196.12	0.18	196.64	0.23	197.16	5.16
195.61	0.14	196.13	0.18	196.65	0.25	197.17	5.30
195.62	0.14	196.14	0.18	196.66	0.28	197.18	5.44
195.63	0.14	196.15	0.18	196.67	0.32	197.19	5.58
195.64	0.14	196.16	0.18	196.68	0.36	197.20	5.72
195.65	0.14	196.17	0.18	196.69	0.41	197.21	5.86
195.66	0.14	196.18	0.18	196.70	0.46	197.22	6.00
195.67	0.14	196.19	0.19	196.71	0.51	197.23	6.15
195.68	0.14	196.20	0.19	196.72	0.57	197.24	6.29
195.69	0.14	196.21	0.19	196.73	0.63	197.25	6.44
195.70	0.15	196.22	0.19	196.74	0.70	197.26	6.59
195.71	0.15	196.23	0.19	196.75	0.76	197.27	6.73
195.72	0.15	196.24	0.19	196.76	0.83	197.28	6.88
195.73	0.15	196.25	0.19	196.77	0.90	197.29	7.03
195.74	0.15	196.26	0.19	196.78	0.98	197.30	7.19
195.75	0.15	196.27	0.19	196.79	1.06	197.31	7.34
195.76	0.15	196.28	0.19	196.80	1.13	197.32	7.49
195.77	0.15	196.29	0.19	196.81	1.22	197.33	7.65
195.78	0.15	196.30	0.19	196.82	1.30	197.34	7.80
195.79	0.15	196.31	0.19	196.83	1.39	197.35	7.96
195.80	0.15	196.32	0.19	196.84	1.47	197.36	8.12
195.81	0.16	196.33	0.20	196.85	1.56	197.37	8.28
195.82	0.16	196.34	0.20	196.86	1.66	197.38	8.43
195.83	0.16	196.35	0.20	196.87	1.75	197.39	8.60
195.84	0.16	196.36	0.20	196.88	1.84	197.40	8.76
195.85	0.16	196.37	0.20	196.89	1.94	197.41	8.92
195.86	0.16	196.38	0.20	196.90	2.04	197.42	9.08
195.87	0.16	196.39	0.20	196.91	2.14	197.43	9.25
195.88	0.16	196.40	0.20	196.92	2.25	197.44	9.41
195.89	0.16	196.41	0.20	196.93	2.35	197.45	9.58

Stage-Discharge for Pond B-37B: Basin #37B (continued)

Elevation (feet)	Primary (cfs)
197.46	9.74
197.47	9.91
197.48	10.08
197.49	10.25
197.50	10.42
197.51	10.59
197.52	10.76
197.53	10.93
197.54	11.10
197.55	11.28
197.56	11.45
197.57	11.63
197.58	11.80
197.59	11.98
197.60	12.16
197.61	12.31
197.62	12.32
197.63	12.33
197.64	12.35
197.65	12.36
197.66	12.37
197.67	12.38
197.68	12.40
197.69	12.41
197.70	12.42
197.71	12.44
197.72	12.45
197.73	12.46
197.74	12.47
197.75	12.49
197.76	12.50
197.77	12.51
197.78	12.52
197.79	12.54
197.80	12.55
197.81	12.56
197.82	12.57
197.83	12.59
197.84	12.60
197.85	12.61
197.86	12.63
197.87	12.64
197.88	12.65
197.89	12.66
197.90	12.68
197.91	12.69
197.92	12.70
197.93	12.71
197.94	12.73
197.95	12.74
197.96	12.87
197.97	13.09
197.98	13.38
197.99	13.73
198.00	**14.11**

Stage-Area-Storage for Pond B-37B: Basin #37B

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
193.30	0	0
193.31	53	0
193.32	106	1
193.33	159	2
193.34	212	4
193.35	265	7
193.36	318	10
193.37	371	13
193.38	424	17
193.39	477	21
193.40	530	26
193.41	583	32
193.42	636	38
193.43	689	45
193.44	742	52
193.45	795	60
193.46	848	68
193.47	901	77
193.48	954	86
193.49	1,007	96
193.50	1,060	106
193.51	1,113	117
193.52	1,166	128
193.53	1,219	140
193.54	1,272	153
193.55	1,325	166
193.56	1,378	179
193.57	1,431	193
193.58	1,484	208
193.59	1,537	223
193.60	1,590	238
193.61	1,643	255
193.62	1,696	271
193.63	1,749	289
193.64	1,802	306
193.65	1,855	325
193.66	1,907	343
193.67	1,960	363
193.68	2,013	383
193.69	2,066	403
193.70	2,119	424
193.71	2,172	445
193.72	2,225	467
193.73	2,278	490
193.74	2,331	513
193.75	2,384	536
193.76	2,437	561
193.77	2,490	585
193.78	2,543	610
193.79	2,596	636
193.80	2,649	662
193.81	2,702	689
193.82	2,755	716
193.83	2,808	744
193.84	2,861	773
193.85	2,914	801
193.86	2,967	831
193.87	3,020	861
193.88	3,073	891
193.89	3,126	922
193.90	3,179	954
193.91	3,232	986
193.92	3,285	1,018
193.93	3,338	1,052
193.94	3,391	1,085
193.95	3,444	1,119
193.96	3,497	1,154
193.97	3,550	1,189
193.98	3,603	1,225
193.99	3,656	1,261
194.00	3,709	1,298
194.01	3,719	1,335
194.02	3,729	1,373
194.03	3,739	1,410
194.04	3,750	1,447
194.05	3,760	1,485
194.06	3,770	1,523
194.07	3,780	1,560
194.08	3,790	1,598
194.09	3,800	1,636
194.10	3,811	1,674
194.11	3,821	1,712
194.12	3,831	1,751
194.13	3,841	1,789
194.14	3,851	1,827
194.15	3,861	1,866
194.16	3,871	1,905
194.17	3,882	1,943
194.18	3,892	1,982
194.19	3,902	2,021
194.20	3,912	2,060
194.21	3,922	2,099
194.22	3,932	2,139
194.23	3,942	2,178
194.24	3,953	2,218
194.25	3,963	2,257
194.26	3,973	2,297
194.27	3,983	2,337
194.28	3,993	2,376
194.29	4,003	2,416
194.30	4,014	2,457
194.31	4,024	2,497
194.32	4,034	2,537
194.33	4,044	2,577

Stage-Area-Storage for Pond B-37B: Basin #37B (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
194.34	4,054	2,618
194.35	4,064	2,658
194.36	4,074	2,699
194.37	4,085	2,740
194.38	4,095	2,781
194.39	4,105	2,822
194.40	4,115	2,863
194.41	4,125	2,904
194.42	4,135	2,945
194.43	4,145	2,987
194.44	4,156	3,028
194.45	4,166	3,070
194.46	4,176	3,112
194.47	4,186	3,153
194.48	4,196	3,195
194.49	4,206	3,237
194.50	4,217	3,280
194.51	4,227	3,322
194.52	4,237	3,364
194.53	4,247	3,406
194.54	4,257	3,449
194.55	4,267	3,492
194.56	4,277	3,534
194.57	4,288	3,577
194.58	4,298	3,620
194.59	4,308	3,663
194.60	4,318	3,706
194.61	4,328	3,749
194.62	4,338	3,793
194.63	4,348	3,836
194.64	4,359	3,880
194.65	4,369	3,923
194.66	4,379	3,967
194.67	4,389	4,011
194.68	4,399	4,055
194.69	4,409	4,099
194.70	4,420	4,143
194.71	4,430	4,187
194.72	4,440	4,232
194.73	4,450	4,276
194.74	4,460	4,321
194.75	4,470	4,365
194.76	4,480	4,410
194.77	4,491	4,455
194.78	4,501	4,500
194.79	4,511	4,545
194.80	4,521	4,590
194.81	4,531	4,635
194.82	4,541	4,681
194.83	4,551	4,726
194.84	4,562	4,772
194.85	4,572	4,817
194.86	4,582	4,863
194.87	4,592	4,909
194.88	4,602	4,955
194.89	4,612	5,001
194.90	4,623	5,047
194.91	4,633	5,094
194.92	4,643	5,140
194.93	4,653	5,186
194.94	4,663	5,233
194.95	4,673	5,280
194.96	4,683	5,327
194.97	4,694	5,373
194.98	4,704	5,420
194.99	4,714	5,467
195.00	4,724	5,515
195.01	4,735	5,562
195.02	4,745	5,609
195.03	4,756	5,657
195.04	4,767	5,704
195.05	4,778	5,752
195.06	4,788	5,800
195.07	4,799	5,848
195.08	4,810	5,896
195.09	4,820	5,944
195.10	4,831	5,992
195.11	4,842	6,041
195.12	4,853	6,089
195.13	4,863	6,138
195.14	4,874	6,187
195.15	4,885	6,235
195.16	4,896	6,284
195.17	4,906	6,333
195.18	4,917	6,382
195.19	4,928	6,432
195.20	4,938	6,481
195.21	4,949	6,530
195.22	4,960	6,580
195.23	4,971	6,630
195.24	4,981	6,679
195.25	4,992	6,729
195.26	5,003	6,779
195.27	5,013	6,829
195.28	5,024	6,879
195.29	5,035	6,930
195.30	5,046	6,980
195.31	5,056	7,031
195.32	5,067	7,081
195.33	5,078	7,132
195.34	5,088	7,183
195.35	5,099	7,234
195.36	5,110	7,285
195.37	5,121	7,336

Stage-Area-Storage for Pond B-37B: Basin #37B (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
195.38	5,131	7,387	195.90	5,689	10,200
195.39	5,142	7,439	195.91	5,700	10,257
195.40	5,153	7,490	195.92	5,710	10,314
195.41	5,164	7,542	195.93	5,721	10,372
195.42	5,174	7,593	195.94	5,732	10,429
195.43	5,185	7,645	195.95	5,742	10,486
195.44	5,196	7,697	195.96	5,753	10,544
195.45	5,206	7,749	195.97	5,764	10,601
195.46	5,217	7,801	195.98	5,775	10,659
195.47	5,228	7,853	195.99	5,785	10,717
195.48	5,239	7,906	196.00	5,796	10,775
195.49	5,249	7,958	196.01	5,807	10,833
195.50	5,260	8,011	196.02	5,819	10,891
195.51	5,271	8,063	196.03	5,830	10,949
195.52	5,281	8,116	196.04	5,841	11,007
195.53	5,292	8,169	196.05	5,852	11,066
195.54	5,303	8,222	196.06	5,864	11,124
195.55	5,314	8,275	196.07	5,875	11,183
195.56	5,324	8,328	196.08	5,886	11,242
195.57	5,335	8,381	196.09	5,898	11,301
195.58	5,346	8,435	196.10	5,909	11,360
195.59	5,356	8,488	196.11	5,920	11,419
195.60	5,367	8,542	196.12	5,931	11,478
195.61	5,378	8,596	196.13	5,943	11,538
195.62	5,389	8,650	196.14	5,954	11,597
195.63	5,399	8,704	196.15	5,965	11,657
195.64	5,410	8,758	196.16	5,976	11,716
195.65	5,421	8,812	196.17	5,988	11,776
195.66	5,432	8,866	196.18	5,999	11,836
195.67	5,442	8,920	196.19	6,010	11,896
195.68	5,453	8,975	196.20	6,022	11,956
195.69	5,464	9,029	196.21	6,033	12,017
195.70	5,474	9,084	196.22	6,044	12,077
195.71	5,485	9,139	196.23	6,055	12,138
195.72	5,496	9,194	196.24	6,067	12,198
195.73	5,507	9,249	196.25	6,078	12,259
195.74	5,517	9,304	196.26	6,089	12,320
195.75	5,528	9,359	196.27	6,101	12,381
195.76	5,539	9,414	196.28	6,112	12,442
195.77	5,549	9,470	196.29	6,123	12,503
195.78	5,560	9,525	196.30	6,134	12,564
195.79	5,571	9,581	196.31	6,146	12,626
195.80	5,582	9,637	196.32	6,157	12,687
195.81	5,592	9,693	196.33	6,168	12,749
195.82	5,603	9,749	196.34	6,180	12,810
195.83	5,614	9,805	196.35	6,191	12,872
195.84	5,624	9,861	196.36	6,202	12,934
195.85	5,635	9,917	196.37	6,213	12,996
195.86	5,646	9,974	196.38	6,225	13,059
195.87	5,657	10,030	196.39	6,236	13,121
195.88	5,667	10,087	196.40	6,247	13,183
195.89	5,678	10,144	196.41	6,258	13,246

Stage-Area-Storage for Pond B-37B: Basin #37B (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
196.42	6,270	13,308	196.94	6,856	16,721
196.43	6,281	13,371	196.95	6,868	16,790
196.44	6,292	13,434	196.96	6,879	16,859
196.45	6,304	13,497	196.97	6,890	16,927
196.46	6,315	13,560	196.98	6,901	16,996
196.47	6,326	13,623	196.99	6,913	17,065
196.48	6,337	13,687	197.00	6,924	17,135
196.49	6,349	13,750	197.01	6,936	17,204
196.50	6,360	13,814	197.02	6,948	17,273
196.51	6,371	13,877	197.03	6,960	17,343
196.52	6,383	13,941	197.04	6,971	17,413
196.53	6,394	14,005	197.05	6,983	17,482
196.54	6,405	14,069	197.06	6,995	17,552
196.55	6,416	14,133	197.07	7,007	17,622
196.56	6,428	14,197	197.08	7,019	17,692
196.57	6,439	14,262	197.09	7,031	17,763
196.58	6,450	14,326	197.10	7,042	17,833
196.59	6,462	14,391	197.11	7,054	17,903
196.60	6,473	14,455	197.12	7,066	17,974
196.61	6,484	14,520	197.13	7,078	18,045
196.62	6,495	14,585	197.14	7,090	18,116
196.63	6,507	14,650	197.15	7,102	18,187
196.64	6,518	14,715	197.16	7,113	18,258
196.65	6,529	14,780	197.17	7,125	18,329
196.66	6,540	14,846	197.18	7,137	18,400
196.67	6,552	14,911	197.19	7,149	18,472
196.68	6,563	14,977	197.20	7,161	18,543
196.69	6,574	15,042	197.21	7,173	18,615
196.70	6,586	15,108	197.22	7,184	18,687
196.71	6,597	15,174	197.23	7,196	18,758
196.72	6,608	15,240	197.24	7,208	18,831
196.73	6,619	15,306	197.25	7,220	18,903
196.74	6,631	15,373	197.26	7,232	18,975
196.75	6,642	15,439	197.27	7,244	19,047
196.76	6,653	15,505	197.28	7,256	19,120
196.77	6,665	15,572	197.29	7,267	19,192
196.78	6,676	15,639	197.30	7,279	19,265
196.79	6,687	15,705	197.31	7,291	19,338
196.80	6,698	15,772	197.32	7,303	19,411
196.81	6,710	15,839	197.33	7,315	19,484
196.82	6,721	15,907	197.34	7,327	19,557
196.83	6,732	15,974	197.35	7,338	19,631
196.84	6,744	16,041	197.36	7,350	19,704
196.85	6,755	16,109	197.37	7,362	19,778
196.86	6,766	16,176	197.38	7,374	19,851
196.87	6,777	16,244	197.39	7,386	19,925
196.88	6,789	16,312	197.40	7,398	19,999
196.89	6,800	16,380	197.41	7,409	20,073
196.90	6,811	16,448	197.42	7,421	20,147
196.91	6,822	16,516	197.43	7,433	20,221
196.92	6,834	16,584	197.44	7,445	20,296
196.93	6,845	16,653	197.45	7,457	20,370

Stage-Area-Storage for Pond B-37B: Basin #37B (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
197.46	7,469	20,445
197.47	7,480	20,520
197.48	7,492	20,595
197.49	7,504	20,670
197.50	7,516	20,745
197.51	7,528	20,820
197.52	7,540	20,895
197.53	7,552	20,971
197.54	7,563	21,046
197.55	7,575	21,122
197.56	7,587	21,198
197.57	7,599	21,274
197.58	7,611	21,350
197.59	7,623	21,426
197.60	7,634	21,502
197.61	7,646	21,579
197.62	7,658	21,655
197.63	7,670	21,732
197.64	7,682	21,808
197.65	7,694	21,885
197.66	7,705	21,962
197.67	7,717	22,039
197.68	7,729	22,117
197.69	7,741	22,194
197.70	7,753	22,272
197.71	7,765	22,349
197.72	7,776	22,427
197.73	7,788	22,505
197.74	7,800	22,583
197.75	7,812	22,661
197.76	7,824	22,739
197.77	7,836	22,817
197.78	7,848	22,896
197.79	7,859	22,974
197.80	7,871	23,053
197.81	7,883	23,132
197.82	7,895	23,210
197.83	7,907	23,289
197.84	7,919	23,369
197.85	7,930	23,448
197.86	7,942	23,527
197.87	7,954	23,607
197.88	7,966	23,686
197.89	7,978	23,766
197.90	7,990	23,846
197.91	8,001	23,926
197.92	8,013	24,006
197.93	8,025	24,086
197.94	8,037	24,166
197.95	8,049	24,247
197.96	8,061	24,327
197.97	8,072	24,408
197.98	8,084	24,489
197.99	8,096	24,570
198.00	**8,108**	**24,651**

Summary for Pond B-38: Basin #38

Inflow Area = 2.114 ac, 34.96% Impervious, Inflow Depth = 1.83" for Current 2 yr event
Inflow = 3.90 cfs @ 12.18 hrs, Volume= 0.322 af
Outflow = 0.16 cfs @ 15.03 hrs, Volume= 0.240 af, Atten= 96%, Lag= 171.5 min
Primary = 0.16 cfs @ 15.03 hrs, Volume= 0.240 af
Routed to Link PDA-3 : Proposed Drainage Area #3

Routing by Stor-Ind method, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
Peak Elev= 206.35' @ 15.03 hrs Surf.Area= 6,294 sf Storage= 9,482 cf

Plug-Flow detention time= 631.5 min calculated for 0.239 af (74% of inflow)
Center-of-Mass det. time= 535.6 min (1,338.9 - 803.2)

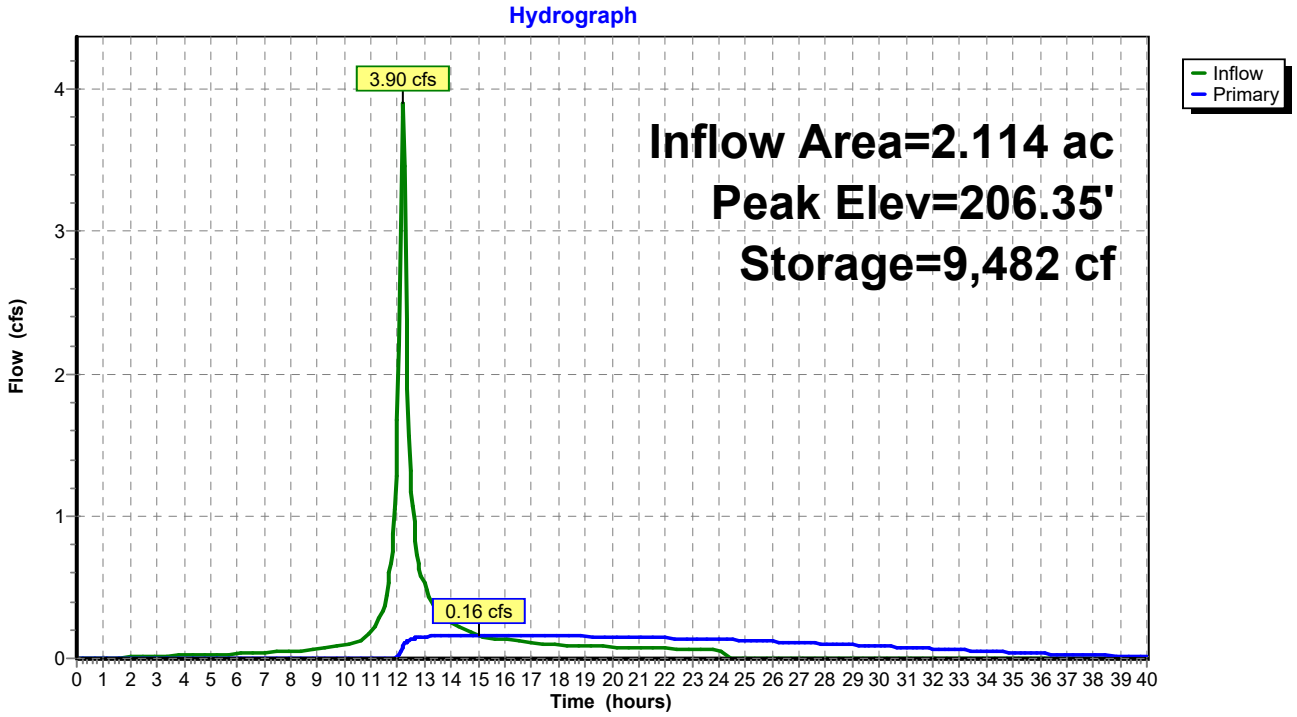
Volume	Invert	Avail.Storage	Storage Description
#1	204.30'	29,525 cf	**Custom Stage Data (Prismatic)** Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
204.30	0	0	0
205.00	5,096	1,784	1,784
206.00	5,966	5,531	7,315
207.00	6,893	6,430	13,744
208.00	7,876	7,385	21,129
209.00	8,916	8,396	29,525

Device	Routing	Invert	Outlet Devices
#1	Primary	204.30'	**18.0" Round Culvert** L= 33.0' Ke= 0.500 Inlet / Outlet Invert= 204.30' / 204.13' S= 0.0052 '/' Cc= 0.900 n= 0.013, Flow Area= 1.77 sf
#2	Device 1	205.26'	**2.5" Vert. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#3	Device 1	206.69'	**4.0' long Sharp-Crested Rectangular Weir** 2 End Contraction(s)
#4	Primary	208.25'	**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 @ 15.03 hrs HW=206.35' (Free Discharge)
- **1=Culvert** (Passes 0.16 cfs of 8.32 cfs potential flow)
  - **2=Orifice/Grate** (Orifice Controls 0.16 cfs @ 4.79 fps)
  - **3=Sharp-Crested Rectangular Weir** (Controls 0.00 cfs)
- **4=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)

Pond B-38: Basin #38



Stage-Discharge for Pond B-38: Basin #38

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
204.30	0.00	204.82	0.00	205.34	0.01	205.86	0.12
204.31	0.00	204.83	0.00	205.35	0.01	205.87	0.12
204.32	0.00	204.84	0.00	205.36	0.02	205.88	0.12
204.33	0.00	204.85	0.00	205.37	0.02	205.89	0.12
204.34	0.00	204.86	0.00	205.38	0.02	205.90	0.12
204.35	0.00	204.87	0.00	205.39	0.03	205.91	0.12
204.36	0.00	204.88	0.00	205.40	0.03	205.92	0.12
204.37	0.00	204.89	0.00	205.41	0.03	205.93	0.12
204.38	0.00	204.90	0.00	205.42	0.04	205.94	0.12
204.39	0.00	204.91	0.00	205.43	0.04	205.95	0.13
204.40	0.00	204.92	0.00	205.44	0.05	205.96	0.13
204.41	0.00	204.93	0.00	205.45	0.05	205.97	0.13
204.42	0.00	204.94	0.00	205.46	0.05	205.98	0.13
204.43	0.00	204.95	0.00	205.47	0.05	205.99	0.13
204.44	0.00	204.96	0.00	205.48	0.06	206.00	0.13
204.45	0.00	204.97	0.00	205.49	0.06	206.01	0.13
204.46	0.00	204.98	0.00	205.50	0.06	206.02	0.13
204.47	0.00	204.99	0.00	205.51	0.06	206.03	0.13
204.48	0.00	205.00	0.00	205.52	0.06	206.04	0.13
204.49	0.00	205.01	0.00	205.53	0.07	206.05	0.14
204.50	0.00	205.02	0.00	205.54	0.07	206.06	0.14
204.51	0.00	205.03	0.00	205.55	0.07	206.07	0.14
204.52	0.00	205.04	0.00	205.56	0.07	206.08	0.14
204.53	0.00	205.05	0.00	205.57	0.07	206.09	0.14
204.54	0.00	205.06	0.00	205.58	0.08	206.10	0.14
204.55	0.00	205.07	0.00	205.59	0.08	206.11	0.14
204.56	0.00	205.08	0.00	205.60	0.08	206.12	0.14
204.57	0.00	205.09	0.00	205.61	0.08	206.13	0.14
204.58	0.00	205.10	0.00	205.62	0.08	206.14	0.14
204.59	0.00	205.11	0.00	205.63	0.08	206.15	0.15
204.60	0.00	205.12	0.00	205.64	0.09	206.16	0.15
204.61	0.00	205.13	0.00	205.65	0.09	206.17	0.15
204.62	0.00	205.14	0.00	205.66	0.09	206.18	0.15
204.63	0.00	205.15	0.00	205.67	0.09	206.19	0.15
204.64	0.00	205.16	0.00	205.68	0.09	206.20	0.15
204.65	0.00	205.17	0.00	205.69	0.09	206.21	0.15
204.66	0.00	205.18	0.00	205.70	0.10	206.22	0.15
204.67	0.00	205.19	0.00	205.71	0.10	206.23	0.15
204.68	0.00	205.20	0.00	205.72	0.10	206.24	0.15
204.69	0.00	205.21	0.00	205.73	0.10	206.25	0.15
204.70	0.00	205.22	0.00	205.74	0.10	206.26	0.16
204.71	0.00	205.23	0.00	205.75	0.10	206.27	0.16
204.72	0.00	205.24	0.00	205.76	0.10	206.28	0.16
204.73	0.00	205.25	0.00	205.77	0.10	206.29	0.16
204.74	0.00	205.26	0.00	205.78	0.11	206.30	0.16
204.75	0.00	205.27	0.00	205.79	0.11	206.31	0.16
204.76	0.00	205.28	0.00	205.80	0.11	206.32	0.16
204.77	0.00	205.29	0.00	205.81	0.11	206.33	0.16
204.78	0.00	205.30	0.00	205.82	0.11	206.34	0.16
204.79	0.00	205.31	0.00	205.83	0.11	206.35	0.16
204.80	0.00	205.32	0.01	205.84	0.11	206.36	0.16
204.81	0.00	205.33	0.01	205.85	0.11	206.37	0.16

Stage-Discharge for Pond B-38: Basin #38 (continued)

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
206.38	0.17	206.90	1.45	207.42	8.10	207.94	14.46
206.39	0.17	206.91	1.54	207.43	8.25	207.95	14.49
206.40	0.17	206.92	1.63	207.44	8.41	207.96	14.51
206.41	0.17	206.93	1.72	207.45	8.57	207.97	14.54
206.42	0.17	206.94	1.82	207.46	8.74	207.98	14.56
206.43	0.17	206.95	1.92	207.47	8.90	207.99	14.59
206.44	0.17	206.96	2.02	207.48	9.06	208.00	14.61
206.45	0.17	206.97	2.12	207.49	9.22	208.01	14.64
206.46	0.17	206.98	2.22	207.50	9.39	208.02	14.66
206.47	0.17	206.99	2.33	207.51	9.55	208.03	14.69
206.48	0.17	207.00	2.43	207.52	9.72	208.04	14.71
206.49	0.17	207.01	2.54	207.53	9.89	208.05	14.74
206.50	0.17	207.02	2.65	207.54	10.06	208.06	14.76
206.51	0.18	207.03	2.76	207.55	10.23	208.07	14.79
206.52	0.18	207.04	2.87	207.56	10.40	208.08	14.81
206.53	0.18	207.05	2.99	207.57	10.57	208.09	14.84
206.54	0.18	207.06	3.10	207.58	10.74	208.10	14.86
206.55	0.18	207.07	3.22	207.59	10.91	208.11	14.88
206.56	0.18	207.08	3.34	207.60	11.08	208.12	14.91
206.57	0.18	207.09	3.46	207.61	11.26	208.13	14.93
206.58	0.18	207.10	3.58	207.62	11.43	208.14	14.96
206.59	0.18	207.11	3.70	207.63	11.61	208.15	14.98
206.60	0.18	207.12	3.83	207.64	11.78	208.16	15.01
206.61	0.18	207.13	3.95	207.65	11.96	208.17	15.03
206.62	0.18	207.14	4.08	207.66	12.14	208.18	15.05
206.63	0.18	207.15	4.21	207.67	12.32	208.19	15.08
206.64	0.19	207.16	4.34	207.68	12.50	208.20	15.10
206.65	0.19	207.17	4.47	207.69	12.68	208.21	15.13
206.66	0.19	207.18	4.60	207.70	12.86	208.22	15.15
206.67	0.19	207.19	4.73	207.71	13.04	208.23	15.17
206.68	0.19	207.20	4.86	207.72	13.22	208.24	15.20
206.69	0.19	207.21	5.00	207.73	13.40	208.25	15.22
206.70	0.20	207.22	5.14	207.74	13.59	208.26	15.36
206.71	0.23	207.23	5.27	207.75	13.77	208.27	15.60
206.72	0.26	207.24	5.41	207.76	13.96	208.28	15.90
206.73	0.30	207.25	5.55	207.77	14.03	208.29	16.25
206.74	0.34	207.26	5.69	207.78	14.06	208.30	16.65
206.75	0.38	207.27	5.84	207.79	14.08	208.31	17.09
206.76	0.44	207.28	5.98	207.80	14.11	208.32	17.56
206.77	0.49	207.29	6.12	207.81	14.14	208.33	18.07
206.78	0.55	207.30	6.27	207.82	14.16	208.34	18.61
206.79	0.61	207.31	6.42	207.83	14.19	208.35	19.17
206.80	0.67	207.32	6.56	207.84	14.21	208.36	19.77
206.81	0.74	207.33	6.71	207.85	14.24	208.37	20.40
206.82	0.81	207.34	6.86	207.86	14.26	208.38	21.05
206.83	0.88	207.35	7.01	207.87	14.29	208.39	21.72
206.84	0.95	207.36	7.16	207.88	14.31	208.40	22.42
206.85	1.03	207.37	7.32	207.89	14.34	208.41	23.14
206.86	1.11	207.38	7.47	207.90	14.36	208.42	23.89
206.87	1.19	207.39	7.63	207.91	14.39	208.43	24.66
206.88	1.28	207.40	7.78	207.92	14.41	208.44	25.44
206.89	1.36	207.41	7.94	207.93	14.44	208.45	26.25

Stage-Discharge for Pond B-38: Basin #38 (continued)

Elevation (feet)	Primary (cfs)
208.46	27.12
208.47	28.02
208.48	28.94
208.49	29.89
208.50	30.86
208.51	31.85
208.52	32.88
208.53	33.92
208.54	34.99
208.55	36.09
208.56	37.21
208.57	38.35
208.58	39.52
208.59	40.71
208.60	41.93
208.61	43.17
208.62	44.43
208.63	45.72
208.64	47.04
208.65	48.37
208.66	49.76
208.67	51.18
208.68	52.62
208.69	54.08
208.70	55.58
208.71	57.09
208.72	58.64
208.73	60.21
208.74	61.81
208.75	63.43
208.76	65.08
208.77	66.76
208.78	68.46
208.79	70.19
208.80	71.95
208.81	73.73
208.82	75.54
208.83	77.38
208.84	79.24
208.85	81.14
208.86	82.78
208.87	84.45
208.88	86.12
208.89	87.81
208.90	89.51
208.91	91.23
208.92	92.96
208.93	94.70
208.94	96.45
208.95	98.22
208.96	100.00
208.97	101.79
208.98	103.60
208.99	105.42
209.00	**107.25**

Stage-Area-Storage for Pond B-38: Basin #38

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
204.30	0	0	204.82	3,786	984
204.31	73	0	204.83	3,858	1,022
204.32	146	1	204.84	3,931	1,061
204.33	218	3	204.85	4,004	1,101
204.34	291	6	204.86	4,077	1,142
204.35	364	9	204.87	4,150	1,183
204.36	437	13	204.88	4,222	1,224
204.37	510	18	204.89	4,295	1,267
204.38	582	23	204.90	4,368	1,310
204.39	655	29	204.91	4,441	1,354
204.40	728	36	204.92	4,514	1,399
204.41	801	44	204.93	4,586	1,445
204.42	874	52	204.94	4,659	1,491
204.43	946	62	204.95	4,732	1,538
204.44	1,019	71	204.96	4,805	1,586
204.45	1,092	82	204.97	4,878	1,634
204.46	1,165	93	204.98	4,950	1,683
204.47	1,238	105	204.99	5,023	1,733
204.48	1,310	118	205.00	5,096	1,784
204.49	1,383	131	205.01	5,105	1,835
204.50	1,456	146	205.02	5,113	1,886
204.51	1,529	161	205.03	5,122	1,937
204.52	1,602	176	205.04	5,131	1,988
204.53	1,674	193	205.05	5,140	2,039
204.54	1,747	210	205.06	5,148	2,091
204.55	1,820	228	205.07	5,157	2,142
204.56	1,893	246	205.08	5,166	2,194
204.57	1,966	265	205.09	5,174	2,246
204.58	2,038	285	205.10	5,183	2,298
204.59	2,111	306	205.11	5,192	2,349
204.60	2,184	328	205.12	5,200	2,401
204.61	2,257	350	205.13	5,209	2,453
204.62	2,330	373	205.14	5,218	2,506
204.63	2,402	396	205.15	5,227	2,558
204.64	2,475	421	205.16	5,235	2,610
204.65	2,548	446	205.17	5,244	2,662
204.66	2,621	472	205.18	5,253	2,715
204.67	2,694	498	205.19	5,261	2,768
204.68	2,766	526	205.20	5,270	2,820
204.69	2,839	554	205.21	5,279	2,873
204.70	2,912	582	205.22	5,287	2,926
204.71	2,985	612	205.23	5,296	2,979
204.72	3,058	642	205.24	5,305	3,032
204.73	3,130	673	205.25	5,314	3,085
204.74	3,203	705	205.26	5,322	3,138
204.75	3,276	737	205.27	5,331	3,191
204.76	3,349	770	205.28	5,340	3,245
204.77	3,422	804	205.29	5,348	3,298
204.78	3,494	839	205.30	5,357	3,352
204.79	3,567	874	205.31	5,366	3,405
204.80	3,640	910	205.32	5,374	3,459
204.81	3,713	947	205.33	5,383	3,513

Stage-Area-Storage for Pond B-38: Basin #38 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
205.34	5,392	3,567	205.86	5,844	6,488
205.35	5,401	3,620	205.87	5,853	6,546
205.36	5,409	3,675	205.88	5,862	6,605
205.37	5,418	3,729	205.89	5,870	6,664
205.38	5,427	3,783	205.90	5,879	6,722
205.39	5,435	3,837	205.91	5,888	6,781
205.40	5,444	3,892	205.92	5,896	6,840
205.41	5,453	3,946	205.93	5,905	6,899
205.42	5,461	4,001	205.94	5,914	6,958
205.43	5,470	4,055	205.95	5,923	7,017
205.44	5,479	4,110	205.96	5,931	7,077
205.45	5,488	4,165	205.97	5,940	7,136
205.46	5,496	4,220	205.98	5,949	7,195
205.47	5,505	4,275	205.99	5,957	7,255
205.48	5,514	4,330	206.00	5,966	7,315
205.49	5,522	4,385	206.01	5,975	7,374
205.50	5,531	4,440	206.02	5,985	7,434
205.51	5,540	4,496	206.03	5,994	7,494
205.52	5,548	4,551	206.04	6,003	7,554
205.53	5,557	4,607	206.05	6,012	7,614
205.54	5,566	4,662	206.06	6,022	7,674
205.55	5,575	4,718	206.07	6,031	7,734
205.56	5,583	4,774	206.08	6,040	7,795
205.57	5,592	4,830	206.09	6,049	7,855
205.58	5,601	4,886	206.10	6,059	7,916
205.59	5,609	4,942	206.11	6,068	7,976
205.60	5,618	4,998	206.12	6,077	8,037
205.61	5,627	5,054	206.13	6,087	8,098
205.62	5,635	5,110	206.14	6,096	8,159
205.63	5,644	5,167	206.15	6,105	8,220
205.64	5,653	5,223	206.16	6,114	8,281
205.65	5,662	5,280	206.17	6,124	8,342
205.66	5,670	5,336	206.18	6,133	8,403
205.67	5,679	5,393	206.19	6,142	8,465
205.68	5,688	5,450	206.20	6,151	8,526
205.69	5,696	5,507	206.21	6,161	8,588
205.70	5,705	5,564	206.22	6,170	8,650
205.71	5,714	5,621	206.23	6,179	8,711
205.72	5,722	5,678	206.24	6,188	8,773
205.73	5,731	5,735	206.25	6,198	8,835
205.74	5,740	5,793	206.26	6,207	8,897
205.75	5,749	5,850	206.27	6,216	8,959
205.76	5,757	5,908	206.28	6,226	9,021
205.77	5,766	5,965	206.29	6,235	9,084
205.78	5,775	6,023	206.30	6,244	9,146
205.79	5,783	6,081	206.31	6,253	9,209
205.80	5,792	6,139	206.32	6,263	9,271
205.81	5,801	6,197	206.33	6,272	9,334
205.82	5,809	6,255	206.34	6,281	9,397
205.83	5,818	6,313	206.35	6,290	9,459
205.84	5,827	6,371	206.36	6,300	9,522
205.85	5,836	6,429	206.37	6,309	9,585

Stage-Area-Storage for Pond B-38: Basin #38 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
206.38	6,318	9,649	206.90	6,800	13,059
206.39	6,328	9,712	206.91	6,810	13,127
206.40	6,337	9,775	206.92	6,819	13,196
206.41	6,346	9,839	206.93	6,828	13,264
206.42	6,355	9,902	206.94	6,837	13,332
206.43	6,365	9,966	206.95	6,847	13,401
206.44	6,374	10,029	206.96	6,856	13,469
206.45	6,383	10,093	206.97	6,865	13,538
206.46	6,392	10,157	206.98	6,874	13,606
206.47	6,402	10,221	206.99	6,884	13,675
206.48	6,411	10,285	207.00	6,893	13,744
206.49	6,420	10,349	207.01	6,903	13,813
206.50	6,430	10,413	207.02	6,913	13,882
206.51	6,439	10,478	207.03	6,922	13,951
206.52	6,448	10,542	207.04	6,932	14,021
206.53	6,457	10,607	207.05	6,942	14,090
206.54	6,467	10,671	207.06	6,952	14,159
206.55	6,476	10,736	207.07	6,962	14,229
206.56	6,485	10,801	207.08	6,972	14,299
206.57	6,494	10,866	207.09	6,981	14,368
206.58	6,504	10,931	207.10	6,991	14,438
206.59	6,513	10,996	207.11	7,001	14,508
206.60	6,522	11,061	207.12	7,011	14,578
206.61	6,531	11,126	207.13	7,021	14,648
206.62	6,541	11,192	207.14	7,031	14,719
206.63	6,550	11,257	207.15	7,040	14,789
206.64	6,559	11,323	207.16	7,050	14,860
206.65	6,569	11,388	207.17	7,060	14,930
206.66	6,578	11,454	207.18	7,070	15,001
206.67	6,587	11,520	207.19	7,080	15,072
206.68	6,596	11,586	207.20	7,090	15,142
206.69	6,606	11,652	207.21	7,099	15,213
206.70	6,615	11,718	207.22	7,109	15,284
206.71	6,624	11,784	207.23	7,119	15,355
206.72	6,633	11,850	207.24	7,129	15,427
206.73	6,643	11,917	207.25	7,139	15,498
206.74	6,652	11,983	207.26	7,149	15,570
206.75	6,661	12,050	207.27	7,158	15,641
206.76	6,671	12,116	207.28	7,168	15,713
206.77	6,680	12,183	207.29	7,178	15,784
206.78	6,689	12,250	207.30	7,188	15,856
206.79	6,698	12,317	207.31	7,198	15,928
206.80	6,708	12,384	207.32	7,208	16,000
206.81	6,717	12,451	207.33	7,217	16,072
206.82	6,726	12,518	207.34	7,227	16,145
206.83	6,735	12,586	207.35	7,237	16,217
206.84	6,745	12,653	207.36	7,247	16,289
206.85	6,754	12,721	207.37	7,257	16,362
206.86	6,763	12,788	207.38	7,267	16,434
206.87	6,772	12,856	207.39	7,276	16,507
206.88	6,782	12,924	207.40	7,286	16,580
206.89	6,791	12,991	207.41	7,296	16,653

Stage-Area-Storage for Pond B-38: Basin #38 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
207.42	7,306	16,726	207.94	7,817	20,658
207.43	7,316	16,799	207.95	7,827	20,736
207.44	7,326	16,872	207.96	7,837	20,814
207.45	7,335	16,945	207.97	7,847	20,893
207.46	7,345	17,019	207.98	7,856	20,971
207.47	7,355	17,092	207.99	7,866	21,050
207.48	7,365	17,166	208.00	7,876	21,129
207.49	7,375	17,240	208.01	7,886	21,207
207.50	7,385	17,313	208.02	7,897	21,286
207.51	7,394	17,387	208.03	7,907	21,365
207.52	7,404	17,461	208.04	7,918	21,444
207.53	7,414	17,535	208.05	7,928	21,524
207.54	7,424	17,610	208.06	7,938	21,603
207.55	7,434	17,684	208.07	7,949	21,682
207.56	7,443	17,758	208.08	7,959	21,762
207.57	7,453	17,833	208.09	7,970	21,842
207.58	7,463	17,907	208.10	7,980	21,921
207.59	7,473	17,982	208.11	7,990	22,001
207.60	7,483	18,057	208.12	8,001	22,081
207.61	7,493	18,132	208.13	8,011	22,161
207.62	7,502	18,207	208.14	8,022	22,241
207.63	7,512	18,282	208.15	8,032	22,322
207.64	7,522	18,357	208.16	8,042	22,402
207.65	7,532	18,432	208.17	8,053	22,483
207.66	7,542	18,508	208.18	8,063	22,563
207.67	7,552	18,583	208.19	8,074	22,644
207.68	7,561	18,659	208.20	8,084	22,725
207.69	7,571	18,734	208.21	8,094	22,805
207.70	7,581	18,810	208.22	8,105	22,886
207.71	7,591	18,886	208.23	8,115	22,968
207.72	7,601	18,962	208.24	8,126	23,049
207.73	7,611	19,038	208.25	8,136	23,130
207.74	7,620	19,114	208.26	8,146	23,212
207.75	7,630	19,190	208.27	8,157	23,293
207.76	7,640	19,267	208.28	8,167	23,375
207.77	7,650	19,343	208.29	8,178	23,456
207.78	7,660	19,420	208.30	8,188	23,538
207.79	7,670	19,496	208.31	8,198	23,620
207.80	7,679	19,573	208.32	8,209	23,702
207.81	7,689	19,650	208.33	8,219	23,784
207.82	7,699	19,727	208.34	8,230	23,867
207.83	7,709	19,804	208.35	8,240	23,949
207.84	7,719	19,881	208.36	8,250	24,031
207.85	7,729	19,958	208.37	8,261	24,114
207.86	7,738	20,036	208.38	8,271	24,197
207.87	7,748	20,113	208.39	8,282	24,279
207.88	7,758	20,191	208.40	8,292	24,362
207.89	7,768	20,268	208.41	8,302	24,445
207.90	7,778	20,346	208.42	8,313	24,528
207.91	7,788	20,424	208.43	8,323	24,611
207.92	7,797	20,502	208.44	8,334	24,695
207.93	7,807	20,580	208.45	8,344	24,778

Stage-Area-Storage for Pond B-38: Basin #38 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
208.46	8,354	24,862
208.47	8,365	24,945
208.48	8,375	25,029
208.49	8,386	25,113
208.50	8,396	25,197
208.51	8,406	25,281
208.52	8,417	25,365
208.53	8,427	25,449
208.54	8,438	25,533
208.55	8,448	25,618
208.56	8,458	25,702
208.57	8,469	25,787
208.58	8,479	25,872
208.59	8,490	25,956
208.60	8,500	26,041
208.61	8,510	26,126
208.62	8,521	26,212
208.63	8,531	26,297
208.64	8,542	26,382
208.65	8,552	26,468
208.66	8,562	26,553
208.67	8,573	26,639
208.68	8,583	26,725
208.69	8,594	26,811
208.70	8,604	26,897
208.71	8,614	26,983
208.72	8,625	27,069
208.73	8,635	27,155
208.74	8,646	27,242
208.75	8,656	27,328
208.76	8,666	27,415
208.77	8,677	27,501
208.78	8,687	27,588
208.79	8,698	27,675
208.80	8,708	27,762
208.81	8,718	27,849
208.82	8,729	27,937
208.83	8,739	28,024
208.84	8,750	28,111
208.85	8,760	28,199
208.86	8,770	28,287
208.87	8,781	28,374
208.88	8,791	28,462
208.89	8,802	28,550
208.90	8,812	28,638
208.91	8,822	28,726
208.92	8,833	28,815
208.93	8,843	28,903
208.94	8,854	28,992
208.95	8,864	29,080
208.96	8,874	29,169
208.97	8,885	29,258
208.98	8,895	29,346
208.99	8,906	29,435
209.00	**8,916**	**29,525**

Summary for Pond B-39: Basin #39

Inflow Area = 1.884 ac, 41.56% Impervious, Inflow Depth = 1.96" for Current 2 yr event
Inflow = 3.71 cfs @ 12.17 hrs, Volume= 0.308 af
Outflow = 0.82 cfs @ 12.63 hrs, Volume= 0.233 af, Atten= 78%, Lag= 27.4 min
Primary = 0.82 cfs @ 12.63 hrs, Volume= 0.233 af
Routed to Link PDA-3 : Proposed Drainage Area #3

Routing by Stor-Ind method, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
Peak Elev= 202.70' @ 12.63 hrs Surf.Area= 3,767 sf Storage= 6,721 cf

Plug-Flow detention time= 239.1 min calculated for 0.233 af (76% of inflow)
Center-of-Mass det. time= 145.8 min (942.1 - 796.3)

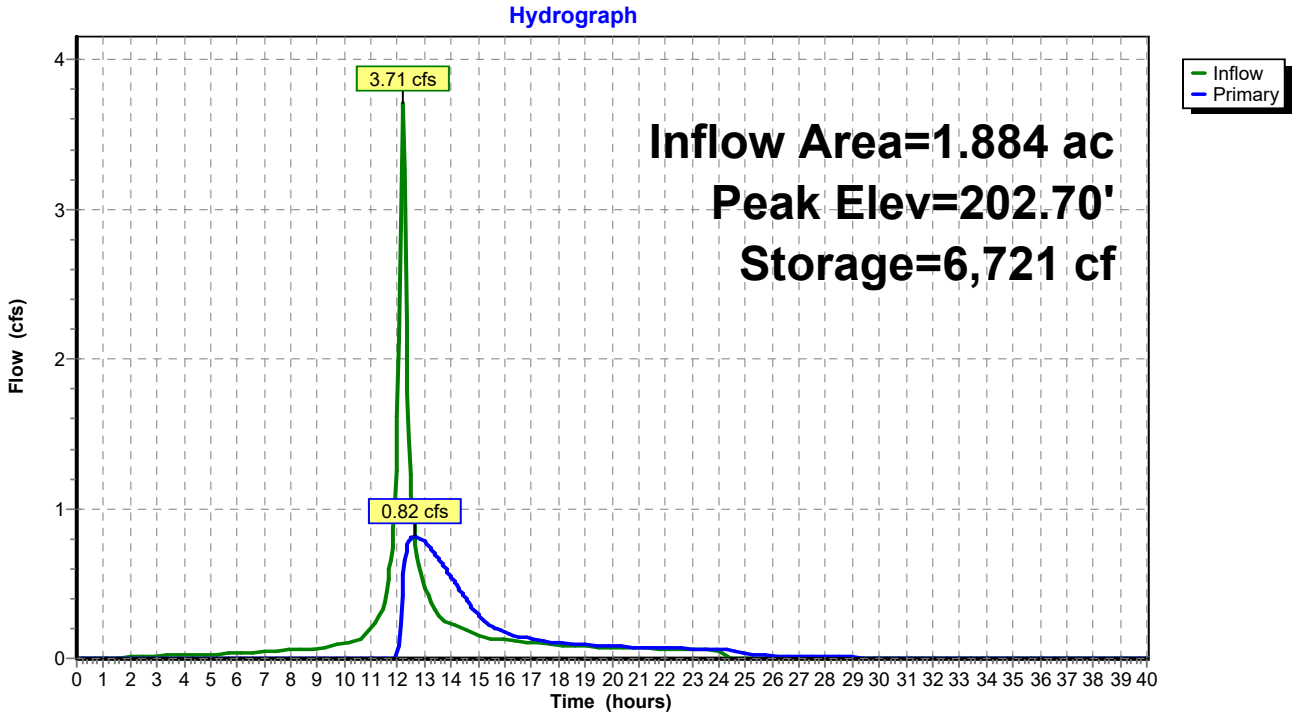
Volume	Invert	Avail.Storage	Storage Description
#1	200.30'	16,777 cf	**Custom Stage Data (Prismatic)** Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
200.30	0	0	0
201.00	2,928	1,025	1,025
202.00	3,408	3,168	4,193
203.00	3,917	3,663	7,855
204.00	4,454	4,186	12,041
205.00	5,019	4,737	16,777

Device	Routing	Invert	Outlet Devices
#1	Primary	200.30'	**18.0" Round Culvert** L= 38.0' Ke= 0.500 Inlet / Outlet Invert= 200.30' / 200.11' S= 0.0050 '/' Cc= 0.900 n= 0.013, Flow Area= 1.77 sf
#2	Device 1	201.71'	**6.0" Vert. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#3	Device 1	203.04'	**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=0.82 cfs @ 12.63 hrs HW=202.70' (Free Discharge)
- **1=Culvert** (Passes 0.82 cfs of 10.01 cfs potential flow)
  - **2=Orifice/Grate** (Orifice Controls 0.82 cfs @ 4.15 fps)
  - **3=Sharp-Crested Rectangular Weir** (Controls 0.00 cfs)
- **4=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)

Pond B-39: Basin #39



Stage-Discharge for Pond B-39: Basin #39

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
200.30	0.00	200.82	0.00	201.34	0.00	201.86	0.07
200.31	0.00	200.83	0.00	201.35	0.00	201.87	0.07
200.32	0.00	200.84	0.00	201.36	0.00	201.88	0.08
200.33	0.00	200.85	0.00	201.37	0.00	201.89	0.09
200.34	0.00	200.86	0.00	201.38	0.00	201.90	0.10
200.35	0.00	200.87	0.00	201.39	0.00	201.91	0.11
200.36	0.00	200.88	0.00	201.40	0.00	201.92	0.12
200.37	0.00	200.89	0.00	201.41	0.00	201.93	0.13
200.38	0.00	200.90	0.00	201.42	0.00	201.94	0.14
200.39	0.00	200.91	0.00	201.43	0.00	201.95	0.16
200.40	0.00	200.92	0.00	201.44	0.00	201.96	0.17
200.41	0.00	200.93	0.00	201.45	0.00	201.97	0.18
200.42	0.00	200.94	0.00	201.46	0.00	201.98	0.19
200.43	0.00	200.95	0.00	201.47	0.00	201.99	0.20
200.44	0.00	200.96	0.00	201.48	0.00	202.00	0.22
200.45	0.00	200.97	0.00	201.49	0.00	202.01	0.23
200.46	0.00	200.98	0.00	201.50	0.00	202.02	0.24
200.47	0.00	200.99	0.00	201.51	0.00	202.03	0.26
200.48	0.00	201.00	0.00	201.52	0.00	202.04	0.27
200.49	0.00	201.01	0.00	201.53	0.00	202.05	0.28
200.50	0.00	201.02	0.00	201.54	0.00	202.06	0.30
200.51	0.00	201.03	0.00	201.55	0.00	202.07	0.31
200.52	0.00	201.04	0.00	201.56	0.00	202.08	0.32
200.53	0.00	201.05	0.00	201.57	0.00	202.09	0.34
200.54	0.00	201.06	0.00	201.58	0.00	202.10	0.35
200.55	0.00	201.07	0.00	201.59	0.00	202.11	0.36
200.56	0.00	201.08	0.00	201.60	0.00	202.12	0.38
200.57	0.00	201.09	0.00	201.61	0.00	202.13	0.39
200.58	0.00	201.10	0.00	201.62	0.00	202.14	0.40
200.59	0.00	201.11	0.00	201.63	0.00	202.15	0.41
200.60	0.00	201.12	0.00	201.64	0.00	202.16	0.43
200.61	0.00	201.13	0.00	201.65	0.00	202.17	0.44
200.62	0.00	201.14	0.00	201.66	0.00	202.18	0.45
200.63	0.00	201.15	0.00	201.67	0.00	202.19	0.46
200.64	0.00	201.16	0.00	201.68	0.00	202.20	0.47
200.65	0.00	201.17	0.00	201.69	0.00	202.21	0.47
200.66	0.00	201.18	0.00	201.70	0.00	202.22	0.48
200.67	0.00	201.19	0.00	201.71	0.00	202.23	0.49
200.68	0.00	201.20	0.00	201.72	0.00	202.24	0.50
200.69	0.00	201.21	0.00	201.73	0.00	202.25	0.51
200.70	0.00	201.22	0.00	201.74	0.00	202.26	0.52
200.71	0.00	201.23	0.00	201.75	0.01	202.27	0.53
200.72	0.00	201.24	0.00	201.76	0.01	202.28	0.53
200.73	0.00	201.25	0.00	201.77	0.01	202.29	0.54
200.74	0.00	201.26	0.00	201.78	0.02	202.30	0.55
200.75	0.00	201.27	0.00	201.79	0.02	202.31	0.56
200.76	0.00	201.28	0.00	201.80	0.02	202.32	0.57
200.77	0.00	201.29	0.00	201.81	0.03	202.33	0.58
200.78	0.00	201.30	0.00	201.82	0.04	202.34	0.58
200.79	0.00	201.31	0.00	201.83	0.04	202.35	0.59
200.80	0.00	201.32	0.00	201.84	0.05	202.36	0.60
200.81	0.00	201.33	0.00	201.85	0.06	202.37	0.61

Stage-Discharge for Pond B-39: Basin #39 (continued)

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
202.38	0.61	202.90	0.92	203.42	4.15	203.94	12.00
202.39	0.62	202.91	0.92	203.43	4.27	203.95	12.17
202.40	0.63	202.92	0.93	203.44	4.39	203.96	12.35
202.41	0.63	202.93	0.93	203.45	4.52	203.97	12.53
202.42	0.64	202.94	0.94	203.46	4.64	203.98	12.70
202.43	0.65	202.95	0.94	203.47	4.77	203.99	12.88
202.44	0.66	202.96	0.95	203.48	4.90	204.00	13.06
202.45	0.66	202.97	0.95	203.49	5.03	204.01	13.24
202.46	0.67	202.98	0.95	203.50	5.16	204.02	13.42
202.47	0.68	202.99	0.96	203.51	5.29	204.03	13.61
202.48	0.68	203.00	0.96	203.52	5.43	204.04	13.79
202.49	0.69	203.01	0.97	203.53	5.56	204.05	13.97
202.50	0.69	203.02	0.97	203.54	5.70	204.06	14.16
202.51	0.70	203.03	0.98	203.55	5.83	204.07	14.34
202.52	0.71	203.04	0.98	203.56	5.97	204.08	14.53
202.53	0.71	203.05	1.00	203.57	6.11	204.09	14.71
202.54	0.72	203.06	1.03	203.58	6.25	204.10	14.86
202.55	0.73	203.07	1.06	203.59	6.40	204.11	14.88
202.56	0.73	203.08	1.10	203.60	6.54	204.12	14.91
202.57	0.74	203.09	1.15	203.61	6.68	204.13	14.93
202.58	0.74	203.10	1.20	203.62	6.83	204.14	14.96
202.59	0.75	203.11	1.26	203.63	6.97	204.15	14.98
202.60	0.76	203.12	1.31	203.64	7.12	204.16	15.01
202.61	0.76	203.13	1.37	203.65	7.27	204.17	15.03
202.62	0.77	203.14	1.44	203.66	7.42	204.18	15.05
202.63	0.77	203.15	1.51	203.67	7.57	204.19	15.08
202.64	0.78	203.16	1.58	203.68	7.72	204.20	15.10
202.65	0.79	203.17	1.65	203.69	7.88	204.21	15.13
202.66	0.79	203.18	1.72	203.70	8.03	204.22	15.15
202.67	0.80	203.19	1.80	203.71	8.18	204.23	15.17
202.68	0.80	203.20	1.88	203.72	8.34	204.24	15.20
202.69	0.81	203.21	1.97	203.73	8.50	204.25	15.22
202.70	0.81	203.22	2.05	203.74	8.65	204.26	15.24
202.71	0.82	203.23	2.14	203.75	8.81	204.27	15.27
202.72	0.82	203.24	2.23	203.76	8.97	204.28	15.29
202.73	0.83	203.25	2.32	203.77	9.13	204.29	15.32
202.74	0.83	203.26	2.41	203.78	9.29	204.30	15.34
202.75	0.84	203.27	2.51	203.79	9.46	204.31	15.36
202.76	0.85	203.28	2.61	203.80	9.62	204.32	15.39
202.77	0.85	203.29	2.70	203.81	9.78	204.33	15.41
202.78	0.86	203.30	2.81	203.82	9.95	204.34	15.43
202.79	0.86	203.31	2.91	203.83	10.11	204.35	15.46
202.80	0.87	203.32	3.01	203.84	10.28	204.36	15.48
202.81	0.87	203.33	3.12	203.85	10.45	204.37	15.50
202.82	0.88	203.34	3.23	203.86	10.62	204.38	15.53
202.83	0.88	203.35	3.34	203.87	10.79	204.39	15.55
202.84	0.89	203.36	3.45	203.88	10.96	204.40	15.57
202.85	0.89	203.37	3.56	203.89	11.13	204.41	15.60
202.86	0.90	203.38	3.68	203.90	11.30	204.42	15.62
202.87	0.90	203.39	3.79	203.91	11.47	204.43	15.64
202.88	0.91	203.40	3.91	203.92	11.65	204.44	15.67
202.89	0.91	203.41	4.03	203.93	11.82	204.45	15.69

Stage-Discharge for Pond B-39: Basin #39 (continued)

Elevation (feet)	Primary (cfs)
204.46	15.71
204.47	15.74
204.48	15.76
204.49	15.78
204.50	15.80
204.51	15.94
204.52	16.18
204.53	16.48
204.54	16.83
204.55	17.23
204.56	17.67
204.57	18.14
204.58	18.64
204.59	19.18
204.60	19.75
204.61	20.35
204.62	20.97
204.63	21.62
204.64	22.29
204.65	22.99
204.66	23.71
204.67	24.46
204.68	25.22
204.69	26.01
204.70	26.82
204.71	27.69
204.72	28.58
204.73	29.50
204.74	30.45
204.75	31.42
204.76	32.42
204.77	33.44
204.78	34.48
204.79	35.55
204.80	36.65
204.81	37.76
204.82	38.91
204.83	40.08
204.84	41.27
204.85	42.48
204.86	43.72
204.87	44.99
204.88	46.28
204.89	47.59
204.90	48.93
204.91	50.31
204.92	51.73
204.93	53.17
204.94	54.63
204.95	56.12
204.96	57.64
204.97	59.19
204.98	60.76
204.99	62.35
205.00	**63.98**

Stage-Area-Storage for Pond B-39: Basin #39

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
200.30	0	0	200.82	2,175	566
200.31	42	0	200.83	2,217	587
200.32	84	1	200.84	2,259	610
200.33	125	2	200.85	2,301	633
200.34	167	3	200.86	2,342	656
200.35	209	5	200.87	2,384	680
200.36	251	8	200.88	2,426	704
200.37	293	10	200.89	2,468	728
200.38	335	13	200.90	2,510	753
200.39	376	17	200.91	2,552	778
200.40	418	21	200.92	2,593	804
200.41	460	25	200.93	2,635	830
200.42	502	30	200.94	2,677	857
200.43	544	35	200.95	2,719	884
200.44	586	41	200.96	2,761	911
200.45	627	47	200.97	2,803	939
200.46	669	54	200.98	2,844	967
200.47	711	60	200.99	2,886	996
200.48	753	68	201.00	2,928	1,025
200.49	795	76	201.01	2,933	1,054
200.50	837	84	201.02	2,938	1,083
200.51	878	92	201.03	2,942	1,113
200.52	920	101	201.04	2,947	1,142
200.53	962	111	201.05	2,952	1,172
200.54	1,004	120	201.06	2,957	1,201
200.55	1,046	131	201.07	2,962	1,231
200.56	1,088	141	201.08	2,966	1,261
200.57	1,129	152	201.09	2,971	1,290
200.58	1,171	164	201.10	2,976	1,320
200.59	1,213	176	201.11	2,981	1,350
200.60	1,255	188	201.12	2,986	1,380
200.61	1,297	201	201.13	2,990	1,409
200.62	1,339	214	201.14	2,995	1,439
200.63	1,380	228	201.15	3,000	1,469
200.64	1,422	242	201.16	3,005	1,499
200.65	1,464	256	201.17	3,010	1,529
200.66	1,506	271	201.18	3,014	1,560
200.67	1,548	286	201.19	3,019	1,590
200.68	1,589	302	201.20	3,024	1,620
200.69	1,631	318	201.21	3,029	1,650
200.70	1,673	335	201.22	3,034	1,681
200.71	1,715	352	201.23	3,038	1,711
200.72	1,757	369	201.24	3,043	1,741
200.73	1,799	387	201.25	3,048	1,772
200.74	1,840	405	201.26	3,053	1,802
200.75	1,882	424	201.27	3,058	1,833
200.76	1,924	443	201.28	3,062	1,863
200.77	1,966	462	201.29	3,067	1,894
200.78	2,008	482	201.30	3,072	1,925
200.79	2,050	502	201.31	3,077	1,956
200.80	2,091	523	201.32	3,082	1,986
200.81	2,133	544	201.33	3,086	2,017

Stage-Area-Storage for Pond B-39: Basin #39 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
201.34	3,091	2,048
201.35	3,096	2,079
201.36	3,101	2,110
201.37	3,106	2,141
201.38	3,110	2,172
201.39	3,115	2,203
201.40	3,120	2,234
201.41	3,125	2,266
201.42	3,130	2,297
201.43	3,134	2,328
201.44	3,139	2,360
201.45	3,144	2,391
201.46	3,149	2,422
201.47	3,154	2,454
201.48	3,158	2,486
201.49	3,163	2,517
201.50	3,168	2,549
201.51	3,173	2,581
201.52	3,178	2,612
201.53	3,182	2,644
201.54	3,187	2,676
201.55	3,192	2,708
201.56	3,197	2,740
201.57	3,202	2,772
201.58	3,206	2,804
201.59	3,211	2,836
201.60	3,216	2,868
201.61	3,221	2,900
201.62	3,226	2,932
201.63	3,230	2,965
201.64	3,235	2,997
201.65	3,240	3,029
201.66	3,245	3,062
201.67	3,250	3,094
201.68	3,254	3,127
201.69	3,259	3,159
201.70	3,264	3,192
201.71	3,269	3,225
201.72	3,274	3,257
201.73	3,278	3,290
201.74	3,283	3,323
201.75	3,288	3,356
201.76	3,293	3,389
201.77	3,298	3,422
201.78	3,302	3,455
201.79	3,307	3,488
201.80	3,312	3,521
201.81	3,317	3,554
201.82	3,322	3,587
201.83	3,326	3,620
201.84	3,331	3,654
201.85	3,336	3,687
201.86	3,341	3,720
201.87	3,346	3,754
201.88	3,350	3,787
201.89	3,355	3,821
201.90	3,360	3,854
201.91	3,365	3,888
201.92	3,370	3,922
201.93	3,374	3,955
201.94	3,379	3,989
201.95	3,384	4,023
201.96	3,389	4,057
201.97	3,394	4,091
201.98	3,398	4,125
201.99	3,403	4,159
202.00	3,408	4,193
202.01	3,413	4,227
202.02	3,418	4,261
202.03	3,423	4,295
202.04	3,428	4,330
202.05	3,433	4,364
202.06	3,439	4,398
202.07	3,444	4,433
202.08	3,449	4,467
202.09	3,454	4,502
202.10	3,459	4,536
202.11	3,464	4,571
202.12	3,469	4,605
202.13	3,474	4,640
202.14	3,479	4,675
202.15	3,484	4,710
202.16	3,489	4,745
202.17	3,495	4,780
202.18	3,500	4,814
202.19	3,505	4,850
202.20	3,510	4,885
202.21	3,515	4,920
202.22	3,520	4,955
202.23	3,525	4,990
202.24	3,530	5,025
202.25	3,535	5,061
202.26	3,540	5,096
202.27	3,545	5,132
202.28	3,551	5,167
202.29	3,556	5,203
202.30	3,561	5,238
202.31	3,566	5,274
202.32	3,571	5,309
202.33	3,576	5,345
202.34	3,581	5,381
202.35	3,586	5,417
202.36	3,591	5,453
202.37	3,596	5,489

Stage-Area-Storage for Pond B-39: Basin #39 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
202.38	3,601	5,525	202.90	3,866	7,466
202.39	3,607	5,561	202.91	3,871	7,505
202.40	3,612	5,597	202.92	3,876	7,544
202.41	3,617	5,633	202.93	3,881	7,582
202.42	3,622	5,669	202.94	3,886	7,621
202.43	3,627	5,705	202.95	3,892	7,660
202.44	3,632	5,742	202.96	3,897	7,699
202.45	3,637	5,778	202.97	3,902	7,738
202.46	3,642	5,814	202.98	3,907	7,777
202.47	3,647	5,851	202.99	3,912	7,816
202.48	3,652	5,887	203.00	3,917	7,855
202.49	3,657	5,924	203.01	3,922	7,894
202.50	3,663	5,960	203.02	3,928	7,934
202.51	3,668	5,997	203.03	3,933	7,973
202.52	3,673	6,034	203.04	3,938	8,012
202.53	3,678	6,071	203.05	3,944	8,052
202.54	3,683	6,107	203.06	3,949	8,091
202.55	3,688	6,144	203.07	3,955	8,131
202.56	3,693	6,181	203.08	3,960	8,170
202.57	3,698	6,218	203.09	3,965	8,210
202.58	3,703	6,255	203.10	3,971	8,250
202.59	3,708	6,292	203.11	3,976	8,289
202.60	3,713	6,329	203.12	3,981	8,329
202.61	3,718	6,366	203.13	3,987	8,369
202.62	3,724	6,404	203.14	3,992	8,409
202.63	3,729	6,441	203.15	3,998	8,449
202.64	3,734	6,478	203.16	4,003	8,489
202.65	3,739	6,516	203.17	4,008	8,529
202.66	3,744	6,553	203.18	4,014	8,569
202.67	3,749	6,590	203.19	4,019	8,609
202.68	3,754	6,628	203.20	4,024	8,649
202.69	3,759	6,665	203.21	4,030	8,690
202.70	3,764	6,703	203.22	4,035	8,730
202.71	3,769	6,741	203.23	4,041	8,770
202.72	3,774	6,778	203.24	4,046	8,811
202.73	3,780	6,816	203.25	4,051	8,851
202.74	3,785	6,854	203.26	4,057	8,892
202.75	3,790	6,892	203.27	4,062	8,932
202.76	3,795	6,930	203.28	4,067	8,973
202.77	3,800	6,968	203.29	4,073	9,014
202.78	3,805	7,006	203.30	4,078	9,055
202.79	3,810	7,044	203.31	4,083	9,095
202.80	3,815	7,082	203.32	4,089	9,136
202.81	3,820	7,120	203.33	4,094	9,177
202.82	3,825	7,158	203.34	4,100	9,218
202.83	3,830	7,197	203.35	4,105	9,259
202.84	3,836	7,235	203.36	4,110	9,300
202.85	3,841	7,273	203.37	4,116	9,341
202.86	3,846	7,312	203.38	4,121	9,383
202.87	3,851	7,350	203.39	4,126	9,424
202.88	3,856	7,389	203.40	4,132	9,465
202.89	3,861	7,428	203.41	4,137	9,506

Stage-Area-Storage for Pond B-39: Basin #39 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
203.42	4,143	9,548	203.94	4,422	11,775
203.43	4,148	9,589	203.95	4,427	11,819
203.44	4,153	9,631	203.96	4,433	11,863
203.45	4,159	9,672	203.97	4,438	11,907
203.46	4,164	9,714	203.98	4,443	11,952
203.47	4,169	9,756	203.99	4,449	11,996
203.48	4,175	9,797	204.00	4,454	12,041
203.49	4,180	9,839	204.01	4,460	12,085
203.50	4,186	9,881	204.02	4,465	12,130
203.51	4,191	9,923	204.03	4,471	12,175
203.52	4,196	9,965	204.04	4,477	12,219
203.53	4,202	10,007	204.05	4,482	12,264
203.54	4,207	10,049	204.06	4,488	12,309
203.55	4,212	10,091	204.07	4,494	12,354
203.56	4,218	10,133	204.08	4,499	12,399
203.57	4,223	10,175	204.09	4,505	12,444
203.58	4,228	10,217	204.10	4,511	12,489
203.59	4,234	10,260	204.11	4,516	12,534
203.60	4,239	10,302	204.12	4,522	12,579
203.61	4,245	10,345	204.13	4,527	12,625
203.62	4,250	10,387	204.14	4,533	12,670
203.63	4,255	10,430	204.15	4,539	12,715
203.64	4,261	10,472	204.16	4,544	12,761
203.65	4,266	10,515	204.17	4,550	12,806
203.66	4,271	10,557	204.18	4,556	12,852
203.67	4,277	10,600	204.19	4,561	12,897
203.68	4,282	10,643	204.20	4,567	12,943
203.69	4,288	10,686	204.21	4,573	12,989
203.70	4,293	10,729	204.22	4,578	13,034
203.71	4,298	10,772	204.23	4,584	13,080
203.72	4,304	10,815	204.24	4,590	13,126
203.73	4,309	10,858	204.25	4,595	13,172
203.74	4,314	10,901	204.26	4,601	13,218
203.75	4,320	10,944	204.27	4,607	13,264
203.76	4,325	10,987	204.28	4,612	13,310
203.77	4,330	11,031	204.29	4,618	13,356
203.78	4,336	11,074	204.30	4,624	13,402
203.79	4,341	11,117	204.31	4,629	13,449
203.80	4,347	11,161	204.32	4,635	13,495
203.81	4,352	11,204	204.33	4,640	13,541
203.82	4,357	11,248	204.34	4,646	13,588
203.83	4,363	11,291	204.35	4,652	13,634
203.84	4,368	11,335	204.36	4,657	13,681
203.85	4,373	11,379	204.37	4,663	13,727
203.86	4,379	11,423	204.38	4,669	13,774
203.87	4,384	11,466	204.39	4,674	13,821
203.88	4,390	11,510	204.40	4,680	13,868
203.89	4,395	11,554	204.41	4,686	13,914
203.90	4,400	11,598	204.42	4,691	13,961
203.91	4,406	11,642	204.43	4,697	14,008
203.92	4,411	11,686	204.44	4,703	14,055
203.93	4,416	11,730	204.45	4,708	14,102

Stage-Area-Storage for Pond B-39: Basin #39 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
204.46	4,714	14,149
204.47	4,720	14,197
204.48	4,725	14,244
204.49	4,731	14,291
204.50	4,737	14,338
204.51	4,742	14,386
204.52	4,748	14,433
204.53	4,753	14,481
204.54	4,759	14,528
204.55	4,765	14,576
204.56	4,770	14,624
204.57	4,776	14,671
204.58	4,782	14,719
204.59	4,787	14,767
204.60	4,793	14,815
204.61	4,799	14,863
204.62	4,804	14,911
204.63	4,810	14,959
204.64	4,816	15,007
204.65	4,821	15,055
204.66	4,827	15,103
204.67	4,833	15,152
204.68	4,838	15,200
204.69	4,844	15,249
204.70	4,850	15,297
204.71	4,855	15,346
204.72	4,861	15,394
204.73	4,866	15,443
204.74	4,872	15,491
204.75	4,878	15,540
204.76	4,883	15,589
204.77	4,889	15,638
204.78	4,895	15,687
204.79	4,900	15,736
204.80	4,906	15,785
204.81	4,912	15,834
204.82	4,917	15,883
204.83	4,923	15,932
204.84	4,929	15,981
204.85	4,934	16,031
204.86	4,940	16,080
204.87	4,946	16,130
204.88	4,951	16,179
204.89	4,957	16,229
204.90	4,963	16,278
204.91	4,968	16,328
204.92	4,974	16,378
204.93	4,979	16,427
204.94	4,985	16,477
204.95	4,991	16,527
204.96	4,996	16,577
204.97	5,002	16,627
204.98	5,008	16,677
204.99	5,013	16,727
205.00	**5,019**	**16,777**

Summary for Pond B-40: Basin #40

Inflow Area = 1.888 ac, 47.19% Impervious, Inflow Depth = 2.07" for Current 2 yr event
Inflow = 3.91 cfs @ 12.17 hrs, Volume= 0.326 af
Outflow = 2.42 cfs @ 12.30 hrs, Volume= 0.243 af, Atten= 38%, Lag= 7.7 min
Primary = 2.42 cfs @ 12.30 hrs, Volume= 0.243 af
Routed to Link PDA-3 : Proposed Drainage Area #3

Routing by Stor-Ind method, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
Peak Elev= 203.18' @ 12.30 hrs Surf.Area= 3,953 sf Storage= 5,629 cf

Plug-Flow detention time= 186.5 min calculated for 0.243 af (75% of inflow)
Center-of-Mass det. time= 92.6 min (883.7 - 791.1)

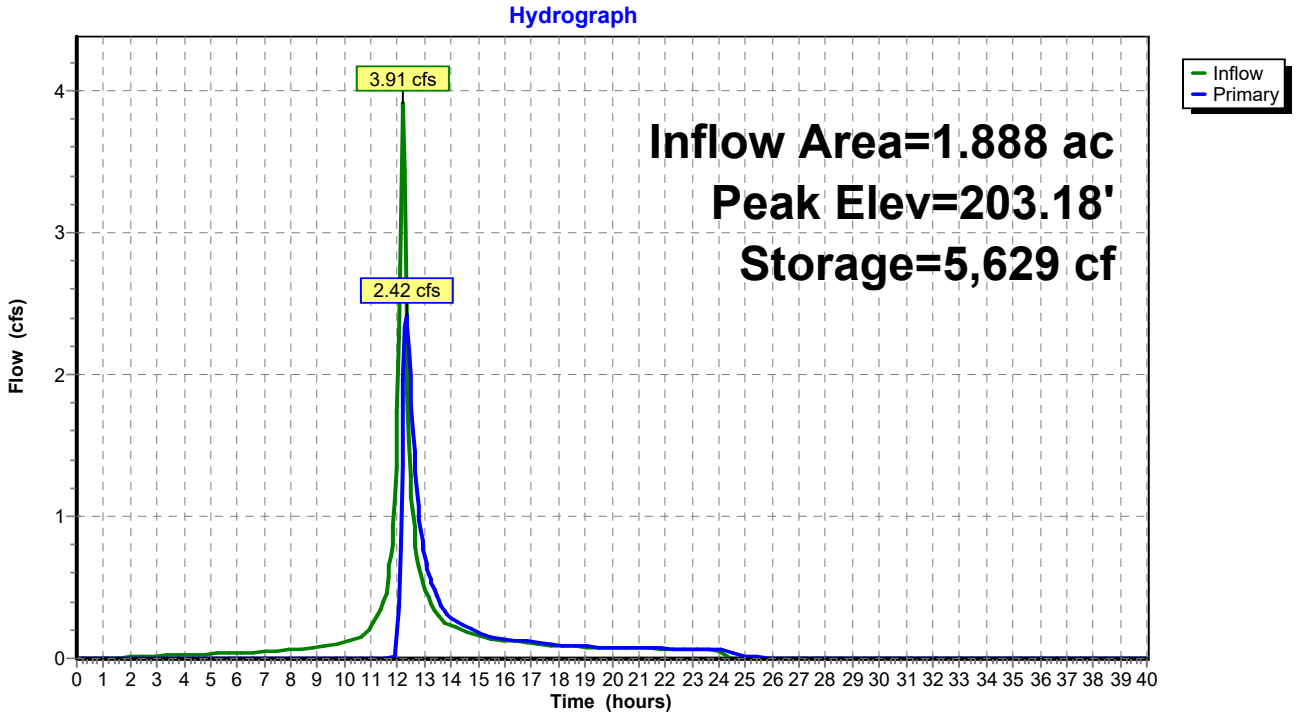
Volume	Invert	Avail.Storage	Storage Description
#1	201.30'	18,339 cf	**Custom Stage Data (Prismatic)** Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
201.30	0	0	0
202.00	3,521	1,232	1,232
203.00	3,886	3,704	4,936
204.00	4,266	4,076	9,012
205.00	4,660	4,463	13,475
206.00	5,069	4,865	18,339

Device	Routing	Invert	Outlet Devices
#1	Primary	201.30'	**18.0" Round Culvert** L= 38.0' Ke= 0.500 Inlet / Outlet Invert= 201.30' / 201.11' S= 0.0050 '/' Cc= 0.900 n= 0.013, Flow Area= 1.77 sf
#2	Device 1	202.65'	**24.0" W x 6.0" H Vert. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#3	Device 1	204.67'	**4.0' long Sharp-Crested Rectangular Weir** 2 End Contraction(s)
#4	Primary	205.49'	**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=2.42 cfs @ 12.30 hrs HW=203.18' (Free Discharge)
- **1=Culvert** (Passes 2.42 cfs of 7.80 cfs potential flow)
  - **2=Orifice/Grate** (Orifice Controls 2.42 cfs @ 2.42 fps)
  - **3=Sharp-Crested Rectangular Weir** (Controls 0.00 cfs)
- **4=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)

Pond B-40: Basin #40



Stage-Discharge for Pond B-40: Basin #40

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
201.30	0.00	201.82	0.00	202.34	0.00	202.86	0.62
201.31	0.00	201.83	0.00	202.35	0.00	202.87	0.66
201.32	0.00	201.84	0.00	202.36	0.00	202.88	0.71
201.33	0.00	201.85	0.00	202.37	0.00	202.89	0.75
201.34	0.00	201.86	0.00	202.38	0.00	202.90	0.80
201.35	0.00	201.87	0.00	202.39	0.00	202.91	0.85
201.36	0.00	201.88	0.00	202.40	0.00	202.92	0.90
201.37	0.00	201.89	0.00	202.41	0.00	202.93	0.95
201.38	0.00	201.90	0.00	202.42	0.00	202.94	1.00
201.39	0.00	201.91	0.00	202.43	0.00	202.95	1.05
201.40	0.00	201.92	0.00	202.44	0.00	202.96	1.11
201.41	0.00	201.93	0.00	202.45	0.00	202.97	1.16
201.42	0.00	201.94	0.00	202.46	0.00	202.98	1.22
201.43	0.00	201.95	0.00	202.47	0.00	202.99	1.27
201.44	0.00	201.96	0.00	202.48	0.00	203.00	1.33
201.45	0.00	201.97	0.00	202.49	0.00	203.01	1.39
201.46	0.00	201.98	0.00	202.50	0.00	203.02	1.44
201.47	0.00	201.99	0.00	202.51	0.00	203.03	1.50
201.48	0.00	202.00	0.00	202.52	0.00	203.04	1.56
201.49	0.00	202.01	0.00	202.53	0.00	203.05	1.62
201.50	0.00	202.02	0.00	202.54	0.00	203.06	1.69
201.51	0.00	202.03	0.00	202.55	0.00	203.07	1.75
201.52	0.00	202.04	0.00	202.56	0.00	203.08	1.81
201.53	0.00	202.05	0.00	202.57	0.00	203.09	1.87
201.54	0.00	202.06	0.00	202.58	0.00	203.10	1.94
201.55	0.00	202.07	0.00	202.59	0.00	203.11	2.00
201.56	0.00	202.08	0.00	202.60	0.00	203.12	2.07
201.57	0.00	202.09	0.00	202.61	0.00	203.13	2.13
201.58	0.00	202.10	0.00	202.62	0.00	203.14	2.20
201.59	0.00	202.11	0.00	202.63	0.00	203.15	2.27
201.60	0.00	202.12	0.00	202.64	0.00	203.16	2.33
201.61	0.00	202.13	0.00	202.65	0.00	203.17	2.39
201.62	0.00	202.14	0.00	202.66	0.01	203.18	2.44
201.63	0.00	202.15	0.00	202.67	0.02	203.19	2.50
201.64	0.00	202.16	0.00	202.68	0.03	203.20	2.55
201.65	0.00	202.17	0.00	202.69	0.05	203.21	2.60
201.66	0.00	202.18	0.00	202.70	0.07	203.22	2.64
201.67	0.00	202.19	0.00	202.71	0.09	203.23	2.69
201.68	0.00	202.20	0.00	202.72	0.12	203.24	2.74
201.69	0.00	202.21	0.00	202.73	0.15	203.25	2.78
201.70	0.00	202.22	0.00	202.74	0.17	203.26	2.82
201.71	0.00	202.23	0.00	202.75	0.20	203.27	2.87
201.72	0.00	202.24	0.00	202.76	0.23	203.28	2.91
201.73	0.00	202.25	0.00	202.77	0.27	203.29	2.95
201.74	0.00	202.26	0.00	202.78	0.30	203.30	2.99
201.75	0.00	202.27	0.00	202.79	0.34	203.31	3.03
201.76	0.00	202.28	0.00	202.80	0.37	203.32	3.07
201.77	0.00	202.29	0.00	202.81	0.41	203.33	3.11
201.78	0.00	202.30	0.00	202.82	0.45	203.34	3.15
201.79	0.00	202.31	0.00	202.83	0.49	203.35	3.19
201.80	0.00	202.32	0.00	202.84	0.53	203.36	3.22
201.81	0.00	202.33	0.00	202.85	0.57	203.37	3.26

Stage-Discharge for Pond B-40: Basin #40 (continued)

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
203.38	3.30	203.90	4.80	204.42	5.93	204.94	8.68
203.39	3.33	203.91	4.83	204.43	5.95	204.95	8.80
203.40	3.37	203.92	4.85	204.44	5.97	204.96	8.92
203.41	3.40	203.93	4.87	204.45	5.99	204.97	9.04
203.42	3.44	203.94	4.90	204.46	6.01	204.98	9.16
203.43	3.47	203.95	4.92	204.47	6.03	204.99	9.29
203.44	3.51	203.96	4.95	204.48	6.05	205.00	9.41
203.45	3.54	203.97	4.97	204.49	6.07	205.01	9.54
203.46	3.57	203.98	4.99	204.50	6.08	205.02	9.67
203.47	3.60	203.99	5.02	204.51	6.10	205.03	9.80
203.48	3.64	204.00	5.04	204.52	6.12	205.04	9.93
203.49	3.67	204.01	5.06	204.53	6.14	205.05	10.06
203.50	3.70	204.02	5.09	204.54	6.16	205.06	10.20
203.51	3.73	204.03	5.11	204.55	6.18	205.07	10.33
203.52	3.76	204.04	5.13	204.56	6.20	205.08	10.47
203.53	3.80	204.05	5.15	204.57	6.22	205.09	10.61
203.54	3.83	204.06	5.18	204.58	6.24	205.10	10.75
203.55	3.86	204.07	5.20	204.59	6.25	205.11	10.89
203.56	3.89	204.08	5.22	204.60	6.27	205.12	11.03
203.57	3.92	204.09	5.24	204.61	6.29	205.13	11.17
203.58	3.95	204.10	5.26	204.62	6.31	205.14	11.32
203.59	3.98	204.11	5.29	204.63	6.33	205.15	11.46
203.60	4.01	204.12	5.31	204.64	6.35	205.16	11.61
203.61	4.04	204.13	5.33	204.65	6.36	205.17	11.76
203.62	4.06	204.14	5.35	204.66	6.38	205.18	11.91
203.63	4.09	204.15	5.37	204.67	6.40	205.19	12.06
203.64	4.12	204.16	5.40	204.68	6.43	205.20	12.21
203.65	4.15	204.17	5.42	204.69	6.47	205.21	12.36
203.66	4.18	204.18	5.44	204.70	6.52	205.22	12.52
203.67	4.21	204.19	5.46	204.71	6.58	205.23	12.67
203.68	4.23	204.20	5.48	204.72	6.64	205.24	12.83
203.69	4.26	204.21	5.50	204.73	6.70	205.25	12.99
203.70	4.29	204.22	5.52	204.74	6.77	205.26	13.15
203.71	4.32	204.23	5.54	204.75	6.84	205.27	13.31
203.72	4.34	204.24	5.57	204.76	6.91	205.28	13.47
203.73	4.37	204.25	5.59	204.77	6.99	205.29	13.63
203.74	4.40	204.26	5.61	204.78	7.07	205.30	13.79
203.75	4.42	204.27	5.63	204.79	7.16	205.31	13.95
203.76	4.45	204.28	5.65	204.80	7.24	205.32	14.12
203.77	4.48	204.29	5.67	204.81	7.33	205.33	14.28
203.78	4.50	204.30	5.69	204.82	7.42	205.34	14.45
203.79	4.53	204.31	5.71	204.83	7.51	205.35	14.62
203.80	4.55	204.32	5.73	204.84	7.61	205.36	14.79
203.81	4.58	204.33	5.75	204.85	7.71	205.37	14.96
203.82	4.60	204.34	5.77	204.86	7.81	205.38	15.13
203.83	4.63	204.35	5.79	204.87	7.91	205.39	15.30
203.84	4.65	204.36	5.81	204.88	8.02	205.40	15.47
203.85	4.68	204.37	5.83	204.89	8.12	205.41	15.60
203.86	4.70	204.38	5.85	204.90	8.23	205.42	15.62
203.87	4.73	204.39	5.87	204.91	8.34	205.43	15.64
203.88	4.75	204.40	5.89	204.92	8.45	205.44	15.67
203.89	4.78	204.41	5.91	204.93	8.57	205.45	15.69

Stage-Discharge for Pond B-40: Basin #40 (continued)

Elevation (feet)	Primary (cfs)
205.46	15.71
205.47	15.74
205.48	15.76
205.49	15.78
205.50	15.92
205.51	16.16
205.52	16.46
205.53	16.81
205.54	17.21
205.55	17.64
205.56	18.12
205.57	18.62
205.58	19.16
205.59	19.73
205.60	20.32
205.61	20.95
205.62	21.60
205.63	22.27
205.64	22.97
205.65	23.69
205.66	24.43
205.67	25.20
205.68	25.99
205.69	26.80
205.70	27.67
205.71	28.56
205.72	29.48
205.73	30.43
205.74	31.40
205.75	32.39
205.76	33.41
205.77	34.46
205.78	35.53
205.79	36.62
205.80	37.74
205.81	38.89
205.82	40.05
205.83	41.25
205.84	42.46
205.85	43.70
205.86	44.97
205.87	46.25
205.88	47.57
205.89	48.90
205.90	50.29
205.91	51.70
205.92	53.14
205.93	54.61
205.94	56.10
205.95	57.62
205.96	59.16
205.97	60.73
205.98	62.33
205.99	63.95
206.00	**65.60**

Stage-Area-Storage for Pond B-40: Basin #40

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
201.30	0	0	201.82	2,616	680
201.31	50	0	201.83	2,666	706
201.32	101	1	201.84	2,716	733
201.33	151	2	201.85	2,767	761
201.34	201	4	201.86	2,817	789
201.35	252	6	201.87	2,867	817
201.36	302	9	201.88	2,917	846
201.37	352	12	201.89	2,968	875
201.38	402	16	201.90	3,018	905
201.39	453	20	201.91	3,068	936
201.40	503	25	201.92	3,119	967
201.41	553	30	201.93	3,169	998
201.42	604	36	201.94	3,219	1,030
201.43	654	43	201.95	3,270	1,063
201.44	704	49	201.96	3,320	1,096
201.45	755	57	201.97	3,370	1,129
201.46	805	64	201.98	3,420	1,163
201.47	855	73	201.99	3,471	1,197
201.48	905	81	202.00	3,521	1,232
201.49	956	91	202.01	3,525	1,268
201.50	1,006	101	202.02	3,528	1,303
201.51	1,056	111	202.03	3,532	1,338
201.52	1,107	122	202.04	3,536	1,373
201.53	1,157	133	202.05	3,539	1,409
201.54	1,207	145	202.06	3,543	1,444
201.55	1,258	157	202.07	3,547	1,480
201.56	1,308	170	202.08	3,550	1,515
201.57	1,358	183	202.09	3,554	1,551
201.58	1,408	197	202.10	3,558	1,586
201.59	1,459	212	202.11	3,561	1,622
201.60	1,509	226	202.12	3,565	1,657
201.61	1,559	242	202.13	3,568	1,693
201.62	1,610	258	202.14	3,572	1,729
201.63	1,660	274	202.15	3,576	1,765
201.64	1,710	291	202.16	3,579	1,800
201.65	1,761	308	202.17	3,583	1,836
201.66	1,811	326	202.18	3,587	1,872
201.67	1,861	344	202.19	3,590	1,908
201.68	1,911	363	202.20	3,594	1,944
201.69	1,962	383	202.21	3,598	1,980
201.70	2,012	402	202.22	3,601	2,016
201.71	2,062	423	202.23	3,605	2,052
201.72	2,113	444	202.24	3,609	2,088
201.73	2,163	465	202.25	3,612	2,124
201.74	2,213	487	202.26	3,616	2,160
201.75	2,263	509	202.27	3,620	2,196
201.76	2,314	532	202.28	3,623	2,233
201.77	2,364	556	202.29	3,627	2,269
201.78	2,414	579	202.30	3,631	2,305
201.79	2,465	604	202.31	3,634	2,341
201.80	2,515	629	202.32	3,638	2,378
201.81	2,565	654	202.33	3,641	2,414

Stage-Area-Storage for Pond B-40: Basin #40 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
202.34	3,645	2,451	202.86	3,835	4,395
202.35	3,649	2,487	202.87	3,839	4,434
202.36	3,652	2,524	202.88	3,842	4,472
202.37	3,656	2,560	202.89	3,846	4,511
202.38	3,660	2,597	202.90	3,850	4,549
202.39	3,663	2,633	202.91	3,853	4,588
202.40	3,667	2,670	202.92	3,857	4,626
202.41	3,671	2,707	202.93	3,860	4,665
202.42	3,674	2,743	202.94	3,864	4,703
202.43	3,678	2,780	202.95	3,868	4,742
202.44	3,682	2,817	202.96	3,871	4,781
202.45	3,685	2,854	202.97	3,875	4,819
202.46	3,689	2,891	202.98	3,879	4,858
202.47	3,693	2,928	202.99	3,882	4,897
202.48	3,696	2,964	203.00	3,886	4,936
202.49	3,700	3,001	203.01	3,890	4,975
202.50	3,704	3,038	203.02	3,894	5,014
202.51	3,707	3,076	203.03	3,897	5,053
202.52	3,711	3,113	203.04	3,901	5,092
202.53	3,714	3,150	203.05	3,905	5,131
202.54	3,718	3,187	203.06	3,909	5,170
202.55	3,722	3,224	203.07	3,913	5,209
202.56	3,725	3,261	203.08	3,916	5,248
202.57	3,729	3,299	203.09	3,920	5,287
202.58	3,733	3,336	203.10	3,924	5,326
202.59	3,736	3,373	203.11	3,928	5,366
202.60	3,740	3,411	203.12	3,932	5,405
202.61	3,744	3,448	203.13	3,935	5,444
202.62	3,747	3,486	203.14	3,939	5,484
202.63	3,751	3,523	203.15	3,943	5,523
202.64	3,755	3,561	203.16	3,947	5,562
202.65	3,758	3,598	203.17	3,951	5,602
202.66	3,762	3,636	203.18	3,954	5,641
202.67	3,766	3,673	203.19	3,958	5,681
202.68	3,769	3,711	203.20	3,962	5,721
202.69	3,773	3,749	203.21	3,966	5,760
202.70	3,777	3,786	203.22	3,970	5,800
202.71	3,780	3,824	203.23	3,973	5,840
202.72	3,784	3,862	203.24	3,977	5,879
202.73	3,787	3,900	203.25	3,981	5,919
202.74	3,791	3,938	203.26	3,985	5,959
202.75	3,795	3,976	203.27	3,989	5,999
202.76	3,798	4,014	203.28	3,992	6,039
202.77	3,802	4,052	203.29	3,996	6,079
202.78	3,806	4,090	203.30	4,000	6,119
202.79	3,809	4,128	203.31	4,004	6,159
202.80	3,813	4,166	203.32	4,008	6,199
202.81	3,817	4,204	203.33	4,011	6,239
202.82	3,820	4,242	203.34	4,015	6,279
202.83	3,824	4,281	203.35	4,019	6,319
202.84	3,828	4,319	203.36	4,023	6,359
202.85	3,831	4,357	203.37	4,027	6,400

Stage-Area-Storage for Pond B-40: Basin #40 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
203.38	4,030	6,440
203.39	4,034	6,480
203.40	4,038	6,521
203.41	4,042	6,561
203.42	4,046	6,601
203.43	4,049	6,642
203.44	4,053	6,682
203.45	4,057	6,723
203.46	4,061	6,764
203.47	4,065	6,804
203.48	4,068	6,845
203.49	4,072	6,886
203.50	4,076	6,926
203.51	4,080	6,967
203.52	4,084	7,008
203.53	4,087	7,049
203.54	4,091	7,090
203.55	4,095	7,131
203.56	4,099	7,172
203.57	4,103	7,213
203.58	4,106	7,254
203.59	4,110	7,295
203.60	4,114	7,336
203.61	4,118	7,377
203.62	4,122	7,418
203.63	4,125	7,459
203.64	4,129	7,501
203.65	4,133	7,542
203.66	4,137	7,583
203.67	4,141	7,625
203.68	4,144	7,666
203.69	4,148	7,708
203.70	4,152	7,749
203.71	4,156	7,791
203.72	4,160	7,832
203.73	4,163	7,874
203.74	4,167	7,916
203.75	4,171	7,957
203.76	4,175	7,999
203.77	4,179	8,041
203.78	4,182	8,083
203.79	4,186	8,124
203.80	4,190	8,166
203.81	4,194	8,208
203.82	4,198	8,250
203.83	4,201	8,292
203.84	4,205	8,334
203.85	4,209	8,376
203.86	4,213	8,418
203.87	4,217	8,460
203.88	4,220	8,503
203.89	4,224	8,545
203.90	4,228	8,587
203.91	4,232	8,629
203.92	4,236	8,672
203.93	4,239	8,714
203.94	4,243	8,757
203.95	4,247	8,799
203.96	4,251	8,842
203.97	4,255	8,884
203.98	4,258	8,927
203.99	4,262	8,969
204.00	4,266	9,012
204.01	4,270	9,055
204.02	4,274	9,097
204.03	4,278	9,140
204.04	4,282	9,183
204.05	4,286	9,226
204.06	4,290	9,269
204.07	4,294	9,311
204.08	4,298	9,354
204.09	4,301	9,397
204.10	4,305	9,440
204.11	4,309	9,483
204.12	4,313	9,527
204.13	4,317	9,570
204.14	4,321	9,613
204.15	4,325	9,656
204.16	4,329	9,699
204.17	4,333	9,743
204.18	4,337	9,786
204.19	4,341	9,830
204.20	4,345	9,873
204.21	4,349	9,916
204.22	4,353	9,960
204.23	4,357	10,003
204.24	4,361	10,047
204.25	4,365	10,091
204.26	4,368	10,134
204.27	4,372	10,178
204.28	4,376	10,222
204.29	4,380	10,266
204.30	4,384	10,309
204.31	4,388	10,353
204.32	4,392	10,397
204.33	4,396	10,441
204.34	4,400	10,485
204.35	4,404	10,529
204.36	4,408	10,573
204.37	4,412	10,617
204.38	4,416	10,661
204.39	4,420	10,706
204.40	4,424	10,750
204.41	4,428	10,794

Stage-Area-Storage for Pond B-40: Basin #40 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
204.42	4,431	10,838	204.94	4,636	13,196
204.43	4,435	10,883	204.95	4,640	13,242
204.44	4,439	10,927	204.96	4,644	13,289
204.45	4,443	10,971	204.97	4,648	13,335
204.46	4,447	11,016	204.98	4,652	13,382
204.47	4,451	11,060	204.99	4,656	13,428
204.48	4,455	11,105	205.00	4,660	13,475
204.49	4,459	11,149	205.01	4,664	13,521
204.50	4,463	11,194	205.02	4,668	13,568
204.51	4,467	11,239	205.03	4,672	13,615
204.52	4,471	11,283	205.04	4,676	13,662
204.53	4,475	11,328	205.05	4,680	13,708
204.54	4,479	11,373	205.06	4,685	13,755
204.55	4,483	11,418	205.07	4,689	13,802
204.56	4,487	11,463	205.08	4,693	13,849
204.57	4,491	11,507	205.09	4,697	13,896
204.58	4,495	11,552	205.10	4,701	13,943
204.59	4,498	11,597	205.11	4,705	13,990
204.60	4,502	11,642	205.12	4,709	14,037
204.61	4,506	11,687	205.13	4,713	14,084
204.62	4,510	11,732	205.14	4,717	14,131
204.63	4,514	11,778	205.15	4,721	14,178
204.64	4,518	11,823	205.16	4,725	14,226
204.65	4,522	11,868	205.17	4,730	14,273
204.66	4,526	11,913	205.18	4,734	14,320
204.67	4,530	11,959	205.19	4,738	14,368
204.68	4,534	12,004	205.20	4,742	14,415
204.69	4,538	12,049	205.21	4,746	14,462
204.70	4,542	12,095	205.22	4,750	14,510
204.71	4,546	12,140	205.23	4,754	14,557
204.72	4,550	12,185	205.24	4,758	14,605
204.73	4,554	12,231	205.25	4,762	14,653
204.74	4,558	12,277	205.26	4,766	14,700
204.75	4,562	12,322	205.27	4,770	14,748
204.76	4,565	12,368	205.28	4,775	14,796
204.77	4,569	12,413	205.29	4,779	14,843
204.78	4,573	12,459	205.30	4,783	14,891
204.79	4,577	12,505	205.31	4,787	14,939
204.80	4,581	12,551	205.32	4,791	14,987
204.81	4,585	12,597	205.33	4,795	15,035
204.82	4,589	12,642	205.34	4,799	15,083
204.83	4,593	12,688	205.35	4,803	15,131
204.84	4,597	12,734	205.36	4,807	15,179
204.85	4,601	12,780	205.37	4,811	15,227
204.86	4,605	12,826	205.38	4,815	15,275
204.87	4,609	12,872	205.39	4,820	15,323
204.88	4,613	12,918	205.40	4,824	15,372
204.89	4,617	12,965	205.41	4,828	15,420
204.90	4,621	13,011	205.42	4,832	15,468
204.91	4,625	13,057	205.43	4,836	15,516
204.92	4,628	13,103	205.44	4,840	15,565
204.93	4,632	13,150	205.45	4,844	15,613

Stage-Area-Storage for Pond B-40: Basin #40 (continued)

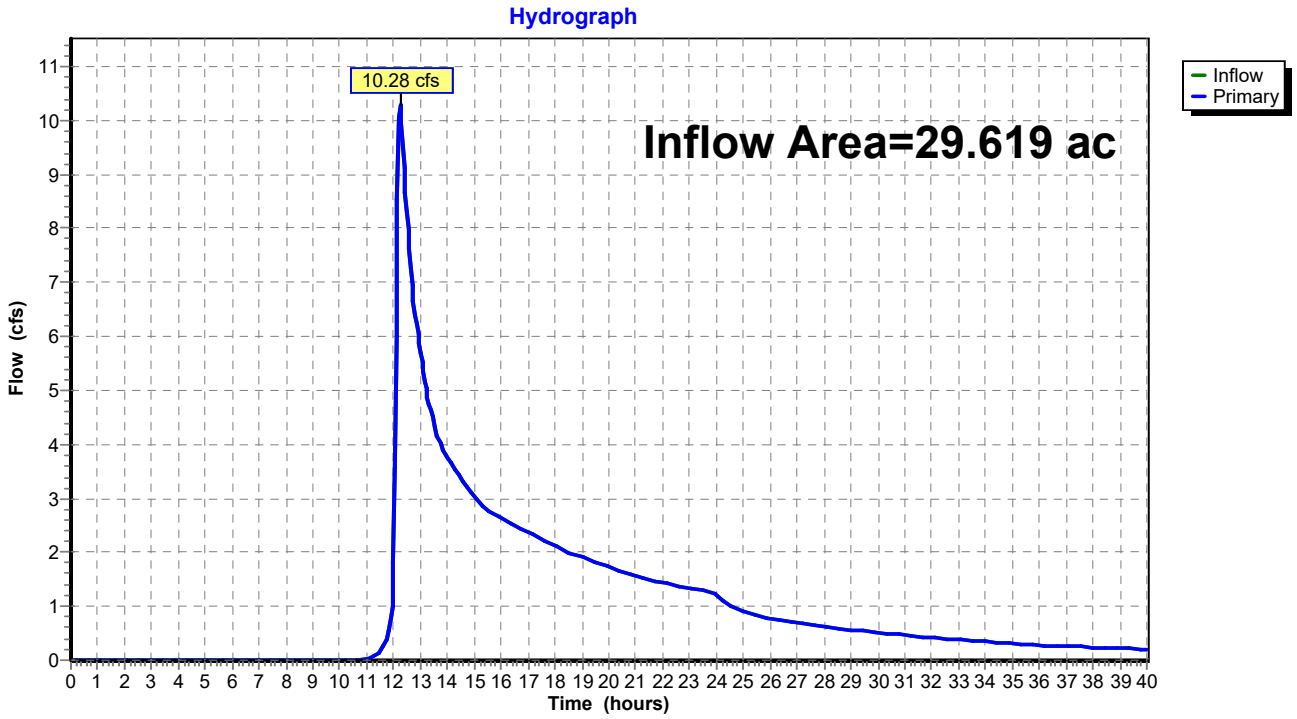
Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
205.46	4,848	15,662
205.47	4,852	15,710
205.48	4,856	15,759
205.49	4,860	15,807
205.50	4,865	15,856
205.51	4,869	15,905
205.52	4,873	15,953
205.53	4,877	16,002
205.54	4,881	16,051
205.55	4,885	16,100
205.56	4,889	16,149
205.57	4,893	16,197
205.58	4,897	16,246
205.59	4,901	16,295
205.60	4,905	16,344
205.61	4,909	16,394
205.62	4,914	16,443
205.63	4,918	16,492
205.64	4,922	16,541
205.65	4,926	16,590
205.66	4,930	16,640
205.67	4,934	16,689
205.68	4,938	16,738
205.69	4,942	16,788
205.70	4,946	16,837
205.71	4,950	16,887
205.72	4,954	16,936
205.73	4,959	16,986
205.74	4,963	17,035
205.75	4,967	17,085
205.76	4,971	17,135
205.77	4,975	17,184
205.78	4,979	17,234
205.79	4,983	17,284
205.80	4,987	17,334
205.81	4,991	17,384
205.82	4,995	17,434
205.83	4,999	17,484
205.84	5,004	17,534
205.85	5,008	17,584
205.86	5,012	17,634
205.87	5,016	17,684
205.88	5,020	17,734
205.89	5,024	17,784
205.90	5,028	17,834
205.91	5,032	17,885
205.92	5,036	17,935
205.93	5,040	17,986
205.94	5,044	18,036
205.95	5,049	18,086
205.96	5,053	18,137
205.97	5,057	18,187
205.98	5,061	18,238
205.99	5,065	18,289
206.00	**5,069**	**18,339**

Summary for Link PDA-3: Proposed Drainage Area #3

Inflow Area = 29.619 ac, 38.13% Impervious, Inflow Depth > 1.35" for Current 2 yr event
Inflow = 10.28 cfs @ 12.24 hrs, Volume= 3.338 af
Primary = 10.28 cfs @ 12.24 hrs, Volume= 3.338 af, Atten= 0%, Lag= 0.0 min

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

Link PDA-3: Proposed Drainage Area #3



Summary for Subcatchment 29l: PDA-29 (impervious)

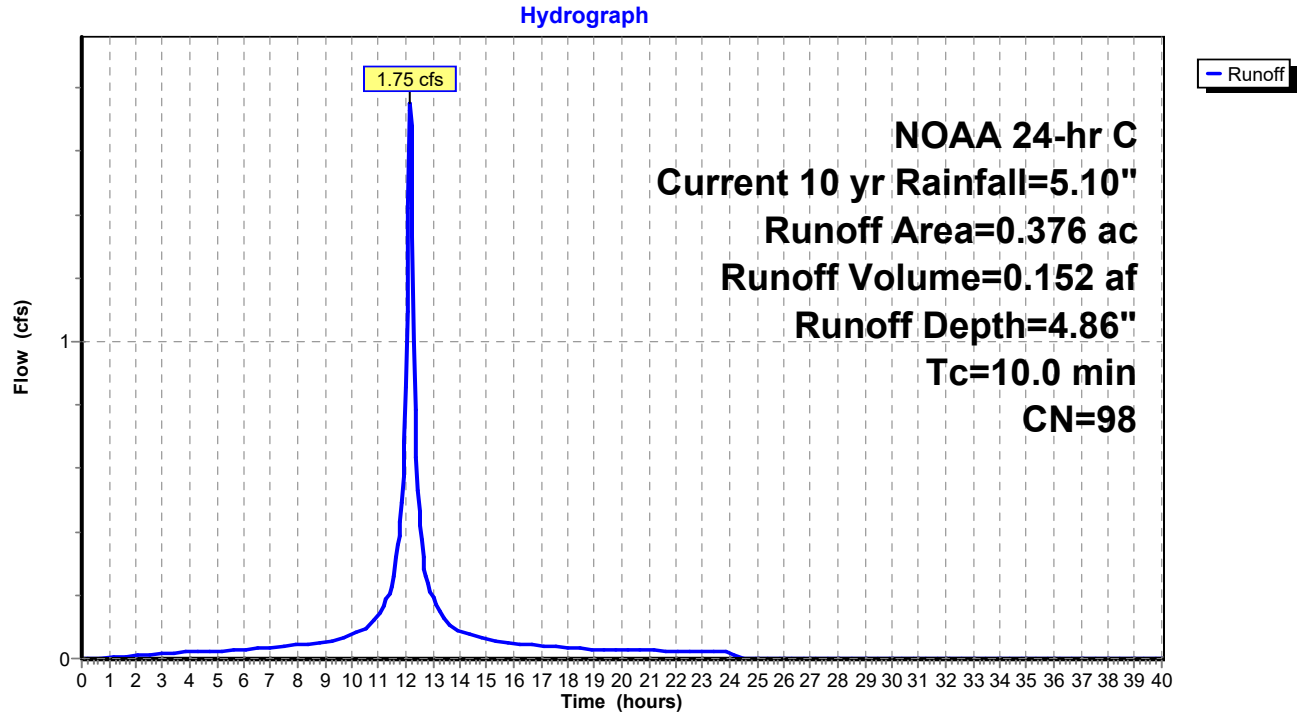
Runoff = 1.75 cfs @ 12.17 hrs, Volume= 0.152 af, Depth= 4.86"
Routed to Pond B-29 : Basin #29

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
*	0.342	98	Pavement, HSG C
*	0.034	98	Concrete, HSC C
	0.376	98	Weighted Average
	0.376		100.00% Impervious Area

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

Subcatchment 29l: PDA-29 (impervious)



Summary for Subcatchment 29P: PDA-29 (pervious)

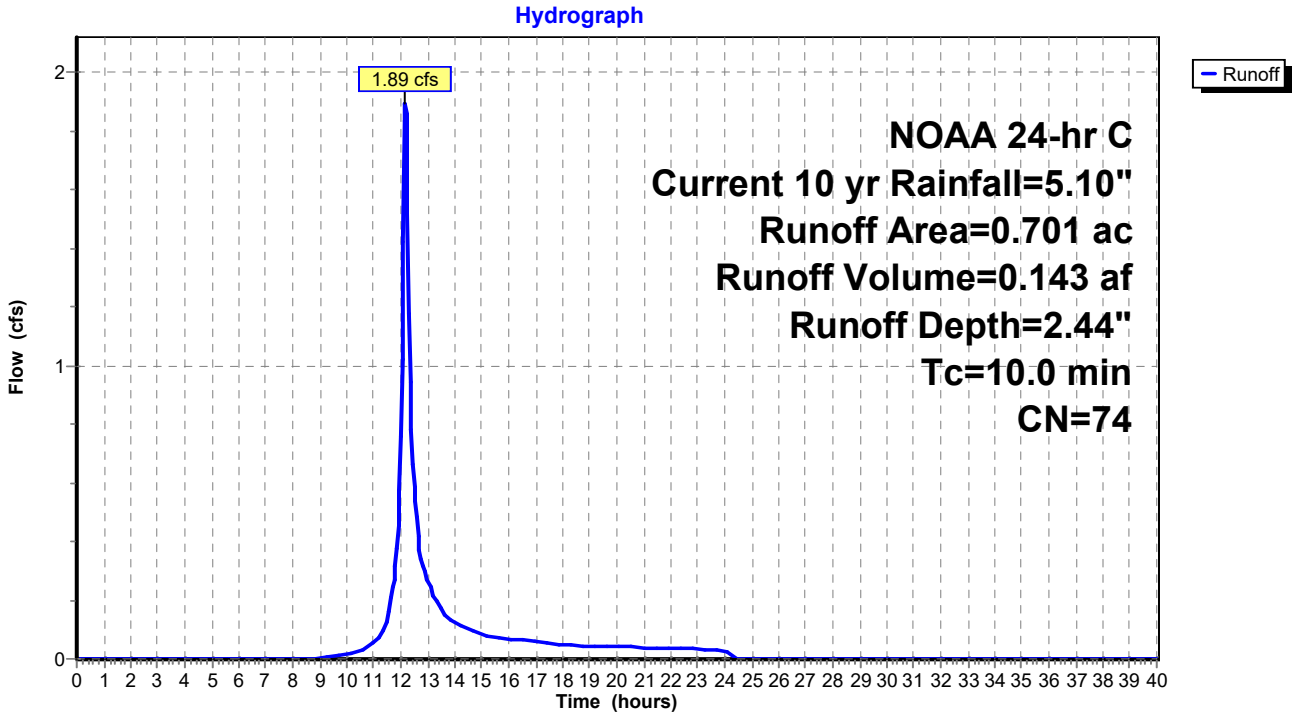
Runoff = 1.89 cfs @ 12.18 hrs, Volume= 0.143 af, Depth= 2.44"
Routed to Pond B-29 : Basin #29

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
0.701	74	>75% Grass cover, Good, HSG C
0.701		100.00% Pervious Area

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

Subcatchment 29P: PDA-29 (pervious)



Summary for Subcatchment 30l: PDA-30 (impervious)

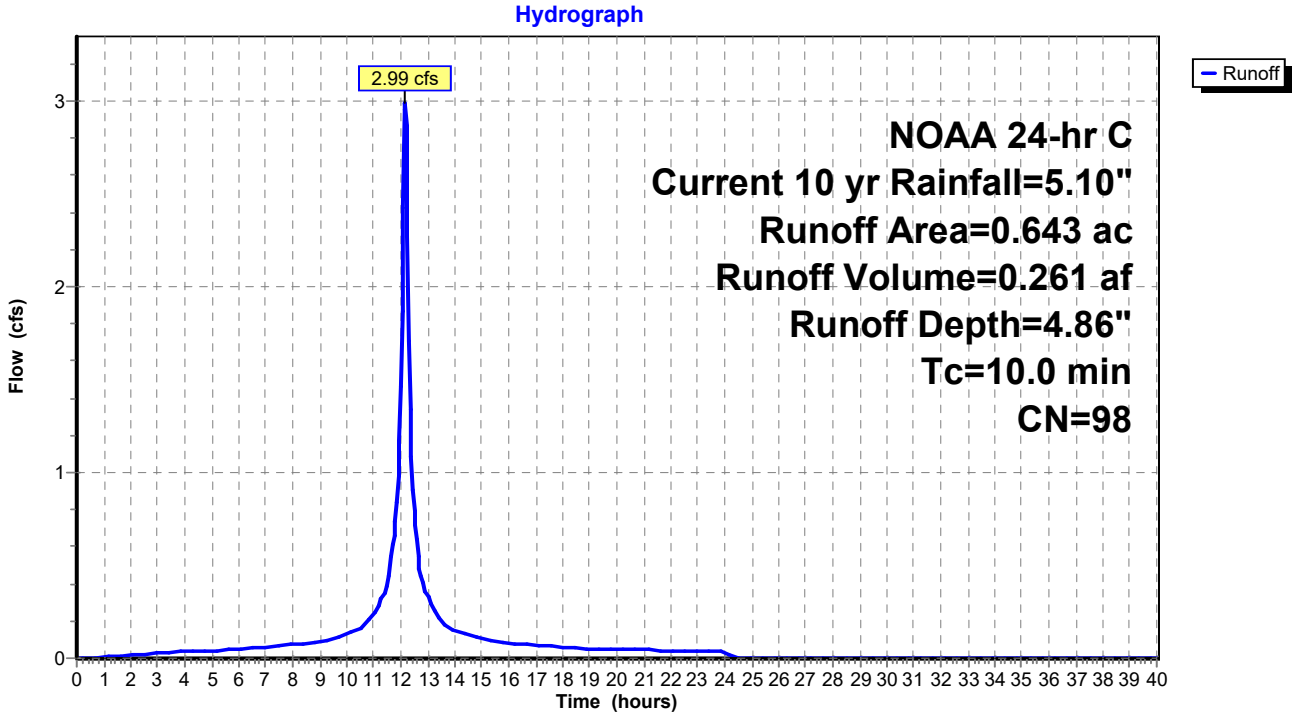
Runoff = 2.99 cfs @ 12.17 hrs, Volume= 0.261 af, Depth= 4.86"
Routed to Pond B-30 : Basin #30

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
*	0.643	98	Roof, HSG C
*	0.000	98	Concrete, HSC C
	0.643	98	Weighted Average
	0.643		100.00% Impervious Area

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

Subcatchment 30l: PDA-30 (impervious)



Summary for Subcatchment 30P: PDA-30 (pervious)

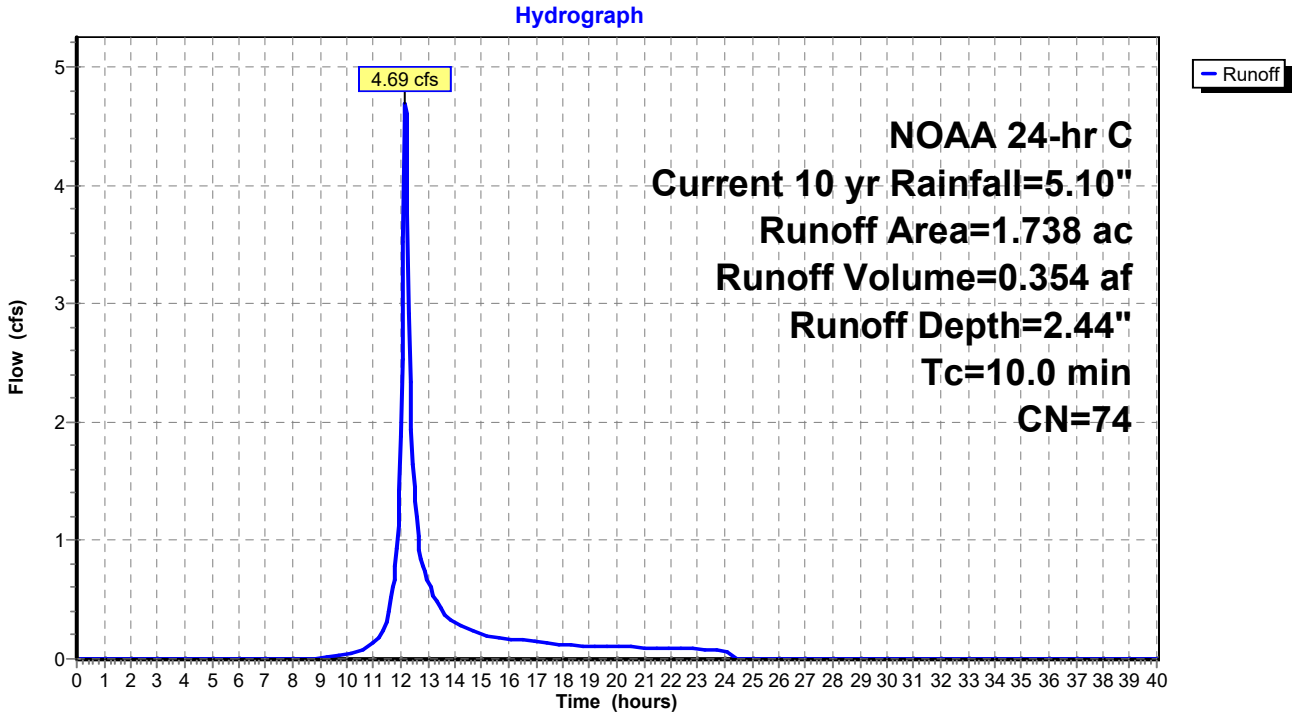
Runoff = 4.69 cfs @ 12.18 hrs, Volume= 0.354 af, Depth= 2.44"
Routed to Pond B-30 : Basin #30

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
1.738	74	>75% Grass cover, Good, HSG C
1.738		100.00% Pervious Area

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

Subcatchment 30P: PDA-30 (pervious)



Summary for Subcatchment 31I: PDA-31 (impervious)

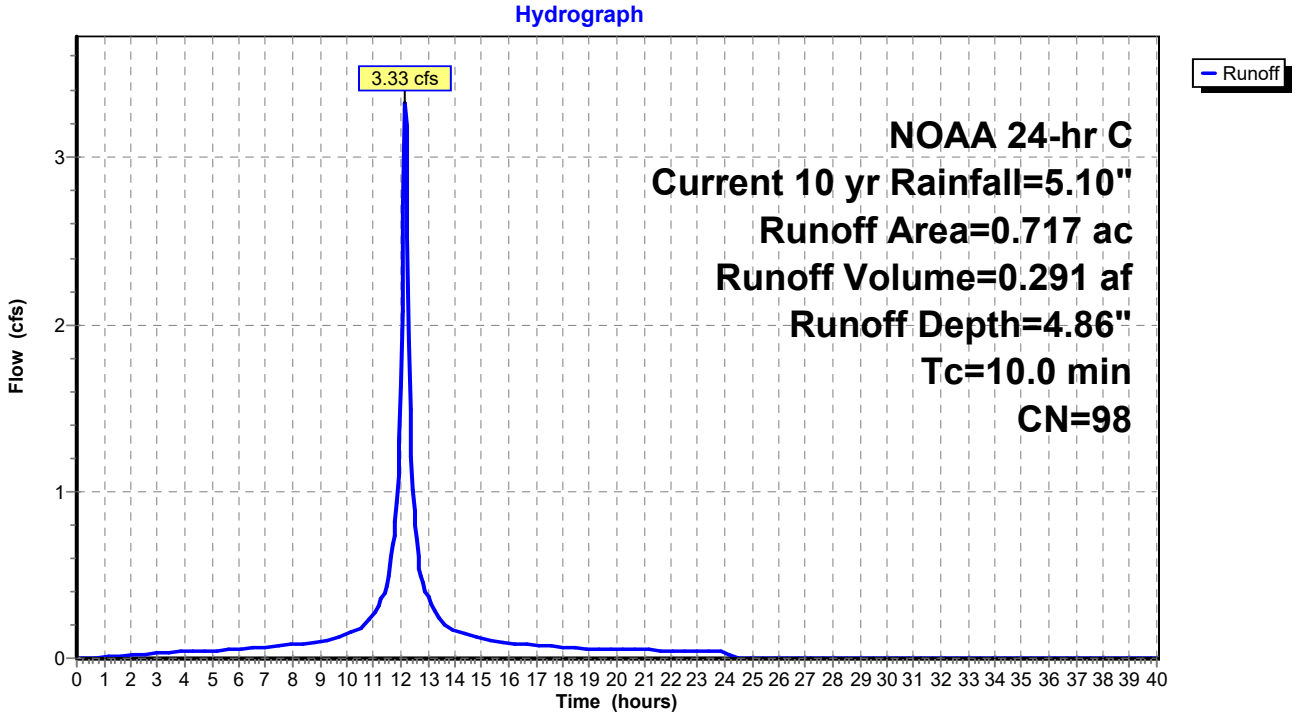
Runoff = 3.33 cfs @ 12.17 hrs, Volume= 0.291 af, Depth= 4.86"
Routed to Pond B-31 : Basin #31

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
*	0.557	98	Pavement, HSG C
*	0.064	98	Roof, HSG C
*	0.096	98	Concrete, HSC C
	0.717	98	Weighted Average
	0.717		100.00% Impervious Area

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

Subcatchment 31I: PDA-31 (impervious)



Summary for Subcatchment 31P: PDA-31 (pervious)

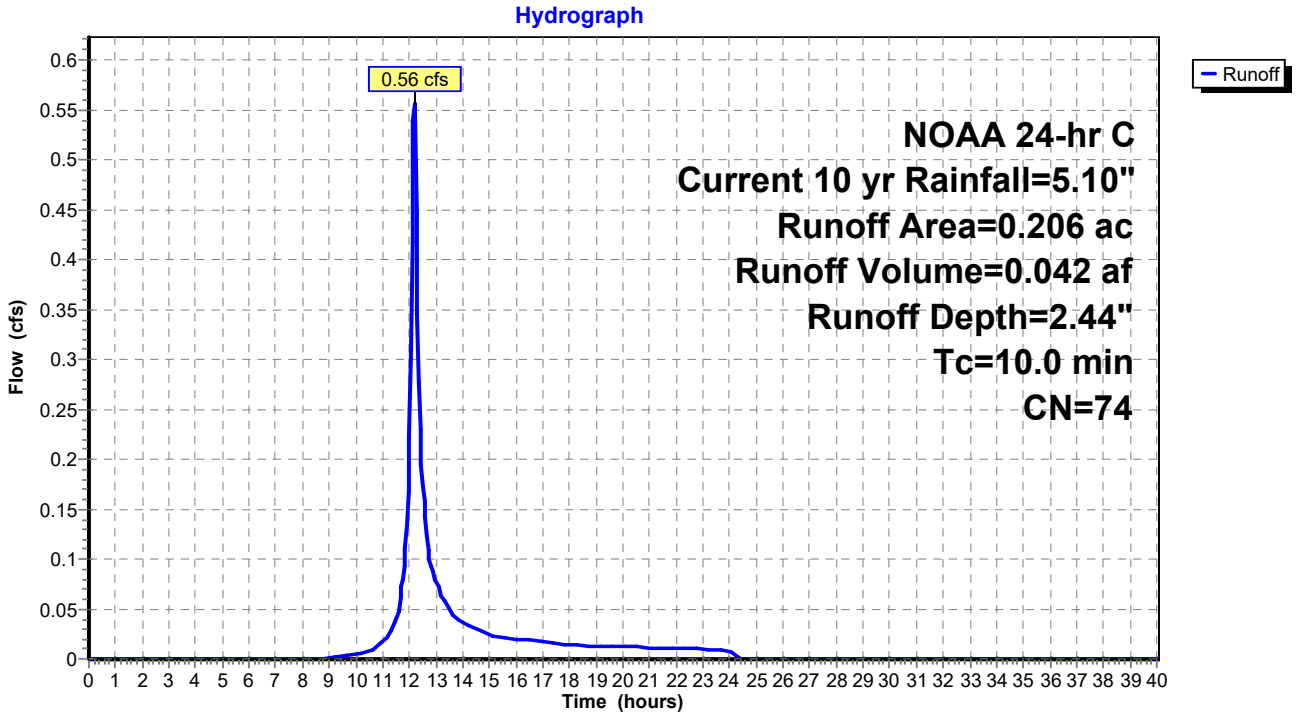
Runoff = 0.56 cfs @ 12.18 hrs, Volume= 0.042 af, Depth= 2.44"
Routed to Pond B-31 : Basin #31

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
0.206	74	>75% Grass cover, Good, HSG C
0.206		100.00% Pervious Area

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

Subcatchment 31P: PDA-31 (pervious)



Summary for Subcatchment 32l: PDA-32 (impervious)

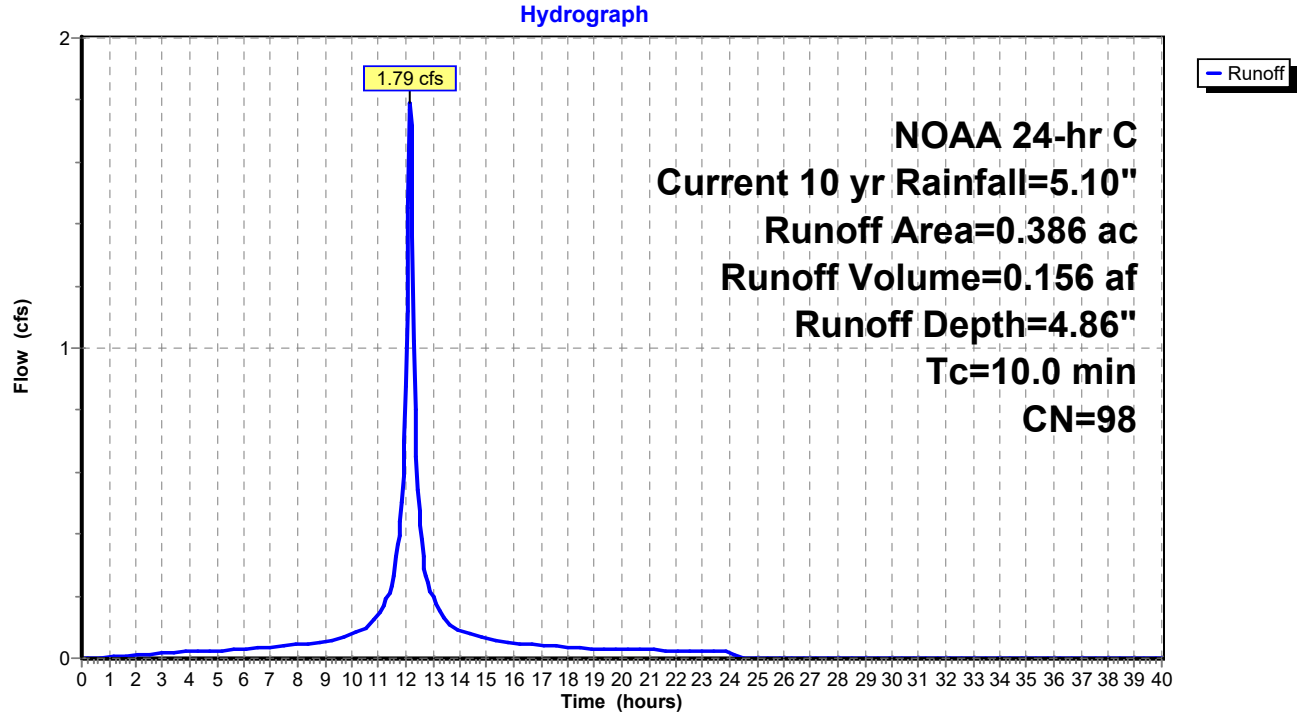
Runoff = 1.79 cfs @ 12.17 hrs, Volume= 0.156 af, Depth= 4.86"
Routed to Pond B-32 : Basin #32

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
*	0.386	98	Roof, HSG C
*	0.000	98	Concrete, HSC C
	0.386	98	Weighted Average
	0.386		100.00% Impervious Area

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

Subcatchment 32l: PDA-32 (impervious)



Summary for Subcatchment 32P: PDA-32 (pervious)

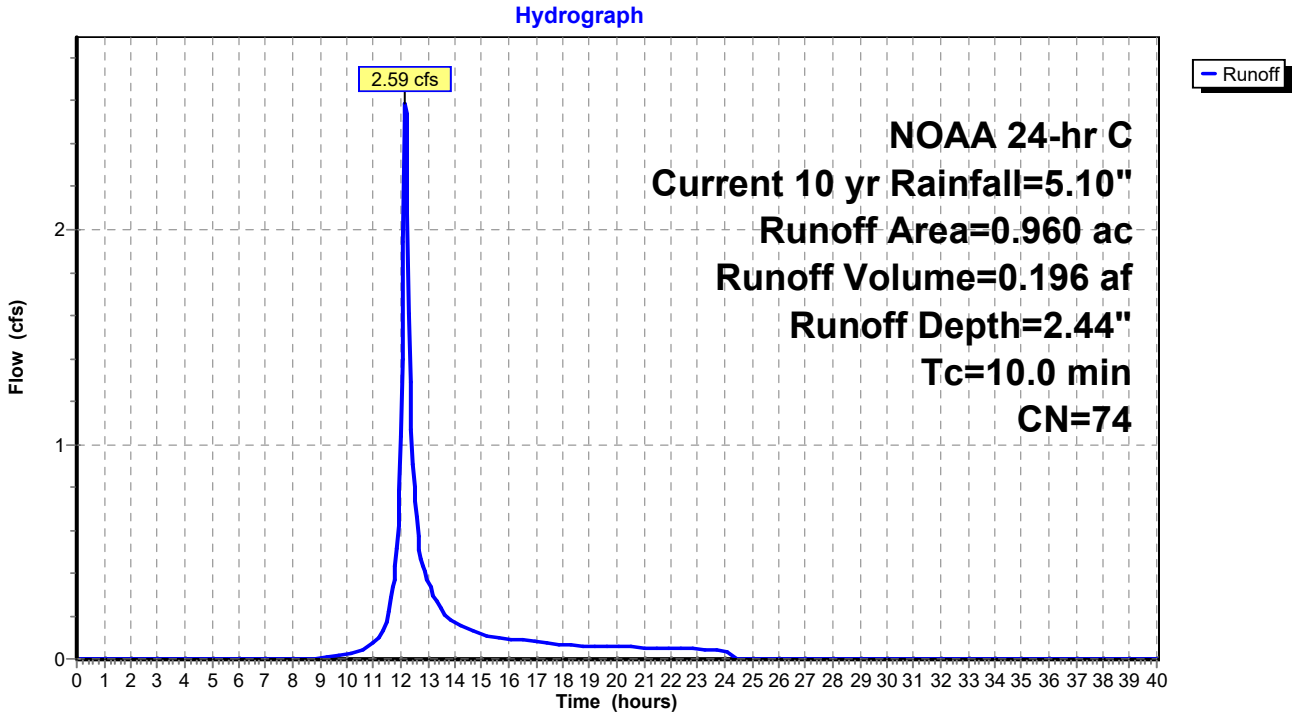
Runoff = 2.59 cfs @ 12.18 hrs, Volume= 0.196 af, Depth= 2.44"
Routed to Pond B-32 : Basin #32

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 32P: PDA-32 (pervious)



Summary for Subcatchment 33l: PDA-33 (impervious)

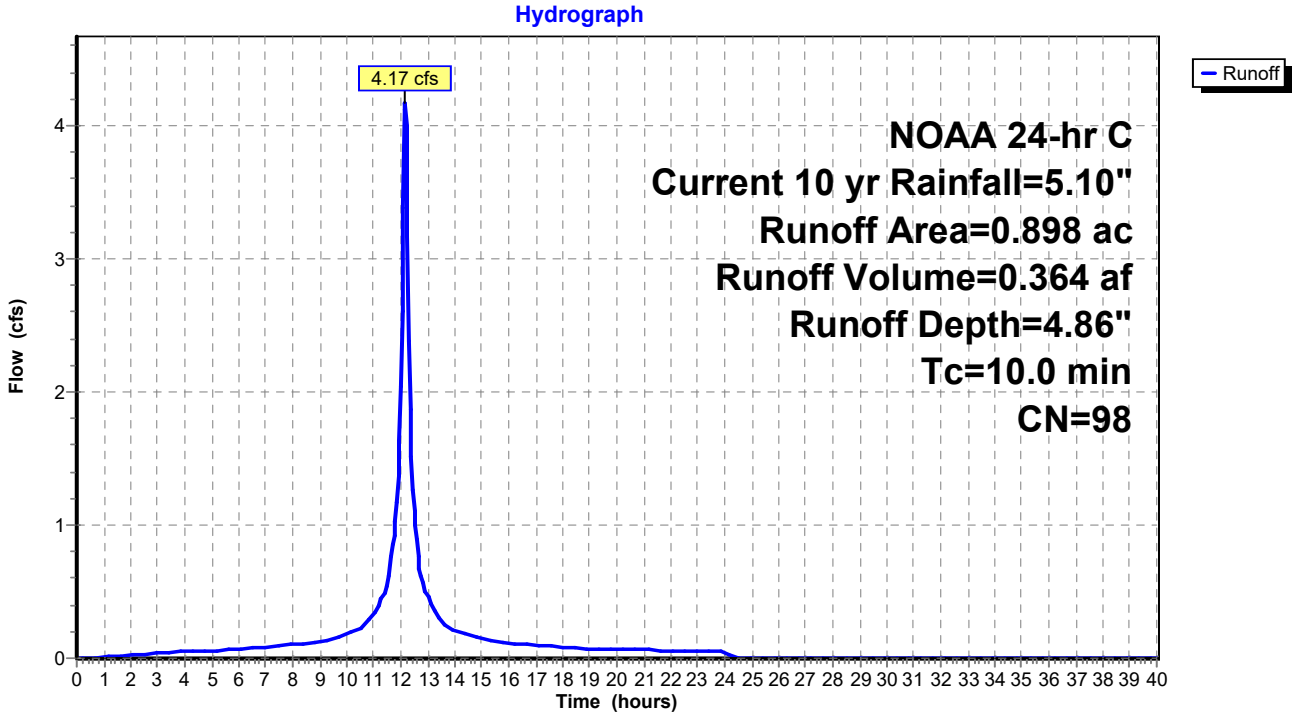
Runoff = 4.17 cfs @ 12.17 hrs, Volume= 0.364 af, Depth= 4.86"
Routed to Pond B-33 : Basin #33

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
*	0.351	98	Pavement, HSG C
*	0.514	98	Roof, HSG C
*	0.033	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 33l: PDA-33 (impervious)



Summary for Subcatchment 33P: PDA-33 (pervious)

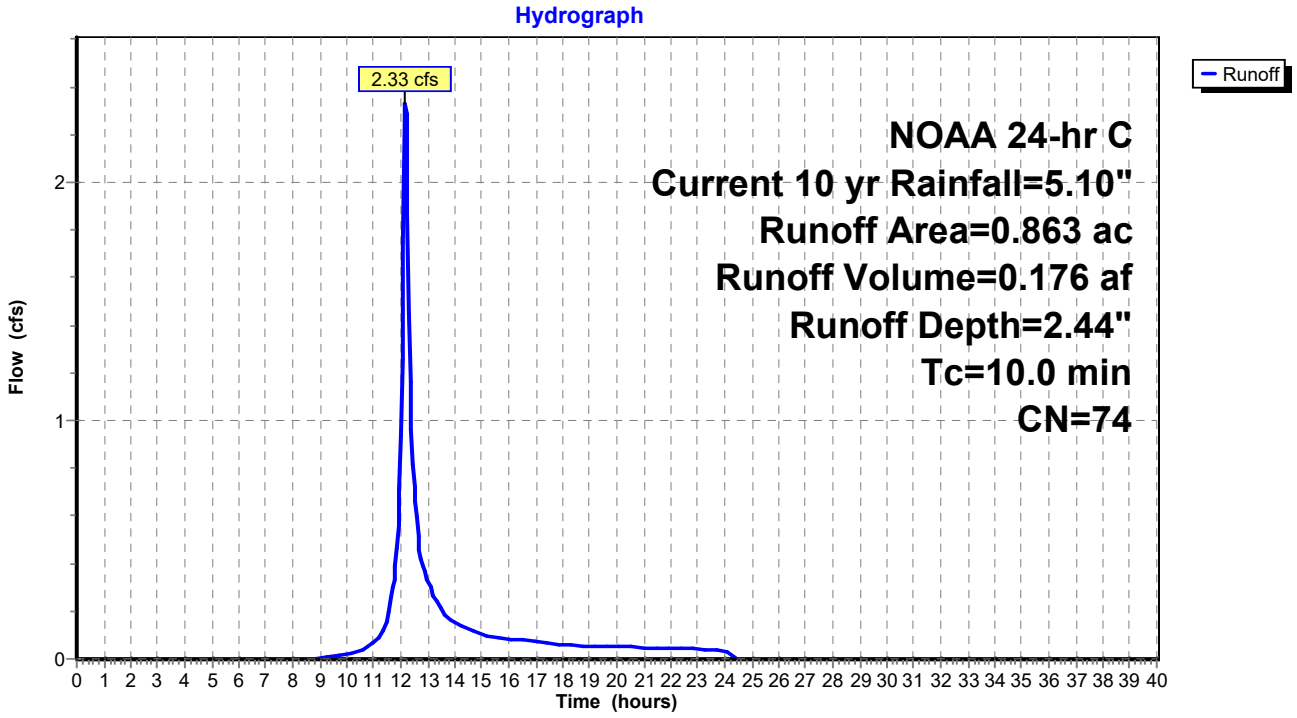
Runoff = 2.33 cfs @ 12.18 hrs, Volume= 0.176 af, Depth= 2.44"
Routed to Pond B-33 : Basin #33

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
0.863	74	>75% Grass cover, Good, HSG C
0.863		100.00% Pervious Area

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

Subcatchment 33P: PDA-33 (pervious)



Summary for Subcatchment 34l: PDA-34 (impervious)

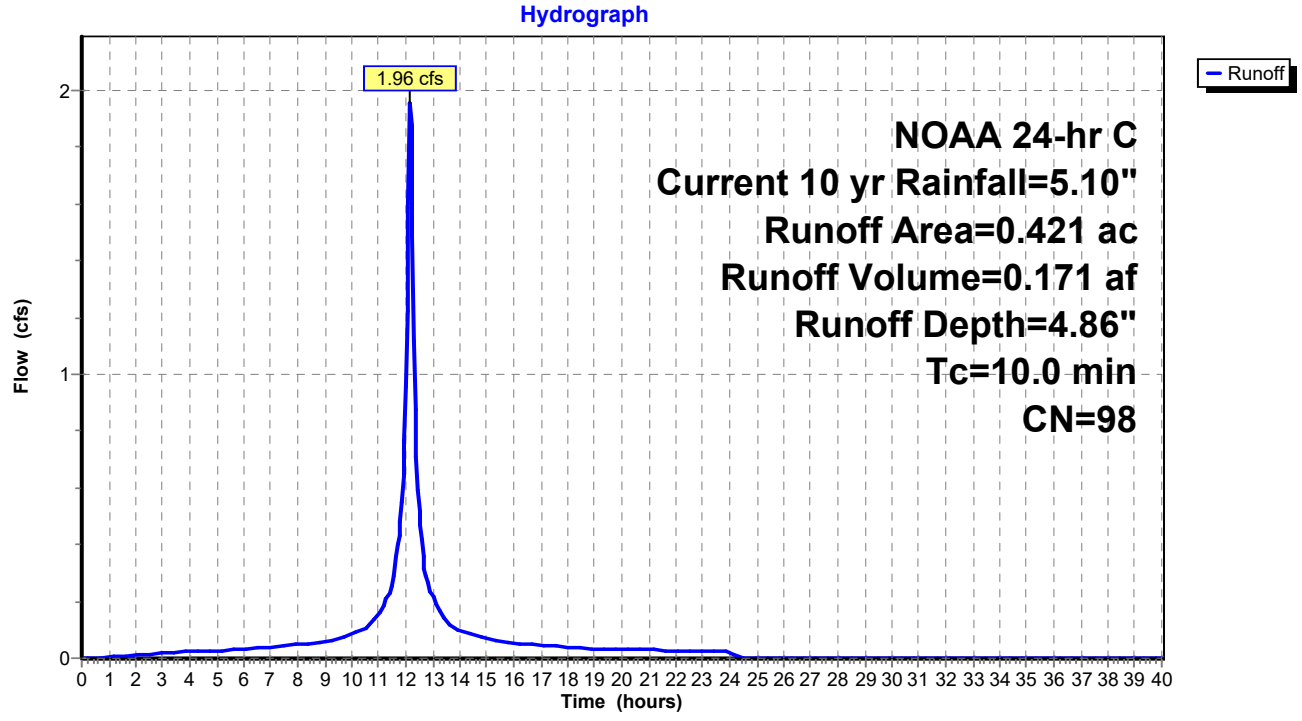
Runoff = 1.96 cfs @ 12.17 hrs, Volume= 0.171 af, Depth= 4.86"
Routed to Pond B-34 : Basin #34

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
*	0.279	98	Roof, HSG C
*	0.142	98	Concrete, HSC C
	0.421	98	Weighted Average
	0.421		100.00% Impervious Area

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

Subcatchment 34l: PDA-34 (impervious)



Summary for Subcatchment 34P: PDA-34 (pervious)

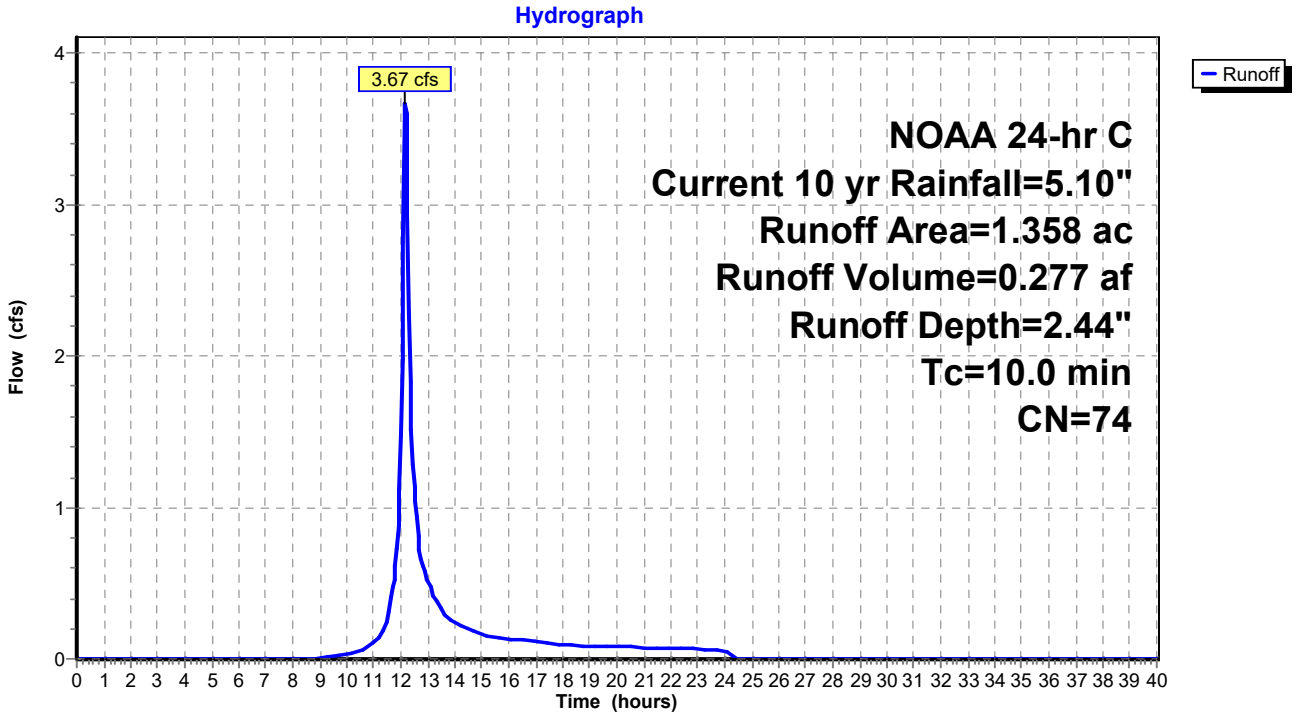
Runoff = 3.67 cfs @ 12.18 hrs, Volume= 0.277 af, Depth= 2.44"
Routed to Pond B-34 : Basin #34

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
1.358	74	>75% Grass cover, Good, HSG C
1.358		100.00% Pervious Area

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

Subcatchment 34P: PDA-34 (pervious)



Summary for Subcatchment 35l: PDA-35 (impervious)

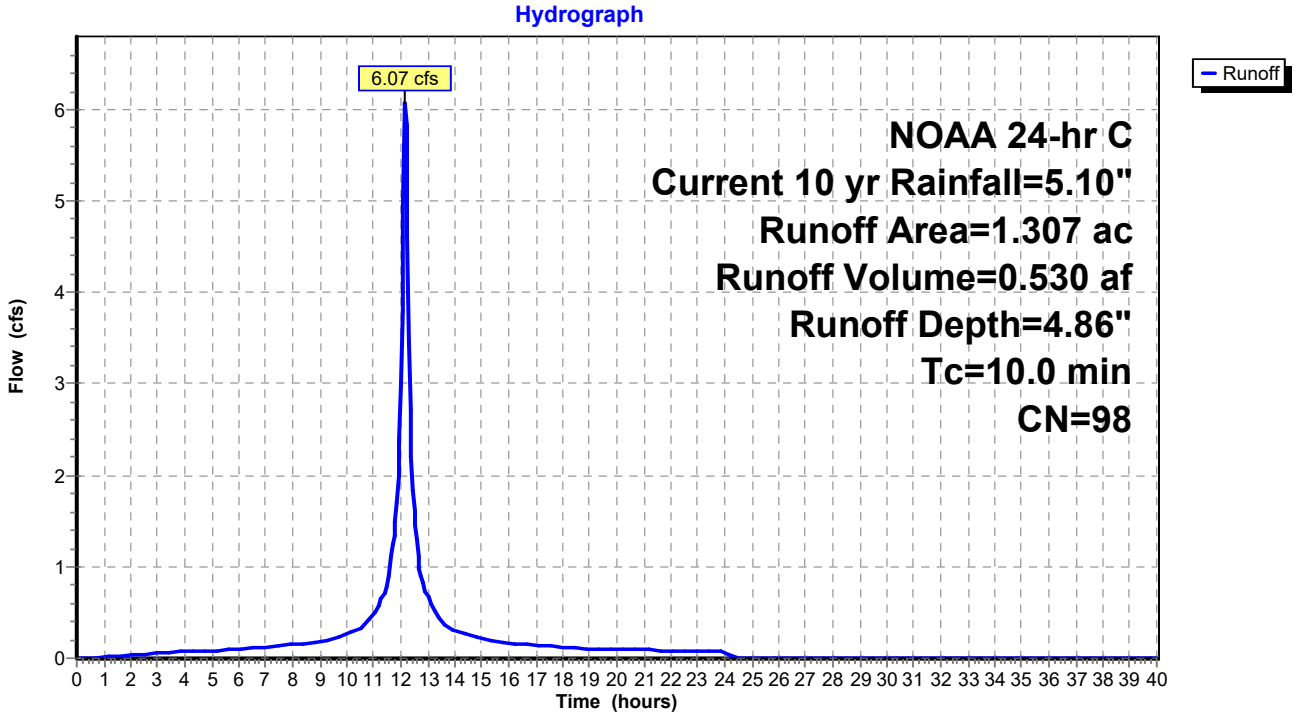
Runoff = 6.07 cfs @ 12.17 hrs, Volume= 0.530 af, Depth= 4.86"
Routed to Pond B-35 : Basin #35

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
*	1.003	98	Pavement, HSG C
*	0.139	98	Roof, HSG C
*	0.165	98	Concrete, HSC C
	1.307	98	Weighted Average
	1.307		100.00% Impervious Area

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

Subcatchment 35l: PDA-35 (impervious)



Summary for Subcatchment 35P: PDA-35 (pervious)

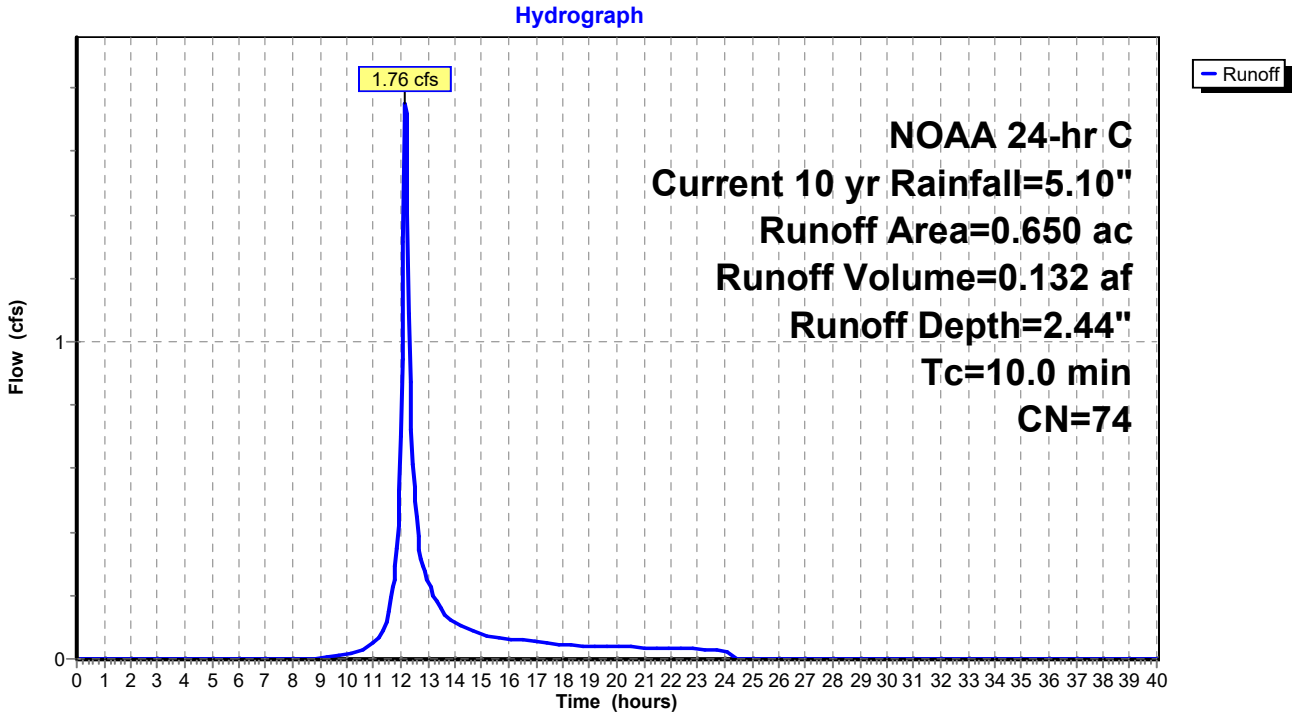
Runoff = 1.76 cfs @ 12.18 hrs, Volume= 0.132 af, Depth= 2.44"
Routed to Pond B-35 : Basin #35

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
0.650	74	>75% Grass cover, Good, HSG C
0.650		100.00% Pervious Area

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

Subcatchment 35P: PDA-35 (pervious)



Summary for Subcatchment 36AI: PDA-36A (impervious)

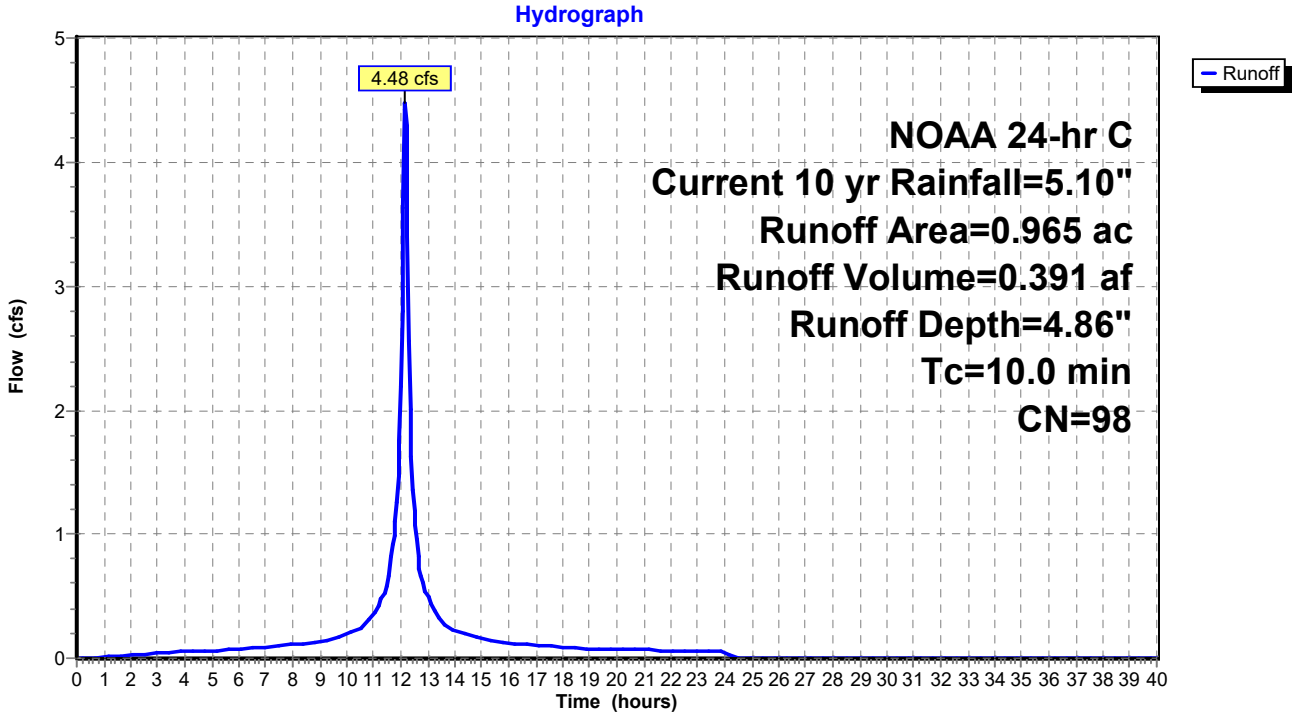
Runoff = 4.48 cfs @ 12.17 hrs, Volume= 0.391 af, Depth= 4.86"
Routed to Pond B-36A : Basin #36A

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
*	0.415	98	Pavement, HSG C
*	0.418	98	Roof, HSG C
*	0.132	98	Concrete, HSC C
	0.965	98	Weighted Average
	0.965		100.00% Impervious Area

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

Subcatchment 36AI: PDA-36A (impervious)



Summary for Subcatchment 36AP: PDA-36A (pervious)

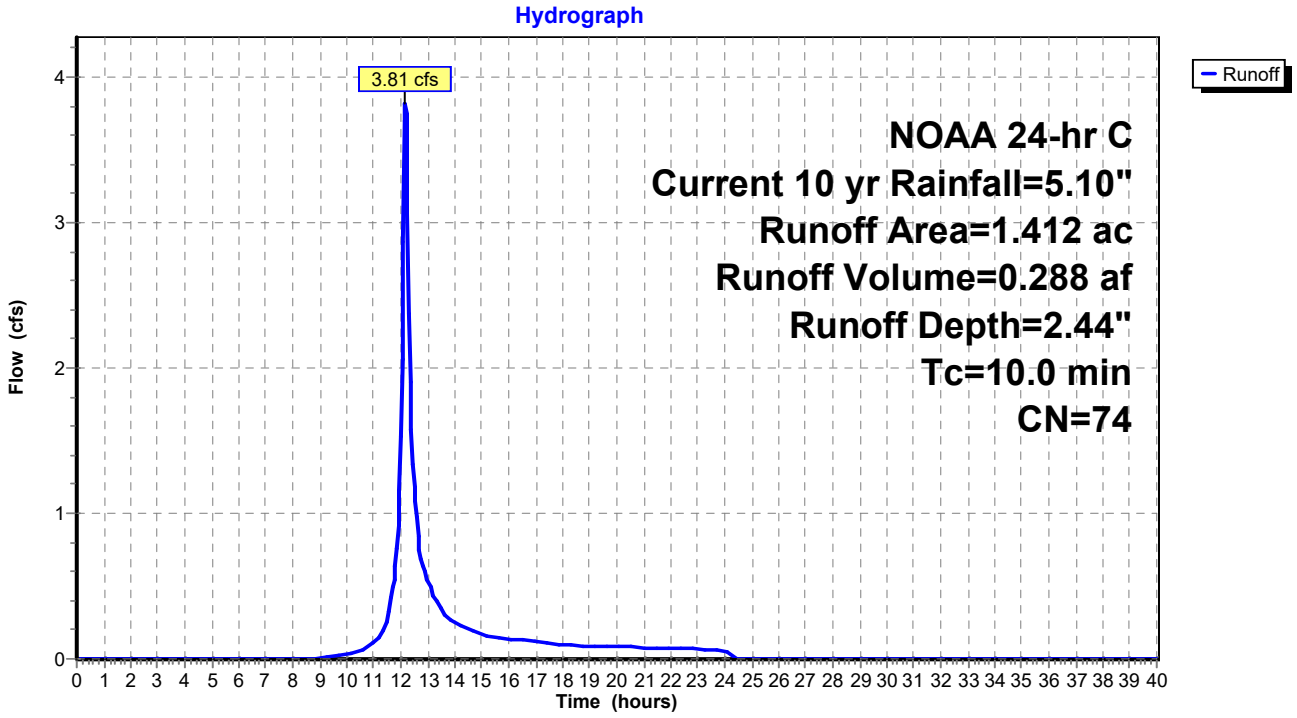
Runoff = 3.81 cfs @ 12.18 hrs, Volume= 0.288 af, Depth= 2.44"
Routed to Pond B-36A : Basin #36A

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
1.412	74	>75% Grass cover, Good, HSG C
1.412		100.00% Pervious Area

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

Subcatchment 36AP: PDA-36A (pervious)



Summary for Subcatchment 36BI: PDA-36B (impervious)

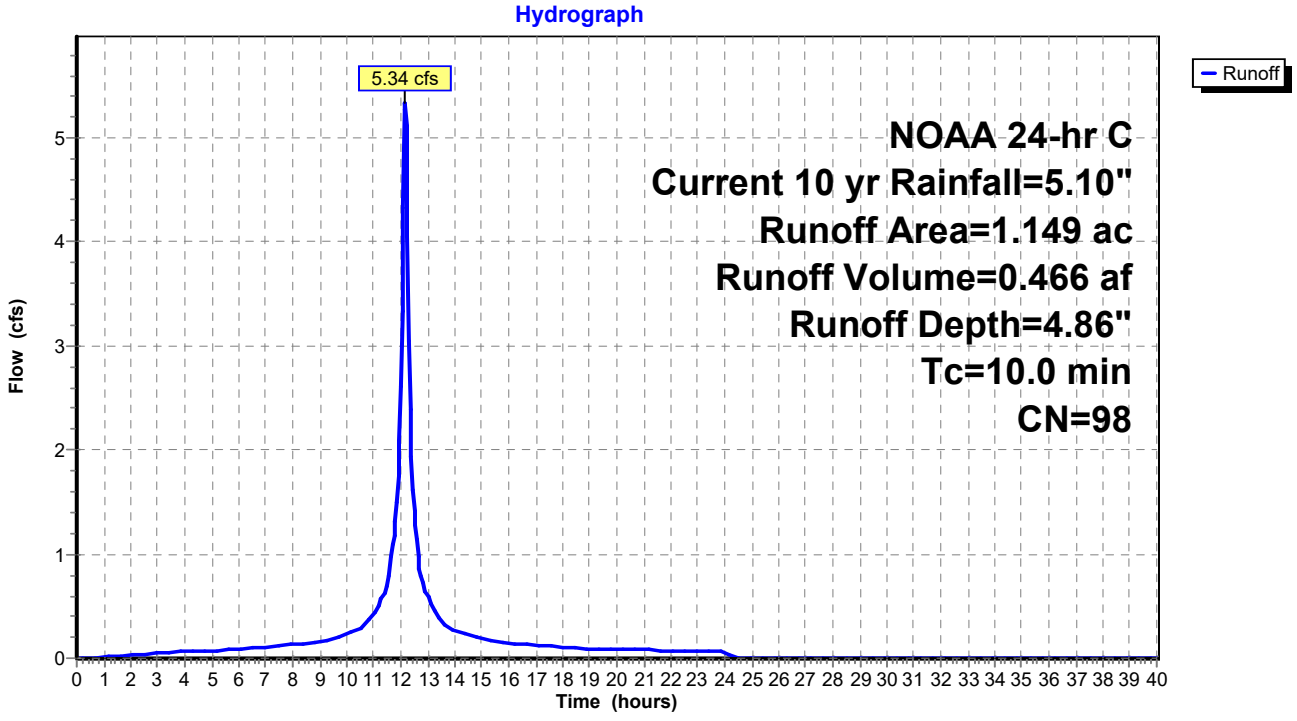
Runoff = 5.34 cfs @ 12.17 hrs, Volume= 0.466 af, Depth= 4.86"
Routed to Pond B-36B : Basin #36B

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
*	0.501	98	Pavement, HSG C
*	0.579	98	Roof, HSG C
*	0.069	98	Concrete, HSC C
	1.149	98	Weighted Average
	1.149		100.00% Impervious Area

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

Subcatchment 36BI: PDA-36B (impervious)



Summary for Subcatchment 36BP: PDA-36B (pervious)

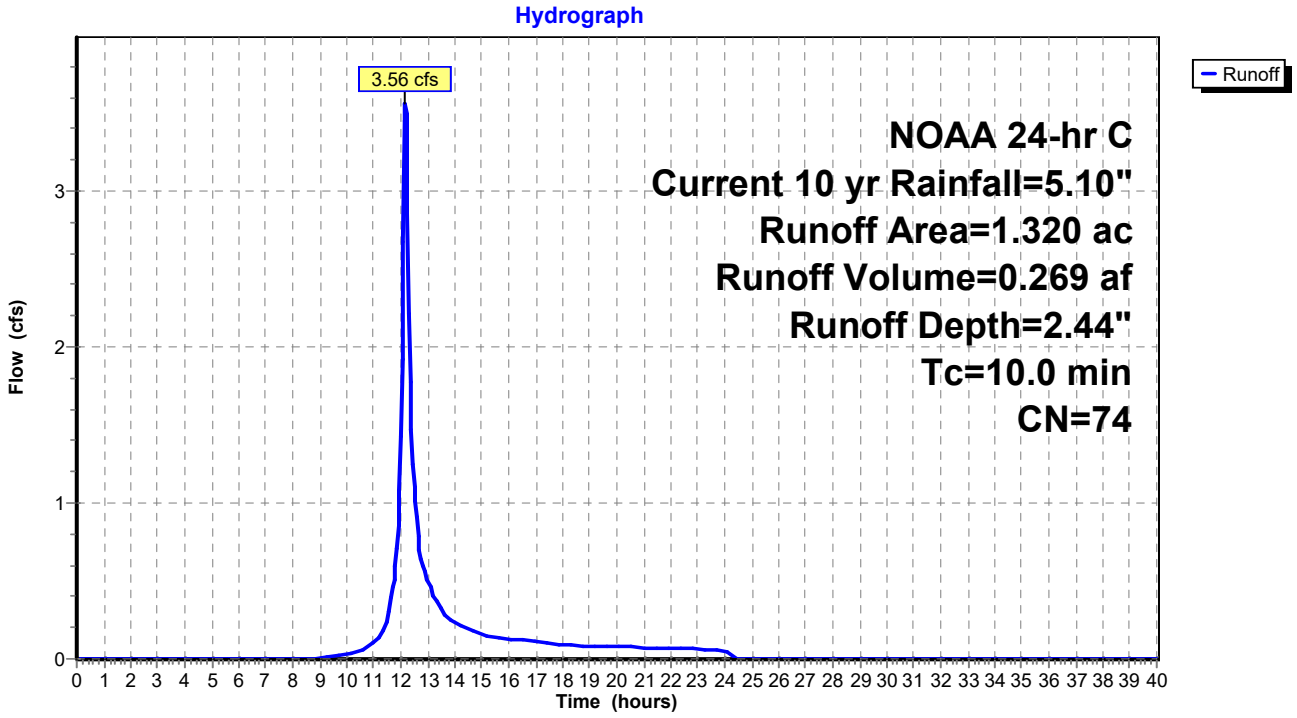
Runoff = 3.56 cfs @ 12.18 hrs, Volume= 0.269 af, Depth= 2.44"
Routed to Pond B-36B : Basin #36B

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
1.320	74	>75% Grass cover, Good, HSG C
1.320		100.00% Pervious Area

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

Subcatchment 36BP: PDA-36B (pervious)



Summary for Subcatchment 37AI: PDA-37B (impervious)

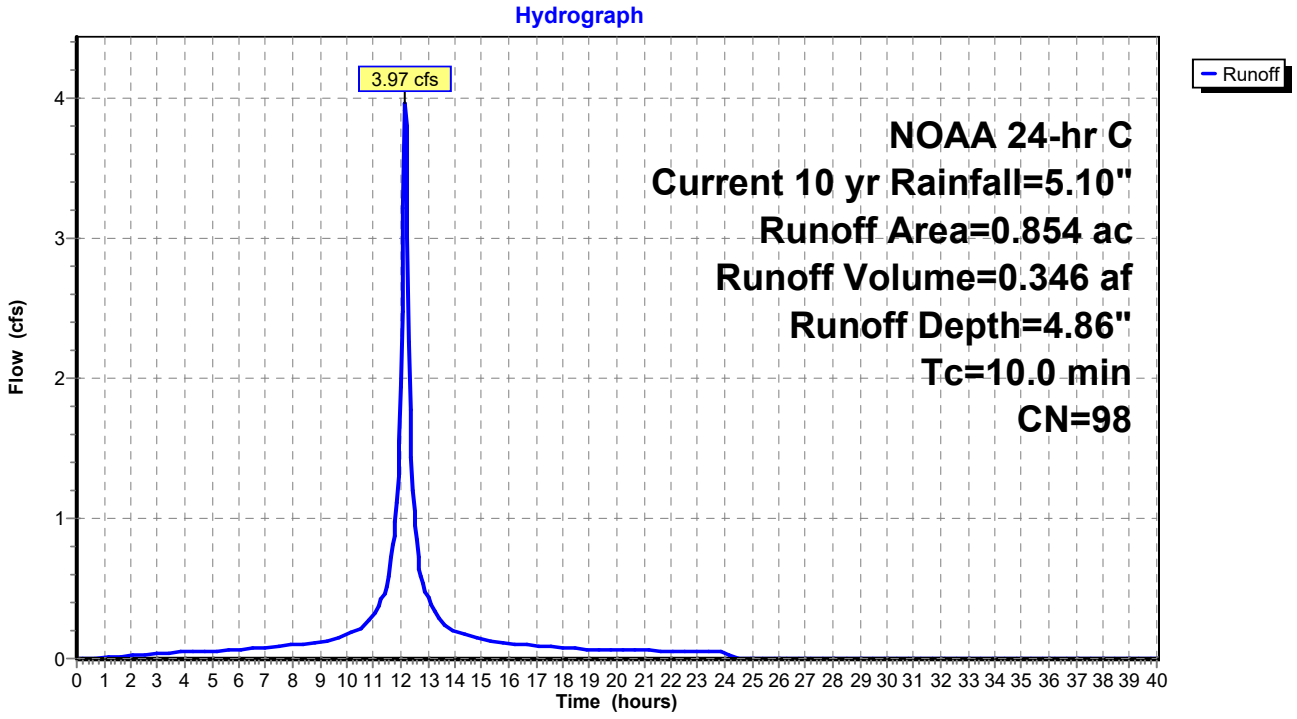
Runoff = 3.97 cfs @ 12.17 hrs, Volume= 0.346 af, Depth= 4.86"
Routed to Pond B-37A : Basin #37A

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
*	0.673	98	Pavement, HSG C
*	0.181	98	Concrete, HSC C
	0.854	98	Weighted Average
	0.854		100.00% Impervious Area

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

Subcatchment 37AI: PDA-37B (impervious)



Summary for Subcatchment 37AP: PDA-37A (pervious)

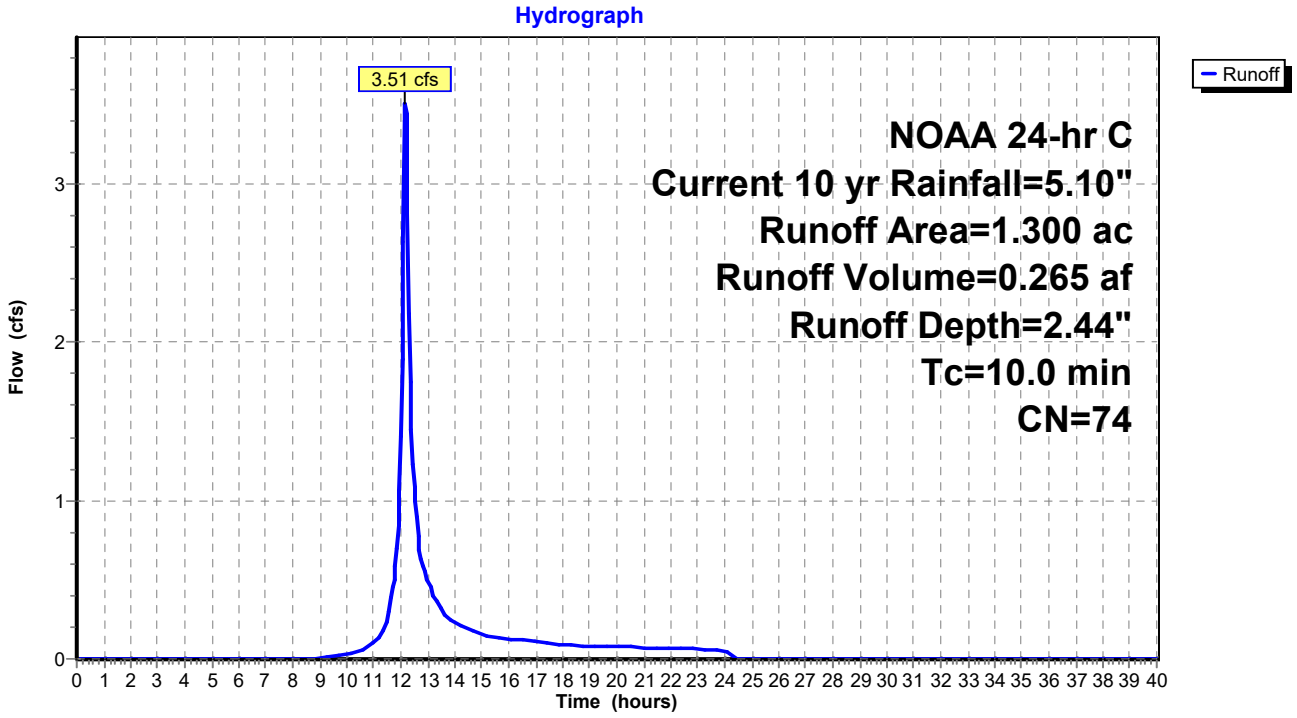
Runoff = 3.51 cfs @ 12.18 hrs, Volume= 0.265 af, Depth= 2.44"
Routed to Pond B-37A : Basin #37A

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
1.300	74	>75% Grass cover, Good, HSG C
1.300		100.00% Pervious Area

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

Subcatchment 37AP: PDA-37A (pervious)



Summary for Subcatchment 37BI: PDA-37B (impervious)

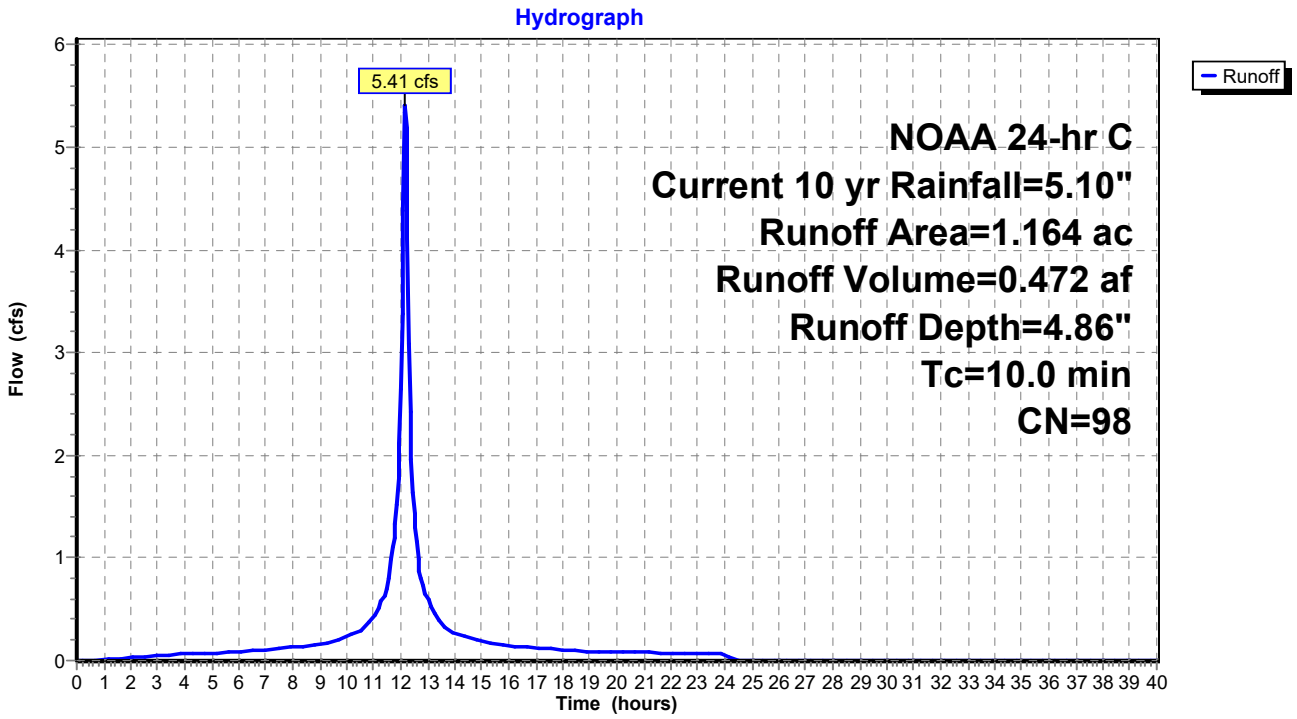
Runoff = 5.41 cfs @ 12.17 hrs, Volume= 0.472 af, Depth= 4.86"
Routed to Pond B-37B : Basin #37B

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
*	0.806	98	Pavement, HSG C
*	0.079	98	Concrete, HSC C
	0.279	98	Unconnected roofs, HSG C
	1.164	98	Weighted Average
	1.164		100.00% Impervious Area
	0.279		23.97% Unconnected

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

Subcatchment 37BI: PDA-37B (impervious)



Summary for Subcatchment 38BP: PDA-37B (pervious)

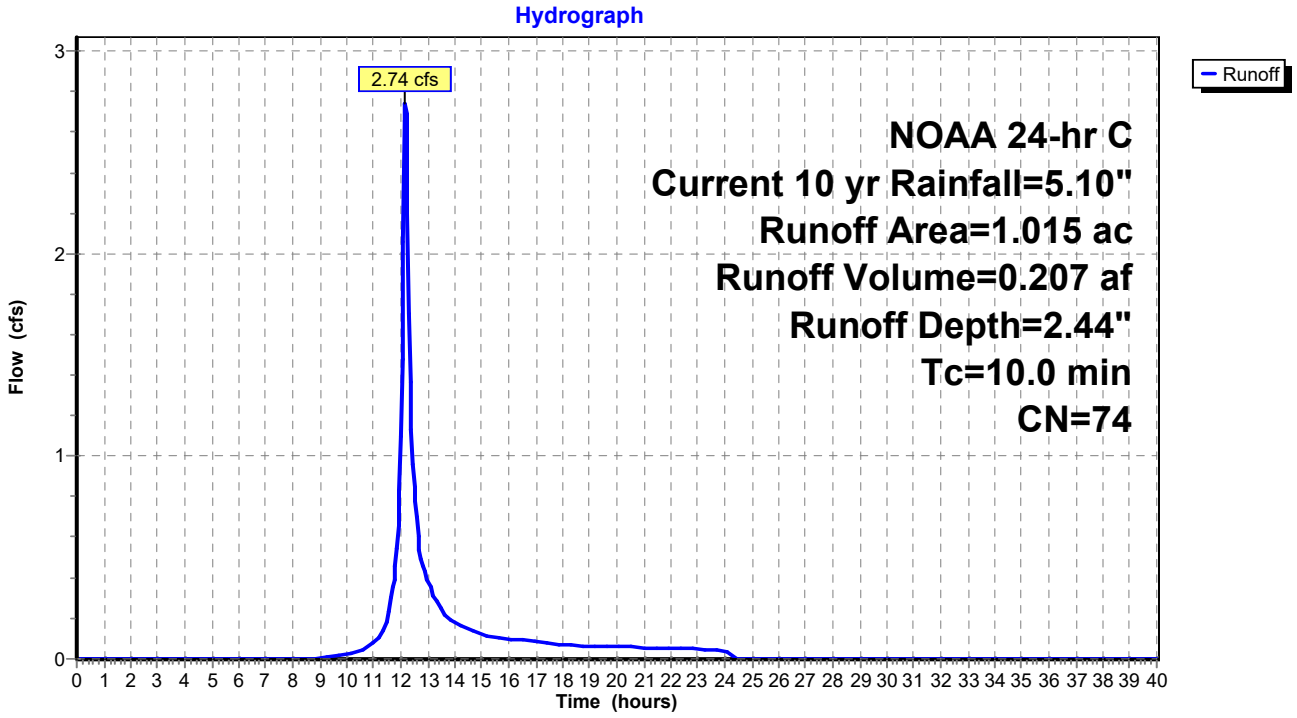
Runoff = 2.74 cfs @ 12.18 hrs, Volume= 0.207 af, Depth= 2.44"
Routed to Pond B-37B : Basin #37B

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
1.015	74	>75% Grass cover, Good, HSG C
1.015		100.00% Pervious Area

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

Subcatchment 38BP: PDA-37B (pervious)



Summary for Subcatchment 38I: PDA-38 (impervious)

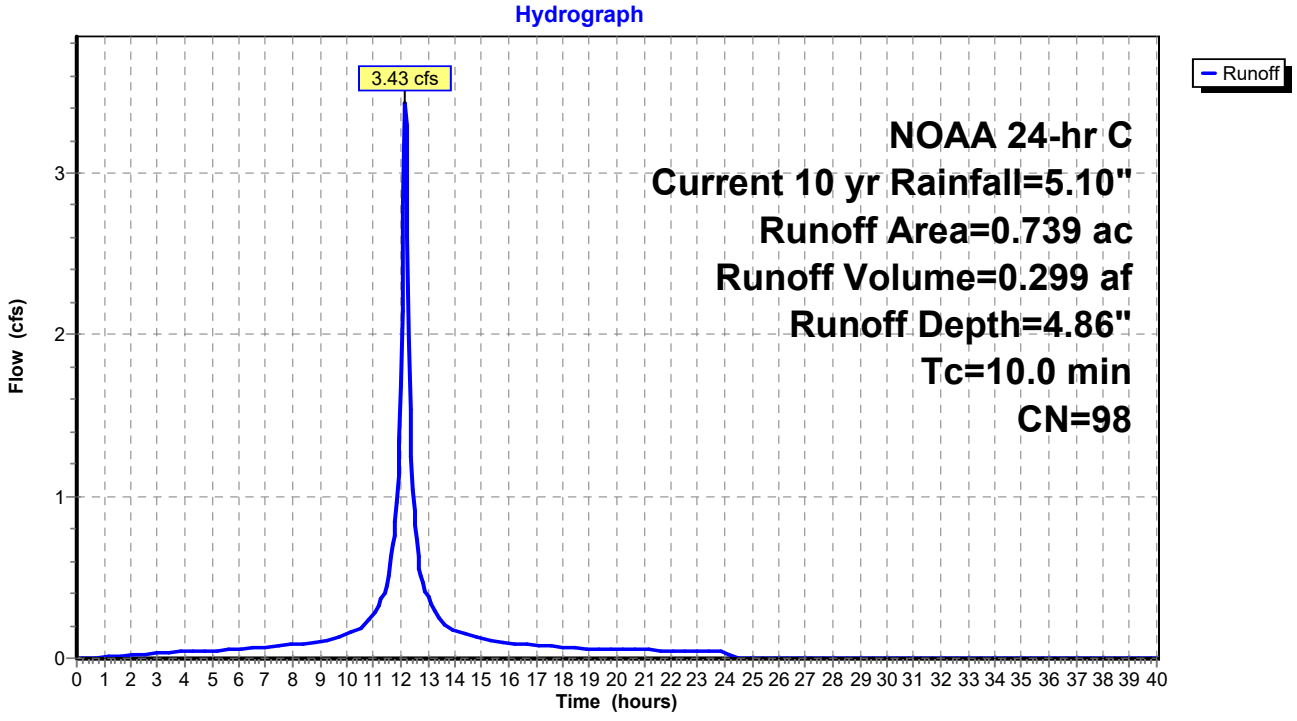
Runoff = 3.43 cfs @ 12.17 hrs, Volume= 0.299 af, Depth= 4.86"
Routed to Pond B-38 : Basin #38

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
*	0.568	98	Roof, HSG C
*	0.171	98	Concrete, HSC C
	0.000	98	Paved roads w/curbs & sewers, HSG C
	0.739	98	Weighted Average
	0.739		100.00% Impervious Area

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

Subcatchment 38I: PDA-38 (impervious)



Summary for Subcatchment 38P: PDA-38 (pervious)

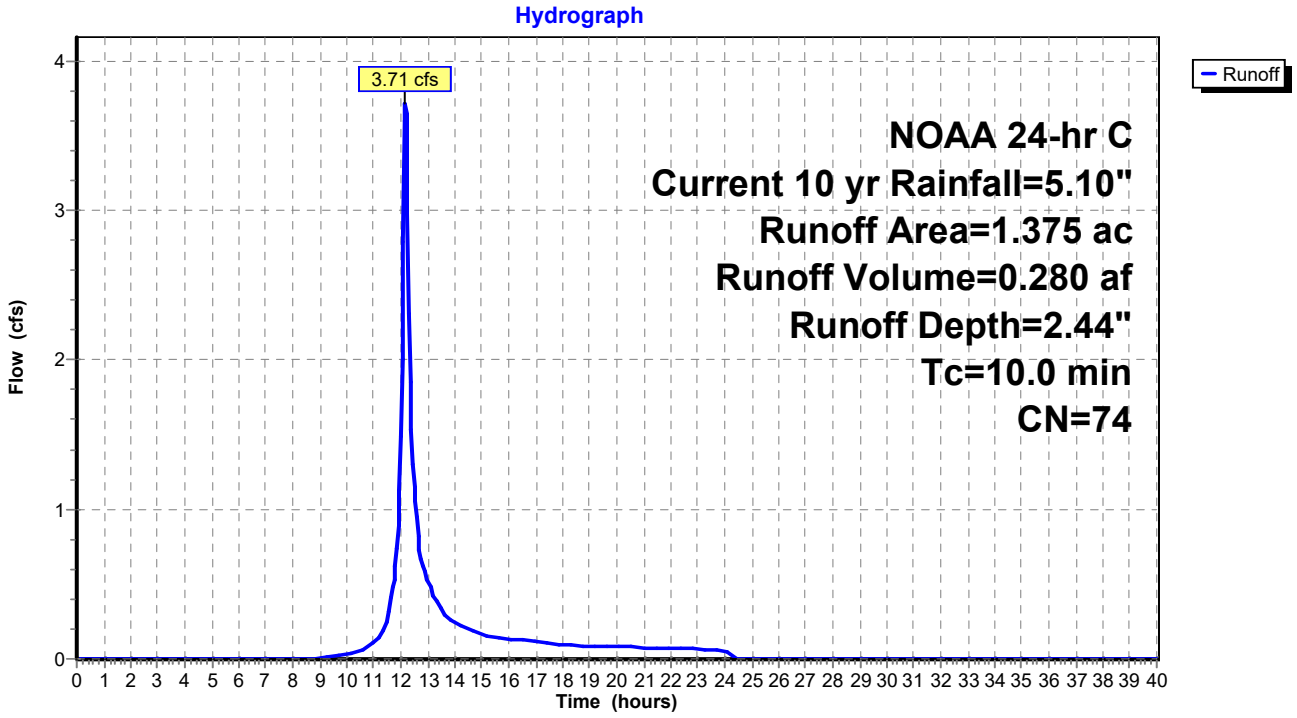
Runoff = 3.71 cfs @ 12.18 hrs, Volume= 0.280 af, Depth= 2.44"
Routed to Pond B-38 : Basin #38

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
1.375	74	>75% Grass cover, Good, HSG C
1.375		100.00% Pervious Area

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

Subcatchment 38P: PDA-38 (pervious)



Summary for Subcatchment 39l: PDA-39 (impervious)

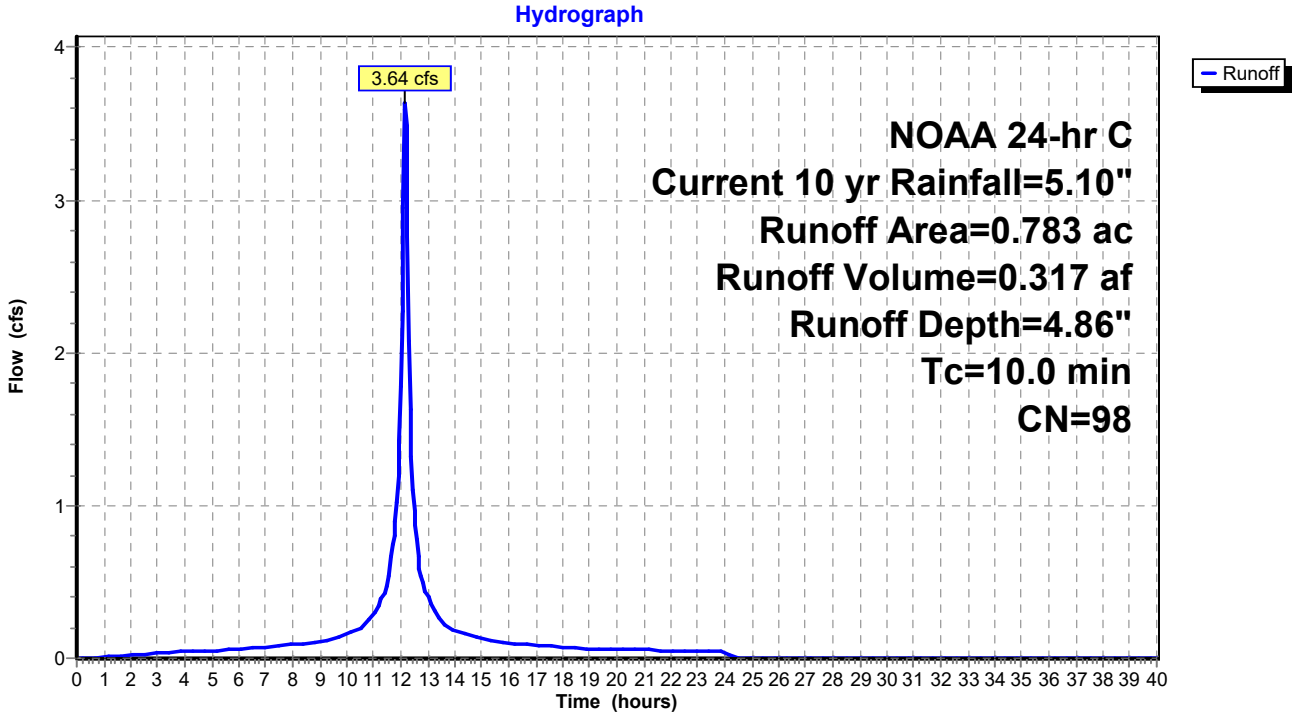
Runoff = 3.64 cfs @ 12.17 hrs, Volume= 0.317 af, Depth= 4.86"
Routed to Pond B-39 : Basin #39

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
*	0.568	98	Roof, HSG C
*	0.164	98	Concrete, HSC C
	0.051	98	Paved roads w/curbs & sewers, HSG C
	0.783	98	Weighted Average
	0.783		100.00% Impervious Area

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

Subcatchment 39l: PDA-39 (impervious)



Summary for Subcatchment 39P: PDA-39 (pervious)

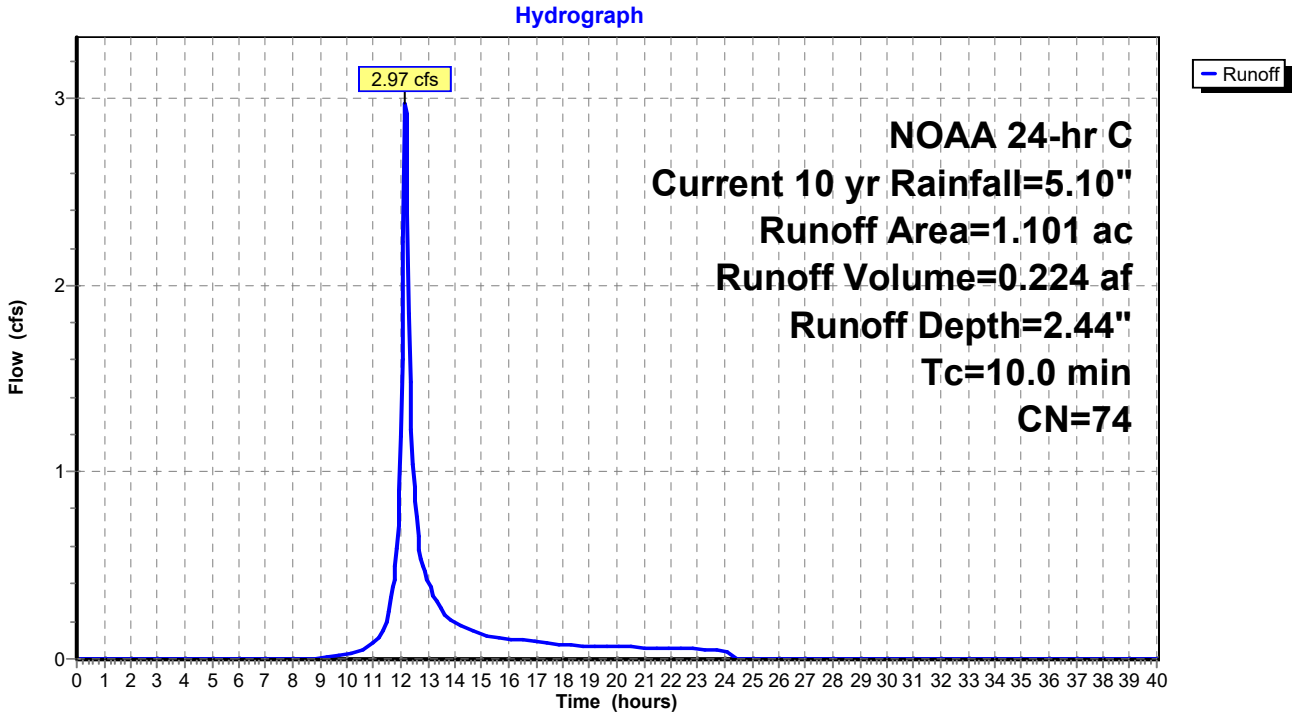
Runoff = 2.97 cfs @ 12.18 hrs, Volume= 0.224 af, Depth= 2.44"
Routed to Pond B-39 : Basin #39

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
1.101	74	>75% Grass cover, Good, HSG C
1.101		100.00% Pervious Area

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

Subcatchment 39P: PDA-39 (pervious)



Summary for Subcatchment 40I: PDA-40 (impervious)

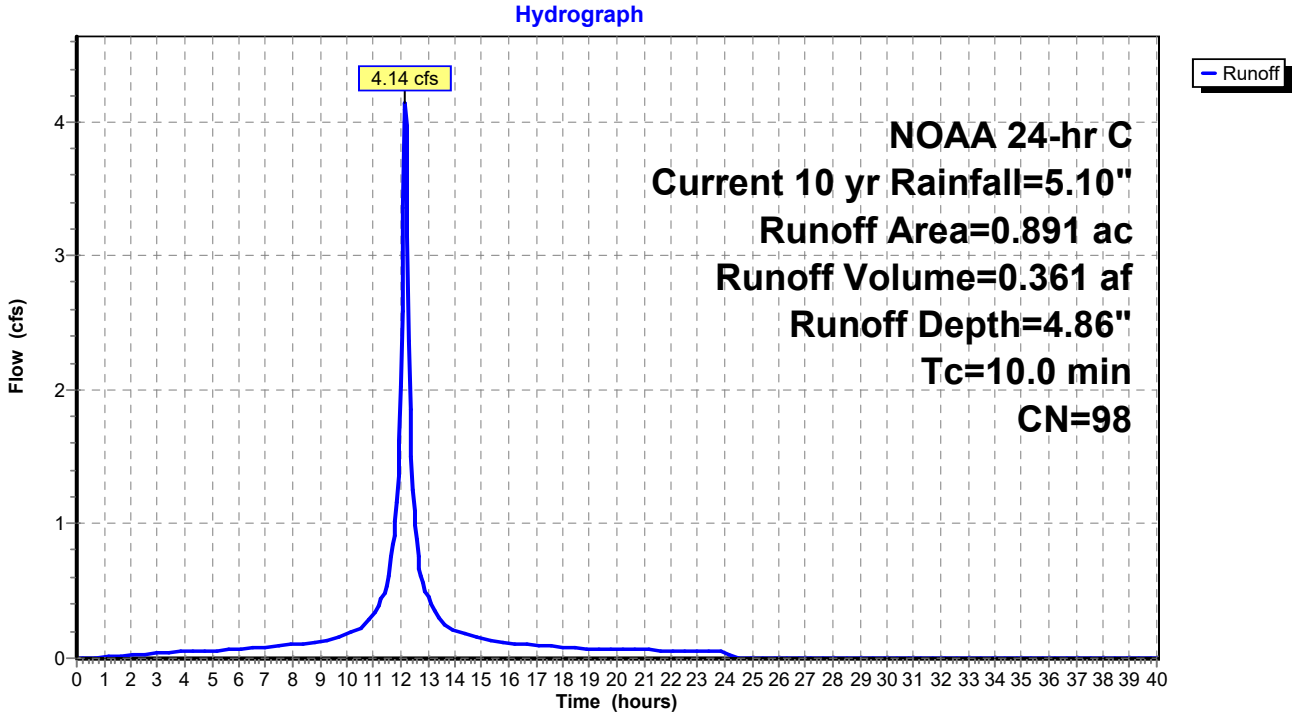
Runoff = 4.14 cfs @ 12.17 hrs, Volume= 0.361 af, Depth= 4.86"
Routed to Pond B-40 : Basin #40

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
*	0.568	98	Roof, HSG C
*	0.179	98	Concrete, HSC C
	0.144	98	Paved roads w/curbs & sewers, HSG C
	0.891	98	Weighted Average
	0.891		100.00% Impervious Area

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

Subcatchment 40I: PDA-40 (impervious)



Summary for Subcatchment 40P: PDA-40 (pervious)

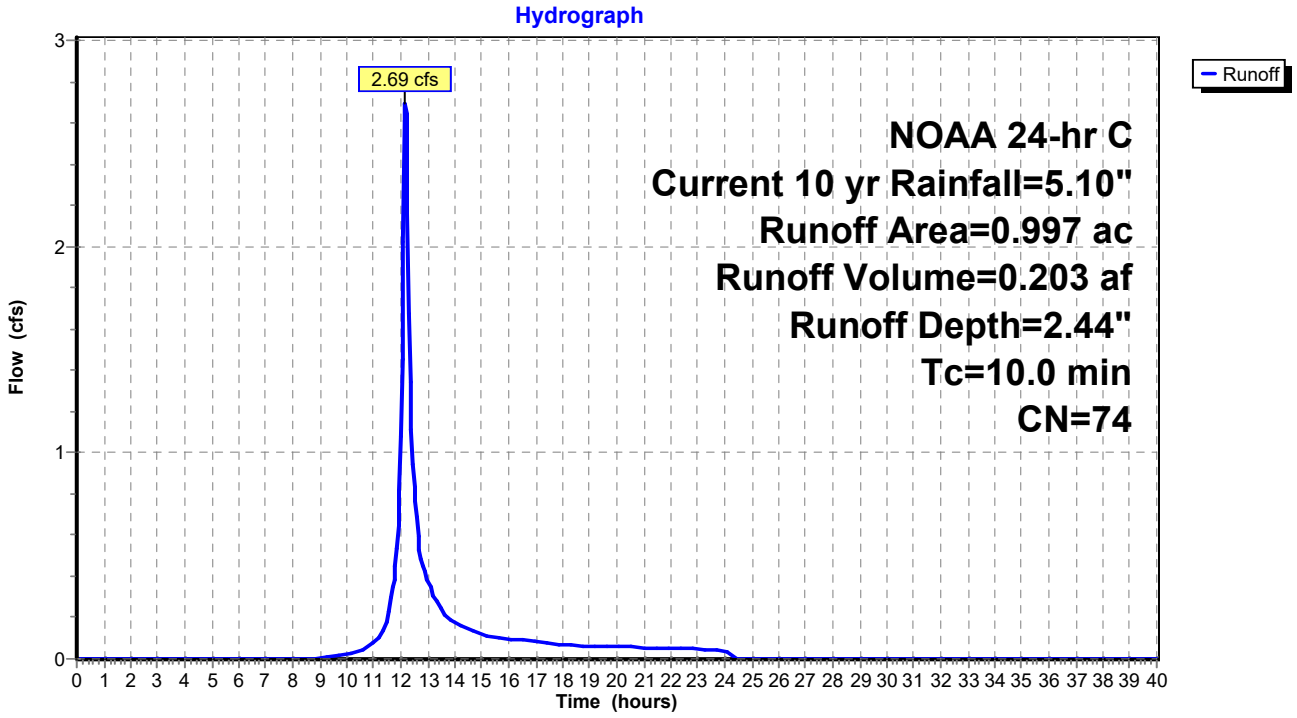
Runoff = 2.69 cfs @ 12.18 hrs, Volume= 0.203 af, Depth= 2.44"
Routed to Pond B-40 : Basin #40

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
0.997	74	>75% Grass cover, Good, HSG C
0.997		100.00% Pervious Area

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

Subcatchment 40P: PDA-40 (pervious)



Summary for Subcatchment UPDA-3: PDA-3 (undetained)

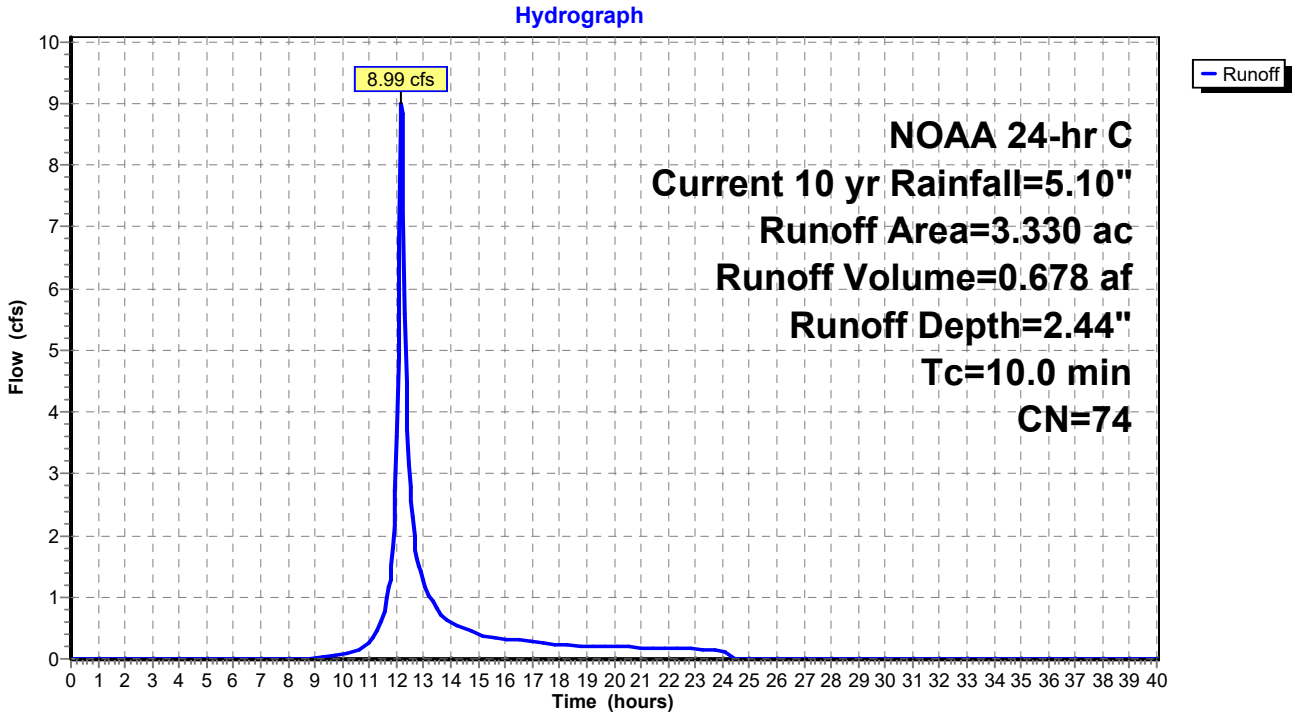
Runoff = 8.99 cfs @ 12.18 hrs, Volume= 0.678 af, Depth= 2.44"
Routed to Link PDA-3 : Proposed Drainage Area #3

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 Current 10 yr Rainfall=5.10"

Area (ac)	CN	Description
3.330	74	>75% Grass cover, Good, HSG C
3.330		100.00% Pervious Area

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

Subcatchment UPDA-3: PDA-3 (undetained)



Summary for Pond B-29: Basin #29

Inflow Area = 1.077 ac, 34.91% Impervious, Inflow Depth = 3.29" for Current 10 yr event
Inflow = 3.64 cfs @ 12.17 hrs, Volume= 0.295 af
Outflow = 2.31 cfs @ 12.30 hrs, Volume= 0.252 af, Atten= 36%, Lag= 7.3 min
Primary = 2.31 cfs @ 12.30 hrs, Volume= 0.252 af
Routed to Pond B-30 : Basin #30

Routing by Stor-Ind method, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
Peak Elev= 187.31' @ 12.30 hrs Surf.Area= 7,003 sf Storage= 4,502 cf

Plug-Flow detention time= 183.8 min calculated for 0.252 af (85% of inflow)
Center-of-Mass det. time= 117.5 min (913.8 - 796.4)

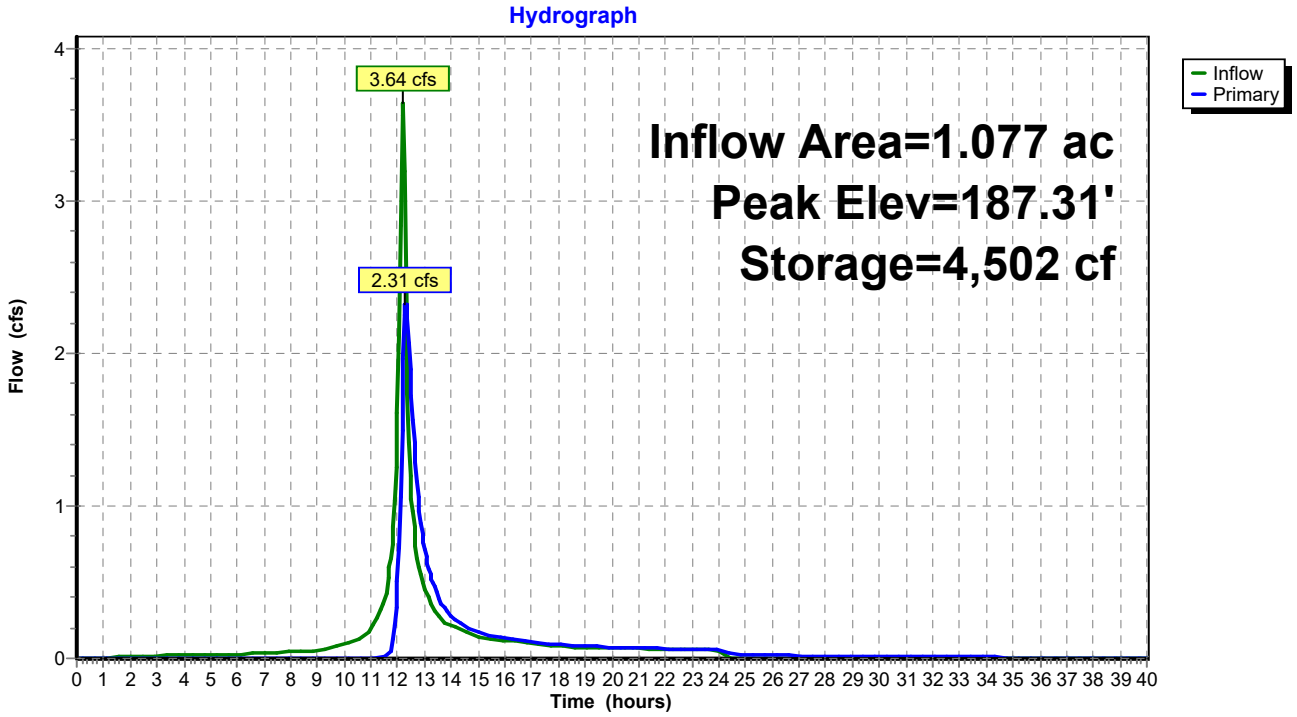
Volume	Invert	Avail.Storage	Storage Description
#1	186.30'	17,435 cf	**Custom Stage Data (Prismatic)** Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
186.30	0	0	0
187.00	6,769	2,369	2,369
188.00	7,526	7,148	9,517
189.00	8,311	7,919	17,435

Device	Routing	Invert	Outlet Devices
#1	Primary	185.65'	**18.0" Round Culvert** L= 177.0' Ke= 0.500 Inlet / Outlet Invert= 185.65' / 182.00' S= 0.0206 '/' Cc= 0.900 n= 0.013, Flow Area= 1.77 sf
#2	Device 1	186.88'	**2.5" Vert. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#3	Device 1	187.00'	**4.0' long Sharp-Crested Rectangular Weir** 2 End Contraction(s)
#4	Primary	188.17'	**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=2.31 cfs @ 12.30 hrs HW=187.31' (Free Discharge)
- **1=Culvert** (Passes 2.31 cfs of 8.11 cfs potential flow)
  - **2=Orifice/Grate** (Orifice Controls 0.09 cfs @ 2.75 fps)
  - **3=Sharp-Crested Rectangular Weir** (Weir Controls 2.21 cfs @ 1.82 fps)
- **4=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)

Pond B-29: Basin #29



Stage-Discharge for Pond B-29: Basin #29

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
186.30	0.00	186.82	0.00	187.34	2.65	187.86	10.14
186.31	0.00	186.83	0.00	187.35	2.76	187.87	10.31
186.32	0.00	186.84	0.00	187.36	2.88	187.88	10.35
186.33	0.00	186.85	0.00	187.37	2.99	187.89	10.39
186.34	0.00	186.86	0.00	187.38	3.11	187.90	10.42
186.35	0.00	186.87	0.00	187.39	3.23	187.91	10.46
186.36	0.00	186.88	0.00	187.40	3.35	187.92	10.49
186.37	0.00	186.89	0.00	187.41	3.47	187.93	10.52
186.38	0.00	186.90	0.00	187.42	3.59	187.94	10.56
186.39	0.00	186.91	0.00	187.43	3.72	187.95	10.59
186.40	0.00	186.92	0.00	187.44	3.84	187.96	10.63
186.41	0.00	186.93	0.00	187.45	3.97	187.97	10.66
186.42	0.00	186.94	0.01	187.46	4.10	187.98	10.70
186.43	0.00	186.95	0.01	187.47	4.23	187.99	10.73
186.44	0.00	186.96	0.01	187.48	4.36	188.00	10.76
186.45	0.00	186.97	0.01	187.49	4.49	188.01	10.80
186.46	0.00	186.98	0.02	187.50	4.63	188.02	10.83
186.47	0.00	186.99	0.02	187.51	4.76	188.03	10.86
186.48	0.00	187.00	0.02	187.52	4.90	188.04	10.90
186.49	0.00	187.01	0.04	187.53	5.03	188.05	10.93
186.50	0.00	187.02	0.07	187.54	5.17	188.06	10.96
186.51	0.00	187.03	0.10	187.55	5.31	188.07	11.00
186.52	0.00	187.04	0.14	187.56	5.45	188.08	11.03
186.53	0.00	187.05	0.19	187.57	5.59	188.09	11.06
186.54	0.00	187.06	0.24	187.58	5.74	188.10	11.09
186.55	0.00	187.07	0.29	187.59	5.88	188.11	11.13
186.56	0.00	187.08	0.35	187.60	6.03	188.12	11.16
186.57	0.00	187.09	0.40	187.61	6.17	188.13	11.19
186.58	0.00	187.10	0.47	187.62	6.32	188.14	11.22
186.59	0.00	187.11	0.53	187.63	6.47	188.15	11.26
186.60	0.00	187.12	0.60	187.64	6.62	188.16	11.29
186.61	0.00	187.13	0.67	187.65	6.77	188.17	11.32
186.62	0.00	187.14	0.75	187.66	6.92	188.18	11.47
186.63	0.00	187.15	0.82	187.67	7.07	188.19	11.72
186.64	0.00	187.16	0.90	187.68	7.22	188.20	12.02
186.65	0.00	187.17	0.98	187.69	7.38	188.21	12.39
186.66	0.00	187.18	1.06	187.70	7.53	188.22	12.79
186.67	0.00	187.19	1.15	187.71	7.69	188.23	13.23
186.68	0.00	187.20	1.23	187.72	7.84	188.24	13.72
186.69	0.00	187.21	1.32	187.73	8.00	188.25	14.23
186.70	0.00	187.22	1.41	187.74	8.16	188.26	14.78
186.71	0.00	187.23	1.51	187.75	8.32	188.27	15.35
186.72	0.00	187.24	1.60	187.76	8.48	188.28	15.96
186.73	0.00	187.25	1.70	187.77	8.64	188.29	16.59
186.74	0.00	187.26	1.80	187.78	8.81	188.30	17.25
186.75	0.00	187.27	1.90	187.79	8.97	188.31	17.93
186.76	0.00	187.28	2.00	187.80	9.13	188.32	18.64
186.77	0.00	187.29	2.10	187.81	9.30	188.33	19.37
186.78	0.00	187.30	2.21	187.82	9.46	188.34	20.12
186.79	0.00	187.31	2.32	187.83	9.63	188.35	20.89
186.80	0.00	187.32	2.42	187.84	9.80	188.36	21.69
186.81	0.00	187.33	2.54	187.85	9.97	188.37	22.51

Stage-Discharge for Pond B-29: Basin #29 (continued)

Elevation (feet)	Primary (cfs)
188.38	23.38
188.39	24.29
188.40	25.22
188.41	26.17
188.42	27.15
188.43	28.15
188.44	29.18
188.45	30.23
188.46	31.31
188.47	32.41
188.48	33.54
188.49	34.69
188.50	35.86
188.51	37.06
188.52	38.29
188.53	39.53
188.54	40.80
188.55	42.10
188.56	43.42
188.57	44.76
188.58	46.16
188.59	47.58
188.60	49.03
188.61	50.50
188.62	52.00
188.63	53.52
188.64	55.07
188.65	56.65
188.66	58.25
188.67	59.88
188.68	61.54
188.69	63.22
188.70	64.93
188.71	66.67
188.72	68.43
188.73	70.22
188.74	72.04
188.75	73.88
188.76	75.75
188.77	77.65
188.78	79.30
188.79	80.97
188.80	82.65
188.81	84.35
188.82	86.06
188.83	87.78
188.84	89.51
188.85	91.26
188.86	93.02
188.87	94.79
188.88	96.58
188.89	98.37
188.90	100.19
188.91	102.01
188.92	103.84
188.93	105.69
188.94	107.55
188.95	109.42
188.96	111.31
188.97	113.21
188.98	115.15
188.99	117.11
189.00	**119.08**

Stage-Area-Storage for Pond B-29: Basin #29

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
186.30	0	0
186.31	97	0
186.32	193	2
186.33	290	4
186.34	387	8
186.35	484	12
186.36	580	17
186.37	677	24
186.38	774	31
186.39	870	39
186.40	967	48
186.41	1,064	59
186.42	1,160	70
186.43	1,257	82
186.44	1,354	95
186.45	1,451	109
186.46	1,547	124
186.47	1,644	140
186.48	1,741	157
186.49	1,837	175
186.50	1,934	193
186.51	2,031	213
186.52	2,127	234
186.53	2,224	256
186.54	2,321	278
186.55	2,418	302
186.56	2,514	327
186.57	2,611	352
186.58	2,708	379
186.59	2,804	407
186.60	2,901	435
186.61	2,998	465
186.62	3,094	495
186.63	3,191	527
186.64	3,288	559
186.65	3,385	592
186.66	3,481	627
186.67	3,578	662
186.68	3,675	698
186.69	3,771	735
186.70	3,868	774
186.71	3,965	813
186.72	4,061	853
186.73	4,158	894
186.74	4,255	936
186.75	4,351	979
186.76	4,448	1,023
186.77	4,545	1,068
186.78	4,642	1,114
186.79	4,738	1,161
186.80	4,835	1,209
186.81	4,932	1,258
186.82	5,028	1,307
186.83	5,125	1,358
186.84	5,222	1,410
186.85	5,319	1,463
186.86	5,415	1,516
186.87	5,512	1,571
186.88	5,609	1,626
186.89	5,705	1,683
186.90	5,802	1,741
186.91	5,899	1,799
186.92	5,995	1,859
186.93	6,092	1,919
186.94	6,189	1,980
186.95	6,286	2,043
186.96	6,382	2,106
186.97	6,479	2,170
186.98	6,576	2,236
186.99	6,672	2,302
187.00	6,769	2,369
187.01	6,777	2,437
187.02	6,784	2,505
187.03	6,792	2,573
187.04	6,799	2,641
187.05	6,807	2,709
187.06	6,814	2,777
187.07	6,822	2,845
187.08	6,830	2,913
187.09	6,837	2,981
187.10	6,845	3,050
187.11	6,852	3,118
187.12	6,860	3,187
187.13	6,867	3,256
187.14	6,875	3,324
187.15	6,883	3,393
187.16	6,890	3,462
187.17	6,898	3,531
187.18	6,905	3,600
187.19	6,913	3,669
187.20	6,920	3,738
187.21	6,928	3,807
187.22	6,936	3,877
187.23	6,943	3,946
187.24	6,951	4,016
187.25	6,958	4,085
187.26	6,966	4,155
187.27	6,973	4,224
187.28	6,981	4,294
187.29	6,989	4,364
187.30	6,996	4,434
187.31	7,004	4,504
187.32	7,011	4,574
187.33	7,019	4,644

Stage-Area-Storage for Pond B-29: Basin #29 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
187.34	7,026	4,714	187.86	7,420	8,470
187.35	7,034	4,785	187.87	7,428	8,545
187.36	7,042	4,855	187.88	7,435	8,619
187.37	7,049	4,925	187.89	7,443	8,693
187.38	7,057	4,996	187.90	7,450	8,768
187.39	7,064	5,067	187.91	7,458	8,842
187.40	7,072	5,137	187.92	7,465	8,917
187.41	7,079	5,208	187.93	7,473	8,992
187.42	7,087	5,279	187.94	7,481	9,066
187.43	7,095	5,350	187.95	7,488	9,141
187.44	7,102	5,421	187.96	7,496	9,216
187.45	7,110	5,492	187.97	7,503	9,291
187.46	7,117	5,563	187.98	7,511	9,366
187.47	7,125	5,634	187.99	7,518	9,441
187.48	7,132	5,705	188.00	7,526	9,517
187.49	7,140	5,777	188.01	7,534	9,592
187.50	7,148	5,848	188.02	7,542	9,667
187.51	7,155	5,920	188.03	7,550	9,743
187.52	7,163	5,991	188.04	7,557	9,818
187.53	7,170	6,063	188.05	7,565	9,894
187.54	7,178	6,135	188.06	7,573	9,970
187.55	7,185	6,207	188.07	7,581	10,045
187.56	7,193	6,278	188.08	7,589	10,121
187.57	7,200	6,350	188.09	7,597	10,197
187.58	7,208	6,422	188.10	7,605	10,273
187.59	7,216	6,495	188.11	7,612	10,349
187.60	7,223	6,567	188.12	7,620	10,425
187.61	7,231	6,639	188.13	7,628	10,502
187.62	7,238	6,711	188.14	7,636	10,578
187.63	7,246	6,784	188.15	7,644	10,654
187.64	7,253	6,856	188.16	7,652	10,731
187.65	7,261	6,929	188.17	7,659	10,807
187.66	7,269	7,002	188.18	7,667	10,884
187.67	7,276	7,074	188.19	7,675	10,961
187.68	7,284	7,147	188.20	7,683	11,038
187.69	7,291	7,220	188.21	7,691	11,114
187.70	7,299	7,293	188.22	7,699	11,191
187.71	7,306	7,366	188.23	7,707	11,268
187.72	7,314	7,439	188.24	7,714	11,345
187.73	7,322	7,512	188.25	7,722	11,423
187.74	7,329	7,585	188.26	7,730	11,500
187.75	7,337	7,659	188.27	7,738	11,577
187.76	7,344	7,732	188.28	7,746	11,655
187.77	7,352	7,806	188.29	7,754	11,732
187.78	7,359	7,879	188.30	7,762	11,810
187.79	7,367	7,953	188.31	7,769	11,887
187.80	7,375	8,027	188.32	7,777	11,965
187.81	7,382	8,100	188.33	7,785	12,043
187.82	7,390	8,174	188.34	7,793	12,121
187.83	7,397	8,248	188.35	7,801	12,199
187.84	7,405	8,322	188.36	7,809	12,277
187.85	7,412	8,396	188.37	7,816	12,355

Stage-Area-Storage for Pond B-29: Basin #29 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
188.38	7,824	12,433
188.39	7,832	12,511
188.40	7,840	12,590
188.41	7,848	12,668
188.42	7,856	12,747
188.43	7,864	12,825
188.44	7,871	12,904
188.45	7,879	12,983
188.46	7,887	13,062
188.47	7,895	13,141
188.48	7,903	13,220
188.49	7,911	13,299
188.50	7,919	13,378
188.51	7,926	13,457
188.52	7,934	13,536
188.53	7,942	13,616
188.54	7,950	13,695
188.55	7,958	13,775
188.56	7,966	13,854
188.57	7,973	13,934
188.58	7,981	14,014
188.59	7,989	14,094
188.60	7,997	14,174
188.61	8,005	14,254
188.62	8,013	14,334
188.63	8,021	14,414
188.64	8,028	14,494
188.65	8,036	14,574
188.66	8,044	14,655
188.67	8,052	14,735
188.68	8,060	14,816
188.69	8,068	14,896
188.70	8,076	14,977
188.71	8,083	15,058
188.72	8,091	15,139
188.73	8,099	15,220
188.74	8,107	15,301
188.75	8,115	15,382
188.76	8,123	15,463
188.77	8,130	15,544
188.78	8,138	15,626
188.79	8,146	15,707
188.80	8,154	15,789
188.81	8,162	15,870
188.82	8,170	15,952
188.83	8,178	16,034
188.84	8,185	16,115
188.85	8,193	16,197
188.86	8,201	16,279
188.87	8,209	16,361
188.88	8,217	16,443
188.89	8,225	16,526
188.90	8,233	16,608
188.91	8,240	16,690
188.92	8,248	16,773
188.93	8,256	16,855
188.94	8,264	16,938
188.95	8,272	17,021
188.96	8,280	17,103
188.97	8,287	17,186
188.98	8,295	17,269
188.99	8,303	17,352
189.00	**8,311**	**17,435**

Summary for Pond B-30: Basin #30

Inflow Area = 5.727 ac, 37.05% Impervious, Inflow Depth > 3.14" for Current 10 yr event
Inflow = 12.99 cfs @ 12.21 hrs, Volume= 1.497 af
Outflow = 2.62 cfs @ 13.10 hrs, Volume= 1.091 af, Atten= 80%, Lag= 53.7 min
Primary = 2.62 cfs @ 13.10 hrs, Volume= 1.091 af
Routed to Link PDA-3 : Proposed Drainage Area #3

Routing by Stor-Ind method, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
Peak Elev= 178.32' @ 13.10 hrs Surf.Area= 13,873 sf Storage= 31,560 cf

Plug-Flow detention time= 471.6 min calculated for 1.089 af (73% of inflow)
Center-of-Mass det. time= 344.5 min (1,222.5 - 878.0)

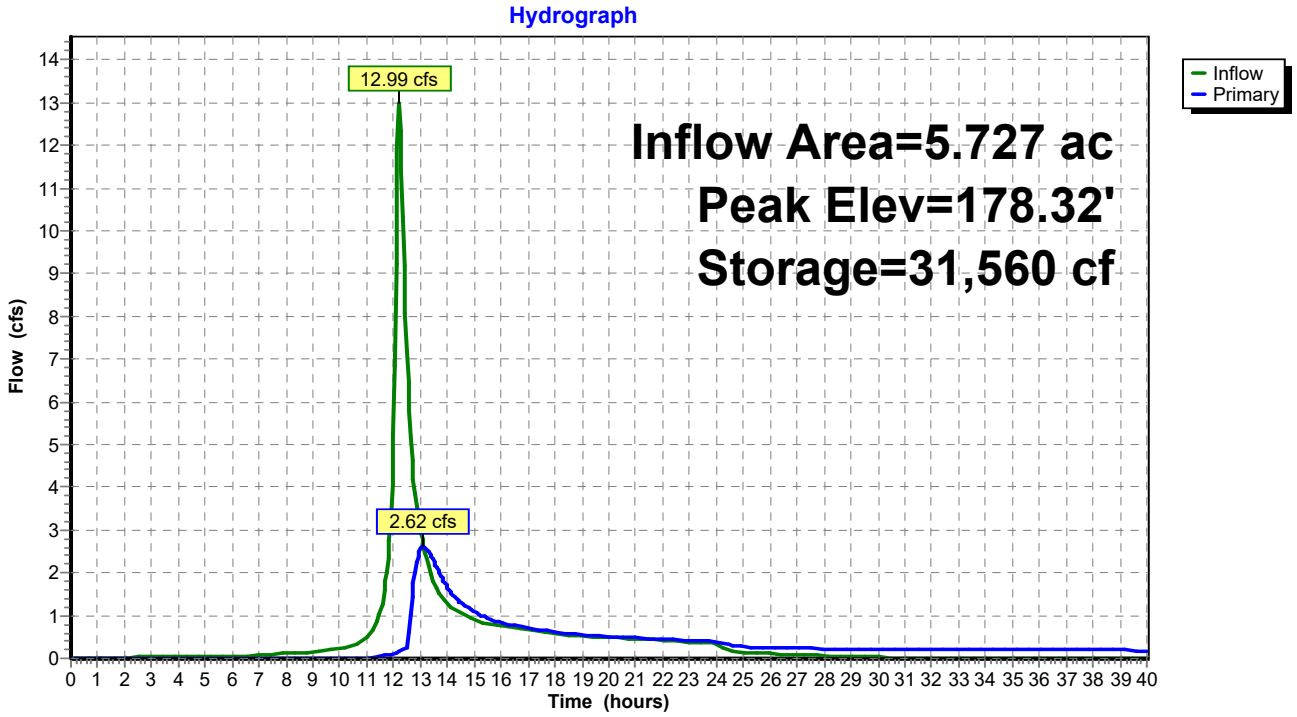
Volume	Invert	Avail.Storage	Storage Description
#1	175.30'	57,146 cf	**Custom Stage Data (Prismatic)** Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
175.30	0	0	0
176.00	10,254	3,589	3,589
177.00	11,773	11,014	14,602
178.00	13,346	12,560	27,162
179.00	14,978	14,162	41,324
180.00	16,667	15,823	57,146

Device	Routing	Invert	Outlet Devices
#1	Primary	174.65'	**18.0" Round Culvert** L= 86.0' Ke= 0.500 Inlet / Outlet Invert= 174.65' / 174.00' S= 0.0076 '/' Cc= 0.900 n= 0.013, Flow Area= 1.77 sf
#2	Device 1	175.93'	**2.5" Vert. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#3	Device 1	178.00'	**4.0' long Sharp-Crested Rectangular Weir** 2 End Contraction(s)
#4	Primary	179.50'	**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=2.61 cfs @ 13.10 hrs HW=178.32' (Free Discharge)
- **1=Culvert** (Passes 2.61 cfs of 13.59 cfs potential flow)
  - **2=Orifice/Grate** (Orifice Controls 0.25 cfs @ 7.28 fps)
  - **3=Sharp-Crested Rectangular Weir** (Weir Controls 2.36 cfs @ 1.86 fps)
- **4=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)

Pond B-30: Basin #30



Stage-Discharge for Pond B-30: Basin #30

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
175.30	0.00	175.82	0.00	176.34	0.09	176.86	0.15
175.31	0.00	175.83	0.00	176.35	0.09	176.87	0.15
175.32	0.00	175.84	0.00	176.36	0.09	176.88	0.15
175.33	0.00	175.85	0.00	176.37	0.10	176.89	0.15
175.34	0.00	175.86	0.00	176.38	0.10	176.90	0.15
175.35	0.00	175.87	0.00	176.39	0.10	176.91	0.15
175.36	0.00	175.88	0.00	176.40	0.10	176.92	0.15
175.37	0.00	175.89	0.00	176.41	0.10	176.93	0.16
175.38	0.00	175.90	0.00	176.42	0.10	176.94	0.16
175.39	0.00	175.91	0.00	176.43	0.10	176.95	0.16
175.40	0.00	175.92	0.00	176.44	0.10	176.96	0.16
175.41	0.00	175.93	0.00	176.45	0.11	176.97	0.16
175.42	0.00	175.94	0.00	176.46	0.11	176.98	0.16
175.43	0.00	175.95	0.00	176.47	0.11	176.99	0.16
175.44	0.00	175.96	0.00	176.48	0.11	177.00	0.16
175.45	0.00	175.97	0.00	176.49	0.11	177.01	0.16
175.46	0.00	175.98	0.00	176.50	0.11	177.02	0.16
175.47	0.00	175.99	0.01	176.51	0.11	177.03	0.16
175.48	0.00	176.00	0.01	176.52	0.11	177.04	0.16
175.49	0.00	176.01	0.01	176.53	0.12	177.05	0.17
175.50	0.00	176.02	0.01	176.54	0.12	177.06	0.17
175.51	0.00	176.03	0.02	176.55	0.12	177.07	0.17
175.52	0.00	176.04	0.02	176.56	0.12	177.08	0.17
175.53	0.00	176.05	0.02	176.57	0.12	177.09	0.17
175.54	0.00	176.06	0.03	176.58	0.12	177.10	0.17
175.55	0.00	176.07	0.03	176.59	0.12	177.11	0.17
175.56	0.00	176.08	0.03	176.60	0.12	177.12	0.17
175.57	0.00	176.09	0.04	176.61	0.12	177.13	0.17
175.58	0.00	176.10	0.04	176.62	0.13	177.14	0.17
175.59	0.00	176.11	0.05	176.63	0.13	177.15	0.17
175.60	0.00	176.12	0.05	176.64	0.13	177.16	0.17
175.61	0.00	176.13	0.05	176.65	0.13	177.17	0.17
175.62	0.00	176.14	0.05	176.66	0.13	177.18	0.18
175.63	0.00	176.15	0.06	176.67	0.13	177.19	0.18
175.64	0.00	176.16	0.06	176.68	0.13	177.20	0.18
175.65	0.00	176.17	0.06	176.69	0.13	177.21	0.18
175.66	0.00	176.18	0.06	176.70	0.13	177.22	0.18
175.67	0.00	176.19	0.06	176.71	0.13	177.23	0.18
175.68	0.00	176.20	0.07	176.72	0.14	177.24	0.18
175.69	0.00	176.21	0.07	176.73	0.14	177.25	0.18
175.70	0.00	176.22	0.07	176.74	0.14	177.26	0.18
175.71	0.00	176.23	0.07	176.75	0.14	177.27	0.18
175.72	0.00	176.24	0.07	176.76	0.14	177.28	0.18
175.73	0.00	176.25	0.08	176.77	0.14	177.29	0.18
175.74	0.00	176.26	0.08	176.78	0.14	177.30	0.18
175.75	0.00	176.27	0.08	176.79	0.14	177.31	0.19
175.76	0.00	176.28	0.08	176.80	0.14	177.32	0.19
175.77	0.00	176.29	0.08	176.81	0.14	177.33	0.19
175.78	0.00	176.30	0.08	176.82	0.15	177.34	0.19
175.79	0.00	176.31	0.09	176.83	0.15	177.35	0.19
175.80	0.00	176.32	0.09	176.84	0.15	177.36	0.19
175.81	0.00	176.33	0.09	176.85	0.15	177.37	0.19

Stage-Discharge for Pond B-30: Basin #30 (continued)

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
177.38	0.19	177.90	0.22	178.42	3.74	178.94	11.64
177.39	0.19	177.91	0.22	178.43	3.86	178.95	11.82
177.40	0.19	177.92	0.23	178.44	3.99	178.96	11.99
177.41	0.19	177.93	0.23	178.45	4.11	178.97	12.17
177.42	0.19	177.94	0.23	178.46	4.24	178.98	12.35
177.43	0.19	177.95	0.23	178.47	4.37	178.99	12.53
177.44	0.19	177.96	0.23	178.48	4.50	179.00	12.71
177.45	0.20	177.97	0.23	178.49	4.63	179.01	12.89
177.46	0.20	177.98	0.23	178.50	4.77	179.02	13.07
177.47	0.20	177.99	0.23	178.51	4.90	179.03	13.25
177.48	0.20	178.00	0.23	178.52	5.04	179.04	13.44
177.49	0.20	178.01	0.24	178.53	5.17	179.05	13.62
177.50	0.20	178.02	0.27	178.54	5.31	179.06	13.80
177.51	0.20	178.03	0.30	178.55	5.45	179.07	13.99
177.52	0.20	178.04	0.34	178.56	5.59	179.08	14.17
177.53	0.20	178.05	0.38	178.57	5.73	179.09	14.36
177.54	0.20	178.06	0.43	178.58	5.87	179.10	14.55
177.55	0.20	178.07	0.48	178.59	6.02	179.11	14.74
177.56	0.20	178.08	0.53	178.60	6.16	179.12	14.92
177.57	0.20	178.09	0.59	178.61	6.31	179.13	15.11
177.58	0.20	178.10	0.65	178.62	6.45	179.14	15.30
177.59	0.20	178.11	0.71	178.63	6.60	179.15	15.46
177.60	0.21	178.12	0.78	178.64	6.75	179.16	15.48
177.61	0.21	178.13	0.85	178.65	6.90	179.17	15.50
177.62	0.21	178.14	0.92	178.66	7.05	179.18	15.52
177.63	0.21	178.15	0.99	178.67	7.20	179.19	15.54
177.64	0.21	178.16	1.07	178.68	7.35	179.20	15.56
177.65	0.21	178.17	1.15	178.69	7.51	179.21	15.58
177.66	0.21	178.18	1.23	178.70	7.66	179.22	15.60
177.67	0.21	178.19	1.31	178.71	7.82	179.23	15.62
177.68	0.21	178.20	1.40	178.72	7.97	179.24	15.65
177.69	0.21	178.21	1.49	178.73	8.13	179.25	15.67
177.70	0.21	178.22	1.58	178.74	8.29	179.26	15.69
177.71	0.21	178.23	1.67	178.75	8.45	179.27	15.71
177.72	0.21	178.24	1.76	178.76	8.61	179.28	15.73
177.73	0.21	178.25	1.86	178.77	8.77	179.29	15.75
177.74	0.21	178.26	1.96	178.78	8.93	179.30	15.77
177.75	0.22	178.27	2.06	178.79	9.09	179.31	15.79
177.76	0.22	178.28	2.16	178.80	9.26	179.32	15.81
177.77	0.22	178.29	2.26	178.81	9.42	179.33	15.83
177.78	0.22	178.30	2.36	178.82	9.59	179.34	15.85
177.79	0.22	178.31	2.47	178.83	9.75	179.35	15.87
177.80	0.22	178.32	2.58	178.84	9.92	179.36	15.89
177.81	0.22	178.33	2.69	178.85	10.09	179.37	15.91
177.82	0.22	178.34	2.80	178.86	10.26	179.38	15.94
177.83	0.22	178.35	2.91	178.87	10.43	179.39	15.96
177.84	0.22	178.36	3.02	178.88	10.60	179.40	15.98
177.85	0.22	178.37	3.14	178.89	10.77	179.41	16.00
177.86	0.22	178.38	3.26	178.90	10.94	179.42	16.02
177.87	0.22	178.39	3.38	178.91	11.12	179.43	16.04
177.88	0.22	178.40	3.50	178.92	11.29	179.44	16.06
177.89	0.22	178.41	3.62	178.93	11.46	179.45	16.08

Stage-Discharge for Pond B-30: Basin #30 (continued)

Elevation (feet)	Primary (cfs)
179.46	16.10
179.47	16.12
179.48	16.14
179.49	16.16
179.50	16.18
179.51	16.32
179.52	16.55
179.53	16.85
179.54	17.20
179.55	17.59
179.56	18.03
179.57	18.50
179.58	19.00
179.59	19.53
179.60	20.10
179.61	20.69
179.62	21.31
179.63	21.96
179.64	22.63
179.65	23.33
179.66	24.05
179.67	24.79
179.68	25.55
179.69	26.34
179.70	27.14
179.71	28.01
179.72	28.90
179.73	29.82
179.74	30.76
179.75	31.73
179.76	32.72
179.77	33.74
179.78	34.79
179.79	35.85
179.80	36.94
179.81	38.06
179.82	39.20
179.83	40.37
179.84	41.56
179.85	42.77
179.86	44.01
179.87	45.27
179.88	46.56
179.89	47.87
179.90	49.20
179.91	50.58
179.92	52.00
179.93	53.43
179.94	54.90
179.95	56.39
179.96	57.90
179.97	59.44
179.98	61.01
179.99	62.61
180.00	**64.23**

Stage-Area-Storage for Pond B-30: Basin #30

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
175.30	0	0	175.82	7,617	1,980
175.31	146	1	175.83	7,764	2,057
175.32	293	3	175.84	7,910	2,136
175.33	439	7	175.85	8,057	2,216
175.34	586	12	175.86	8,203	2,297
175.35	732	18	175.87	8,350	2,380
175.36	879	26	175.88	8,496	2,464
175.37	1,025	36	175.89	8,643	2,550
175.38	1,172	47	175.90	8,789	2,637
175.39	1,318	59	175.91	8,936	2,725
175.40	1,465	73	175.92	9,082	2,815
175.41	1,611	89	175.93	9,229	2,907
175.42	1,758	105	175.94	9,375	3,000
175.43	1,904	124	175.95	9,522	3,095
175.44	2,051	144	175.96	9,668	3,190
175.45	2,197	165	175.97	9,815	3,288
175.46	2,344	188	175.98	9,961	3,387
175.47	2,490	212	175.99	10,108	3,487
175.48	2,637	237	176.00	10,254	3,589
175.49	2,783	264	176.01	10,269	3,692
175.50	2,930	293	176.02	10,284	3,794
175.51	3,076	323	176.03	10,300	3,897
175.52	3,223	354	176.04	10,315	4,000
175.53	3,369	387	176.05	10,330	4,103
175.54	3,516	422	176.06	10,345	4,207
175.55	3,662	458	176.07	10,360	4,310
175.56	3,809	495	176.08	10,376	4,414
175.57	3,955	534	176.09	10,391	4,518
175.58	4,102	574	176.10	10,406	4,622
175.59	4,248	616	176.11	10,421	4,726
175.60	4,395	659	176.12	10,436	4,830
175.61	4,541	704	176.13	10,451	4,935
175.62	4,688	750	176.14	10,467	5,039
175.63	4,834	798	176.15	10,482	5,144
175.64	4,981	847	176.16	10,497	5,249
175.65	5,127	897	176.17	10,512	5,354
175.66	5,273	949	176.18	10,527	5,459
175.67	5,420	1,003	176.19	10,543	5,565
175.68	5,566	1,058	176.20	10,558	5,670
175.69	5,713	1,114	176.21	10,573	5,776
175.70	5,859	1,172	176.22	10,588	5,882
175.71	6,006	1,231	176.23	10,603	5,987
175.72	6,152	1,292	176.24	10,619	6,094
175.73	6,299	1,354	176.25	10,634	6,200
175.74	6,445	1,418	176.26	10,649	6,306
175.75	6,592	1,483	176.27	10,664	6,413
175.76	6,738	1,550	176.28	10,679	6,520
175.77	6,885	1,618	176.29	10,695	6,626
175.78	7,031	1,688	176.30	10,710	6,733
175.79	7,178	1,759	176.31	10,725	6,841
175.80	7,324	1,831	176.32	10,740	6,948
175.81	7,471	1,905	176.33	10,755	7,055

Stage-Area-Storage for Pond B-30: Basin #30 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
176.34	10,770	7,163	176.86	11,560	12,969
176.35	10,786	7,271	176.87	11,576	13,085
176.36	10,801	7,379	176.88	11,591	13,201
176.37	10,816	7,487	176.89	11,606	13,317
176.38	10,831	7,595	176.90	11,621	13,433
176.39	10,846	7,703	176.91	11,636	13,549
176.40	10,862	7,812	176.92	11,651	13,665
176.41	10,877	7,921	176.93	11,667	13,782
176.42	10,892	8,030	176.94	11,682	13,899
176.43	10,907	8,139	176.95	11,697	14,016
176.44	10,922	8,248	176.96	11,712	14,133
176.45	10,938	8,357	176.97	11,727	14,250
176.46	10,953	8,466	176.98	11,743	14,367
176.47	10,968	8,576	176.99	11,758	14,485
176.48	10,983	8,686	177.00	11,773	14,602
176.49	10,998	8,796	177.01	11,789	14,720
176.50	11,014	8,906	177.02	11,804	14,838
176.51	11,029	9,016	177.03	11,820	14,956
176.52	11,044	9,126	177.04	11,836	15,075
176.53	11,059	9,237	177.05	11,852	15,193
176.54	11,074	9,348	177.06	11,867	15,312
176.55	11,089	9,458	177.07	11,883	15,430
176.56	11,105	9,569	177.08	11,899	15,549
176.57	11,120	9,680	177.09	11,915	15,668
176.58	11,135	9,792	177.10	11,930	15,788
176.59	11,150	9,903	177.11	11,946	15,907
176.60	11,165	10,015	177.12	11,962	16,026
176.61	11,181	10,126	177.13	11,977	16,146
176.62	11,196	10,238	177.14	11,993	16,266
176.63	11,211	10,350	177.15	12,009	16,386
176.64	11,226	10,463	177.16	12,025	16,506
176.65	11,241	10,575	177.17	12,040	16,627
176.66	11,257	10,687	177.18	12,056	16,747
176.67	11,272	10,800	177.19	12,072	16,868
176.68	11,287	10,913	177.20	12,088	16,988
176.69	11,302	11,026	177.21	12,103	17,109
176.70	11,317	11,139	177.22	12,119	17,231
176.71	11,332	11,252	177.23	12,135	17,352
176.72	11,348	11,366	177.24	12,151	17,473
176.73	11,363	11,479	177.25	12,166	17,595
176.74	11,378	11,593	177.26	12,182	17,717
176.75	11,393	11,707	177.27	12,198	17,838
176.76	11,408	11,821	177.28	12,213	17,961
176.77	11,424	11,935	177.29	12,229	18,083
176.78	11,439	12,049	177.30	12,245	18,205
176.79	11,454	12,164	177.31	12,261	18,328
176.80	11,469	12,278	177.32	12,276	18,450
176.81	11,484	12,393	177.33	12,292	18,573
176.82	11,500	12,508	177.34	12,308	18,696
176.83	11,515	12,623	177.35	12,324	18,819
176.84	11,530	12,738	177.36	12,339	18,943
176.85	11,545	12,854	177.37	12,355	19,066

Stage-Area-Storage for Pond B-30: Basin #30 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
177.38	12,371	19,190	177.90	13,189	25,835
177.39	12,386	19,313	177.91	13,204	25,967
177.40	12,402	19,437	177.92	13,220	26,099
177.41	12,418	19,562	177.93	13,236	26,232
177.42	12,434	19,686	177.94	13,252	26,364
177.43	12,449	19,810	177.95	13,267	26,497
177.44	12,465	19,935	177.96	13,283	26,629
177.45	12,481	20,060	177.97	13,299	26,762
177.46	12,497	20,184	177.98	13,315	26,895
177.47	12,512	20,309	177.99	13,330	27,029
177.48	12,528	20,435	178.00	13,346	27,162
177.49	12,544	20,560	178.01	13,362	27,295
177.50	12,560	20,686	178.02	13,379	27,429
177.51	12,575	20,811	178.03	13,395	27,563
177.52	12,591	20,937	178.04	13,411	27,697
177.53	12,607	21,063	178.05	13,428	27,831
177.54	12,622	21,189	178.06	13,444	27,966
177.55	12,638	21,315	178.07	13,460	28,100
177.56	12,654	21,442	178.08	13,477	28,235
177.57	12,670	21,569	178.09	13,493	28,370
177.58	12,685	21,695	178.10	13,509	28,505
177.59	12,701	21,822	178.11	13,526	28,640
177.60	12,717	21,949	178.12	13,542	28,775
177.61	12,733	22,077	178.13	13,558	28,911
177.62	12,748	22,204	178.14	13,574	29,046
177.63	12,764	22,332	178.15	13,591	29,182
177.64	12,780	22,459	178.16	13,607	29,318
177.65	12,795	22,587	178.17	13,623	29,454
177.66	12,811	22,715	178.18	13,640	29,591
177.67	12,827	22,843	178.19	13,656	29,727
177.68	12,843	22,972	178.20	13,672	29,864
177.69	12,858	23,100	178.21	13,689	30,001
177.70	12,874	23,229	178.22	13,705	30,138
177.71	12,890	23,358	178.23	13,721	30,275
177.72	12,906	23,487	178.24	13,738	30,412
177.73	12,921	23,616	178.25	13,754	30,549
177.74	12,937	23,745	178.26	13,770	30,687
177.75	12,953	23,875	178.27	13,787	30,825
177.76	12,968	24,004	178.28	13,803	30,963
177.77	12,984	24,134	178.29	13,819	31,101
177.78	13,000	24,264	178.30	13,836	31,239
177.79	13,016	24,394	178.31	13,852	31,378
177.80	13,031	24,524	178.32	13,868	31,516
177.81	13,047	24,655	178.33	13,885	31,655
177.82	13,063	24,785	178.34	13,901	31,794
177.83	13,079	24,916	178.35	13,917	31,933
177.84	13,094	25,047	178.36	13,934	32,072
177.85	13,110	25,178	178.37	13,950	32,212
177.86	13,126	25,309	178.38	13,966	32,351
177.87	13,142	25,440	178.39	13,982	32,491
177.88	13,157	25,572	178.40	13,999	32,631
177.89	13,173	25,703	178.41	14,015	32,771

Stage-Area-Storage for Pond B-30: Basin #30 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
178.42	14,031	32,911
178.43	14,048	33,052
178.44	14,064	33,192
178.45	14,080	33,333
178.46	14,097	33,474
178.47	14,113	33,615
178.48	14,129	33,756
178.49	14,146	33,897
178.50	14,162	34,039
178.51	14,178	34,181
178.52	14,195	34,322
178.53	14,211	34,464
178.54	14,227	34,607
178.55	14,244	34,749
178.56	14,260	34,892
178.57	14,276	35,034
178.58	14,293	35,177
178.59	14,309	35,320
178.60	14,325	35,463
178.61	14,342	35,607
178.62	14,358	35,750
178.63	14,374	35,894
178.64	14,390	36,038
178.65	14,407	36,182
178.66	14,423	36,326
178.67	14,439	36,470
178.68	14,456	36,614
178.69	14,472	36,759
178.70	14,488	36,904
178.71	14,505	37,049
178.72	14,521	37,194
178.73	14,537	37,339
178.74	14,554	37,485
178.75	14,570	37,630
178.76	14,586	37,776
178.77	14,603	37,922
178.78	14,619	38,068
178.79	14,635	38,215
178.80	14,652	38,361
178.81	14,668	38,508
178.82	14,684	38,654
178.83	14,701	38,801
178.84	14,717	38,948
178.85	14,733	39,096
178.86	14,750	39,243
178.87	14,766	39,391
178.88	14,782	39,538
178.89	14,798	39,686
178.90	14,815	39,834
178.91	14,831	39,982
178.92	14,847	40,131
178.93	14,864	40,279
178.94	14,880	40,428
178.95	14,896	40,577
178.96	14,913	40,726
178.97	14,929	40,875
178.98	14,945	41,025
178.99	14,962	41,174
179.00	14,978	41,324
179.01	14,995	41,474
179.02	15,012	41,624
179.03	15,029	41,774
179.04	15,046	41,924
179.05	15,062	42,075
179.06	15,079	42,226
179.07	15,096	42,376
179.08	15,113	42,528
179.09	15,130	42,679
179.10	15,147	42,830
179.11	15,164	42,982
179.12	15,181	43,133
179.13	15,198	43,285
179.14	15,214	43,437
179.15	15,231	43,590
179.16	15,248	43,742
179.17	15,265	43,895
179.18	15,282	44,047
179.19	15,299	44,200
179.20	15,316	44,353
179.21	15,333	44,507
179.22	15,350	44,660
179.23	15,366	44,814
179.24	15,383	44,967
179.25	15,400	45,121
179.26	15,417	45,275
179.27	15,434	45,430
179.28	15,451	45,584
179.29	15,468	45,739
179.30	15,485	45,893
179.31	15,502	46,048
179.32	15,518	46,203
179.33	15,535	46,359
179.34	15,552	46,514
179.35	15,569	46,670
179.36	15,586	46,825
179.37	15,603	46,981
179.38	15,620	47,137
179.39	15,637	47,294
179.40	15,654	47,450
179.41	15,670	47,607
179.42	15,687	47,764
179.43	15,704	47,921
179.44	15,721	48,078
179.45	15,738	48,235

Stage-Area-Storage for Pond B-30: Basin #30 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
179.46	15,755	48,392
179.47	15,772	48,550
179.48	15,789	48,708
179.49	15,806	48,866
179.50	15,823	49,024
179.51	15,839	49,182
179.52	15,856	49,341
179.53	15,873	49,499
179.54	15,890	49,658
179.55	15,907	49,817
179.56	15,924	49,976
179.57	15,941	50,136
179.58	15,958	50,295
179.59	15,975	50,455
179.60	15,991	50,615
179.61	16,008	50,775
179.62	16,025	50,935
179.63	16,042	51,095
179.64	16,059	51,256
179.65	16,076	51,416
179.66	16,093	51,577
179.67	16,110	51,738
179.68	16,127	51,899
179.69	16,143	52,061
179.70	16,160	52,222
179.71	16,177	52,384
179.72	16,194	52,546
179.73	16,211	52,708
179.74	16,228	52,870
179.75	16,245	53,032
179.76	16,262	53,195
179.77	16,279	53,358
179.78	16,295	53,521
179.79	16,312	53,684
179.80	16,329	53,847
179.81	16,346	54,010
179.82	16,363	54,174
179.83	16,380	54,337
179.84	16,397	54,501
179.85	16,414	54,665
179.86	16,431	54,830
179.87	16,447	54,994
179.88	16,464	55,159
179.89	16,481	55,323
179.90	16,498	55,488
179.91	16,515	55,653
179.92	16,532	55,818
179.93	16,549	55,984
179.94	16,566	56,149
179.95	16,583	56,315
179.96	16,599	56,481
179.97	16,616	56,647
179.98	16,633	56,813
179.99	16,650	56,980
180.00	**16,667**	**57,146**

Summary for Pond B-31: Basin #31

Inflow Area = 0.923 ac, 77.68% Impervious, Inflow Depth = 4.32" for Current 10 yr event
Inflow = 3.89 cfs @ 12.17 hrs, Volume= 0.333 af
Outflow = 1.53 cfs @ 12.39 hrs, Volume= 0.317 af, Atten= 61%, Lag= 13.5 min
Primary = 1.53 cfs @ 12.39 hrs, Volume= 0.317 af
Routed to Pond B-30 : Basin #30

Routing by Stor-Ind method, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
Peak Elev= 195.21' @ 12.39 hrs Surf.Area= 3,403 sf Storage= 6,554 cf

Plug-Flow detention time= 277.9 min calculated for 0.317 af (95% of inflow)
Center-of-Mass det. time= 250.4 min (1,014.2 - 763.7)

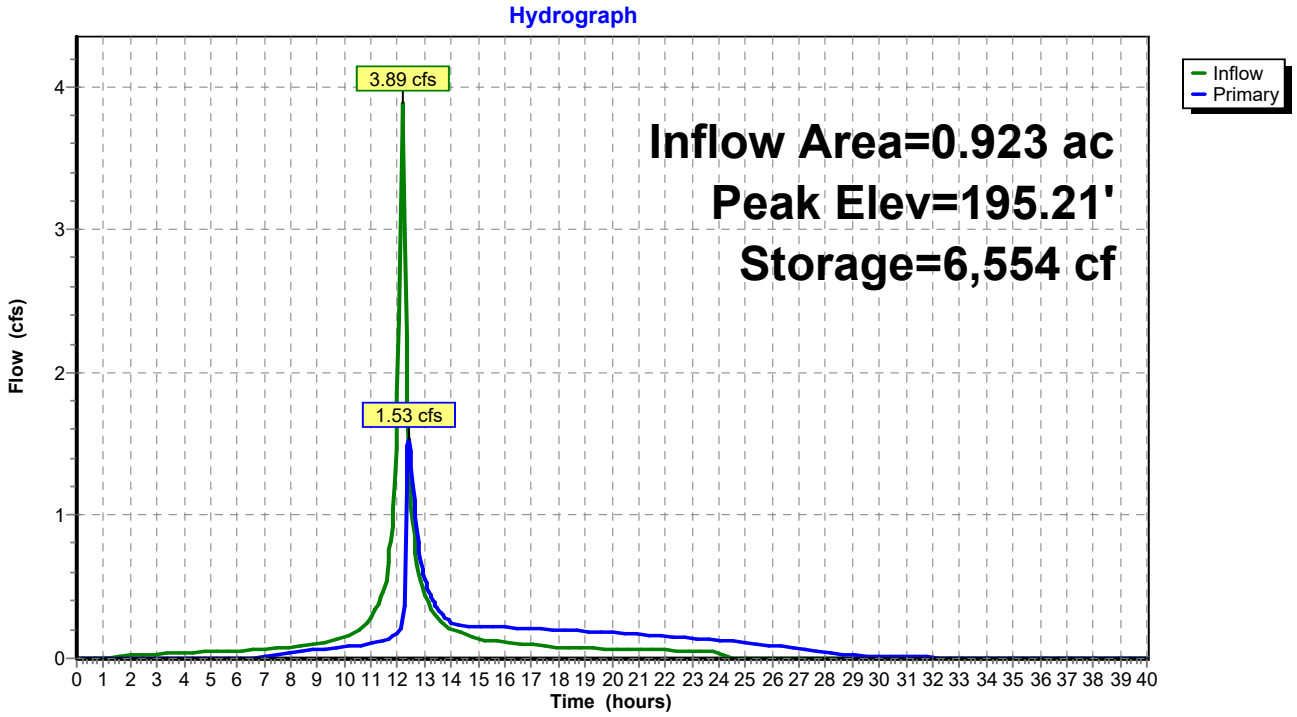
Volume	Invert	Avail.Storage	Storage Description
#1	192.30'	9,453 cf	**Custom Stage Data (Prismatic)** Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
192.30	0	0	0
193.00	1,944	680	680
194.00	2,566	2,255	2,935
195.00	3,245	2,906	5,841
196.00	3,980	3,613	9,453

Device	Routing	Invert	Outlet Devices
#1	Primary	191.65'	**18.0" Round Culvert** L= 126.0' Ke= 0.500 Inlet / Outlet Invert= 191.65' / 188.00' S= 0.0290 '/' Cc= 0.900 n= 0.013, Flow Area= 1.77 sf
#2	Device 1	192.97'	**2.5" Vert. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#3	Device 1	195.00'	**4.0' long Sharp-Crested Rectangular Weir** 2 End Contraction(s)
#4	Primary	195.50'	**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=1.52 cfs @ 12.39 hrs HW=195.21' (Free Discharge)
- **1=Culvert** (Passes 1.52 cfs of 14.27 cfs potential flow)
  - **2=Orifice/Grate** (Orifice Controls 0.24 cfs @ 7.04 fps)
  - **3=Sharp-Crested Rectangular Weir** (Weir Controls 1.28 cfs @ 1.51 fps)
- **4=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)

Pond B-31: Basin #31



Stage-Discharge for Pond B-31: Basin #31

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
192.30	0.00	192.82	0.00	193.34	0.08	193.86	0.15
192.31	0.00	192.83	0.00	193.35	0.09	193.87	0.15
192.32	0.00	192.84	0.00	193.36	0.09	193.88	0.15
192.33	0.00	192.85	0.00	193.37	0.09	193.89	0.15
192.34	0.00	192.86	0.00	193.38	0.09	193.90	0.15
192.35	0.00	192.87	0.00	193.39	0.09	193.91	0.15
192.36	0.00	192.88	0.00	193.40	0.09	193.92	0.15
192.37	0.00	192.89	0.00	193.41	0.10	193.93	0.15
192.38	0.00	192.90	0.00	193.42	0.10	193.94	0.15
192.39	0.00	192.91	0.00	193.43	0.10	193.95	0.15
192.40	0.00	192.92	0.00	193.44	0.10	193.96	0.15
192.41	0.00	192.93	0.00	193.45	0.10	193.97	0.16
192.42	0.00	192.94	0.00	193.46	0.10	193.98	0.16
192.43	0.00	192.95	0.00	193.47	0.10	193.99	0.16
192.44	0.00	192.96	0.00	193.48	0.10	194.00	0.16
192.45	0.00	192.97	0.00	193.49	0.11	194.01	0.16
192.46	0.00	192.98	0.00	193.50	0.11	194.02	0.16
192.47	0.00	192.99	0.00	193.51	0.11	194.03	0.16
192.48	0.00	193.00	0.00	193.52	0.11	194.04	0.16
192.49	0.00	193.01	0.00	193.53	0.11	194.05	0.16
192.50	0.00	193.02	0.00	193.54	0.11	194.06	0.16
192.51	0.00	193.03	0.01	193.55	0.11	194.07	0.16
192.52	0.00	193.04	0.01	193.56	0.11	194.08	0.16
192.53	0.00	193.05	0.01	193.57	0.12	194.09	0.17
192.54	0.00	193.06	0.01	193.58	0.12	194.10	0.17
192.55	0.00	193.07	0.02	193.59	0.12	194.11	0.17
192.56	0.00	193.08	0.02	193.60	0.12	194.12	0.17
192.57	0.00	193.09	0.02	193.61	0.12	194.13	0.17
192.58	0.00	193.10	0.03	193.62	0.12	194.14	0.17
192.59	0.00	193.11	0.03	193.63	0.12	194.15	0.17
192.60	0.00	193.12	0.03	193.64	0.12	194.16	0.17
192.61	0.00	193.13	0.04	193.65	0.12	194.17	0.17
192.62	0.00	193.14	0.04	193.66	0.13	194.18	0.17
192.63	0.00	193.15	0.05	193.67	0.13	194.19	0.17
192.64	0.00	193.16	0.05	193.68	0.13	194.20	0.17
192.65	0.00	193.17	0.05	193.69	0.13	194.21	0.17
192.66	0.00	193.18	0.05	193.70	0.13	194.22	0.18
192.67	0.00	193.19	0.06	193.71	0.13	194.23	0.18
192.68	0.00	193.20	0.06	193.72	0.13	194.24	0.18
192.69	0.00	193.21	0.06	193.73	0.13	194.25	0.18
192.70	0.00	193.22	0.06	193.74	0.13	194.26	0.18
192.71	0.00	193.23	0.06	193.75	0.13	194.27	0.18
192.72	0.00	193.24	0.07	193.76	0.14	194.28	0.18
192.73	0.00	193.25	0.07	193.77	0.14	194.29	0.18
192.74	0.00	193.26	0.07	193.78	0.14	194.30	0.18
192.75	0.00	193.27	0.07	193.79	0.14	194.31	0.18
192.76	0.00	193.28	0.07	193.80	0.14	194.32	0.18
192.77	0.00	193.29	0.08	193.81	0.14	194.33	0.18
192.78	0.00	193.30	0.08	193.82	0.14	194.34	0.18
192.79	0.00	193.31	0.08	193.83	0.14	194.35	0.19
192.80	0.00	193.32	0.08	193.84	0.14	194.36	0.19
192.81	0.00	193.33	0.08	193.85	0.14	194.37	0.19

Stage-Discharge for Pond B-31: Basin #31 (continued)

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
194.38	0.19	194.90	0.22	195.42	3.74	195.94	49.49
194.39	0.19	194.91	0.22	195.43	3.86	195.95	51.13
194.40	0.19	194.92	0.22	195.44	3.99	195.96	52.81
194.41	0.19	194.93	0.22	195.45	4.11	195.97	54.51
194.42	0.19	194.94	0.22	195.46	4.24	195.98	56.24
194.43	0.19	194.95	0.22	195.47	4.37	195.99	57.99
194.44	0.19	194.96	0.23	195.48	4.50	196.00	**59.77**
194.45	0.19	194.97	0.23	195.49	4.63		
194.46	0.19	194.98	0.23	195.50	4.76		
194.47	0.19	194.99	0.23	195.51	5.02		
194.48	0.19	195.00	0.23	195.52	5.37		
194.49	0.20	195.01	0.24	195.53	5.78		
194.50	0.20	195.02	0.27	195.54	6.25		
194.51	0.20	195.03	0.30	195.55	6.76		
194.52	0.20	195.04	0.33	195.56	7.31		
194.53	0.20	195.05	0.38	195.57	7.90		
194.54	0.20	195.06	0.42	195.58	8.53		
194.55	0.20	195.07	0.47	195.59	9.19		
194.56	0.20	195.08	0.53	195.60	9.88		
194.57	0.20	195.09	0.58	195.61	10.59		
194.58	0.20	195.10	0.65	195.62	11.34		
194.59	0.20	195.11	0.71	195.63	12.12		
194.60	0.20	195.12	0.78	195.64	12.92		
194.61	0.20	195.13	0.84	195.65	13.74		
194.62	0.20	195.14	0.92	195.66	14.59		
194.63	0.20	195.15	0.99	195.67	15.47		
194.64	0.21	195.16	1.07	195.68	16.36		
194.65	0.21	195.17	1.15	195.69	17.28		
194.66	0.21	195.18	1.23	195.70	18.22		
194.67	0.21	195.19	1.31	195.71	19.23		
194.68	0.21	195.20	1.40	195.72	20.25		
194.69	0.21	195.21	1.49	195.73	21.31		
194.70	0.21	195.22	1.58	195.74	22.39		
194.71	0.21	195.23	1.67	195.75	23.50		
194.72	0.21	195.24	1.76	195.76	24.63		
194.73	0.21	195.25	1.86	195.77	25.79		
194.74	0.21	195.26	1.95	195.78	26.98		
194.75	0.21	195.27	2.05	195.79	28.19		
194.76	0.21	195.28	2.15	195.80	29.42		
194.77	0.21	195.29	2.26	195.81	30.69		
194.78	0.21	195.30	2.36	195.82	31.97		
194.79	0.22	195.31	2.47	195.83	33.29		
194.80	0.22	195.32	2.58	195.84	34.62		
194.81	0.22	195.33	2.69	195.85	35.98		
194.82	0.22	195.34	2.80	195.86	37.37		
194.83	0.22	195.35	2.91	195.87	38.78		
194.84	0.22	195.36	3.02	195.88	40.22		
194.85	0.22	195.37	3.14	195.89	41.68		
194.86	0.22	195.38	3.25	195.90	43.17		
194.87	0.22	195.39	3.37	195.91	44.71		
194.88	0.22	195.40	3.49	195.92	46.28		
194.89	0.22	195.41	3.61	195.93	47.87		

Stage-Area-Storage for Pond B-31: Basin #31

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
192.30	0	0	192.82	1,444	375
192.31	28	0	192.83	1,472	390
192.32	56	1	192.84	1,500	405
192.33	83	1	192.85	1,527	420
192.34	111	2	192.86	1,555	435
192.35	139	3	192.87	1,583	451
192.36	167	5	192.88	1,611	467
192.37	194	7	192.89	1,639	483
192.38	222	9	192.90	1,666	500
192.39	250	11	192.91	1,694	517
192.40	278	14	192.92	1,722	534
192.41	305	17	192.93	1,750	551
192.42	333	20	192.94	1,777	569
192.43	361	23	192.95	1,805	587
192.44	389	27	192.96	1,833	605
192.45	417	31	192.97	1,861	623
192.46	444	36	192.98	1,888	642
192.47	472	40	192.99	1,916	661
192.48	500	45	193.00	1,944	680
192.49	528	50	193.01	1,950	700
192.50	555	56	193.02	1,956	719
192.51	583	61	193.03	1,963	739
192.52	611	67	193.04	1,969	759
192.53	639	73	193.05	1,975	778
192.54	667	80	193.06	1,981	798
192.55	694	87	193.07	1,988	818
192.56	722	94	193.08	1,994	838
192.57	750	101	193.09	2,000	858
192.58	778	109	193.10	2,006	878
192.59	805	117	193.11	2,012	898
192.60	833	125	193.12	2,019	918
192.61	861	133	193.13	2,025	938
192.62	889	142	193.14	2,031	959
192.63	916	151	193.15	2,037	979
192.64	944	161	193.16	2,044	999
192.65	972	170	193.17	2,050	1,020
192.66	1,000	180	193.18	2,056	1,040
192.67	1,028	190	193.19	2,062	1,061
192.68	1,055	201	193.20	2,068	1,082
192.69	1,083	211	193.21	2,075	1,102
192.70	1,111	222	193.22	2,081	1,123
192.71	1,139	233	193.23	2,087	1,144
192.72	1,166	245	193.24	2,093	1,165
192.73	1,194	257	193.25	2,100	1,186
192.74	1,222	269	193.26	2,106	1,207
192.75	1,250	281	193.27	2,112	1,228
192.76	1,277	294	193.28	2,118	1,249
192.77	1,305	307	193.29	2,124	1,270
192.78	1,333	320	193.30	2,131	1,292
192.79	1,361	333	193.31	2,137	1,313
192.80	1,389	347	193.32	2,143	1,334
192.81	1,416	361	193.33	2,149	1,356

Stage-Area-Storage for Pond B-31: Basin #31 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
193.34	2,155	1,377	193.86	2,479	2,582
193.35	2,162	1,399	193.87	2,485	2,607
193.36	2,168	1,421	193.88	2,491	2,632
193.37	2,174	1,442	193.89	2,498	2,657
193.38	2,180	1,464	193.90	2,504	2,682
193.39	2,187	1,486	193.91	2,510	2,707
193.40	2,193	1,508	193.92	2,516	2,732
193.41	2,199	1,530	193.93	2,522	2,757
193.42	2,205	1,552	193.94	2,529	2,783
193.43	2,211	1,574	193.95	2,535	2,808
193.44	2,218	1,596	193.96	2,541	2,833
193.45	2,224	1,618	193.97	2,547	2,859
193.46	2,230	1,640	193.98	2,554	2,884
193.47	2,236	1,663	193.99	2,560	2,910
193.48	2,243	1,685	194.00	2,566	2,935
193.49	2,249	1,708	194.01	2,573	2,961
193.50	2,255	1,730	194.02	2,580	2,987
193.51	2,261	1,753	194.03	2,586	3,013
193.52	2,267	1,775	194.04	2,593	3,039
193.53	2,274	1,798	194.05	2,600	3,065
193.54	2,280	1,821	194.06	2,607	3,091
193.55	2,286	1,844	194.07	2,614	3,117
193.56	2,292	1,867	194.08	2,620	3,143
193.57	2,299	1,890	194.09	2,627	3,169
193.58	2,305	1,913	194.10	2,634	3,195
193.59	2,311	1,936	194.11	2,641	3,222
193.60	2,317	1,959	194.12	2,647	3,248
193.61	2,323	1,982	194.13	2,654	3,275
193.62	2,330	2,005	194.14	2,661	3,301
193.63	2,336	2,029	194.15	2,668	3,328
193.64	2,342	2,052	194.16	2,675	3,355
193.65	2,348	2,075	194.17	2,681	3,381
193.66	2,355	2,099	194.18	2,688	3,408
193.67	2,361	2,122	194.19	2,695	3,435
193.68	2,367	2,146	194.20	2,702	3,462
193.69	2,373	2,170	194.21	2,709	3,489
193.70	2,379	2,194	194.22	2,715	3,516
193.71	2,386	2,217	194.23	2,722	3,544
193.72	2,392	2,241	194.24	2,729	3,571
193.73	2,398	2,265	194.25	2,736	3,598
193.74	2,404	2,289	194.26	2,743	3,626
193.75	2,411	2,313	194.27	2,749	3,653
193.76	2,417	2,337	194.28	2,756	3,680
193.77	2,423	2,362	194.29	2,763	3,708
193.78	2,429	2,386	194.30	2,770	3,736
193.79	2,435	2,410	194.31	2,776	3,763
193.80	2,442	2,435	194.32	2,783	3,791
193.81	2,448	2,459	194.33	2,790	3,819
193.82	2,454	2,484	194.34	2,797	3,847
193.83	2,460	2,508	194.35	2,804	3,875
193.84	2,466	2,533	194.36	2,810	3,903
193.85	2,473	2,557	194.37	2,817	3,931

Stage-Area-Storage for Pond B-31: Basin #31 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
194.38	2,824	3,960
194.39	2,831	3,988
194.40	2,838	4,016
194.41	2,844	4,045
194.42	2,851	4,073
194.43	2,858	4,102
194.44	2,865	4,130
194.45	2,872	4,159
194.46	2,878	4,188
194.47	2,885	4,216
194.48	2,892	4,245
194.49	2,899	4,274
194.50	2,906	4,303
194.51	2,912	4,332
194.52	2,919	4,362
194.53	2,926	4,391
194.54	2,933	4,420
194.55	2,939	4,449
194.56	2,946	4,479
194.57	2,953	4,508
194.58	2,960	4,538
194.59	2,967	4,568
194.60	2,973	4,597
194.61	2,980	4,627
194.62	2,987	4,657
194.63	2,994	4,687
194.64	3,001	4,717
194.65	3,007	4,747
194.66	3,014	4,777
194.67	3,021	4,807
194.68	3,028	4,837
194.69	3,035	4,868
194.70	3,041	4,898
194.71	3,048	4,928
194.72	3,055	4,959
194.73	3,062	4,989
194.74	3,068	5,020
194.75	3,075	5,051
194.76	3,082	5,082
194.77	3,089	5,113
194.78	3,096	5,143
194.79	3,102	5,174
194.80	3,109	5,205
194.81	3,116	5,237
194.82	3,123	5,268
194.83	3,130	5,299
194.84	3,136	5,330
194.85	3,143	5,362
194.86	3,150	5,393
194.87	3,157	5,425
194.88	3,164	5,456
194.89	3,170	5,488
194.90	3,177	5,520
194.91	3,184	5,552
194.92	3,191	5,583
194.93	3,197	5,615
194.94	3,204	5,647
194.95	3,211	5,679
194.96	3,218	5,712
194.97	3,225	5,744
194.98	3,231	5,776
194.99	3,238	5,808
195.00	3,245	5,841
195.01	3,252	5,873
195.02	3,260	5,906
195.03	3,267	5,939
195.04	3,274	5,971
195.05	3,282	6,004
195.06	3,289	6,037
195.07	3,296	6,070
195.08	3,304	6,103
195.09	3,311	6,136
195.10	3,319	6,169
195.11	3,326	6,202
195.12	3,333	6,236
195.13	3,341	6,269
195.14	3,348	6,302
195.15	3,355	6,336
195.16	3,363	6,370
195.17	3,370	6,403
195.18	3,377	6,437
195.19	3,385	6,471
195.20	3,392	6,505
195.21	3,399	6,539
195.22	3,407	6,573
195.23	3,414	6,607
195.24	3,421	6,641
195.25	3,429	6,675
195.26	3,436	6,709
195.27	3,443	6,744
195.28	3,451	6,778
195.29	3,458	6,813
195.30	3,466	6,847
195.31	3,473	6,882
195.32	3,480	6,917
195.33	3,488	6,952
195.34	3,495	6,987
195.35	3,502	7,022
195.36	3,510	7,057
195.37	3,517	7,092
195.38	3,524	7,127
195.39	3,532	7,162
195.40	3,539	7,198
195.41	3,546	7,233

Stage-Area-Storage for Pond B-31: Basin #31 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
195.42	3,554	7,269
195.43	3,561	7,304
195.44	3,568	7,340
195.45	3,576	7,376
195.46	3,583	7,411
195.47	3,590	7,447
195.48	3,598	7,483
195.49	3,605	7,519
195.50	3,613	7,555
195.51	3,620	7,591
195.52	3,627	7,628
195.53	3,635	7,664
195.54	3,642	7,700
195.55	3,649	7,737
195.56	3,657	7,773
195.57	3,664	7,810
195.58	3,671	7,847
195.59	3,679	7,883
195.60	3,686	7,920
195.61	3,693	7,957
195.62	3,701	7,994
195.63	3,708	8,031
195.64	3,715	8,068
195.65	3,723	8,105
195.66	3,730	8,143
195.67	3,737	8,180
195.68	3,745	8,217
195.69	3,752	8,255
195.70	3,760	8,292
195.71	3,767	8,330
195.72	3,774	8,368
195.73	3,782	8,406
195.74	3,789	8,443
195.75	3,796	8,481
195.76	3,804	8,519
195.77	3,811	8,557
195.78	3,818	8,596
195.79	3,826	8,634
195.80	3,833	8,672
195.81	3,840	8,710
195.82	3,848	8,749
195.83	3,855	8,787
195.84	3,862	8,826
195.85	3,870	8,865
195.86	3,877	8,903
195.87	3,884	8,942
195.88	3,892	8,981
195.89	3,899	9,020
195.90	3,907	9,059
195.91	3,914	9,098
195.92	3,921	9,137
195.93	3,929	9,177
195.94	3,936	9,216
195.95	3,943	9,255
195.96	3,951	9,295
195.97	3,958	9,334
195.98	3,965	9,374
195.99	3,973	9,414
196.00	**3,980**	**9,453**

Summary for Pond B-32: Basin #32

Inflow Area = 1.346 ac, 28.68% Impervious, Inflow Depth = 3.14" for Current 10 yr event
Inflow = 4.39 cfs @ 12.17 hrs, Volume= 0.352 af
Outflow = 3.52 cfs @ 12.25 hrs, Volume= 0.313 af, Atten= 20%, Lag= 4.6 min
Primary = 3.52 cfs @ 12.25 hrs, Volume= 0.313 af
Routed to Pond B-30 : Basin #30

Routing by Stor-Ind method, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
Peak Elev= 196.07' @ 12.25 hrs Surf.Area= 3,626 sf Storage= 3,464 cf

Plug-Flow detention time= 108.2 min calculated for 0.313 af (89% of inflow)
Center-of-Mass det. time= 51.7 min (854.7 - 802.9)

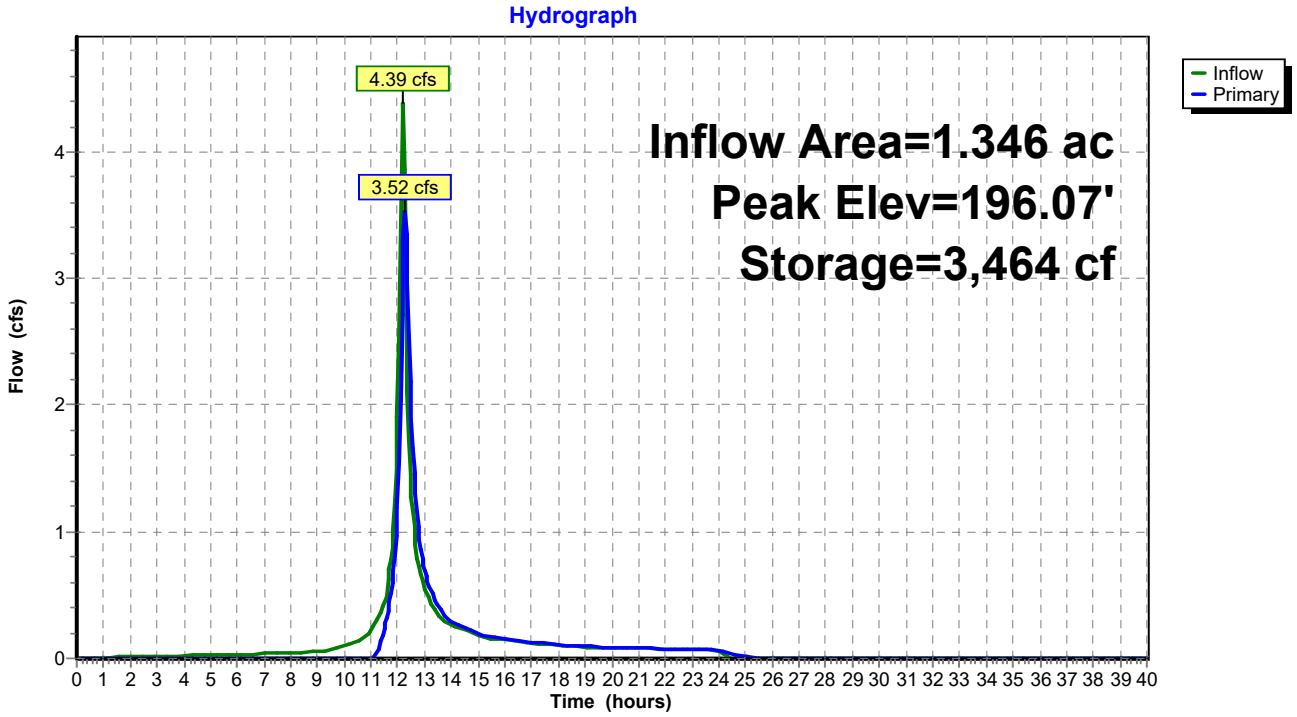
Volume	Invert	Avail.Storage	Storage Description
#1	195.00'	11,936 cf	**Custom Stage Data (Prismatic)** Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
195.00	2,830	0	0
196.00	3,569	3,200	3,200
197.00	4,349	3,959	7,159
198.00	5,206	4,778	11,936

Device	Routing	Invert	Outlet Devices
#1	Primary	195.00'	**24.0" Round Culvert** L= 43.0' Ke= 0.500 Inlet / Outlet Invert= 195.00' / 193.94' S= 0.0247 '/' Cc= 0.900 n= 0.013, Flow Area= 3.14 sf
#2	Device 1	195.56'	**36.0" W x 6.0" H Vert. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#3	Device 1	197.00'	**4.0' long Sharp-Crested Rectangular Weir** 2 End Contraction(s)
#4	Primary	197.95'	**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=3.53 cfs @ 12.25 hrs HW=196.07' (Free Discharge)
- **1=Culvert** (Passes 3.53 cfs of 6.06 cfs potential flow)
  - **2=Orifice/Grate** (Orifice Controls 3.53 cfs @ 2.35 fps)
  - **3=Sharp-Crested Rectangular Weir** (Controls 0.00 cfs)
- **4=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)

Pond B-32: Basin #32



Stage-Discharge for Pond B-32: Basin #32

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
195.00	0.00	195.52	0.00	196.04	3.20	196.56	6.23
195.01	0.00	195.53	0.00	196.05	3.30	196.57	6.27
195.02	0.00	195.54	0.00	196.06	3.40	196.58	6.31
195.03	0.00	195.55	0.00	196.07	3.50	196.59	6.35
195.04	0.00	195.56	0.00	196.08	3.58	196.60	6.39
195.05	0.00	195.57	0.01	196.09	3.67	196.61	6.43
195.06	0.00	195.58	0.03	196.10	3.74	196.62	6.47
195.07	0.00	195.59	0.05	196.11	3.82	196.63	6.51
195.08	0.00	195.60	0.08	196.12	3.89	196.64	6.55
195.09	0.00	195.61	0.11	196.13	3.97	196.65	6.59
195.10	0.00	195.62	0.14	196.14	4.04	196.66	6.63
195.11	0.00	195.63	0.18	196.15	4.10	196.67	6.67
195.12	0.00	195.64	0.22	196.16	4.17	196.68	6.71
195.13	0.00	195.65	0.26	196.17	4.24	196.69	6.75
195.14	0.00	195.66	0.30	196.18	4.30	196.70	6.79
195.15	0.00	195.67	0.35	196.19	4.36	196.71	6.83
195.16	0.00	195.68	0.40	196.20	4.43	196.72	6.87
195.17	0.00	195.69	0.45	196.21	4.49	196.73	6.91
195.18	0.00	195.70	0.50	196.22	4.55	196.74	6.94
195.19	0.00	195.71	0.56	196.23	4.61	196.75	6.98
195.20	0.00	195.72	0.62	196.24	4.66	196.76	7.02
195.21	0.00	195.73	0.67	196.25	4.72	196.77	7.06
195.22	0.00	195.74	0.74	196.26	4.78	196.78	7.09
195.23	0.00	195.75	0.80	196.27	4.83	196.79	7.13
195.24	0.00	195.76	0.86	196.28	4.89	196.80	7.17
195.25	0.00	195.77	0.93	196.29	4.94	196.81	7.20
195.26	0.00	195.78	0.99	196.30	5.00	196.82	7.24
195.27	0.00	195.79	1.06	196.31	5.05	196.83	7.28
195.28	0.00	195.80	1.13	196.32	5.10	196.84	7.31
195.29	0.00	195.81	1.20	196.33	5.16	196.85	7.35
195.30	0.00	195.82	1.28	196.34	5.21	196.86	7.38
195.31	0.00	195.83	1.35	196.35	5.26	196.87	7.42
195.32	0.00	195.84	1.43	196.36	5.31	196.88	7.45
195.33	0.00	195.85	1.50	196.37	5.36	196.89	7.49
195.34	0.00	195.86	1.58	196.38	5.41	196.90	7.52
195.35	0.00	195.87	1.66	196.39	5.46	196.91	7.56
195.36	0.00	195.88	1.74	196.40	5.50	196.92	7.59
195.37	0.00	195.89	1.83	196.41	5.55	196.93	7.63
195.38	0.00	195.90	1.91	196.42	5.60	196.94	7.66
195.39	0.00	195.91	1.99	196.43	5.65	196.95	7.70
195.40	0.00	195.92	2.08	196.44	5.69	196.96	7.73
195.41	0.00	195.93	2.17	196.45	5.74	196.97	7.76
195.42	0.00	195.94	2.26	196.46	5.79	196.98	7.80
195.43	0.00	195.95	2.35	196.47	5.83	196.99	7.83
195.44	0.00	195.96	2.44	196.48	5.88	197.00	7.86
195.45	0.00	195.97	2.53	196.49	5.92	197.01	7.91
195.46	0.00	195.98	2.62	196.50	5.97	197.02	7.97
195.47	0.00	195.99	2.72	196.51	6.01	197.03	8.03
195.48	0.00	196.00	2.81	196.52	6.05	197.04	8.10
195.49	0.00	196.01	2.91	196.53	6.10	197.05	8.17
195.50	0.00	196.02	3.00	196.54	6.14	197.06	8.25
195.51	0.00	196.03	3.10	196.55	6.18	197.07	8.34

Stage-Discharge for Pond B-32: Basin #32 (continued)

Elevation (feet)	Primary (cfs)
197.08	8.42
197.09	8.51
197.10	8.60
197.11	8.70
197.12	8.79
197.13	8.89
197.14	9.00
197.15	9.10
197.16	9.21
197.17	9.32
197.18	9.43
197.19	9.55
197.20	9.66
197.21	9.78
197.22	9.90
197.23	10.02
197.24	10.15
197.25	10.27
197.26	10.40
197.27	10.53
197.28	10.66
197.29	10.79
197.30	10.92
197.31	11.06
197.32	11.19
197.33	11.33
197.34	11.47
197.35	11.61
197.36	11.76
197.37	11.90
197.38	12.05
197.39	12.19
197.40	12.34
197.41	12.49
197.42	12.64
197.43	12.79
197.44	12.95
197.45	13.10
197.46	13.26
197.47	13.41
197.48	13.57
197.49	13.73
197.50	13.89
197.51	14.05
197.52	14.21
197.53	14.38
197.54	14.54
197.55	14.71
197.56	14.87
197.57	15.04
197.58	15.21
197.59	15.38
197.60	15.55
197.61	15.72
197.62	15.90
197.63	16.07
197.64	16.25
197.65	16.42
197.66	16.60
197.67	16.78
197.68	16.95
197.69	17.13
197.70	17.31
197.71	17.50
197.72	17.68
197.73	17.86
197.74	18.05
197.75	18.23
197.76	18.42
197.77	18.60
197.78	18.79
197.79	18.98
197.80	19.17
197.81	19.36
197.82	19.55
197.83	19.74
197.84	19.93
197.85	20.12
197.86	20.32
197.87	20.51
197.88	20.71
197.89	20.80
197.90	20.85
197.91	20.91
197.92	20.96
197.93	21.01
197.94	21.07
197.95	21.12
197.96	21.29
197.97	21.56
197.98	21.89
197.99	22.28
198.00	**22.70**

Stage-Area-Storage for Pond B-32: Basin #32

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
195.00	2,830	0
195.01	2,837	28
195.02	2,845	57
195.03	2,852	85
195.04	2,860	114
195.05	2,867	142
195.06	2,874	171
195.07	2,882	200
195.08	2,889	229
195.09	2,897	258
195.10	2,904	287
195.11	2,911	316
195.12	2,919	345
195.13	2,926	374
195.14	2,933	403
195.15	2,941	433
195.16	2,948	462
195.17	2,956	492
195.18	2,963	521
195.19	2,970	551
195.20	2,978	581
195.21	2,985	611
195.22	2,993	640
195.23	3,000	670
195.24	3,007	700
195.25	3,015	731
195.26	3,022	761
195.27	3,030	791
195.28	3,037	821
195.29	3,044	852
195.30	3,052	882
195.31	3,059	913
195.32	3,066	943
195.33	3,074	974
195.34	3,081	1,005
195.35	3,089	1,036
195.36	3,096	1,067
195.37	3,103	1,098
195.38	3,111	1,129
195.39	3,118	1,160
195.40	3,126	1,191
195.41	3,133	1,222
195.42	3,140	1,254
195.43	3,148	1,285
195.44	3,155	1,317
195.45	3,163	1,348
195.46	3,170	1,380
195.47	3,177	1,412
195.48	3,185	1,444
195.49	3,192	1,475
195.50	3,200	1,507
195.51	3,207	1,539
195.52	3,214	1,572
195.53	3,222	1,604
195.54	3,229	1,636
195.55	3,236	1,668
195.56	3,244	1,701
195.57	3,251	1,733
195.58	3,259	1,766
195.59	3,266	1,798
195.60	3,273	1,831
195.61	3,281	1,864
195.62	3,288	1,897
195.63	3,296	1,930
195.64	3,303	1,963
195.65	3,310	1,996
195.66	3,318	2,029
195.67	3,325	2,062
195.68	3,333	2,095
195.69	3,340	2,129
195.70	3,347	2,162
195.71	3,355	2,196
195.72	3,362	2,229
195.73	3,369	2,263
195.74	3,377	2,297
195.75	3,384	2,330
195.76	3,392	2,364
195.77	3,399	2,398
195.78	3,406	2,432
195.79	3,414	2,466
195.80	3,421	2,500
195.81	3,429	2,535
195.82	3,436	2,569
195.83	3,443	2,603
195.84	3,451	2,638
195.85	3,458	2,672
195.86	3,466	2,707
195.87	3,473	2,742
195.88	3,480	2,777
195.89	3,488	2,811
195.90	3,495	2,846
195.91	3,502	2,881
195.92	3,510	2,916
195.93	3,517	2,951
195.94	3,525	2,987
195.95	3,532	3,022
195.96	3,539	3,057
195.97	3,547	3,093
195.98	3,554	3,128
195.99	3,562	3,164
196.00	3,569	3,200
196.01	3,577	3,235
196.02	3,585	3,271
196.03	3,592	3,307

Stage-Area-Storage for Pond B-32: Basin #32 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
196.04	3,600	3,343
196.05	3,608	3,379
196.06	3,616	3,415
196.07	3,624	3,451
196.08	3,631	3,488
196.09	3,639	3,524
196.10	3,647	3,560
196.11	3,655	3,597
196.12	3,663	3,633
196.13	3,670	3,670
196.14	3,678	3,707
196.15	3,686	3,744
196.16	3,694	3,781
196.17	3,702	3,818
196.18	3,709	3,855
196.19	3,717	3,892
196.20	3,725	3,929
196.21	3,733	3,966
196.22	3,741	4,004
196.23	3,748	4,041
196.24	3,756	4,079
196.25	3,764	4,116
196.26	3,772	4,154
196.27	3,780	4,192
196.28	3,787	4,229
196.29	3,795	4,267
196.30	3,803	4,305
196.31	3,811	4,343
196.32	3,819	4,382
196.33	3,826	4,420
196.34	3,834	4,458
196.35	3,842	4,496
196.36	3,850	4,535
196.37	3,858	4,573
196.38	3,865	4,612
196.39	3,873	4,651
196.40	3,881	4,690
196.41	3,889	4,728
196.42	3,897	4,767
196.43	3,904	4,806
196.44	3,912	4,845
196.45	3,920	4,885
196.46	3,928	4,924
196.47	3,936	4,963
196.48	3,943	5,002
196.49	3,951	5,042
196.50	3,959	5,082
196.51	3,967	5,121
196.52	3,975	5,161
196.53	3,982	5,201
196.54	3,990	5,240
196.55	3,998	5,280
196.56	4,006	5,320
196.57	4,014	5,361
196.58	4,021	5,401
196.59	4,029	5,441
196.60	4,037	5,481
196.61	4,045	5,522
196.62	4,053	5,562
196.63	4,060	5,603
196.64	4,068	5,643
196.65	4,076	5,684
196.66	4,084	5,725
196.67	4,092	5,766
196.68	4,099	5,807
196.69	4,107	5,848
196.70	4,115	5,889
196.71	4,123	5,930
196.72	4,131	5,971
196.73	4,138	6,013
196.74	4,146	6,054
196.75	4,154	6,096
196.76	4,162	6,137
196.77	4,170	6,179
196.78	4,177	6,221
196.79	4,185	6,262
196.80	4,193	6,304
196.81	4,201	6,346
196.82	4,209	6,388
196.83	4,216	6,430
196.84	4,224	6,473
196.85	4,232	6,515
196.86	4,240	6,557
196.87	4,248	6,600
196.88	4,255	6,642
196.89	4,263	6,685
196.90	4,271	6,728
196.91	4,279	6,770
196.92	4,287	6,813
196.93	4,294	6,856
196.94	4,302	6,899
196.95	4,310	6,942
196.96	4,318	6,985
196.97	4,326	7,028
196.98	4,333	7,072
196.99	4,341	7,115
197.00	4,349	7,159
197.01	4,358	7,202
197.02	4,366	7,246
197.03	4,375	7,289
197.04	4,383	7,333
197.05	4,392	7,377
197.06	4,400	7,421
197.07	4,409	7,465

Stage-Area-Storage for Pond B-32: Basin #32 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
197.08	4,418	7,509
197.09	4,426	7,553
197.10	4,435	7,598
197.11	4,443	7,642
197.12	4,452	7,687
197.13	4,460	7,731
197.14	4,469	7,776
197.15	4,478	7,820
197.16	4,486	7,865
197.17	4,495	7,910
197.18	4,503	7,955
197.19	4,512	8,000
197.20	4,520	8,045
197.21	4,529	8,091
197.22	4,538	8,136
197.23	4,546	8,181
197.24	4,555	8,227
197.25	4,563	8,273
197.26	4,572	8,318
197.27	4,580	8,364
197.28	4,589	8,410
197.29	4,598	8,456
197.30	4,606	8,502
197.31	4,615	8,548
197.32	4,623	8,594
197.33	4,632	8,640
197.34	4,640	8,687
197.35	4,649	8,733
197.36	4,658	8,780
197.37	4,666	8,826
197.38	4,675	8,873
197.39	4,683	8,920
197.40	4,692	8,967
197.41	4,700	9,014
197.42	4,709	9,061
197.43	4,718	9,108
197.44	4,726	9,155
197.45	4,735	9,202
197.46	4,743	9,250
197.47	4,752	9,297
197.48	4,760	9,345
197.49	4,769	9,392
197.50	4,778	9,440
197.51	4,786	9,488
197.52	4,795	9,536
197.53	4,803	9,584
197.54	4,812	9,632
197.55	4,820	9,680
197.56	4,829	9,728
197.57	4,837	9,777
197.58	4,846	9,825
197.59	4,855	9,874
197.60	4,863	9,922
197.61	4,872	9,971
197.62	4,880	10,020
197.63	4,889	10,068
197.64	4,897	10,117
197.65	4,906	10,166
197.66	4,915	10,215
197.67	4,923	10,265
197.68	4,932	10,314
197.69	4,940	10,363
197.70	4,949	10,413
197.71	4,957	10,462
197.72	4,966	10,512
197.73	4,975	10,562
197.74	4,983	10,611
197.75	4,992	10,661
197.76	5,000	10,711
197.77	5,009	10,761
197.78	5,017	10,811
197.79	5,026	10,862
197.80	5,035	10,912
197.81	5,043	10,962
197.82	5,052	11,013
197.83	5,060	11,063
197.84	5,069	11,114
197.85	5,077	11,165
197.86	5,086	11,216
197.87	5,095	11,266
197.88	5,103	11,317
197.89	5,112	11,369
197.90	5,120	11,420
197.91	5,129	11,471
197.92	5,137	11,522
197.93	5,146	11,574
197.94	5,155	11,625
197.95	5,163	11,677
197.96	5,172	11,728
197.97	5,180	11,780
197.98	5,189	11,832
197.99	5,197	11,884
198.00	**5,206**	**11,936**

Summary for Pond B-33: Basin #33

Inflow Area = 1.761 ac, 50.99% Impervious, Inflow Depth = 3.68" for Current 10 yr event
Inflow = 6.50 cfs @ 12.17 hrs, Volume= 0.540 af
Outflow = 3.88 cfs @ 12.31 hrs, Volume= 0.453 af, Atten= 40%, Lag= 8.2 min
Primary = 3.88 cfs @ 12.31 hrs, Volume= 0.453 af
Routed to Link PDA-3 : Proposed Drainage Area #3

Routing by Stor-Ind method, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
Peak Elev= 186.68' @ 12.31 hrs Surf.Area= 4,727 sf Storage= 10,459 cf

Plug-Flow detention time= 335.9 min calculated for 0.453 af (84% of inflow)
Center-of-Mass det. time= 265.0 min (1,046.9 - 782.0)

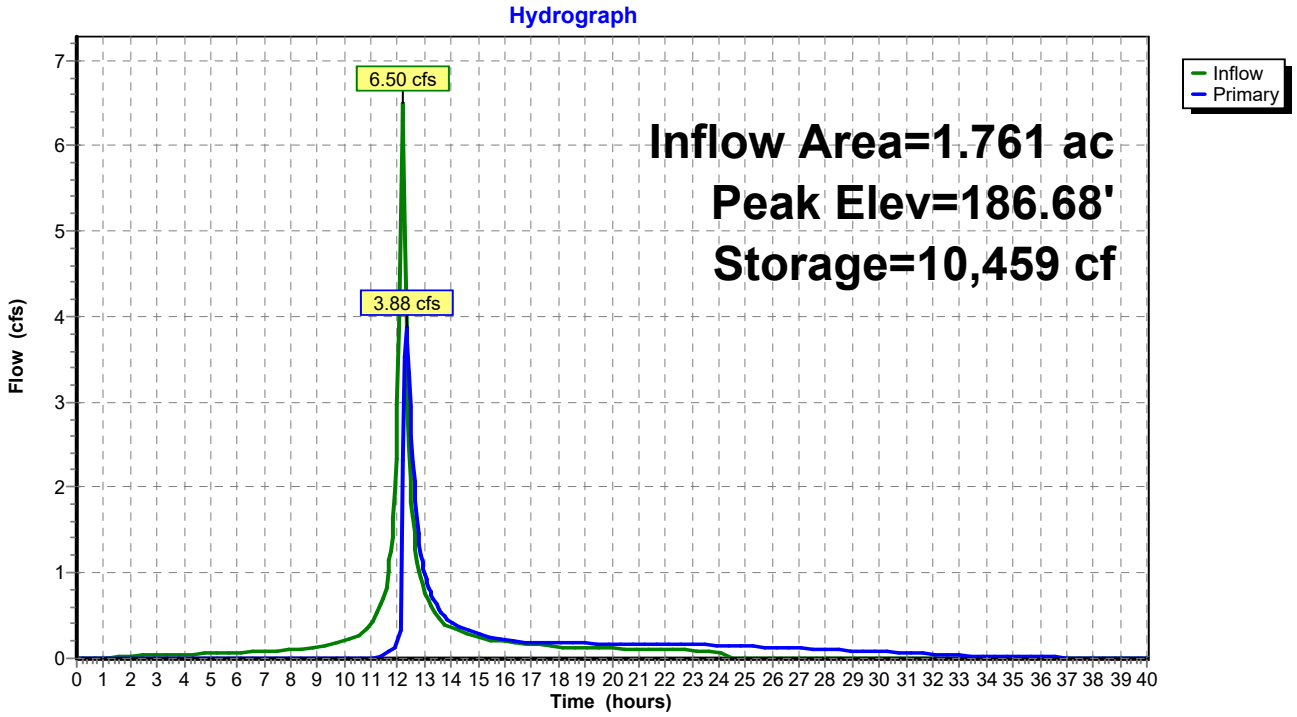
Volume	Invert	Avail.Storage	Storage Description
#1	183.30'	17,481 cf	**Custom Stage Data (Prismatic)** Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
183.30	0	0	0
184.00	2,481	868	868
185.00	3,268	2,875	3,743
186.00	4,111	3,690	7,432
187.00	5,010	4,561	11,993
188.00	5,966	5,488	17,481

Device	Routing	Invert	Outlet Devices
#1	Primary	184.00'	**18.0" Round Culvert** L= 104.0' Ke= 0.500 Inlet / Outlet Invert= 184.00' / 182.00' S= 0.0192 '/' Cc= 0.900 n= 0.013, Flow Area= 1.77 sf
#2	Device 1	184.96'	**2.5" Vert. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#3	Device 1	186.25'	**4.0' long Sharp-Crested Rectangular Weir** 2 End Contraction(s)
#4	Primary	187.75'	**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=3.84 cfs @ 12.31 hrs HW=186.68' (Free Discharge)
- **1=Culvert** (Passes 3.84 cfs of 11.83 cfs potential flow)
  - **2=Orifice/Grate** (Orifice Controls 0.21 cfs @ 6.12 fps)
  - **3=Sharp-Crested Rectangular Weir** (Weir Controls 3.63 cfs @ 2.15 fps)
- **4=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)

Pond B-33: Basin #33



Stage-Discharge for Pond B-33: Basin #33

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
183.30	0.00	183.82	0.00	184.34	0.00	184.86	0.00
183.31	0.00	183.83	0.00	184.35	0.00	184.87	0.00
183.32	0.00	183.84	0.00	184.36	0.00	184.88	0.00
183.33	0.00	183.85	0.00	184.37	0.00	184.89	0.00
183.34	0.00	183.86	0.00	184.38	0.00	184.90	0.00
183.35	0.00	183.87	0.00	184.39	0.00	184.91	0.00
183.36	0.00	183.88	0.00	184.40	0.00	184.92	0.00
183.37	0.00	183.89	0.00	184.41	0.00	184.93	0.00
183.38	0.00	183.90	0.00	184.42	0.00	184.94	0.00
183.39	0.00	183.91	0.00	184.43	0.00	184.95	0.00
183.40	0.00	183.92	0.00	184.44	0.00	184.96	0.00
183.41	0.00	183.93	0.00	184.45	0.00	184.97	0.00
183.42	0.00	183.94	0.00	184.46	0.00	184.98	0.00
183.43	0.00	183.95	0.00	184.47	0.00	184.99	0.00
183.44	0.00	183.96	0.00	184.48	0.00	185.00	0.00
183.45	0.00	183.97	0.00	184.49	0.00	185.01	0.00
183.46	0.00	183.98	0.00	184.50	0.00	185.02	0.01
183.47	0.00	183.99	0.00	184.51	0.00	185.03	0.01
183.48	0.00	184.00	0.00	184.52	0.00	185.04	0.01
183.49	0.00	184.01	0.00	184.53	0.00	185.05	0.01
183.50	0.00	184.02	0.00	184.54	0.00	185.06	0.02
183.51	0.00	184.03	0.00	184.55	0.00	185.07	0.02
183.52	0.00	184.04	0.00	184.56	0.00	185.08	0.02
183.53	0.00	184.05	0.00	184.57	0.00	185.09	0.03
183.54	0.00	184.06	0.00	184.58	0.00	185.10	0.03
183.55	0.00	184.07	0.00	184.59	0.00	185.11	0.03
183.56	0.00	184.08	0.00	184.60	0.00	185.12	0.04
183.57	0.00	184.09	0.00	184.61	0.00	185.13	0.04
183.58	0.00	184.10	0.00	184.62	0.00	185.14	0.05
183.59	0.00	184.11	0.00	184.63	0.00	185.15	0.05
183.60	0.00	184.12	0.00	184.64	0.00	185.16	0.05
183.61	0.00	184.13	0.00	184.65	0.00	185.17	0.05
183.62	0.00	184.14	0.00	184.66	0.00	185.18	0.06
183.63	0.00	184.15	0.00	184.67	0.00	185.19	0.06
183.64	0.00	184.16	0.00	184.68	0.00	185.20	0.06
183.65	0.00	184.17	0.00	184.69	0.00	185.21	0.06
183.66	0.00	184.18	0.00	184.70	0.00	185.22	0.06
183.67	0.00	184.19	0.00	184.71	0.00	185.23	0.07
183.68	0.00	184.20	0.00	184.72	0.00	185.24	0.07
183.69	0.00	184.21	0.00	184.73	0.00	185.25	0.07
183.70	0.00	184.22	0.00	184.74	0.00	185.26	0.07
183.71	0.00	184.23	0.00	184.75	0.00	185.27	0.07
183.72	0.00	184.24	0.00	184.76	0.00	185.28	0.08
183.73	0.00	184.25	0.00	184.77	0.00	185.29	0.08
183.74	0.00	184.26	0.00	184.78	0.00	185.30	0.08
183.75	0.00	184.27	0.00	184.79	0.00	185.31	0.08
183.76	0.00	184.28	0.00	184.80	0.00	185.32	0.08
183.77	0.00	184.29	0.00	184.81	0.00	185.33	0.08
183.78	0.00	184.30	0.00	184.82	0.00	185.34	0.09
183.79	0.00	184.31	0.00	184.83	0.00	185.35	0.09
183.80	0.00	184.32	0.00	184.84	0.00	185.36	0.09
183.81	0.00	184.33	0.00	184.85	0.00	185.37	0.09

Stage-Discharge for Pond B-33: Basin #33 (continued)

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
185.38	0.09	185.90	0.15	186.42	1.10	186.94	7.46
185.39	0.09	185.91	0.15	186.43	1.18	186.95	7.62
185.40	0.10	185.92	0.15	186.44	1.27	186.96	7.77
185.41	0.10	185.93	0.15	186.45	1.35	186.97	7.93
185.42	0.10	185.94	0.15	186.46	1.44	186.98	8.09
185.43	0.10	185.95	0.15	186.47	1.53	186.99	8.25
185.44	0.10	185.96	0.16	186.48	1.62	187.00	8.41
185.45	0.10	185.97	0.16	186.49	1.72	187.01	8.57
185.46	0.10	185.98	0.16	186.50	1.81	187.02	8.73
185.47	0.10	185.99	0.16	186.51	1.91	187.03	8.89
185.48	0.11	186.00	0.16	186.52	2.01	187.04	9.05
185.49	0.11	186.01	0.16	186.53	2.11	187.05	9.22
185.50	0.11	186.02	0.16	186.54	2.21	187.06	9.38
185.51	0.11	186.03	0.16	186.55	2.32	187.07	9.55
185.52	0.11	186.04	0.16	186.56	2.42	187.08	9.71
185.53	0.11	186.05	0.16	186.57	2.53	187.09	9.88
185.54	0.11	186.06	0.16	186.58	2.64	187.10	10.05
185.55	0.11	186.07	0.16	186.59	2.75	187.11	10.22
185.56	0.12	186.08	0.17	186.60	2.86	187.12	10.39
185.57	0.12	186.09	0.17	186.61	2.98	187.13	10.56
185.58	0.12	186.10	0.17	186.62	3.09	187.14	10.73
185.59	0.12	186.11	0.17	186.63	3.21	187.15	10.90
185.60	0.12	186.12	0.17	186.64	3.33	187.16	11.08
185.61	0.12	186.13	0.17	186.65	3.45	187.17	11.25
185.62	0.12	186.14	0.17	186.66	3.57	187.18	11.42
185.63	0.12	186.15	0.17	186.67	3.69	187.19	11.60
185.64	0.12	186.16	0.17	186.68	3.82	187.20	11.78
185.65	0.13	186.17	0.17	186.69	3.94	187.21	11.95
185.66	0.13	186.18	0.17	186.70	4.07	187.22	12.13
185.67	0.13	186.19	0.17	186.71	4.20	187.23	12.31
185.68	0.13	186.20	0.17	186.72	4.33	187.24	12.49
185.69	0.13	186.21	0.18	186.73	4.46	187.25	12.67
185.70	0.13	186.22	0.18	186.74	4.59	187.26	12.85
185.71	0.13	186.23	0.18	186.75	4.72	187.27	13.03
185.72	0.13	186.24	0.18	186.76	4.86	187.28	13.21
185.73	0.13	186.25	0.18	186.77	4.99	187.29	13.40
185.74	0.13	186.26	0.19	186.78	5.13	187.30	13.58
185.75	0.14	186.27	0.22	186.79	5.27	187.31	13.61
185.76	0.14	186.28	0.25	186.80	5.40	187.32	13.64
185.77	0.14	186.29	0.29	186.81	5.54	187.33	13.67
185.78	0.14	186.30	0.33	186.82	5.69	187.34	13.69
185.79	0.14	186.31	0.37	186.83	5.83	187.35	13.72
185.80	0.14	186.32	0.43	186.84	5.97	187.36	13.75
185.81	0.14	186.33	0.48	186.85	6.12	187.37	13.77
185.82	0.14	186.34	0.54	186.86	6.26	187.38	13.80
185.83	0.14	186.35	0.60	186.87	6.41	187.39	13.83
185.84	0.14	186.36	0.66	186.88	6.56	187.40	13.85
185.85	0.15	186.37	0.73	186.89	6.70	187.41	13.88
185.86	0.15	186.38	0.80	186.90	6.85	187.42	13.90
185.87	0.15	186.39	0.87	186.91	7.00	187.43	13.93
185.88	0.15	186.40	0.94	186.92	7.16	187.44	13.96
185.89	0.15	186.41	1.02	186.93	7.31	187.45	13.98

Stage-Discharge for Pond B-33: Basin #33 (continued)

Elevation (feet)	Primary (cfs)
187.46	14.01
187.47	14.03
187.48	14.06
187.49	14.08
187.50	14.11
187.51	14.14
187.52	14.16
187.53	14.19
187.54	14.21
187.55	14.24
187.56	14.26
187.57	14.29
187.58	14.31
187.59	14.34
187.60	14.36
187.61	14.39
187.62	14.41
187.63	14.44
187.64	14.46
187.65	14.49
187.66	14.51
187.67	14.54
187.68	14.56
187.69	14.59
187.70	14.61
187.71	14.64
187.72	14.66
187.73	14.69
187.74	14.71
187.75	14.74
187.76	14.88
187.77	15.12
187.78	15.42
187.79	15.77
187.80	16.17
187.81	16.61
187.82	17.08
187.83	17.59
187.84	18.13
187.85	18.70
187.86	19.30
187.87	19.92
187.88	20.57
187.89	21.25
187.90	21.95
187.91	22.67
187.92	23.42
187.93	24.19
187.94	24.98
187.95	25.79
187.96	26.66
187.97	27.55
187.98	28.47
187.99	29.42
188.00	**30.39**

Stage-Area-Storage for Pond B-33: Basin #33

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
183.30	0	0
183.31	35	0
183.32	71	1
183.33	106	2
183.34	142	3
183.35	177	4
183.36	213	6
183.37	248	9
183.38	284	11
183.39	319	14
183.40	354	18
183.41	390	21
183.42	425	26
183.43	461	30
183.44	496	35
183.45	532	40
183.46	567	45
183.47	603	51
183.48	638	57
183.49	673	64
183.50	709	71
183.51	744	78
183.52	780	86
183.53	815	94
183.54	851	102
183.55	886	111
183.56	922	120
183.57	957	129
183.58	992	139
183.59	1,028	149
183.60	1,063	159
183.61	1,099	170
183.62	1,134	181
183.63	1,170	193
183.64	1,205	205
183.65	1,241	217
183.66	1,276	230
183.67	1,311	243
183.68	1,347	256
183.69	1,382	270
183.70	1,418	284
183.71	1,453	298
183.72	1,489	313
183.73	1,524	328
183.74	1,559	343
183.75	1,595	359
183.76	1,630	375
183.77	1,666	391
183.78	1,701	408
183.79	1,737	425
183.80	1,772	443
183.81	1,808	461
183.82	1,843	479
183.83	1,878	498
183.84	1,914	517
183.85	1,949	536
183.86	1,985	556
183.87	2,020	576
183.88	2,056	596
183.89	2,091	617
183.90	2,127	638
183.91	2,162	659
183.92	2,197	681
183.93	2,233	703
183.94	2,268	726
183.95	2,304	749
183.96	2,339	772
183.97	2,375	796
183.98	2,410	819
183.99	2,446	844
184.00	2,481	868
184.01	2,489	893
184.02	2,497	918
184.03	2,505	943
184.04	2,512	968
184.05	2,520	993
184.06	2,528	1,019
184.07	2,536	1,044
184.08	2,544	1,069
184.09	2,552	1,095
184.10	2,560	1,120
184.11	2,568	1,146
184.12	2,575	1,172
184.13	2,583	1,198
184.14	2,591	1,223
184.15	2,599	1,249
184.16	2,607	1,275
184.17	2,615	1,301
184.18	2,623	1,328
184.19	2,631	1,354
184.20	2,638	1,380
184.21	2,646	1,407
184.22	2,654	1,433
184.23	2,662	1,460
184.24	2,670	1,486
184.25	2,678	1,513
184.26	2,686	1,540
184.27	2,693	1,567
184.28	2,701	1,594
184.29	2,709	1,621
184.30	2,717	1,648
184.31	2,725	1,675
184.32	2,733	1,703
184.33	2,741	1,730

Stage-Area-Storage for Pond B-33: Basin #33 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
184.34	2,749	1,757
184.35	2,756	1,785
184.36	2,764	1,813
184.37	2,772	1,840
184.38	2,780	1,868
184.39	2,788	1,896
184.40	2,796	1,924
184.41	2,804	1,952
184.42	2,812	1,980
184.43	2,819	2,008
184.44	2,827	2,036
184.45	2,835	2,064
184.46	2,843	2,093
184.47	2,851	2,121
184.48	2,859	2,150
184.49	2,867	2,179
184.50	2,875	2,207
184.51	2,882	2,236
184.52	2,890	2,265
184.53	2,898	2,294
184.54	2,906	2,323
184.55	2,914	2,352
184.56	2,922	2,381
184.57	2,930	2,410
184.58	2,937	2,440
184.59	2,945	2,469
184.60	2,953	2,499
184.61	2,961	2,528
184.62	2,969	2,558
184.63	2,977	2,588
184.64	2,985	2,617
184.65	2,993	2,647
184.66	3,000	2,677
184.67	3,008	2,707
184.68	3,016	2,737
184.69	3,024	2,768
184.70	3,032	2,798
184.71	3,040	2,828
184.72	3,048	2,859
184.73	3,056	2,889
184.74	3,063	2,920
184.75	3,071	2,950
184.76	3,079	2,981
184.77	3,087	3,012
184.78	3,095	3,043
184.79	3,103	3,074
184.80	3,111	3,105
184.81	3,118	3,136
184.82	3,126	3,167
184.83	3,134	3,199
184.84	3,142	3,230
184.85	3,150	3,262
184.86	3,158	3,293
184.87	3,166	3,325
184.88	3,174	3,356
184.89	3,181	3,388
184.90	3,189	3,420
184.91	3,197	3,452
184.92	3,205	3,484
184.93	3,213	3,516
184.94	3,221	3,548
184.95	3,229	3,580
184.96	3,237	3,613
184.97	3,244	3,645
184.98	3,252	3,678
184.99	3,260	3,710
185.00	3,268	3,743
185.01	3,276	3,776
185.02	3,285	3,808
185.03	3,293	3,841
185.04	3,302	3,874
185.05	3,310	3,907
185.06	3,319	3,940
185.07	3,327	3,974
185.08	3,335	4,007
185.09	3,344	4,040
185.10	3,352	4,074
185.11	3,361	4,107
185.12	3,369	4,141
185.13	3,378	4,175
185.14	3,386	4,209
185.15	3,394	4,243
185.16	3,403	4,277
185.17	3,411	4,311
185.18	3,420	4,345
185.19	3,428	4,379
185.20	3,437	4,413
185.21	3,445	4,448
185.22	3,453	4,482
185.23	3,462	4,517
185.24	3,470	4,551
185.25	3,479	4,586
185.26	3,487	4,621
185.27	3,496	4,656
185.28	3,504	4,691
185.29	3,512	4,726
185.30	3,521	4,761
185.31	3,529	4,796
185.32	3,538	4,832
185.33	3,546	4,867
185.34	3,555	4,903
185.35	3,563	4,938
185.36	3,571	4,974
185.37	3,580	5,010

Stage-Area-Storage for Pond B-33: Basin #33 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
185.38	3,588	5,046	185.90	4,027	7,025
185.39	3,597	5,081	185.91	4,035	7,066
185.40	3,605	5,117	185.92	4,044	7,106
185.41	3,614	5,154	185.93	4,052	7,147
185.42	3,622	5,190	185.94	4,060	7,187
185.43	3,630	5,226	185.95	4,069	7,228
185.44	3,639	5,262	185.96	4,077	7,269
185.45	3,647	5,299	185.97	4,086	7,309
185.46	3,656	5,335	185.98	4,094	7,350
185.47	3,664	5,372	185.99	4,103	7,391
185.48	3,673	5,409	186.00	4,111	7,432
185.49	3,681	5,445	186.01	4,120	7,474
185.50	3,690	5,482	186.02	4,129	7,515
185.51	3,698	5,519	186.03	4,138	7,556
185.52	3,706	5,556	186.04	4,147	7,598
185.53	3,715	5,593	186.05	4,156	7,639
185.54	3,723	5,630	186.06	4,165	7,681
185.55	3,732	5,668	186.07	4,174	7,722
185.56	3,740	5,705	186.08	4,183	7,764
185.57	3,749	5,743	186.09	4,192	7,806
185.58	3,757	5,780	186.10	4,201	7,848
185.59	3,765	5,818	186.11	4,210	7,890
185.60	3,774	5,855	186.12	4,219	7,932
185.61	3,782	5,893	186.13	4,228	7,974
185.62	3,791	5,931	186.14	4,237	8,017
185.63	3,799	5,969	186.15	4,246	8,059
185.64	3,808	6,007	186.16	4,255	8,102
185.65	3,816	6,045	186.17	4,264	8,144
185.66	3,824	6,083	186.18	4,273	8,187
185.67	3,833	6,122	186.19	4,282	8,230
185.68	3,841	6,160	186.20	4,291	8,273
185.69	3,850	6,198	186.21	4,300	8,315
185.70	3,858	6,237	186.22	4,309	8,359
185.71	3,867	6,276	186.23	4,318	8,402
185.72	3,875	6,314	186.24	4,327	8,445
185.73	3,883	6,353	186.25	4,336	8,488
185.74	3,892	6,392	186.26	4,345	8,532
185.75	3,900	6,431	186.27	4,354	8,575
185.76	3,909	6,470	186.28	4,363	8,619
185.77	3,917	6,509	186.29	4,372	8,662
185.78	3,926	6,548	186.30	4,381	8,706
185.79	3,934	6,588	186.31	4,390	8,750
185.80	3,942	6,627	186.32	4,399	8,794
185.81	3,951	6,666	186.33	4,408	8,838
185.82	3,959	6,706	186.34	4,417	8,882
185.83	3,968	6,746	186.35	4,426	8,926
185.84	3,976	6,785	186.36	4,435	8,971
185.85	3,985	6,825	186.37	4,444	9,015
185.86	3,993	6,865	186.38	4,453	9,059
185.87	4,001	6,905	186.39	4,462	9,104
185.88	4,010	6,945	186.40	4,471	9,149
185.89	4,018	6,985	186.41	4,480	9,193

Stage-Area-Storage for Pond B-33: Basin #33 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
186.42	4,489	9,238	186.94	4,956	11,694
186.43	4,498	9,283	186.95	4,965	11,743
186.44	4,507	9,328	186.96	4,974	11,793
186.45	4,516	9,373	186.97	4,983	11,843
186.46	4,525	9,419	186.98	4,992	11,893
186.47	4,534	9,464	186.99	5,001	11,943
186.48	4,543	9,509	187.00	5,010	11,993
186.49	4,552	9,555	187.01	5,020	12,043
186.50	4,561	9,600	187.02	5,029	12,093
186.51	4,569	9,646	187.03	5,039	12,144
186.52	4,578	9,692	187.04	5,048	12,194
186.53	4,587	9,737	187.05	5,058	12,245
186.54	4,596	9,783	187.06	5,067	12,295
186.55	4,605	9,829	187.07	5,077	12,346
186.56	4,614	9,875	187.08	5,086	12,397
186.57	4,623	9,922	187.09	5,096	12,448
186.58	4,632	9,968	187.10	5,106	12,499
186.59	4,641	10,014	187.11	5,115	12,550
186.60	4,650	10,061	187.12	5,125	12,601
186.61	4,659	10,107	187.13	5,134	12,652
186.62	4,668	10,154	187.14	5,144	12,704
186.63	4,677	10,201	187.15	5,153	12,755
186.64	4,686	10,248	187.16	5,163	12,807
186.65	4,695	10,294	187.17	5,173	12,858
186.66	4,704	10,341	187.18	5,182	12,910
186.67	4,713	10,389	187.19	5,192	12,962
186.68	4,722	10,436	187.20	5,201	13,014
186.69	4,731	10,483	187.21	5,211	13,066
186.70	4,740	10,530	187.22	5,220	13,118
186.71	4,749	10,578	187.23	5,230	13,170
186.72	4,758	10,625	187.24	5,239	13,223
186.73	4,767	10,673	187.25	5,249	13,275
186.74	4,776	10,721	187.26	5,259	13,328
186.75	4,785	10,768	187.27	5,268	13,380
186.76	4,794	10,816	187.28	5,278	13,433
186.77	4,803	10,864	187.29	5,287	13,486
186.78	4,812	10,912	187.30	5,297	13,539
186.79	4,821	10,961	187.31	5,306	13,592
186.80	4,830	11,009	187.32	5,316	13,645
186.81	4,839	11,057	187.33	5,325	13,698
186.82	4,848	11,106	187.34	5,335	13,752
186.83	4,857	11,154	187.35	5,345	13,805
186.84	4,866	11,203	187.36	5,354	13,858
186.85	4,875	11,251	187.37	5,364	13,912
186.86	4,884	11,300	187.38	5,373	13,966
186.87	4,893	11,349	187.39	5,383	14,019
186.88	4,902	11,398	187.40	5,392	14,073
186.89	4,911	11,447	187.41	5,402	14,127
186.90	4,920	11,496	187.42	5,412	14,181
186.91	4,929	11,546	187.43	5,421	14,236
186.92	4,938	11,595	187.44	5,431	14,290
186.93	4,947	11,644	187.45	5,440	14,344

Stage-Area-Storage for Pond B-33: Basin #33 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
187.46	5,450	14,399
187.47	5,459	14,453
187.48	5,469	14,508
187.49	5,478	14,563
187.50	5,488	14,617
187.51	5,498	14,672
187.52	5,507	14,727
187.53	5,517	14,782
187.54	5,526	14,838
187.55	5,536	14,893
187.56	5,545	14,948
187.57	5,555	15,004
187.58	5,564	15,059
187.59	5,574	15,115
187.60	5,584	15,171
187.61	5,593	15,227
187.62	5,603	15,283
187.63	5,612	15,339
187.64	5,622	15,395
187.65	5,631	15,451
187.66	5,641	15,508
187.67	5,651	15,564
187.68	5,660	15,621
187.69	5,670	15,677
187.70	5,679	15,734
187.71	5,689	15,791
187.72	5,698	15,848
187.73	5,708	15,905
187.74	5,717	15,962
187.75	5,727	16,019
187.76	5,737	16,077
187.77	5,746	16,134
187.78	5,756	16,191
187.79	5,765	16,249
187.80	5,775	16,307
187.81	5,784	16,365
187.82	5,794	16,422
187.83	5,803	16,480
187.84	5,813	16,539
187.85	5,823	16,597
187.86	5,832	16,655
187.87	5,842	16,713
187.88	5,851	16,772
187.89	5,861	16,830
187.90	5,870	16,889
187.91	5,880	16,948
187.92	5,890	17,007
187.93	5,899	17,066
187.94	5,909	17,125
187.95	5,918	17,184
187.96	5,928	17,243
187.97	5,937	17,302
187.98	5,947	17,362
187.99	5,956	17,421
188.00	**5,966**	**17,481**

Summary for Pond B-34: Basin #34

Inflow Area = 1.779 ac, 23.66% Impervious, Inflow Depth = 3.02" for Current 10 yr event
Inflow = 5.62 cfs @ 12.17 hrs, Volume= 0.447 af
Outflow = 1.58 cfs @ 12.53 hrs, Volume= 0.394 af, Atten= 72%, Lag= 21.2 min
Primary = 1.58 cfs @ 12.53 hrs, Volume= 0.394 af
Routed to Link PDA-3 : Proposed Drainage Area #3

Routing by Stor-Ind method, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
Peak Elev= 192.56' @ 12.53 hrs Surf.Area= 5,905 sf Storage= 9,530 cf

Plug-Flow detention time= 417.9 min calculated for 0.394 af (88% of inflow)
Center-of-Mass det. time= 359.0 min (1,167.7 - 808.7)

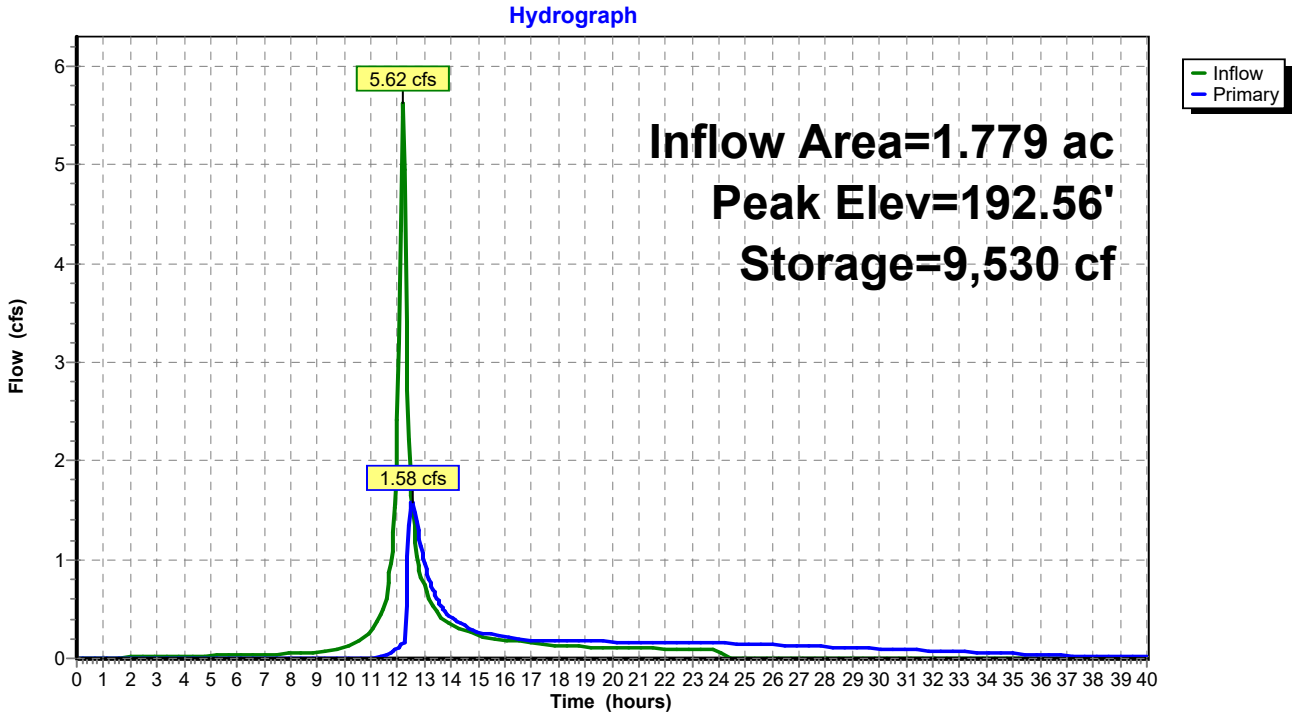
Volume	Invert	Avail.Storage	Storage Description
#1	190.30'	27,449 cf	**Custom Stage Data (Prismatic)** Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
190.30	0	0	0
191.00	4,390	1,536	1,536
192.00	5,343	4,867	6,403
193.00	6,353	5,848	12,251
194.00	7,419	6,886	19,137
195.00	9,205	8,312	27,449

Device	Routing	Invert	Outlet Devices
#1	Primary	189.65'	**18.0" Round Culvert** L= 100.0' Ke= 0.500 Inlet / Outlet Invert= 189.65' / 189.15' S= 0.0050 '/' Cc= 0.900 n= 0.013, Flow Area= 1.77 sf
#2	Device 1	191.09'	**2.5" Vert. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#3	Device 1	192.33'	**4.0' long Sharp-Crested Rectangular Weir** 2 End Contraction(s)
#4	Primary	194.25'	**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=1.58 cfs @ 12.53 hrs HW=192.56' (Free Discharge)
- **1=Culvert** (Passes 1.58 cfs of 10.73 cfs potential flow)
  - **2=Orifice/Grate** (Orifice Controls 0.19 cfs @ 5.62 fps)
  - **3=Sharp-Crested Rectangular Weir** (Weir Controls 1.39 cfs @ 1.55 fps)
- **4=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)

Pond B-34: Basin #34



Stage-Discharge for Pond B-34: Basin #34

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
190.30	0.00	190.82	0.00	191.34	0.06	191.86	0.13
190.31	0.00	190.83	0.00	191.35	0.06	191.87	0.13
190.32	0.00	190.84	0.00	191.36	0.07	191.88	0.14
190.33	0.00	190.85	0.00	191.37	0.07	191.89	0.14
190.34	0.00	190.86	0.00	191.38	0.07	191.90	0.14
190.35	0.00	190.87	0.00	191.39	0.07	191.91	0.14
190.36	0.00	190.88	0.00	191.40	0.07	191.92	0.14
190.37	0.00	190.89	0.00	191.41	0.08	191.93	0.14
190.38	0.00	190.90	0.00	191.42	0.08	191.94	0.14
190.39	0.00	190.91	0.00	191.43	0.08	191.95	0.14
190.40	0.00	190.92	0.00	191.44	0.08	191.96	0.14
190.41	0.00	190.93	0.00	191.45	0.08	191.97	0.14
190.42	0.00	190.94	0.00	191.46	0.08	191.98	0.15
190.43	0.00	190.95	0.00	191.47	0.09	191.99	0.15
190.44	0.00	190.96	0.00	191.48	0.09	192.00	0.15
190.45	0.00	190.97	0.00	191.49	0.09	192.01	0.15
190.46	0.00	190.98	0.00	191.50	0.09	192.02	0.15
190.47	0.00	190.99	0.00	191.51	0.09	192.03	0.15
190.48	0.00	191.00	0.00	191.52	0.09	192.04	0.15
190.49	0.00	191.01	0.00	191.53	0.10	192.05	0.15
190.50	0.00	191.02	0.00	191.54	0.10	192.06	0.15
190.51	0.00	191.03	0.00	191.55	0.10	192.07	0.15
190.52	0.00	191.04	0.00	191.56	0.10	192.08	0.15
190.53	0.00	191.05	0.00	191.57	0.10	192.09	0.16
190.54	0.00	191.06	0.00	191.58	0.10	192.10	0.16
190.55	0.00	191.07	0.00	191.59	0.10	192.11	0.16
190.56	0.00	191.08	0.00	191.60	0.10	192.12	0.16
190.57	0.00	191.09	0.00	191.61	0.11	192.13	0.16
190.58	0.00	191.10	0.00	191.62	0.11	192.14	0.16
190.59	0.00	191.11	0.00	191.63	0.11	192.15	0.16
190.60	0.00	191.12	0.00	191.64	0.11	192.16	0.16
190.61	0.00	191.13	0.00	191.65	0.11	192.17	0.16
190.62	0.00	191.14	0.00	191.66	0.11	192.18	0.16
190.63	0.00	191.15	0.01	191.67	0.11	192.19	0.16
190.64	0.00	191.16	0.01	191.68	0.11	192.20	0.16
190.65	0.00	191.17	0.01	191.69	0.12	192.21	0.17
190.66	0.00	191.18	0.01	191.70	0.12	192.22	0.17
190.67	0.00	191.19	0.02	191.71	0.12	192.23	0.17
190.68	0.00	191.20	0.02	191.72	0.12	192.24	0.17
190.69	0.00	191.21	0.02	191.73	0.12	192.25	0.17
190.70	0.00	191.22	0.03	191.74	0.12	192.26	0.17
190.71	0.00	191.23	0.03	191.75	0.12	192.27	0.17
190.72	0.00	191.24	0.03	191.76	0.12	192.28	0.17
190.73	0.00	191.25	0.04	191.77	0.12	192.29	0.17
190.74	0.00	191.26	0.04	191.78	0.13	192.30	0.17
190.75	0.00	191.27	0.05	191.79	0.13	192.31	0.17
190.76	0.00	191.28	0.05	191.80	0.13	192.32	0.17
190.77	0.00	191.29	0.05	191.81	0.13	192.33	0.17
190.78	0.00	191.30	0.05	191.82	0.13	192.34	0.19
190.79	0.00	191.31	0.06	191.83	0.13	192.35	0.21
190.80	0.00	191.32	0.06	191.84	0.13	192.36	0.25
190.81	0.00	191.33	0.06	191.85	0.13	192.37	0.28

Stage-Discharge for Pond B-34: Basin #34 (continued)

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
192.38	0.32	192.90	5.68	193.42	12.94	193.94	14.10
192.39	0.37	192.91	5.83	193.43	12.96	193.95	14.12
192.40	0.42	192.92	5.97	193.44	12.98	193.96	14.14
192.41	0.48	192.93	6.11	193.45	13.01	193.97	14.16
192.42	0.53	192.94	6.26	193.46	13.03	193.98	14.18
192.43	0.59	192.95	6.41	193.47	13.05	193.99	14.21
192.44	0.66	192.96	6.55	193.48	13.08	194.00	14.23
192.45	0.72	192.97	6.70	193.49	13.10	194.01	14.25
192.46	0.79	192.98	6.85	193.50	13.12	194.02	14.27
192.47	0.87	192.99	7.00	193.51	13.14	194.03	14.29
192.48	0.94	193.00	7.15	193.52	13.17	194.04	14.31
192.49	1.02	193.01	7.31	193.53	13.19	194.05	14.33
192.50	1.10	193.02	7.46	193.54	13.21	194.06	14.35
192.51	1.18	193.03	7.61	193.55	13.24	194.07	14.37
192.52	1.26	193.04	7.77	193.56	13.26	194.08	14.40
192.53	1.35	193.05	7.93	193.57	13.28	194.09	14.42
192.54	1.44	193.06	8.08	193.58	13.30	194.10	14.44
192.55	1.53	193.07	8.24	193.59	13.33	194.11	14.46
192.56	1.62	193.08	8.40	193.60	13.35	194.12	14.48
192.57	1.71	193.09	8.56	193.61	13.37	194.13	14.50
192.58	1.81	193.10	8.72	193.62	13.40	194.14	14.52
192.59	1.91	193.11	8.89	193.63	13.42	194.15	14.54
192.60	2.00	193.12	9.05	193.64	13.44	194.16	14.56
192.61	2.11	193.13	9.21	193.65	13.46	194.17	14.58
192.62	2.21	193.14	9.38	193.66	13.49	194.18	14.60
192.63	2.31	193.15	9.54	193.67	13.51	194.19	14.62
192.64	2.42	193.16	9.71	193.68	13.53	194.20	14.64
192.65	2.53	193.17	9.88	193.69	13.55	194.21	14.67
192.66	2.64	193.18	10.05	193.70	13.57	194.22	14.69
192.67	2.75	193.19	10.22	193.71	13.60	194.23	14.71
192.68	2.86	193.20	10.38	193.72	13.62	194.24	14.73
192.69	2.98	193.21	10.56	193.73	13.64	194.25	14.75
192.70	3.09	193.22	10.73	193.74	13.66	194.26	14.89
192.71	3.21	193.23	10.90	193.75	13.69	194.27	15.12
192.72	3.33	193.24	11.07	193.76	13.71	194.28	15.42
192.73	3.45	193.25	11.25	193.77	13.73	194.29	15.77
192.74	3.57	193.26	11.42	193.78	13.75	194.30	16.16
192.75	3.69	193.27	11.60	193.79	13.77	194.31	16.59
192.76	3.81	193.28	11.77	193.80	13.80	194.32	17.06
192.77	3.94	193.29	11.95	193.81	13.82	194.33	17.57
192.78	4.07	193.30	12.13	193.82	13.84	194.34	18.10
192.79	4.19	193.31	12.31	193.83	13.86	194.35	18.67
192.80	4.32	193.32	12.49	193.84	13.88	194.36	19.26
192.81	4.45	193.33	12.67	193.85	13.90	194.37	19.88
192.82	4.59	193.34	12.75	193.86	13.93	194.38	20.53
192.83	4.72	193.35	12.77	193.87	13.95	194.39	21.20
192.84	4.85	193.36	12.80	193.88	13.97	194.40	21.90
192.85	4.99	193.37	12.82	193.89	13.99	194.41	22.62
192.86	5.12	193.38	12.84	193.90	14.01	194.42	23.36
192.87	5.26	193.39	12.87	193.91	14.03	194.43	24.12
192.88	5.40	193.40	12.89	193.92	14.06	194.44	24.91
192.89	5.54	193.41	12.91	193.93	14.08	194.45	25.72

Stage-Discharge for Pond B-34: Basin #34 (continued)

Elevation (feet)	Primary (cfs)
194.46	26.58
194.47	27.48
194.48	28.39
194.49	29.34
194.50	30.30
194.51	31.30
194.52	32.32
194.53	33.36
194.54	34.43
194.55	35.52
194.56	36.64
194.57	37.78
194.58	38.94
194.59	40.13
194.60	41.34
194.61	42.58
194.62	43.84
194.63	45.13
194.64	46.44
194.65	47.78
194.66	49.16
194.67	50.57
194.68	52.01
194.69	53.47
194.70	54.96
194.71	56.48
194.72	58.02
194.73	59.59
194.74	61.18
194.75	62.80
194.76	64.45
194.77	66.12
194.78	67.83
194.79	69.55
194.80	71.31
194.81	73.09
194.82	74.89
194.83	76.73
194.84	78.59
194.85	80.48
194.86	82.12
194.87	83.78
194.88	85.46
194.89	87.14
194.90	88.84
194.91	90.56
194.92	92.28
194.93	94.02
194.94	95.77
194.95	97.54
194.96	99.31
194.97	101.10
194.98	102.91
194.99	104.72
195.00	**106.55**

Stage-Area-Storage for Pond B-34: Basin #34

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
190.30	0	0	190.82	3,261	848
190.31	63	0	190.83	3,324	881
190.32	125	1	190.84	3,387	914
190.33	188	3	190.85	3,449	949
190.34	251	5	190.86	3,512	983
190.35	314	8	190.87	3,575	1,019
190.36	376	11	190.88	3,637	1,055
190.37	439	15	190.89	3,700	1,092
190.38	502	20	190.90	3,763	1,129
190.39	564	25	190.91	3,826	1,167
190.40	627	31	190.92	3,888	1,205
190.41	690	38	190.93	3,951	1,245
190.42	753	45	190.94	4,014	1,284
190.43	815	53	190.95	4,076	1,325
190.44	878	61	190.96	4,139	1,366
190.45	941	71	190.97	4,202	1,408
190.46	1,003	80	190.98	4,265	1,450
190.47	1,066	91	190.99	4,327	1,493
190.48	1,129	102	191.00	4,390	1,536
190.49	1,192	113	191.01	4,400	1,580
190.50	1,254	125	191.02	4,409	1,624
190.51	1,317	138	191.03	4,419	1,669
190.52	1,380	152	191.04	4,428	1,713
190.53	1,442	166	191.05	4,438	1,757
190.54	1,505	181	191.06	4,447	1,802
190.55	1,568	196	191.07	4,457	1,846
190.56	1,631	212	191.08	4,466	1,891
190.57	1,693	229	191.09	4,476	1,935
190.58	1,756	246	191.10	4,485	1,980
190.59	1,819	264	191.11	4,495	2,025
190.60	1,881	282	191.12	4,504	2,070
190.61	1,944	301	191.13	4,514	2,115
190.62	2,007	321	191.14	4,523	2,160
190.63	2,070	341	191.15	4,533	2,206
190.64	2,132	362	191.16	4,542	2,251
190.65	2,195	384	191.17	4,552	2,297
190.66	2,258	406	191.18	4,562	2,342
190.67	2,320	429	191.19	4,571	2,388
190.68	2,383	453	191.20	4,581	2,434
190.69	2,446	477	191.21	4,590	2,479
190.70	2,509	502	191.22	4,600	2,525
190.71	2,571	527	191.23	4,609	2,571
190.72	2,634	553	191.24	4,619	2,618
190.73	2,697	580	191.25	4,628	2,664
190.74	2,759	607	191.26	4,638	2,710
190.75	2,822	635	191.27	4,647	2,757
190.76	2,885	664	191.28	4,657	2,803
190.77	2,948	693	191.29	4,666	2,850
190.78	3,010	722	191.30	4,676	2,896
190.79	3,073	753	191.31	4,685	2,943
190.80	3,136	784	191.32	4,695	2,990
190.81	3,198	816	191.33	4,704	3,037

Stage-Area-Storage for Pond B-34: Basin #34 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
191.34	4,714	3,084	191.86	5,210	5,664
191.35	4,724	3,131	191.87	5,219	5,716
191.36	4,733	3,179	191.88	5,229	5,769
191.37	4,743	3,226	191.89	5,238	5,821
191.38	4,752	3,274	191.90	5,248	5,873
191.39	4,762	3,321	191.91	5,257	5,926
191.40	4,771	3,369	191.92	5,267	5,979
191.41	4,781	3,416	191.93	5,276	6,031
191.42	4,790	3,464	191.94	5,286	6,084
191.43	4,800	3,512	191.95	5,295	6,137
191.44	4,809	3,560	191.96	5,305	6,190
191.45	4,819	3,608	191.97	5,314	6,243
191.46	4,828	3,657	191.98	5,324	6,296
191.47	4,838	3,705	191.99	5,333	6,350
191.48	4,847	3,753	192.00	5,343	6,403
191.49	4,857	3,802	192.01	5,353	6,456
191.50	4,867	3,851	192.02	5,363	6,510
191.51	4,876	3,899	192.03	5,373	6,564
191.52	4,886	3,948	192.04	5,383	6,618
191.53	4,895	3,997	192.05	5,394	6,671
191.54	4,905	4,046	192.06	5,404	6,725
191.55	4,914	4,095	192.07	5,414	6,779
191.56	4,924	4,144	192.08	5,424	6,834
191.57	4,933	4,194	192.09	5,434	6,888
191.58	4,943	4,243	192.10	5,444	6,942
191.59	4,952	4,292	192.11	5,454	6,997
191.60	4,962	4,342	192.12	5,464	7,051
191.61	4,971	4,392	192.13	5,474	7,106
191.62	4,981	4,441	192.14	5,484	7,161
191.63	4,990	4,491	192.15	5,495	7,216
191.64	5,000	4,541	192.16	5,505	7,271
191.65	5,009	4,591	192.17	5,515	7,326
191.66	5,019	4,641	192.18	5,525	7,381
191.67	5,029	4,692	192.19	5,535	7,436
191.68	5,038	4,742	192.20	5,545	7,492
191.69	5,048	4,792	192.21	5,555	7,547
191.70	5,057	4,843	192.22	5,565	7,603
191.71	5,067	4,894	192.23	5,575	7,659
191.72	5,076	4,944	192.24	5,585	7,714
191.73	5,086	4,995	192.25	5,596	7,770
191.74	5,095	5,046	192.26	5,606	7,826
191.75	5,105	5,097	192.27	5,616	7,882
191.76	5,114	5,148	192.28	5,626	7,939
191.77	5,124	5,199	192.29	5,636	7,995
191.78	5,133	5,251	192.30	5,646	8,051
191.79	5,143	5,302	192.31	5,656	8,108
191.80	5,152	5,353	192.32	5,666	8,164
191.81	5,162	5,405	192.33	5,676	8,221
191.82	5,171	5,457	192.34	5,686	8,278
191.83	5,181	5,508	192.35	5,697	8,335
191.84	5,191	5,560	192.36	5,707	8,392
191.85	5,200	5,612	192.37	5,717	8,449

Stage-Area-Storage for Pond B-34: Basin #34 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
192.38	5,727	8,506	192.90	6,252	11,621
192.39	5,737	8,564	192.91	6,262	11,683
192.40	5,747	8,621	192.92	6,272	11,746
192.41	5,757	8,679	192.93	6,282	11,809
192.42	5,767	8,736	192.94	6,292	11,872
192.43	5,777	8,794	192.95	6,303	11,935
192.44	5,787	8,852	192.96	6,313	11,998
192.45	5,798	8,910	192.97	6,323	12,061
192.46	5,808	8,968	192.98	6,333	12,124
192.47	5,818	9,026	192.99	6,343	12,188
192.48	5,828	9,084	193.00	6,353	12,251
192.49	5,838	9,142	193.01	6,364	12,315
192.50	5,848	9,201	193.02	6,374	12,378
192.51	5,858	9,259	193.03	6,385	12,442
192.52	5,868	9,318	193.04	6,396	12,506
192.53	5,878	9,377	193.05	6,406	12,570
192.54	5,888	9,435	193.06	6,417	12,634
192.55	5,899	9,494	193.07	6,428	12,698
192.56	5,909	9,553	193.08	6,438	12,763
192.57	5,919	9,613	193.09	6,449	12,827
192.58	5,929	9,672	193.10	6,460	12,892
192.59	5,939	9,731	193.11	6,470	12,956
192.60	5,949	9,791	193.12	6,481	13,021
192.61	5,959	9,850	193.13	6,492	13,086
192.62	5,969	9,910	193.14	6,502	13,151
192.63	5,979	9,970	193.15	6,513	13,216
192.64	5,989	10,029	193.16	6,524	13,281
192.65	6,000	10,089	193.17	6,534	13,346
192.66	6,010	10,149	193.18	6,545	13,412
192.67	6,020	10,210	193.19	6,556	13,477
192.68	6,030	10,270	193.20	6,566	13,543
192.69	6,040	10,330	193.21	6,577	13,609
192.70	6,050	10,391	193.22	6,588	13,674
192.71	6,060	10,451	193.23	6,598	13,740
192.72	6,070	10,512	193.24	6,609	13,806
192.73	6,080	10,573	193.25	6,620	13,873
192.74	6,090	10,633	193.26	6,630	13,939
192.75	6,101	10,694	193.27	6,641	14,005
192.76	6,111	10,755	193.28	6,651	14,072
192.77	6,121	10,817	193.29	6,662	14,138
192.78	6,131	10,878	193.30	6,673	14,205
192.79	6,141	10,939	193.31	6,683	14,272
192.80	6,151	11,001	193.32	6,694	14,339
192.81	6,161	11,062	193.33	6,705	14,406
192.82	6,171	11,124	193.34	6,715	14,473
192.83	6,181	11,186	193.35	6,726	14,540
192.84	6,191	11,247	193.36	6,737	14,607
192.85	6,202	11,309	193.37	6,747	14,675
192.86	6,212	11,371	193.38	6,758	14,742
192.87	6,222	11,434	193.39	6,769	14,810
192.88	6,232	11,496	193.40	6,779	14,877
192.89	6,242	11,558	193.41	6,790	14,945

Stage-Area-Storage for Pond B-34: Basin #34 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
193.42	6,801	15,013
193.43	6,811	15,081
193.44	6,822	15,150
193.45	6,833	15,218
193.46	6,843	15,286
193.47	6,854	15,355
193.48	6,865	15,423
193.49	6,875	15,492
193.50	6,886	15,561
193.51	6,897	15,630
193.52	6,907	15,699
193.53	6,918	15,768
193.54	6,929	15,837
193.55	6,939	15,906
193.56	6,950	15,976
193.57	6,961	16,045
193.58	6,971	16,115
193.59	6,982	16,185
193.60	6,993	16,255
193.61	7,003	16,325
193.62	7,014	16,395
193.63	7,025	16,465
193.64	7,035	16,535
193.65	7,046	16,606
193.66	7,057	16,676
193.67	7,067	16,747
193.68	7,078	16,817
193.69	7,089	16,888
193.70	7,099	16,959
193.71	7,110	17,030
193.72	7,121	17,101
193.73	7,131	17,173
193.74	7,142	17,244
193.75	7,153	17,316
193.76	7,163	17,387
193.77	7,174	17,459
193.78	7,184	17,531
193.79	7,195	17,603
193.80	7,206	17,675
193.81	7,216	17,747
193.82	7,227	17,819
193.83	7,238	17,891
193.84	7,248	17,964
193.85	7,259	18,036
193.86	7,270	18,109
193.87	7,280	18,182
193.88	7,291	18,254
193.89	7,302	18,327
193.90	7,312	18,400
193.91	7,323	18,474
193.92	7,334	18,547
193.93	7,344	18,620
193.94	7,355	18,694
193.95	7,366	18,767
193.96	7,376	18,841
193.97	7,387	18,915
193.98	7,398	18,989
193.99	7,408	19,063
194.00	7,419	19,137
194.01	7,437	19,211
194.02	7,455	19,286
194.03	7,473	19,360
194.04	7,490	19,435
194.05	7,508	19,510
194.06	7,526	19,585
194.07	7,544	19,661
194.08	7,562	19,736
194.09	7,580	19,812
194.10	7,598	19,888
194.11	7,615	19,964
194.12	7,633	20,040
194.13	7,651	20,117
194.14	7,669	20,193
194.15	7,687	20,270
194.16	7,705	20,347
194.17	7,723	20,424
194.18	7,740	20,501
194.19	7,758	20,579
194.20	7,776	20,657
194.21	7,794	20,734
194.22	7,812	20,812
194.23	7,830	20,891
194.24	7,848	20,969
194.25	7,866	21,048
194.26	7,883	21,126
194.27	7,901	21,205
194.28	7,919	21,284
194.29	7,937	21,364
194.30	7,955	21,443
194.31	7,973	21,523
194.32	7,991	21,603
194.33	8,008	21,683
194.34	8,026	21,763
194.35	8,044	21,843
194.36	8,062	21,924
194.37	8,080	22,004
194.38	8,098	22,085
194.39	8,116	22,166
194.40	8,133	22,247
194.41	8,151	22,329
194.42	8,169	22,411
194.43	8,187	22,492
194.44	8,205	22,574
194.45	8,223	22,656

Stage-Area-Storage for Pond B-34: Basin #34 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
194.46	8,241	22,739
194.47	8,258	22,821
194.48	8,276	22,904
194.49	8,294	22,987
194.50	8,312	23,070
194.51	8,330	23,153
194.52	8,348	23,236
194.53	8,366	23,320
194.54	8,383	23,404
194.55	8,401	23,488
194.56	8,419	23,572
194.57	8,437	23,656
194.58	8,455	23,740
194.59	8,473	23,825
194.60	8,491	23,910
194.61	8,508	23,995
194.62	8,526	24,080
194.63	8,544	24,165
194.64	8,562	24,251
194.65	8,580	24,337
194.66	8,598	24,423
194.67	8,616	24,509
194.68	8,633	24,595
194.69	8,651	24,681
194.70	8,669	24,768
194.71	8,687	24,855
194.72	8,705	24,942
194.73	8,723	25,029
194.74	8,741	25,116
194.75	8,759	25,204
194.76	8,776	25,291
194.77	8,794	25,379
194.78	8,812	25,467
194.79	8,830	25,555
194.80	8,848	25,644
194.81	8,866	25,732
194.82	8,884	25,821
194.83	8,901	25,910
194.84	8,919	25,999
194.85	8,937	26,088
194.86	8,955	26,178
194.87	8,973	26,267
194.88	8,991	26,357
194.89	9,009	26,447
194.90	9,026	26,537
194.91	9,044	26,628
194.92	9,062	26,718
194.93	9,080	26,809
194.94	9,098	26,900
194.95	9,116	26,991
194.96	9,134	27,082
194.97	9,151	27,174
194.98	9,169	27,265
194.99	9,187	27,357
195.00	**9,205**	**27,449**

Summary for Pond B-35: Basin #35

Inflow Area = 1.957 ac, 66.79% Impervious, Inflow Depth = 4.06" for Current 10 yr event
Inflow = 7.82 cfs @ 12.17 hrs, Volume= 0.662 af
Outflow = 2.90 cfs @ 12.41 hrs, Volume= 0.544 af, Atten= 63%, Lag= 14.4 min
Primary = 2.90 cfs @ 12.41 hrs, Volume= 0.544 af
Routed to Link PDA-3 : Proposed Drainage Area #3

Routing by Stor-Ind method, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
Peak Elev= 193.37' @ 12.41 hrs Surf.Area= 6,141 sf Storage= 14,853 cf

Plug-Flow detention time= 296.6 min calculated for 0.543 af (82% of inflow)
Center-of-Mass det. time= 221.2 min (991.7 - 770.5)

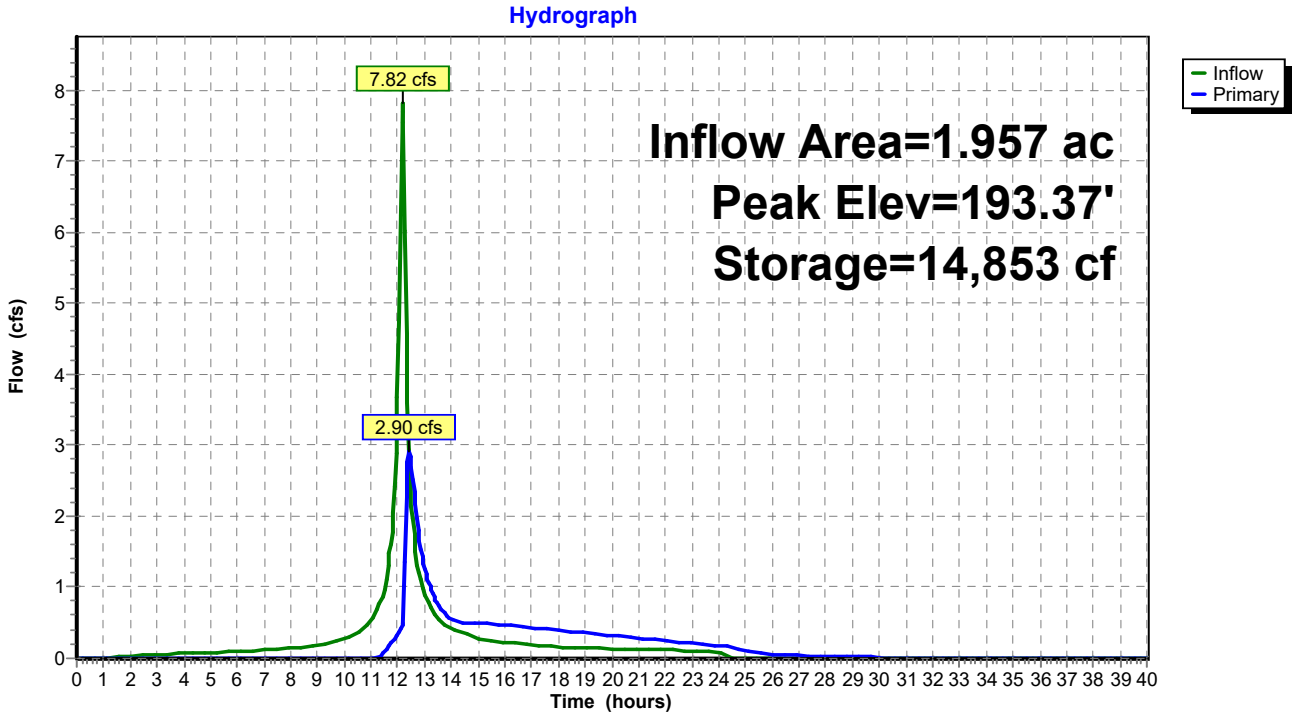
Volume	Invert	Avail.Storage	Storage Description
#1	189.80'	26,431 cf	**Custom Stage Data (Prismatic)** Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
189.80	0	0	0
190.00	2,647	265	265
191.00	3,593	3,120	3,385
192.00	4,618	4,106	7,490
193.00	5,711	5,165	12,655
194.00	6,871	6,291	18,946
195.00	8,099	7,485	26,431

Device	Routing	Invert	Outlet Devices
#1	Primary	189.80'	**18.0" Round Culvert** L= 103.0' Ke= 0.500 Inlet / Outlet Invert= 189.80' / 189.30' S= 0.0049 '/' Cc= 0.900 n= 0.013, Flow Area= 1.77 sf
#2	Device 1	191.44'	**4.0" Vert. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#3	Device 1	193.05'	**4.0' long Sharp-Crested Rectangular Weir** 2 End Contraction(s)
#4	Primary	194.50'	**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=2.88 cfs @ 12.41 hrs HW=193.37' (Free Discharge)
- **1=Culvert** (Passes 2.88 cfs of 12.36 cfs potential flow)
  - **2=Orifice/Grate** (Orifice Controls 0.56 cfs @ 6.39 fps)
  - **3=Sharp-Crested Rectangular Weir** (Weir Controls 2.32 cfs @ 1.85 fps)
- **4=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)

Pond B-35: Basin #35



Stage-Discharge for Pond B-35: Basin #35

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
189.80	0.00	190.32	0.00	190.84	0.00	191.36	0.00
189.81	0.00	190.33	0.00	190.85	0.00	191.37	0.00
189.82	0.00	190.34	0.00	190.86	0.00	191.38	0.00
189.83	0.00	190.35	0.00	190.87	0.00	191.39	0.00
189.84	0.00	190.36	0.00	190.88	0.00	191.40	0.00
189.85	0.00	190.37	0.00	190.89	0.00	191.41	0.00
189.86	0.00	190.38	0.00	190.90	0.00	191.42	0.00
189.87	0.00	190.39	0.00	190.91	0.00	191.43	0.00
189.88	0.00	190.40	0.00	190.92	0.00	191.44	0.00
189.89	0.00	190.41	0.00	190.93	0.00	191.45	0.00
189.90	0.00	190.42	0.00	190.94	0.00	191.46	0.00
189.91	0.00	190.43	0.00	190.95	0.00	191.47	0.00
189.92	0.00	190.44	0.00	190.96	0.00	191.48	0.00
189.93	0.00	190.45	0.00	190.97	0.00	191.49	0.01
189.94	0.00	190.46	0.00	190.98	0.00	191.50	0.01
189.95	0.00	190.47	0.00	190.99	0.00	191.51	0.01
189.96	0.00	190.48	0.00	191.00	0.00	191.52	0.02
189.97	0.00	190.49	0.00	191.01	0.00	191.53	0.02
189.98	0.00	190.50	0.00	191.02	0.00	191.54	0.02
189.99	0.00	190.51	0.00	191.03	0.00	191.55	0.03
190.00	0.00	190.52	0.00	191.04	0.00	191.56	0.03
190.01	0.00	190.53	0.00	191.05	0.00	191.57	0.04
190.02	0.00	190.54	0.00	191.06	0.00	191.58	0.04
190.03	0.00	190.55	0.00	191.07	0.00	191.59	0.05
190.04	0.00	190.56	0.00	191.08	0.00	191.60	0.06
190.05	0.00	190.57	0.00	191.09	0.00	191.61	0.06
190.06	0.00	190.58	0.00	191.10	0.00	191.62	0.07
190.07	0.00	190.59	0.00	191.11	0.00	191.63	0.08
190.08	0.00	190.60	0.00	191.12	0.00	191.64	0.08
190.09	0.00	190.61	0.00	191.13	0.00	191.65	0.09
190.10	0.00	190.62	0.00	191.14	0.00	191.66	0.10
190.11	0.00	190.63	0.00	191.15	0.00	191.67	0.10
190.12	0.00	190.64	0.00	191.16	0.00	191.68	0.11
190.13	0.00	190.65	0.00	191.17	0.00	191.69	0.12
190.14	0.00	190.66	0.00	191.18	0.00	191.70	0.13
190.15	0.00	190.67	0.00	191.19	0.00	191.71	0.13
190.16	0.00	190.68	0.00	191.20	0.00	191.72	0.14
190.17	0.00	190.69	0.00	191.21	0.00	191.73	0.15
190.18	0.00	190.70	0.00	191.22	0.00	191.74	0.15
190.19	0.00	190.71	0.00	191.23	0.00	191.75	0.16
190.20	0.00	190.72	0.00	191.24	0.00	191.76	0.17
190.21	0.00	190.73	0.00	191.25	0.00	191.77	0.17
190.22	0.00	190.74	0.00	191.26	0.00	191.78	0.17
190.23	0.00	190.75	0.00	191.27	0.00	191.79	0.18
190.24	0.00	190.76	0.00	191.28	0.00	191.80	0.18
190.25	0.00	190.77	0.00	191.29	0.00	191.81	0.19
190.26	0.00	190.78	0.00	191.30	0.00	191.82	0.19
190.27	0.00	190.79	0.00	191.31	0.00	191.83	0.20
190.28	0.00	190.80	0.00	191.32	0.00	191.84	0.20
190.29	0.00	190.81	0.00	191.33	0.00	191.85	0.21
190.30	0.00	190.82	0.00	191.34	0.00	191.86	0.21
190.31	0.00	190.83	0.00	191.35	0.00	191.87	0.22

Stage-Discharge for Pond B-35: Basin #35 (continued)

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
191.88	0.22	192.40	0.37	192.92	0.48	193.44	3.69
191.89	0.22	192.41	0.38	192.93	0.48	193.45	3.81
191.90	0.23	192.42	0.38	192.94	0.49	193.46	3.94
191.91	0.23	192.43	0.38	192.95	0.49	193.47	4.06
191.92	0.24	192.44	0.38	192.96	0.49	193.48	4.18
191.93	0.24	192.45	0.39	192.97	0.49	193.49	4.31
191.94	0.24	192.46	0.39	192.98	0.49	193.50	4.44
191.95	0.25	192.47	0.39	192.99	0.49	193.51	4.57
191.96	0.25	192.48	0.39	193.00	0.50	193.52	4.70
191.97	0.25	192.49	0.39	193.01	0.50	193.53	4.83
191.98	0.26	192.50	0.40	193.02	0.50	193.54	4.96
191.99	0.26	192.51	0.40	193.03	0.50	193.55	5.09
192.00	0.26	192.52	0.40	193.04	0.50	193.56	5.23
192.01	0.27	192.53	0.40	193.05	0.50	193.57	5.37
192.02	0.27	192.54	0.41	193.06	0.52	193.58	5.50
192.03	0.27	192.55	0.41	193.07	0.55	193.59	5.64
192.04	0.28	192.56	0.41	193.08	0.58	193.60	5.78
192.05	0.28	192.57	0.41	193.09	0.62	193.61	5.92
192.06	0.28	192.58	0.41	193.10	0.66	193.62	6.06
192.07	0.29	192.59	0.42	193.11	0.71	193.63	6.21
192.08	0.29	192.60	0.42	193.12	0.76	193.64	6.35
192.09	0.29	192.61	0.42	193.13	0.81	193.65	6.50
192.10	0.30	192.62	0.42	193.14	0.87	193.66	6.64
192.11	0.30	192.63	0.43	193.15	0.93	193.67	6.79
192.12	0.30	192.64	0.43	193.16	1.00	193.68	6.94
192.13	0.30	192.65	0.43	193.17	1.07	193.69	7.09
192.14	0.31	192.66	0.43	193.18	1.14	193.70	7.24
192.15	0.31	192.67	0.43	193.19	1.21	193.71	7.39
192.16	0.31	192.68	0.44	193.20	1.28	193.72	7.54
192.17	0.32	192.69	0.44	193.21	1.36	193.73	7.70
192.18	0.32	192.70	0.44	193.22	1.44	193.74	7.85
192.19	0.32	192.71	0.44	193.23	1.53	193.75	8.01
192.20	0.32	192.72	0.44	193.24	1.61	193.76	8.16
192.21	0.33	192.73	0.45	193.25	1.70	193.77	8.32
192.22	0.33	192.74	0.45	193.26	1.79	193.78	8.48
192.23	0.33	192.75	0.45	193.27	1.88	193.79	8.64
192.24	0.33	192.76	0.45	193.28	1.97	193.80	8.80
192.25	0.34	192.77	0.45	193.29	2.06	193.81	8.96
192.26	0.34	192.78	0.46	193.30	2.16	193.82	9.12
192.27	0.34	192.79	0.46	193.31	2.26	193.83	9.29
192.28	0.34	192.80	0.46	193.32	2.36	193.84	9.45
192.29	0.35	192.81	0.46	193.33	2.46	193.85	9.61
192.30	0.35	192.82	0.46	193.34	2.57	193.86	9.78
192.31	0.35	192.83	0.46	193.35	2.67	193.87	9.95
192.32	0.35	192.84	0.47	193.36	2.78	193.88	10.11
192.33	0.36	192.85	0.47	193.37	2.89	193.89	10.28
192.34	0.36	192.86	0.47	193.38	3.00	193.90	10.45
192.35	0.36	192.87	0.47	193.39	3.11	193.91	10.62
192.36	0.36	192.88	0.47	193.40	3.22	193.92	10.79
192.37	0.37	192.89	0.48	193.41	3.34	193.93	10.96
192.38	0.37	192.90	0.48	193.42	3.46	193.94	11.14
192.39	0.37	192.91	0.48	193.43	3.57	193.95	11.31

Stage-Discharge for Pond B-35: Basin #35 (continued)

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
193.96	11.48	194.48	14.79	195.00	**62.86**
193.97	11.66	194.49	14.81		
193.98	11.83	194.50	14.83		
193.99	12.01	194.51	14.97		
194.00	12.19	194.52	15.20		
194.01	12.36	194.53	15.50		
194.02	12.54	194.54	15.85		
194.03	12.72	194.55	16.24		
194.04	12.90	194.56	16.67		
194.05	13.08	194.57	17.14		
194.06	13.26	194.58	17.65		
194.07	13.45	194.59	18.18		
194.08	13.63	194.60	18.75		
194.09	13.81	194.61	19.34		
194.10	14.00	194.62	19.96		
194.11	14.03	194.63	20.61		
194.12	14.05	194.64	21.28		
194.13	14.07	194.65	21.97		
194.14	14.09	194.66	22.69		
194.15	14.11	194.67	23.43		
194.16	14.13	194.68	24.20		
194.17	14.15	194.69	24.98		
194.18	14.17	194.70	25.79		
194.19	14.19	194.71	26.66		
194.20	14.22	194.72	27.55		
194.21	14.24	194.73	28.47		
194.22	14.26	194.74	29.41		
194.23	14.28	194.75	30.38		
194.24	14.30	194.76	31.37		
194.25	14.32	194.77	32.39		
194.26	14.34	194.78	33.43		
194.27	14.36	194.79	34.50		
194.28	14.38	194.80	35.59		
194.29	14.40	194.81	36.70		
194.30	14.42	194.82	37.84		
194.31	14.44	194.83	39.01		
194.32	14.46	194.84	40.20		
194.33	14.48	194.85	41.41		
194.34	14.51	194.86	42.65		
194.35	14.53	194.87	43.91		
194.36	14.55	194.88	45.20		
194.37	14.57	194.89	46.51		
194.38	14.59	194.90	47.84		
194.39	14.61	194.91	49.23		
194.40	14.63	194.92	50.64		
194.41	14.65	194.93	52.07		
194.42	14.67	194.94	53.54		
194.43	14.69	194.95	55.02		
194.44	14.71	194.96	56.54		
194.45	14.73	194.97	58.08		
194.46	14.75	194.98	59.65		
194.47	14.77	194.99	61.24		

Stage-Area-Storage for Pond B-35: Basin #35

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
189.80	0	0
189.81	132	1
189.82	265	3
189.83	397	6
189.84	529	11
189.85	662	17
189.86	794	24
189.87	926	32
189.88	1,059	42
189.89	1,191	54
189.90	1,324	66
189.91	1,456	80
189.92	1,588	95
189.93	1,721	112
189.94	1,853	130
189.95	1,985	149
189.96	2,118	169
189.97	2,250	191
189.98	2,382	214
189.99	2,515	239
190.00	2,647	265
190.01	2,656	291
190.02	2,666	318
190.03	2,675	345
190.04	2,685	371
190.05	2,694	398
190.06	2,704	425
190.07	2,713	452
190.08	2,723	479
190.09	2,732	507
190.10	2,742	534
190.11	2,751	562
190.12	2,761	589
190.13	2,770	617
190.14	2,779	645
190.15	2,789	672
190.16	2,798	700
190.17	2,808	728
190.18	2,817	756
190.19	2,827	785
190.20	2,836	813
190.21	2,846	841
190.22	2,855	870
190.23	2,865	899
190.24	2,874	927
190.25	2,884	956
190.26	2,893	985
190.27	2,902	1,014
190.28	2,912	1,043
190.29	2,921	1,072
190.30	2,931	1,101
190.31	2,940	1,131
190.32	2,950	1,160
190.33	2,959	1,190
190.34	2,969	1,219
190.35	2,978	1,249
190.36	2,988	1,279
190.37	2,997	1,309
190.38	3,006	1,339
190.39	3,016	1,369
190.40	3,025	1,399
190.41	3,035	1,429
190.42	3,044	1,460
190.43	3,054	1,490
190.44	3,063	1,521
190.45	3,073	1,552
190.46	3,082	1,582
190.47	3,092	1,613
190.48	3,101	1,644
190.49	3,111	1,675
190.50	3,120	1,706
190.51	3,129	1,738
190.52	3,139	1,769
190.53	3,148	1,800
190.54	3,158	1,832
190.55	3,167	1,864
190.56	3,177	1,895
190.57	3,186	1,927
190.58	3,196	1,959
190.59	3,205	1,991
190.60	3,215	2,023
190.61	3,224	2,055
190.62	3,234	2,088
190.63	3,243	2,120
190.64	3,252	2,153
190.65	3,262	2,185
190.66	3,271	2,218
190.67	3,281	2,251
190.68	3,290	2,283
190.69	3,300	2,316
190.70	3,309	2,349
190.71	3,319	2,383
190.72	3,328	2,416
190.73	3,338	2,449
190.74	3,347	2,482
190.75	3,357	2,516
190.76	3,366	2,550
190.77	3,375	2,583
190.78	3,385	2,617
190.79	3,394	2,651
190.80	3,404	2,685
190.81	3,413	2,719
190.82	3,423	2,753
190.83	3,432	2,788

Stage-Area-Storage for Pond B-35: Basin #35 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
190.84	3,442	2,822	191.36	3,962	4,745
190.85	3,451	2,856	191.37	3,972	4,784
190.86	3,461	2,891	191.38	3,983	4,824
190.87	3,470	2,926	191.39	3,993	4,864
190.88	3,479	2,960	191.40	4,003	4,904
190.89	3,489	2,995	191.41	4,013	4,944
190.90	3,498	3,030	191.42	4,024	4,984
190.91	3,508	3,065	191.43	4,034	5,024
190.92	3,517	3,100	191.44	4,044	5,065
190.93	3,527	3,136	191.45	4,054	5,105
190.94	3,536	3,171	191.46	4,065	5,146
190.95	3,546	3,206	191.47	4,075	5,187
190.96	3,555	3,242	191.48	4,085	5,227
190.97	3,565	3,277	191.49	4,095	5,268
190.98	3,574	3,313	191.50	4,106	5,309
190.99	3,584	3,349	191.51	4,116	5,350
191.00	3,593	3,385	191.52	4,126	5,392
191.01	3,603	3,421	191.53	4,136	5,433
191.02	3,614	3,457	191.54	4,147	5,474
191.03	3,624	3,493	191.55	4,157	5,516
191.04	3,634	3,529	191.56	4,167	5,557
191.05	3,644	3,566	191.57	4,177	5,599
191.06	3,655	3,602	191.58	4,188	5,641
191.07	3,665	3,639	191.59	4,198	5,683
191.08	3,675	3,675	191.60	4,208	5,725
191.09	3,685	3,712	191.61	4,218	5,767
191.10	3,696	3,749	191.62	4,229	5,809
191.11	3,706	3,786	191.63	4,239	5,852
191.12	3,716	3,823	191.64	4,249	5,894
191.13	3,726	3,860	191.65	4,259	5,937
191.14	3,737	3,898	191.66	4,270	5,979
191.15	3,747	3,935	191.67	4,280	6,022
191.16	3,757	3,973	191.68	4,290	6,065
191.17	3,767	4,010	191.69	4,300	6,108
191.18	3,778	4,048	191.70	4,311	6,151
191.19	3,788	4,086	191.71	4,321	6,194
191.20	3,798	4,124	191.72	4,331	6,237
191.21	3,808	4,162	191.73	4,341	6,281
191.22	3,818	4,200	191.74	4,352	6,324
191.23	3,829	4,238	191.75	4,362	6,368
191.24	3,839	4,277	191.76	4,372	6,411
191.25	3,849	4,315	191.77	4,382	6,455
191.26	3,860	4,354	191.78	4,393	6,499
191.27	3,870	4,392	191.79	4,403	6,543
191.28	3,880	4,431	191.80	4,413	6,587
191.29	3,890	4,470	191.81	4,423	6,631
191.30	3,901	4,509	191.82	4,434	6,676
191.31	3,911	4,548	191.83	4,444	6,720
191.32	3,921	4,587	191.84	4,454	6,764
191.33	3,931	4,626	191.85	4,464	6,809
191.34	3,942	4,666	191.86	4,475	6,854
191.35	3,952	4,705	191.87	4,485	6,899

Stage-Area-Storage for Pond B-35: Basin #35 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
191.88	4,495	6,943	192.40	5,055	9,425
191.89	4,505	6,988	192.41	5,066	9,475
191.90	4,516	7,034	192.42	5,077	9,526
191.91	4,526	7,079	192.43	5,088	9,577
191.92	4,536	7,124	192.44	5,099	9,628
191.93	4,546	7,169	192.45	5,110	9,679
191.94	4,556	7,215	192.46	5,121	9,730
191.95	4,567	7,261	192.47	5,132	9,781
191.96	4,577	7,306	192.48	5,143	9,833
191.97	4,587	7,352	192.49	5,154	9,884
191.98	4,598	7,398	192.50	5,165	9,936
191.99	4,608	7,444	192.51	5,175	9,988
192.00	4,618	7,490	192.52	5,186	10,039
192.01	4,629	7,536	192.53	5,197	10,091
192.02	4,640	7,583	192.54	5,208	10,143
192.03	4,651	7,629	192.55	5,219	10,195
192.04	4,662	7,676	192.56	5,230	10,248
192.05	4,673	7,722	192.57	5,241	10,300
192.06	4,684	7,769	192.58	5,252	10,352
192.07	4,695	7,816	192.59	5,263	10,405
192.08	4,705	7,863	192.60	5,274	10,458
192.09	4,716	7,910	192.61	5,285	10,511
192.10	4,727	7,957	192.62	5,296	10,563
192.11	4,738	8,005	192.63	5,307	10,616
192.12	4,749	8,052	192.64	5,318	10,670
192.13	4,760	8,100	192.65	5,328	10,723
192.14	4,771	8,147	192.66	5,339	10,776
192.15	4,782	8,195	192.67	5,350	10,830
192.16	4,793	8,243	192.68	5,361	10,883
192.17	4,804	8,291	192.69	5,372	10,937
192.18	4,815	8,339	192.70	5,383	10,991
192.19	4,826	8,387	192.71	5,394	11,044
192.20	4,837	8,436	192.72	5,405	11,098
192.21	4,848	8,484	192.73	5,416	11,153
192.22	4,858	8,533	192.74	5,427	11,207
192.23	4,869	8,581	192.75	5,438	11,261
192.24	4,880	8,630	192.76	5,449	11,316
192.25	4,891	8,679	192.77	5,460	11,370
192.26	4,902	8,728	192.78	5,471	11,425
192.27	4,913	8,777	192.79	5,481	11,479
192.28	4,924	8,826	192.80	5,492	11,534
192.29	4,935	8,875	192.81	5,503	11,589
192.30	4,946	8,925	192.82	5,514	11,644
192.31	4,957	8,974	192.83	5,525	11,700
192.32	4,968	9,024	192.84	5,536	11,755
192.33	4,979	9,074	192.85	5,547	11,810
192.34	4,990	9,123	192.86	5,558	11,866
192.35	5,001	9,173	192.87	5,569	11,922
192.36	5,011	9,224	192.88	5,580	11,977
192.37	5,022	9,274	192.89	5,591	12,033
192.38	5,033	9,324	192.90	5,602	12,089
192.39	5,044	9,374	192.91	5,613	12,145

Stage-Area-Storage for Pond B-35: Basin #35 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
192.92	5,624	12,201	193.44	6,221	15,280
192.93	5,634	12,258	193.45	6,233	15,342
192.94	5,645	12,314	193.46	6,245	15,404
192.95	5,656	12,371	193.47	6,256	15,467
192.96	5,667	12,427	193.48	6,268	15,530
192.97	5,678	12,484	193.49	6,279	15,592
192.98	5,689	12,541	193.50	6,291	15,655
192.99	5,700	12,598	193.51	6,303	15,718
193.00	5,711	12,655	193.52	6,314	15,781
193.01	5,723	12,712	193.53	6,326	15,844
193.02	5,734	12,769	193.54	6,337	15,908
193.03	5,746	12,827	193.55	6,349	15,971
193.04	5,757	12,884	193.56	6,361	16,035
193.05	5,769	12,942	193.57	6,372	16,098
193.06	5,781	12,999	193.58	6,384	16,162
193.07	5,792	13,057	193.59	6,395	16,226
193.08	5,804	13,115	193.60	6,407	16,290
193.09	5,815	13,173	193.61	6,419	16,354
193.10	5,827	13,232	193.62	6,430	16,418
193.11	5,839	13,290	193.63	6,442	16,483
193.12	5,850	13,348	193.64	6,453	16,547
193.13	5,862	13,407	193.65	6,465	16,612
193.14	5,873	13,466	193.66	6,477	16,677
193.15	5,885	13,524	193.67	6,488	16,741
193.16	5,897	13,583	193.68	6,500	16,806
193.17	5,908	13,642	193.69	6,511	16,871
193.18	5,920	13,701	193.70	6,523	16,937
193.19	5,931	13,761	193.71	6,535	17,002
193.20	5,943	13,820	193.72	6,546	17,067
193.21	5,955	13,880	193.73	6,558	17,133
193.22	5,966	13,939	193.74	6,569	17,198
193.23	5,978	13,999	193.75	6,581	17,264
193.24	5,989	14,059	193.76	6,593	17,330
193.25	6,001	14,119	193.77	6,604	17,396
193.26	6,013	14,179	193.78	6,616	17,462
193.27	6,024	14,239	193.79	6,627	17,528
193.28	6,036	14,299	193.80	6,639	17,595
193.29	6,047	14,360	193.81	6,651	17,661
193.30	6,059	14,420	193.82	6,662	17,728
193.31	6,071	14,481	193.83	6,674	17,794
193.32	6,082	14,542	193.84	6,685	17,861
193.33	6,094	14,602	193.85	6,697	17,928
193.34	6,105	14,663	193.86	6,709	17,995
193.35	6,117	14,725	193.87	6,720	18,062
193.36	6,129	14,786	193.88	6,732	18,130
193.37	6,140	14,847	193.89	6,743	18,197
193.38	6,152	14,909	193.90	6,755	18,264
193.39	6,163	14,970	193.91	6,767	18,332
193.40	6,175	15,032	193.92	6,778	18,400
193.41	6,187	15,094	193.93	6,790	18,468
193.42	6,198	15,156	193.94	6,801	18,536
193.43	6,210	15,218	193.95	6,813	18,604

Stage-Area-Storage for Pond B-35: Basin #35 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
193.96	6,825	18,672	194.48	7,460	22,385
193.97	6,836	18,740	194.49	7,473	22,460
193.98	6,848	18,809	194.50	7,485	22,535
193.99	6,859	18,877	194.51	7,497	22,610
194.00	6,871	18,946	194.52	7,510	22,685
194.01	6,883	19,014	194.53	7,522	22,760
194.02	6,896	19,083	194.54	7,534	22,835
194.03	6,908	19,152	194.55	7,546	22,910
194.04	6,920	19,222	194.56	7,559	22,986
194.05	6,932	19,291	194.57	7,571	23,062
194.06	6,945	19,360	194.58	7,583	23,137
194.07	6,957	19,430	194.59	7,596	23,213
194.08	6,969	19,499	194.60	7,608	23,289
194.09	6,982	19,569	194.61	7,620	23,365
194.10	6,994	19,639	194.62	7,632	23,442
194.11	7,006	19,709	194.63	7,645	23,518
194.12	7,018	19,779	194.64	7,657	23,595
194.13	7,031	19,849	194.65	7,669	23,671
194.14	7,043	19,920	194.66	7,681	23,748
194.15	7,055	19,990	194.67	7,694	23,825
194.16	7,067	20,061	194.68	7,706	23,902
194.17	7,080	20,132	194.69	7,718	23,979
194.18	7,092	20,202	194.70	7,731	24,056
194.19	7,104	20,273	194.71	7,743	24,134
194.20	7,117	20,344	194.72	7,755	24,211
194.21	7,129	20,416	194.73	7,767	24,289
194.22	7,141	20,487	194.74	7,780	24,366
194.23	7,153	20,559	194.75	7,792	24,444
194.24	7,166	20,630	194.76	7,804	24,522
194.25	7,178	20,702	194.77	7,817	24,600
194.26	7,190	20,774	194.78	7,829	24,679
194.27	7,203	20,846	194.79	7,841	24,757
194.28	7,215	20,918	194.80	7,853	24,835
194.29	7,227	20,990	194.81	7,866	24,914
194.30	7,239	21,062	194.82	7,878	24,993
194.31	7,252	21,135	194.83	7,890	25,072
194.32	7,264	21,207	194.84	7,903	25,151
194.33	7,276	21,280	194.85	7,915	25,230
194.34	7,289	21,353	194.86	7,927	25,309
194.35	7,301	21,426	194.87	7,939	25,388
194.36	7,313	21,499	194.88	7,952	25,468
194.37	7,325	21,572	194.89	7,964	25,547
194.38	7,338	21,645	194.90	7,976	25,627
194.39	7,350	21,719	194.91	7,988	25,707
194.40	7,362	21,792	194.92	8,001	25,787
194.41	7,374	21,866	194.93	8,013	25,867
194.42	7,387	21,940	194.94	8,025	25,947
194.43	7,399	22,014	194.95	8,038	26,027
194.44	7,411	22,088	194.96	8,050	26,108
194.45	7,424	22,162	194.97	8,062	26,188
194.46	7,436	22,236	194.98	8,074	26,269
194.47	7,448	22,311	194.99	8,087	26,350

Stage-Area-Storage for Pond B-35: Basin #35 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
195.00	**8,099**	**26,431**

Summary for Pond B-36A: Basin #36A

Inflow Area = 2.377 ac, 40.60% Impervious, Inflow Depth = 3.43" for Current 10 yr event
Inflow = 8.29 cfs @ 12.17 hrs, Volume= 0.679 af
Outflow = 4.44 cfs @ 12.33 hrs, Volume= 0.585 af, Atten= 46%, Lag= 9.3 min
Primary = 4.44 cfs @ 12.33 hrs, Volume= 0.585 af
Routed to Link PDA-3 : Proposed Drainage Area #3

Routing by Stor-Ind method, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
Peak Elev= 194.45' @ 12.33 hrs Surf.Area= 4,782 sf Storage= 12,727 cf

Plug-Flow detention time= 230.9 min calculated for 0.585 af (86% of inflow)
Center-of-Mass det. time= 166.6 min (957.5 - 790.9)

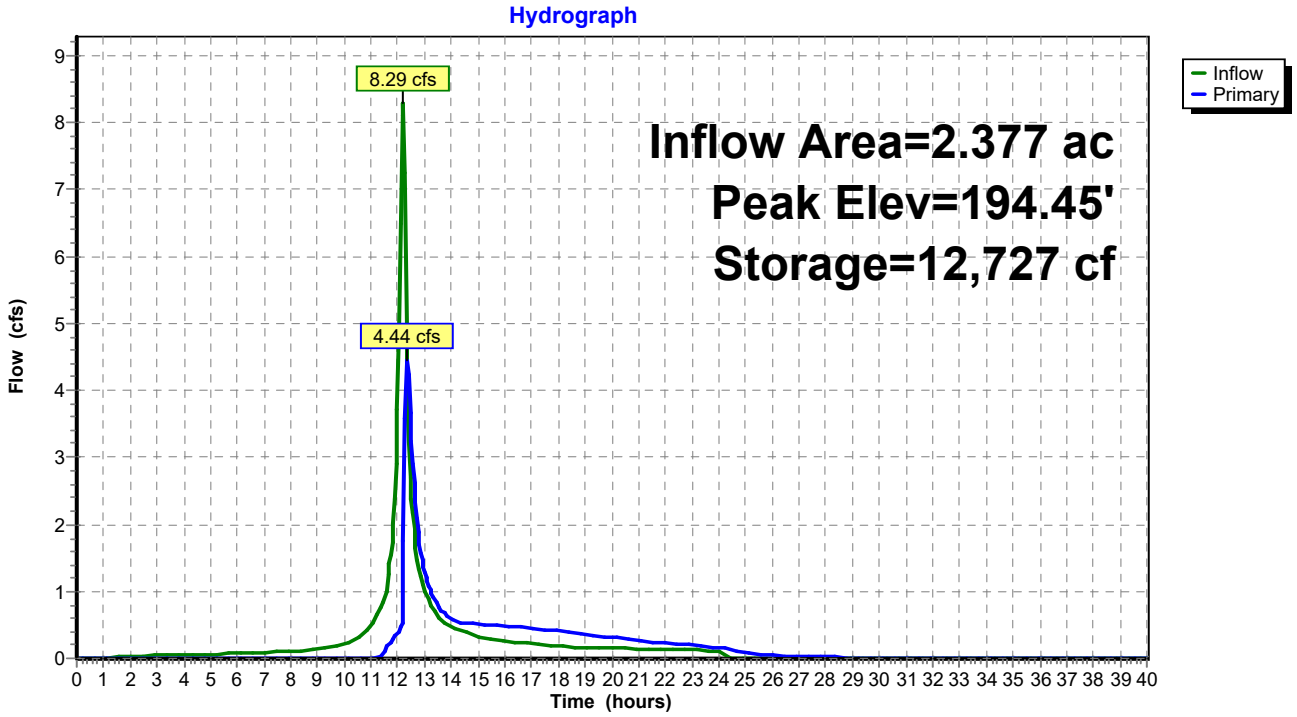
Volume	Invert	Avail.Storage	Storage Description
#1	190.50'	16,844 cf	**Custom Stage Data (Prismatic)** Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
190.50	0	0	0
191.00	2,366	592	592
192.00	2,995	2,681	3,272
193.00	3,681	3,338	6,610
194.00	4,424	4,053	10,663
195.00	5,223	4,824	15,486
195.25	5,644	1,358	16,844

Device	Routing	Invert	Outlet Devices
#1	Primary	190.50'	**18.0" Round Culvert** L= 82.0' Ke= 0.500 Inlet / Outlet Invert= 190.50' / 190.10' S= 0.0049 '/' Cc= 0.900 n= 0.013, Flow Area= 1.77 sf
#2	Device 1	192.24'	**4.0" Vert. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#3	Device 1	194.00'	**4.0' long Sharp-Crested Rectangular Weir** 2 End Contraction(s)
#4	Primary	194.95'	**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=4.40 cfs @ 12.33 hrs HW=194.45' (Free Discharge)
- **1=Culvert** (Passes 4.40 cfs of 13.81 cfs potential flow)
  - **2=Orifice/Grate** (Orifice Controls 0.60 cfs @ 6.87 fps)
  - **3=Sharp-Crested Rectangular Weir** (Weir Controls 3.80 cfs @ 2.18 fps)
- **4=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)

Pond B-36A: Basin #36A



Stage-Discharge for Pond B-36A: Basin #36A

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
190.50	0.00	191.02	0.00	191.54	0.00	192.06	0.00
190.51	0.00	191.03	0.00	191.55	0.00	192.07	0.00
190.52	0.00	191.04	0.00	191.56	0.00	192.08	0.00
190.53	0.00	191.05	0.00	191.57	0.00	192.09	0.00
190.54	0.00	191.06	0.00	191.58	0.00	192.10	0.00
190.55	0.00	191.07	0.00	191.59	0.00	192.11	0.00
190.56	0.00	191.08	0.00	191.60	0.00	192.12	0.00
190.57	0.00	191.09	0.00	191.61	0.00	192.13	0.00
190.58	0.00	191.10	0.00	191.62	0.00	192.14	0.00
190.59	0.00	191.11	0.00	191.63	0.00	192.15	0.00
190.60	0.00	191.12	0.00	191.64	0.00	192.16	0.00
190.61	0.00	191.13	0.00	191.65	0.00	192.17	0.00
190.62	0.00	191.14	0.00	191.66	0.00	192.18	0.00
190.63	0.00	191.15	0.00	191.67	0.00	192.19	0.00
190.64	0.00	191.16	0.00	191.68	0.00	192.20	0.00
190.65	0.00	191.17	0.00	191.69	0.00	192.21	0.00
190.66	0.00	191.18	0.00	191.70	0.00	192.22	0.00
190.67	0.00	191.19	0.00	191.71	0.00	192.23	0.00
190.68	0.00	191.20	0.00	191.72	0.00	192.24	0.00
190.69	0.00	191.21	0.00	191.73	0.00	192.25	0.00
190.70	0.00	191.22	0.00	191.74	0.00	192.26	0.00
190.71	0.00	191.23	0.00	191.75	0.00	192.27	0.00
190.72	0.00	191.24	0.00	191.76	0.00	192.28	0.00
190.73	0.00	191.25	0.00	191.77	0.00	192.29	0.01
190.74	0.00	191.26	0.00	191.78	0.00	192.30	0.01
190.75	0.00	191.27	0.00	191.79	0.00	192.31	0.01
190.76	0.00	191.28	0.00	191.80	0.00	192.32	0.02
190.77	0.00	191.29	0.00	191.81	0.00	192.33	0.02
190.78	0.00	191.30	0.00	191.82	0.00	192.34	0.02
190.79	0.00	191.31	0.00	191.83	0.00	192.35	0.03
190.80	0.00	191.32	0.00	191.84	0.00	192.36	0.03
190.81	0.00	191.33	0.00	191.85	0.00	192.37	0.04
190.82	0.00	191.34	0.00	191.86	0.00	192.38	0.04
190.83	0.00	191.35	0.00	191.87	0.00	192.39	0.05
190.84	0.00	191.36	0.00	191.88	0.00	192.40	0.06
190.85	0.00	191.37	0.00	191.89	0.00	192.41	0.06
190.86	0.00	191.38	0.00	191.90	0.00	192.42	0.07
190.87	0.00	191.39	0.00	191.91	0.00	192.43	0.08
190.88	0.00	191.40	0.00	191.92	0.00	192.44	0.08
190.89	0.00	191.41	0.00	191.93	0.00	192.45	0.09
190.90	0.00	191.42	0.00	191.94	0.00	192.46	0.10
190.91	0.00	191.43	0.00	191.95	0.00	192.47	0.10
190.92	0.00	191.44	0.00	191.96	0.00	192.48	0.11
190.93	0.00	191.45	0.00	191.97	0.00	192.49	0.12
190.94	0.00	191.46	0.00	191.98	0.00	192.50	0.13
190.95	0.00	191.47	0.00	191.99	0.00	192.51	0.13
190.96	0.00	191.48	0.00	192.00	0.00	192.52	0.14
190.97	0.00	191.49	0.00	192.01	0.00	192.53	0.15
190.98	0.00	191.50	0.00	192.02	0.00	192.54	0.15
190.99	0.00	191.51	0.00	192.03	0.00	192.55	0.16
191.00	0.00	191.52	0.00	192.04	0.00	192.56	0.17
191.01	0.00	191.53	0.00	192.05	0.00	192.57	0.17

Stage-Discharge for Pond B-36A: Basin #36A (continued)

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
192.58	0.17	193.10	0.35	193.62	0.46	194.14	1.23
192.59	0.18	193.11	0.35	193.63	0.46	194.15	1.31
192.60	0.18	193.12	0.35	193.64	0.47	194.16	1.39
192.61	0.19	193.13	0.36	193.65	0.47	194.17	1.47
192.62	0.19	193.14	0.36	193.66	0.47	194.18	1.55
192.63	0.20	193.15	0.36	193.67	0.47	194.19	1.63
192.64	0.20	193.16	0.36	193.68	0.47	194.20	1.72
192.65	0.21	193.17	0.37	193.69	0.48	194.21	1.81
192.66	0.21	193.18	0.37	193.70	0.48	194.22	1.90
192.67	0.22	193.19	0.37	193.71	0.48	194.23	1.99
192.68	0.22	193.20	0.37	193.72	0.48	194.24	2.09
192.69	0.22	193.21	0.38	193.73	0.48	194.25	2.19
192.70	0.23	193.22	0.38	193.74	0.49	194.26	2.28
192.71	0.23	193.23	0.38	193.75	0.49	194.27	2.38
192.72	0.24	193.24	0.38	193.76	0.49	194.28	2.49
192.73	0.24	193.25	0.39	193.77	0.49	194.29	2.59
192.74	0.24	193.26	0.39	193.78	0.49	194.30	2.70
192.75	0.25	193.27	0.39	193.79	0.49	194.31	2.80
192.76	0.25	193.28	0.39	193.80	0.50	194.32	2.91
192.77	0.25	193.29	0.39	193.81	0.50	194.33	3.02
192.78	0.26	193.30	0.40	193.82	0.50	194.34	3.13
192.79	0.26	193.31	0.40	193.83	0.50	194.35	3.25
192.80	0.26	193.32	0.40	193.84	0.50	194.36	3.36
192.81	0.27	193.33	0.40	193.85	0.50	194.37	3.48
192.82	0.27	193.34	0.41	193.86	0.51	194.38	3.60
192.83	0.27	193.35	0.41	193.87	0.51	194.39	3.72
192.84	0.28	193.36	0.41	193.88	0.51	194.40	3.84
192.85	0.28	193.37	0.41	193.89	0.51	194.41	3.96
192.86	0.28	193.38	0.41	193.90	0.51	194.42	4.08
192.87	0.29	193.39	0.42	193.91	0.52	194.43	4.21
192.88	0.29	193.40	0.42	193.92	0.52	194.44	4.33
192.89	0.29	193.41	0.42	193.93	0.52	194.45	4.46
192.90	0.30	193.42	0.42	193.94	0.52	194.46	4.59
192.91	0.30	193.43	0.43	193.95	0.52	194.47	4.72
192.92	0.30	193.44	0.43	193.96	0.52	194.48	4.85
192.93	0.30	193.45	0.43	193.97	0.53	194.49	4.98
192.94	0.31	193.46	0.43	193.98	0.53	194.50	5.12
192.95	0.31	193.47	0.43	193.99	0.53	194.51	5.25
192.96	0.31	193.48	0.44	194.00	0.53	194.52	5.39
192.97	0.32	193.49	0.44	194.01	0.55	194.53	5.53
192.98	0.32	193.50	0.44	194.02	0.57	194.54	5.66
192.99	0.32	193.51	0.44	194.03	0.60	194.55	5.80
193.00	0.32	193.52	0.44	194.04	0.64	194.56	5.94
193.01	0.33	193.53	0.45	194.05	0.68	194.57	6.09
193.02	0.33	193.54	0.45	194.06	0.73	194.58	6.23
193.03	0.33	193.55	0.45	194.07	0.78	194.59	6.37
193.04	0.33	193.56	0.45	194.08	0.84	194.60	6.52
193.05	0.34	193.57	0.45	194.09	0.90	194.61	6.67
193.06	0.34	193.58	0.46	194.10	0.96	194.62	6.81
193.07	0.34	193.59	0.46	194.11	1.02	194.63	6.96
193.08	0.34	193.60	0.46	194.12	1.09	194.64	7.11
193.09	0.35	193.61	0.46	194.13	1.16	194.65	7.26

Stage-Discharge for Pond B-36A: Basin #36A (continued)

Elevation (feet)	Primary (cfs)
194.66	7.41
194.67	7.57
194.68	7.72
194.69	7.87
194.70	8.03
194.71	8.19
194.72	8.34
194.73	8.50
194.74	8.66
194.75	8.82
194.76	8.98
194.77	9.14
194.78	9.31
194.79	9.47
194.80	9.63
194.81	9.80
194.82	9.97
194.83	10.13
194.84	10.30
194.85	10.47
194.86	10.64
194.87	10.81
194.88	10.98
194.89	11.16
194.90	11.33
194.91	11.50
194.92	11.68
194.93	11.85
194.94	12.03
194.95	12.21
194.96	12.50
194.97	12.89
194.98	13.35
194.99	13.86
195.00	14.41
195.01	15.01
195.02	15.64
195.03	16.31
195.04	17.01
195.05	17.74
195.06	18.49
195.07	19.28
195.08	20.09
195.09	20.93
195.10	21.80
195.11	22.68
195.12	23.60
195.13	24.40
195.14	25.18
195.15	25.99
195.16	26.86
195.17	27.75
195.18	28.67
195.19	29.62
195.20	30.59
195.21	31.58
195.22	32.60
195.23	33.65
195.24	34.72
195.25	**35.81**

Stage-Area-Storage for Pond B-36A: Basin #36A

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
190.50	0	0	191.02	2,379	639
190.51	47	0	191.03	2,385	663
190.52	95	1	191.04	2,391	687
190.53	142	2	191.05	2,397	711
190.54	189	4	191.06	2,404	735
190.55	237	6	191.07	2,410	759
190.56	284	9	191.08	2,416	783
190.57	331	12	191.09	2,423	807
190.58	379	15	191.10	2,429	831
190.59	426	19	191.11	2,435	856
190.60	473	24	191.12	2,441	880
190.61	521	29	191.13	2,448	904
190.62	568	34	191.14	2,454	929
190.63	615	40	191.15	2,460	953
190.64	662	46	191.16	2,467	978
190.65	710	53	191.17	2,473	1,003
190.66	757	61	191.18	2,479	1,028
190.67	804	68	191.19	2,486	1,052
190.68	852	77	191.20	2,492	1,077
190.69	899	85	191.21	2,498	1,102
190.70	946	95	191.22	2,504	1,127
190.71	994	104	191.23	2,511	1,152
190.72	1,041	115	191.24	2,517	1,177
190.73	1,088	125	191.25	2,523	1,203
190.74	1,136	136	191.26	2,530	1,228
190.75	1,183	148	191.27	2,536	1,253
190.76	1,230	160	191.28	2,542	1,279
190.77	1,278	172	191.29	2,548	1,304
190.78	1,325	185	191.30	2,555	1,330
190.79	1,372	199	191.31	2,561	1,355
190.80	1,420	213	191.32	2,567	1,381
190.81	1,467	227	191.33	2,574	1,407
190.82	1,514	242	191.34	2,580	1,432
190.83	1,562	258	191.35	2,586	1,458
190.84	1,609	274	191.36	2,592	1,484
190.85	1,656	290	191.37	2,599	1,510
190.86	1,704	307	191.38	2,605	1,536
190.87	1,751	324	191.39	2,611	1,562
190.88	1,798	342	191.40	2,618	1,588
190.89	1,845	360	191.41	2,624	1,614
190.90	1,893	379	191.42	2,630	1,641
190.91	1,940	398	191.43	2,636	1,667
190.92	1,987	417	191.44	2,643	1,693
190.93	2,035	437	191.45	2,649	1,720
190.94	2,082	458	191.46	2,655	1,746
190.95	2,129	479	191.47	2,662	1,773
190.96	2,177	501	191.48	2,668	1,800
190.97	2,224	523	191.49	2,674	1,826
190.98	2,271	545	191.50	2,681	1,853
190.99	2,319	568	191.51	2,687	1,880
191.00	2,366	592	191.52	2,693	1,907
191.01	2,372	615	191.53	2,699	1,934

Stage-Area-Storage for Pond B-36A: Basin #36A (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
191.54	2,706	1,961
191.55	2,712	1,988
191.56	2,718	2,015
191.57	2,725	2,042
191.58	2,731	2,070
191.59	2,737	2,097
191.60	2,743	2,124
191.61	2,750	2,152
191.62	2,756	2,179
191.63	2,762	2,207
191.64	2,769	2,235
191.65	2,775	2,262
191.66	2,781	2,290
191.67	2,787	2,318
191.68	2,794	2,346
191.69	2,800	2,374
191.70	2,806	2,402
191.71	2,813	2,430
191.72	2,819	2,458
191.73	2,825	2,486
191.74	2,831	2,515
191.75	2,838	2,543
191.76	2,844	2,571
191.77	2,850	2,600
191.78	2,857	2,628
191.79	2,863	2,657
191.80	2,869	2,686
191.81	2,875	2,714
191.82	2,882	2,743
191.83	2,888	2,772
191.84	2,894	2,801
191.85	2,901	2,830
191.86	2,907	2,859
191.87	2,913	2,888
191.88	2,920	2,917
191.89	2,926	2,946
191.90	2,932	2,976
191.91	2,938	3,005
191.92	2,945	3,034
191.93	2,951	3,064
191.94	2,957	3,093
191.95	2,964	3,123
191.96	2,970	3,153
191.97	2,976	3,182
191.98	2,982	3,212
191.99	2,989	3,242
192.00	2,995	3,272
192.01	3,002	3,302
192.02	3,009	3,332
192.03	3,016	3,362
192.04	3,022	3,392
192.05	3,029	3,423
192.06	3,036	3,453
192.07	3,043	3,483
192.08	3,050	3,514
192.09	3,057	3,544
192.10	3,064	3,575
192.11	3,070	3,606
192.12	3,077	3,636
192.13	3,084	3,667
192.14	3,091	3,698
192.15	3,098	3,729
192.16	3,105	3,760
192.17	3,112	3,791
192.18	3,118	3,822
192.19	3,125	3,853
192.20	3,132	3,885
192.21	3,139	3,916
192.22	3,146	3,948
192.23	3,153	3,979
192.24	3,160	4,011
192.25	3,167	4,042
192.26	3,173	4,074
192.27	3,180	4,106
192.28	3,187	4,137
192.29	3,194	4,169
192.30	3,201	4,201
192.31	3,208	4,233
192.32	3,215	4,266
192.33	3,221	4,298
192.34	3,228	4,330
192.35	3,235	4,362
192.36	3,242	4,395
192.37	3,249	4,427
192.38	3,256	4,460
192.39	3,263	4,492
192.40	3,269	4,525
192.41	3,276	4,558
192.42	3,283	4,590
192.43	3,290	4,623
192.44	3,297	4,656
192.45	3,304	4,689
192.46	3,311	4,722
192.47	3,317	4,755
192.48	3,324	4,789
192.49	3,331	4,822
192.50	3,338	4,855
192.51	3,345	4,889
192.52	3,352	4,922
192.53	3,359	4,956
192.54	3,365	4,989
192.55	3,372	5,023
192.56	3,379	5,057
192.57	3,386	5,091

Stage-Area-Storage for Pond B-36A: Basin #36A (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
192.58	3,393	5,124
192.59	3,400	5,158
192.60	3,407	5,192
192.61	3,413	5,227
192.62	3,420	5,261
192.63	3,427	5,295
192.64	3,434	5,329
192.65	3,441	5,364
192.66	3,448	5,398
192.67	3,455	5,433
192.68	3,461	5,467
192.69	3,468	5,502
192.70	3,475	5,537
192.71	3,482	5,571
192.72	3,489	5,606
192.73	3,496	5,641
192.74	3,503	5,676
192.75	3,510	5,711
192.76	3,516	5,746
192.77	3,523	5,782
192.78	3,530	5,817
192.79	3,537	5,852
192.80	3,544	5,888
192.81	3,551	5,923
192.82	3,558	5,959
192.83	3,564	5,994
192.84	3,571	6,030
192.85	3,578	6,066
192.86	3,585	6,101
192.87	3,592	6,137
192.88	3,599	6,173
192.89	3,606	6,209
192.90	3,612	6,245
192.91	3,619	6,281
192.92	3,626	6,318
192.93	3,633	6,354
192.94	3,640	6,390
192.95	3,647	6,427
192.96	3,654	6,463
192.97	3,660	6,500
192.98	3,667	6,537
192.99	3,674	6,573
193.00	3,681	6,610
193.01	3,688	6,647
193.02	3,696	6,684
193.03	3,703	6,721
193.04	3,711	6,758
193.05	3,718	6,795
193.06	3,726	6,832
193.07	3,733	6,869
193.08	3,740	6,907
193.09	3,748	6,944
193.10	3,755	6,982
193.11	3,763	7,019
193.12	3,770	7,057
193.13	3,778	7,095
193.14	3,785	7,133
193.15	3,792	7,171
193.16	3,800	7,208
193.17	3,807	7,247
193.18	3,815	7,285
193.19	3,822	7,323
193.20	3,830	7,361
193.21	3,837	7,399
193.22	3,844	7,438
193.23	3,852	7,476
193.24	3,859	7,515
193.25	3,867	7,553
193.26	3,874	7,592
193.27	3,882	7,631
193.28	3,889	7,670
193.29	3,896	7,709
193.30	3,904	7,748
193.31	3,911	7,787
193.32	3,919	7,826
193.33	3,926	7,865
193.34	3,934	7,904
193.35	3,941	7,944
193.36	3,948	7,983
193.37	3,956	8,023
193.38	3,963	8,062
193.39	3,971	8,102
193.40	3,978	8,142
193.41	3,986	8,182
193.42	3,993	8,222
193.43	4,000	8,262
193.44	4,008	8,302
193.45	4,015	8,342
193.46	4,023	8,382
193.47	4,030	8,422
193.48	4,038	8,462
193.49	4,045	8,503
193.50	4,053	8,543
193.51	4,060	8,584
193.52	4,067	8,625
193.53	4,075	8,665
193.54	4,082	8,706
193.55	4,090	8,747
193.56	4,097	8,788
193.57	4,105	8,829
193.58	4,112	8,870
193.59	4,119	8,911
193.60	4,127	8,952
193.61	4,134	8,994

Stage-Area-Storage for Pond B-36A: Basin #36A (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
193.62	4,142	9,035	194.14	4,536	11,290
193.63	4,149	9,076	194.15	4,544	11,335
193.64	4,157	9,118	194.16	4,552	11,381
193.65	4,164	9,160	194.17	4,560	11,426
193.66	4,171	9,201	194.18	4,568	11,472
193.67	4,179	9,243	194.19	4,576	11,517
193.68	4,186	9,285	194.20	4,584	11,563
193.69	4,194	9,327	194.21	4,592	11,609
193.70	4,201	9,369	194.22	4,600	11,655
193.71	4,209	9,411	194.23	4,608	11,701
193.72	4,216	9,453	194.24	4,616	11,747
193.73	4,223	9,495	194.25	4,624	11,793
193.74	4,231	9,537	194.26	4,632	11,840
193.75	4,238	9,580	194.27	4,640	11,886
193.76	4,246	9,622	194.28	4,648	11,933
193.77	4,253	9,665	194.29	4,656	11,979
193.78	4,261	9,707	194.30	4,664	12,026
193.79	4,268	9,750	194.31	4,672	12,072
193.80	4,275	9,793	194.32	4,680	12,119
193.81	4,283	9,835	194.33	4,688	12,166
193.82	4,290	9,878	194.34	4,696	12,213
193.83	4,298	9,921	194.35	4,704	12,260
193.84	4,305	9,964	194.36	4,712	12,307
193.85	4,313	10,007	194.37	4,720	12,354
193.86	4,320	10,050	194.38	4,728	12,401
193.87	4,327	10,094	194.39	4,736	12,449
193.88	4,335	10,137	194.40	4,744	12,496
193.89	4,342	10,180	194.41	4,752	12,543
193.90	4,350	10,224	194.42	4,760	12,591
193.91	4,357	10,267	194.43	4,768	12,639
193.92	4,365	10,311	194.44	4,776	12,686
193.93	4,372	10,355	194.45	4,784	12,734
193.94	4,379	10,398	194.46	4,792	12,782
193.95	4,387	10,442	194.47	4,800	12,830
193.96	4,394	10,486	194.48	4,808	12,878
193.97	4,402	10,530	194.49	4,816	12,926
193.98	4,409	10,574	194.50	4,824	12,974
193.99	4,417	10,618	194.51	4,831	13,023
194.00	4,424	10,663	194.52	4,839	13,071
194.01	4,432	10,707	194.53	4,847	13,119
194.02	4,440	10,751	194.54	4,855	13,168
194.03	4,448	10,796	194.55	4,863	13,217
194.04	4,456	10,840	194.56	4,871	13,265
194.05	4,464	10,885	194.57	4,879	13,314
194.06	4,472	10,929	194.58	4,887	13,363
194.07	4,480	10,974	194.59	4,895	13,412
194.08	4,488	11,019	194.60	4,903	13,461
194.09	4,496	11,064	194.61	4,911	13,510
194.10	4,504	11,109	194.62	4,919	13,559
194.11	4,512	11,154	194.63	4,927	13,608
194.12	4,520	11,199	194.64	4,935	13,657
194.13	4,528	11,244	194.65	4,943	13,707

Stage-Area-Storage for Pond B-36A: Basin #36A (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
194.66	4,951	13,756
194.67	4,959	13,806
194.68	4,967	13,856
194.69	4,975	13,905
194.70	4,983	13,955
194.71	4,991	14,005
194.72	4,999	14,055
194.73	5,007	14,105
194.74	5,015	14,155
194.75	5,023	14,205
194.76	5,031	14,255
194.77	5,039	14,306
194.78	5,047	14,356
194.79	5,055	14,407
194.80	5,063	14,457
194.81	5,071	14,508
194.82	5,079	14,559
194.83	5,087	14,610
194.84	5,095	14,661
194.85	5,103	14,712
194.86	5,111	14,763
194.87	5,119	14,814
194.88	5,127	14,865
194.89	5,135	14,916
194.90	5,143	14,968
194.91	5,151	15,019
194.92	5,159	15,071
194.93	5,167	15,122
194.94	5,175	15,174
194.95	5,183	15,226
194.96	5,191	15,278
194.97	5,199	15,330
194.98	5,207	15,382
194.99	5,215	15,434
195.00	5,223	15,486
195.01	5,240	15,538
195.02	5,257	15,591
195.03	5,274	15,643
195.04	5,290	15,696
195.05	5,307	15,749
195.06	5,324	15,802
195.07	5,341	15,856
195.08	5,358	15,909
195.09	5,375	15,963
195.10	5,391	16,017
195.11	5,408	16,071
195.12	5,425	16,125
195.13	5,442	16,179
195.14	5,459	16,234
195.15	5,476	16,288
195.16	5,492	16,343
195.17	5,509	16,398
195.18	5,526	16,453
195.19	5,543	16,509
195.20	5,560	16,564
195.21	5,577	16,620
195.22	5,593	16,676
195.23	5,610	16,732
195.24	5,627	16,788
195.25	**5,644**	**16,844**

Summary for Pond B-36B: Basin #36B

Inflow Area = 2.469 ac, 46.54% Impervious, Inflow Depth = 3.57" for Current 10 yr event
Inflow = 8.90 cfs @ 12.17 hrs, Volume= 0.735 af
Outflow = 5.94 cfs @ 12.29 hrs, Volume= 0.627 af, Atten= 33%, Lag= 6.8 min
Primary = 5.94 cfs @ 12.29 hrs, Volume= 0.627 af
Routed to Link PDA-3 : Proposed Drainage Area #3

Routing by Stor-Ind method, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
Peak Elev= 193.89' @ 12.29 hrs Surf.Area= 4,458 sf Storage= 9,989 cf

Plug-Flow detention time= 135.1 min calculated for 0.627 af (85% of inflow)
Center-of-Mass det. time= 66.4 min (852.0 - 785.6)

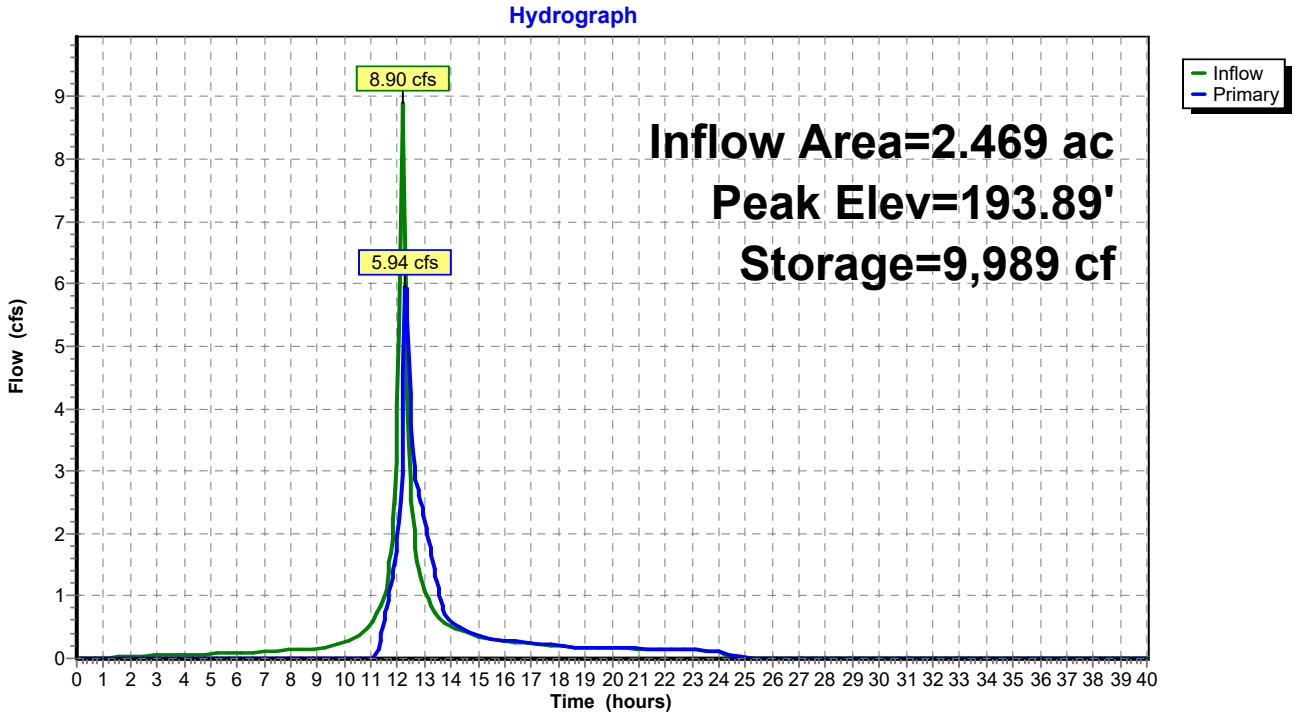
Volume	Invert	Avail.Storage	Storage Description
#1	190.50'	16,864 cf	**Custom Stage Data (Prismatic)** Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
190.50	0	0	0
191.00	2,110	528	528
192.00	2,893	2,502	3,029
193.00	3,730	3,312	6,341
194.00	4,547	4,139	10,479
195.00	5,356	4,952	15,431
195.25	6,113	1,434	16,864

Device	Routing	Invert	Outlet Devices
#1	Primary	190.50'	**18.0" Round Culvert** L= 82.0' Ke= 0.500 Inlet / Outlet Invert= 190.50' / 190.10' S= 0.0049 '/' Cc= 0.900 n= 0.013, Flow Area= 1.77 sf
#2	Device 1	192.53'	**36.0" W x 2.5" H Vert. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#3	Device 1	193.55'	**4.0' long Sharp-Crested Rectangular Weir** 2 End Contraction(s)
#4	Primary	194.95'	**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=5.87 cfs @ 12.29 hrs HW=193.89' (Free Discharge)
- **1=Culvert** (Passes 5.87 cfs of 12.38 cfs potential flow)
  - **2=Orifice/Grate** (Orifice Controls 3.37 cfs @ 5.39 fps)
  - **3=Sharp-Crested Rectangular Weir** (Weir Controls 2.51 cfs @ 1.90 fps)
- **4=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)

Pond B-36B: Basin #36B



Stage-Discharge for Pond B-36B: Basin #36B

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
190.50	0.00	191.02	0.00	191.54	0.00	192.06	0.00
190.51	0.00	191.03	0.00	191.55	0.00	192.07	0.00
190.52	0.00	191.04	0.00	191.56	0.00	192.08	0.00
190.53	0.00	191.05	0.00	191.57	0.00	192.09	0.00
190.54	0.00	191.06	0.00	191.58	0.00	192.10	0.00
190.55	0.00	191.07	0.00	191.59	0.00	192.11	0.00
190.56	0.00	191.08	0.00	191.60	0.00	192.12	0.00
190.57	0.00	191.09	0.00	191.61	0.00	192.13	0.00
190.58	0.00	191.10	0.00	191.62	0.00	192.14	0.00
190.59	0.00	191.11	0.00	191.63	0.00	192.15	0.00
190.60	0.00	191.12	0.00	191.64	0.00	192.16	0.00
190.61	0.00	191.13	0.00	191.65	0.00	192.17	0.00
190.62	0.00	191.14	0.00	191.66	0.00	192.18	0.00
190.63	0.00	191.15	0.00	191.67	0.00	192.19	0.00
190.64	0.00	191.16	0.00	191.68	0.00	192.20	0.00
190.65	0.00	191.17	0.00	191.69	0.00	192.21	0.00
190.66	0.00	191.18	0.00	191.70	0.00	192.22	0.00
190.67	0.00	191.19	0.00	191.71	0.00	192.23	0.00
190.68	0.00	191.20	0.00	191.72	0.00	192.24	0.00
190.69	0.00	191.21	0.00	191.73	0.00	192.25	0.00
190.70	0.00	191.22	0.00	191.74	0.00	192.26	0.00
190.71	0.00	191.23	0.00	191.75	0.00	192.27	0.00
190.72	0.00	191.24	0.00	191.76	0.00	192.28	0.00
190.73	0.00	191.25	0.00	191.77	0.00	192.29	0.00
190.74	0.00	191.26	0.00	191.78	0.00	192.30	0.00
190.75	0.00	191.27	0.00	191.79	0.00	192.31	0.00
190.76	0.00	191.28	0.00	191.80	0.00	192.32	0.00
190.77	0.00	191.29	0.00	191.81	0.00	192.33	0.00
190.78	0.00	191.30	0.00	191.82	0.00	192.34	0.00
190.79	0.00	191.31	0.00	191.83	0.00	192.35	0.00
190.80	0.00	191.32	0.00	191.84	0.00	192.36	0.00
190.81	0.00	191.33	0.00	191.85	0.00	192.37	0.00
190.82	0.00	191.34	0.00	191.86	0.00	192.38	0.00
190.83	0.00	191.35	0.00	191.87	0.00	192.39	0.00
190.84	0.00	191.36	0.00	191.88	0.00	192.40	0.00
190.85	0.00	191.37	0.00	191.89	0.00	192.41	0.00
190.86	0.00	191.38	0.00	191.90	0.00	192.42	0.00
190.87	0.00	191.39	0.00	191.91	0.00	192.43	0.00
190.88	0.00	191.40	0.00	191.92	0.00	192.44	0.00
190.89	0.00	191.41	0.00	191.93	0.00	192.45	0.00
190.90	0.00	191.42	0.00	191.94	0.00	192.46	0.00
190.91	0.00	191.43	0.00	191.95	0.00	192.47	0.00
190.92	0.00	191.44	0.00	191.96	0.00	192.48	0.00
190.93	0.00	191.45	0.00	191.97	0.00	192.49	0.00
190.94	0.00	191.46	0.00	191.98	0.00	192.50	0.00
190.95	0.00	191.47	0.00	191.99	0.00	192.51	0.00
190.96	0.00	191.48	0.00	192.00	0.00	192.52	0.00
190.97	0.00	191.49	0.00	192.01	0.00	192.53	0.00
190.98	0.00	191.50	0.00	192.02	0.00	192.54	0.01
190.99	0.00	191.51	0.00	192.03	0.00	192.55	0.03
191.00	0.00	191.52	0.00	192.04	0.00	192.56	0.05
191.01	0.00	191.53	0.00	192.05	0.00	192.57	0.08

Stage-Discharge for Pond B-36B: Basin #36B (continued)

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
192.58	0.11	193.10	2.05	193.62	3.23	194.14	9.44
192.59	0.14	193.11	2.07	193.63	3.30	194.15	9.60
192.60	0.18	193.12	2.09	193.64	3.37	194.16	9.76
192.61	0.22	193.13	2.12	193.65	3.44	194.17	9.92
192.62	0.26	193.14	2.14	193.66	3.52	194.18	10.08
192.63	0.30	193.15	2.16	193.67	3.60	194.19	10.24
192.64	0.35	193.16	2.18	193.68	3.69	194.20	10.40
192.65	0.40	193.17	2.20	193.69	3.77	194.21	10.56
192.66	0.45	193.18	2.22	193.70	3.86	194.22	10.72
192.67	0.50	193.19	2.24	193.71	3.95	194.23	10.89
192.68	0.56	193.20	2.26	193.72	4.04	194.24	11.05
192.69	0.62	193.21	2.28	193.73	4.14	194.25	11.22
192.70	0.67	193.22	2.30	193.74	4.24	194.26	11.38
192.71	0.74	193.23	2.32	193.75	4.34	194.27	11.55
192.72	0.80	193.24	2.34	193.76	4.44	194.28	11.72
192.73	0.86	193.25	2.36	193.77	4.54	194.29	11.89
192.74	0.93	193.26	2.38	193.78	4.65	194.30	12.06
192.75	0.98	193.27	2.40	193.79	4.75	194.31	12.23
192.76	1.03	193.28	2.42	193.80	4.86	194.32	12.40
192.77	1.08	193.29	2.43	193.81	4.97	194.33	12.58
192.78	1.12	193.30	2.45	193.82	5.09	194.34	12.75
192.79	1.16	193.31	2.47	193.83	5.20	194.35	12.93
192.80	1.20	193.32	2.49	193.84	5.32	194.36	13.10
192.81	1.24	193.33	2.51	193.85	5.43	194.37	13.28
192.82	1.28	193.34	2.53	193.86	5.55	194.38	13.46
192.83	1.32	193.35	2.54	193.87	5.67	194.39	13.63
192.84	1.35	193.36	2.56	193.88	5.80	194.40	13.70
192.85	1.38	193.37	2.58	193.89	5.92	194.41	13.73
192.86	1.42	193.38	2.60	193.90	6.05	194.42	13.75
192.87	1.45	193.39	2.61	193.91	6.17	194.43	13.77
192.88	1.48	193.40	2.63	193.92	6.30	194.44	13.80
192.89	1.51	193.41	2.65	193.93	6.43	194.45	13.82
192.90	1.54	193.42	2.67	193.94	6.56	194.46	13.85
192.91	1.57	193.43	2.68	193.95	6.69	194.47	13.87
192.92	1.60	193.44	2.70	193.96	6.83	194.48	13.90
192.93	1.63	193.45	2.72	193.97	6.96	194.49	13.92
192.94	1.66	193.46	2.73	193.98	7.10	194.50	13.94
192.95	1.68	193.47	2.75	193.99	7.24	194.51	13.97
192.96	1.71	193.48	2.77	194.00	7.38	194.52	13.99
192.97	1.74	193.49	2.78	194.01	7.52	194.53	14.02
192.98	1.76	193.50	2.80	194.02	7.66	194.54	14.04
192.99	1.79	193.51	2.81	194.03	7.80	194.55	14.06
193.00	1.81	193.52	2.83	194.04	7.94	194.56	14.09
193.01	1.84	193.53	2.85	194.05	8.09	194.57	14.11
193.02	1.86	193.54	2.86	194.06	8.24	194.58	14.13
193.03	1.89	193.55	2.88	194.07	8.38	194.59	14.16
193.04	1.91	193.56	2.91	194.08	8.53	194.60	14.18
193.05	1.94	193.57	2.95	194.09	8.68	194.61	14.21
193.06	1.96	193.58	2.99	194.10	8.83	194.62	14.23
193.07	1.98	193.59	3.05	194.11	8.98	194.63	14.25
193.08	2.00	193.60	3.10	194.12	9.14	194.64	14.28
193.09	2.03	193.61	3.16	194.13	9.29	194.65	14.30

Stage-Discharge for Pond B-36B: Basin #36B (continued)

Elevation (feet)	Primary (cfs)
194.66	14.32
194.67	14.35
194.68	14.37
194.69	14.39
194.70	14.42
194.71	14.44
194.72	14.46
194.73	14.49
194.74	14.51
194.75	14.53
194.76	14.56
194.77	14.58
194.78	14.60
194.79	14.62
194.80	14.65
194.81	14.67
194.82	14.69
194.83	14.72
194.84	14.74
194.85	14.76
194.86	14.78
194.87	14.81
194.88	14.83
194.89	14.85
194.90	14.87
194.91	14.90
194.92	14.92
194.93	14.94
194.94	14.96
194.95	14.99
194.96	15.13
194.97	15.36
194.98	15.66
194.99	16.01
195.00	16.41
195.01	16.84
195.02	17.32
195.03	17.82
195.04	18.36
195.05	18.93
195.06	19.52
195.07	20.14
195.08	20.79
195.09	21.47
195.10	22.16
195.11	22.89
195.12	23.63
195.13	24.40
195.14	25.18
195.15	25.99
195.16	26.86
195.17	27.75
195.18	28.67
195.19	29.62
195.20	30.59
195.21	31.58
195.22	32.60
195.23	33.65
195.24	34.72
195.25	**35.81**

Stage-Area-Storage for Pond B-36B: Basin #36B

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
190.50	0	0	191.02	2,126	570
190.51	42	0	191.03	2,133	591
190.52	84	1	191.04	2,141	613
190.53	127	2	191.05	2,149	634
190.54	169	3	191.06	2,157	656
190.55	211	5	191.07	2,165	677
190.56	253	8	191.08	2,173	699
190.57	295	10	191.09	2,180	721
190.58	338	14	191.10	2,188	742
190.59	380	17	191.11	2,196	764
190.60	422	21	191.12	2,204	786
190.61	464	26	191.13	2,212	808
190.62	506	30	191.14	2,220	831
190.63	549	36	191.15	2,227	853
190.64	591	41	191.16	2,235	875
190.65	633	47	191.17	2,243	898
190.66	675	54	191.18	2,251	920
190.67	717	61	191.19	2,259	943
190.68	760	68	191.20	2,267	965
190.69	802	76	191.21	2,274	988
190.70	844	84	191.22	2,282	1,011
190.71	886	93	191.23	2,290	1,034
190.72	928	102	191.24	2,298	1,056
190.73	971	112	191.25	2,306	1,079
190.74	1,013	122	191.26	2,314	1,103
190.75	1,055	132	191.27	2,321	1,126
190.76	1,097	143	191.28	2,329	1,149
190.77	1,139	154	191.29	2,337	1,172
190.78	1,182	165	191.30	2,345	1,196
190.79	1,224	177	191.31	2,353	1,219
190.80	1,266	190	191.32	2,361	1,243
190.81	1,308	203	191.33	2,368	1,266
190.82	1,350	216	191.34	2,376	1,290
190.83	1,393	230	191.35	2,384	1,314
190.84	1,435	244	191.36	2,392	1,338
190.85	1,477	258	191.37	2,400	1,362
190.86	1,519	273	191.38	2,408	1,386
190.87	1,561	289	191.39	2,415	1,410
190.88	1,604	305	191.40	2,423	1,434
190.89	1,646	321	191.41	2,431	1,458
190.90	1,688	338	191.42	2,439	1,483
190.91	1,730	355	191.43	2,447	1,507
190.92	1,772	372	191.44	2,455	1,532
190.93	1,815	390	191.45	2,462	1,556
190.94	1,857	408	191.46	2,470	1,581
190.95	1,899	427	191.47	2,478	1,606
190.96	1,941	446	191.48	2,486	1,631
190.97	1,983	466	191.49	2,494	1,655
190.98	2,026	486	191.50	2,502	1,680
190.99	2,068	507	191.51	2,509	1,705
191.00	2,110	528	191.52	2,517	1,731
191.01	2,118	549	191.53	2,525	1,756

Stage-Area-Storage for Pond B-36B: Basin #36B (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
191.54	2,533	1,781
191.55	2,541	1,806
191.56	2,548	1,832
191.57	2,556	1,857
191.58	2,564	1,883
191.59	2,572	1,909
191.60	2,580	1,934
191.61	2,588	1,960
191.62	2,595	1,986
191.63	2,603	2,012
191.64	2,611	2,038
191.65	2,619	2,064
191.66	2,627	2,091
191.67	2,635	2,117
191.68	2,642	2,143
191.69	2,650	2,170
191.70	2,658	2,196
191.71	2,666	2,223
191.72	2,674	2,250
191.73	2,682	2,276
191.74	2,689	2,303
191.75	2,697	2,330
191.76	2,705	2,357
191.77	2,713	2,384
191.78	2,721	2,411
191.79	2,729	2,439
191.80	2,736	2,466
191.81	2,744	2,493
191.82	2,752	2,521
191.83	2,760	2,549
191.84	2,768	2,576
191.85	2,776	2,604
191.86	2,783	2,632
191.87	2,791	2,660
191.88	2,799	2,687
191.89	2,807	2,716
191.90	2,815	2,744
191.91	2,823	2,772
191.92	2,830	2,800
191.93	2,838	2,828
191.94	2,846	2,857
191.95	2,854	2,885
191.96	2,862	2,914
191.97	2,870	2,943
191.98	2,877	2,971
191.99	2,885	3,000
192.00	2,893	3,029
192.01	2,901	3,058
192.02	2,910	3,087
192.03	2,918	3,116
192.04	2,926	3,145
192.05	2,935	3,175
192.06	2,943	3,204
192.07	2,952	3,234
192.08	2,960	3,263
192.09	2,968	3,293
192.10	2,977	3,322
192.11	2,985	3,352
192.12	2,993	3,382
192.13	3,002	3,412
192.14	3,010	3,442
192.15	3,019	3,472
192.16	3,027	3,503
192.17	3,035	3,533
192.18	3,044	3,563
192.19	3,052	3,594
192.20	3,060	3,624
192.21	3,069	3,655
192.22	3,077	3,686
192.23	3,086	3,717
192.24	3,094	3,747
192.25	3,102	3,778
192.26	3,111	3,809
192.27	3,119	3,841
192.28	3,127	3,872
192.29	3,136	3,903
192.30	3,144	3,935
192.31	3,152	3,966
192.32	3,161	3,998
192.33	3,169	4,029
192.34	3,178	4,061
192.35	3,186	4,093
192.36	3,194	4,125
192.37	3,203	4,157
192.38	3,211	4,189
192.39	3,219	4,221
192.40	3,228	4,253
192.41	3,236	4,285
192.42	3,245	4,318
192.43	3,253	4,350
192.44	3,261	4,383
192.45	3,270	4,416
192.46	3,278	4,448
192.47	3,286	4,481
192.48	3,295	4,514
192.49	3,303	4,547
192.50	3,312	4,580
192.51	3,320	4,613
192.52	3,328	4,647
192.53	3,337	4,680
192.54	3,345	4,713
192.55	3,353	4,747
192.56	3,362	4,780
192.57	3,370	4,814

Stage-Area-Storage for Pond B-36B: Basin #36B (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
192.58	3,378	4,848	193.10	3,812	6,718
192.59	3,387	4,882	193.11	3,820	6,756
192.60	3,395	4,915	193.12	3,828	6,794
192.61	3,404	4,949	193.13	3,836	6,832
192.62	3,412	4,984	193.14	3,844	6,871
192.63	3,420	5,018	193.15	3,853	6,909
192.64	3,429	5,052	193.16	3,861	6,948
192.65	3,437	5,086	193.17	3,869	6,986
192.66	3,445	5,121	193.18	3,877	7,025
192.67	3,454	5,155	193.19	3,885	7,064
192.68	3,462	5,190	193.20	3,893	7,103
192.69	3,471	5,224	193.21	3,902	7,142
192.70	3,479	5,259	193.22	3,910	7,181
192.71	3,487	5,294	193.23	3,918	7,220
192.72	3,496	5,329	193.24	3,926	7,259
192.73	3,504	5,364	193.25	3,934	7,299
192.74	3,512	5,399	193.26	3,942	7,338
192.75	3,521	5,434	193.27	3,951	7,377
192.76	3,529	5,469	193.28	3,959	7,417
192.77	3,537	5,505	193.29	3,967	7,457
192.78	3,546	5,540	193.30	3,975	7,496
192.79	3,554	5,576	193.31	3,983	7,536
192.80	3,563	5,611	193.32	3,991	7,576
192.81	3,571	5,647	193.33	4,000	7,616
192.82	3,579	5,683	193.34	4,008	7,656
192.83	3,588	5,718	193.35	4,016	7,696
192.84	3,596	5,754	193.36	4,024	7,736
192.85	3,604	5,790	193.37	4,032	7,777
192.86	3,613	5,827	193.38	4,040	7,817
192.87	3,621	5,863	193.39	4,049	7,857
192.88	3,630	5,899	193.40	4,057	7,898
192.89	3,638	5,935	193.41	4,065	7,938
192.90	3,646	5,972	193.42	4,073	7,979
192.91	3,655	6,008	193.43	4,081	8,020
192.92	3,663	6,045	193.44	4,089	8,061
192.93	3,671	6,081	193.45	4,098	8,102
192.94	3,680	6,118	193.46	4,106	8,143
192.95	3,688	6,155	193.47	4,114	8,184
192.96	3,697	6,192	193.48	4,122	8,225
192.97	3,705	6,229	193.49	4,130	8,266
192.98	3,713	6,266	193.50	4,139	8,308
192.99	3,722	6,303	193.51	4,147	8,349
193.00	3,730	6,341	193.52	4,155	8,391
193.01	3,738	6,378	193.53	4,163	8,432
193.02	3,746	6,415	193.54	4,171	8,474
193.03	3,755	6,453	193.55	4,179	8,516
193.04	3,763	6,490	193.56	4,188	8,557
193.05	3,771	6,528	193.57	4,196	8,599
193.06	3,779	6,566	193.58	4,204	8,641
193.07	3,787	6,604	193.59	4,212	8,683
193.08	3,795	6,642	193.60	4,220	8,726
193.09	3,804	6,680	193.61	4,228	8,768

Stage-Area-Storage for Pond B-36B: Basin #36B (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
193.62	4,237	8,810
193.63	4,245	8,853
193.64	4,253	8,895
193.65	4,261	8,938
193.66	4,269	8,980
193.67	4,277	9,023
193.68	4,286	9,066
193.69	4,294	9,109
193.70	4,302	9,152
193.71	4,310	9,195
193.72	4,318	9,238
193.73	4,326	9,281
193.74	4,335	9,324
193.75	4,343	9,368
193.76	4,351	9,411
193.77	4,359	9,455
193.78	4,367	9,498
193.79	4,375	9,542
193.80	4,384	9,586
193.81	4,392	9,630
193.82	4,400	9,674
193.83	4,408	9,718
193.84	4,416	9,762
193.85	4,424	9,806
193.86	4,433	9,850
193.87	4,441	9,895
193.88	4,449	9,939
193.89	4,457	9,984
193.90	4,465	10,028
193.91	4,473	10,073
193.92	4,482	10,118
193.93	4,490	10,163
193.94	4,498	10,208
193.95	4,506	10,253
193.96	4,514	10,298
193.97	4,522	10,343
193.98	4,531	10,388
193.99	4,539	10,434
194.00	4,547	10,479
194.01	4,555	10,525
194.02	4,563	10,570
194.03	4,571	10,616
194.04	4,579	10,662
194.05	4,587	10,707
194.06	4,596	10,753
194.07	4,604	10,799
194.08	4,612	10,845
194.09	4,620	10,892
194.10	4,628	10,938
194.11	4,636	10,984
194.12	4,644	11,030
194.13	4,652	11,077
194.14	4,660	11,124
194.15	4,668	11,170
194.16	4,676	11,217
194.17	4,685	11,264
194.18	4,693	11,311
194.19	4,701	11,358
194.20	4,709	11,405
194.21	4,717	11,452
194.22	4,725	11,499
194.23	4,733	11,546
194.24	4,741	11,594
194.25	4,749	11,641
194.26	4,757	11,689
194.27	4,765	11,736
194.28	4,774	11,784
194.29	4,782	11,832
194.30	4,790	11,880
194.31	4,798	11,927
194.32	4,806	11,975
194.33	4,814	12,024
194.34	4,822	12,072
194.35	4,830	12,120
194.36	4,838	12,168
194.37	4,846	12,217
194.38	4,854	12,265
194.39	4,863	12,314
194.40	4,871	12,363
194.41	4,879	12,411
194.42	4,887	12,460
194.43	4,895	12,509
194.44	4,903	12,558
194.45	4,911	12,607
194.46	4,919	12,656
194.47	4,927	12,705
194.48	4,935	12,755
194.49	4,943	12,804
194.50	4,952	12,854
194.51	4,960	12,903
194.52	4,968	12,953
194.53	4,976	13,003
194.54	4,984	13,052
194.55	4,992	13,102
194.56	5,000	13,152
194.57	5,008	13,202
194.58	5,016	13,252
194.59	5,024	13,303
194.60	5,032	13,353
194.61	5,040	13,403
194.62	5,049	13,454
194.63	5,057	13,504
194.64	5,065	13,555
194.65	5,073	13,605

Stage-Area-Storage for Pond B-36B: Basin #36B (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
194.66	5,081	13,656
194.67	5,089	13,707
194.68	5,097	13,758
194.69	5,105	13,809
194.70	5,113	13,860
194.71	5,121	13,911
194.72	5,129	13,963
194.73	5,138	14,014
194.74	5,146	14,065
194.75	5,154	14,117
194.76	5,162	14,168
194.77	5,170	14,220
194.78	5,178	14,272
194.79	5,186	14,324
194.80	5,194	14,375
194.81	5,202	14,427
194.82	5,210	14,480
194.83	5,218	14,532
194.84	5,227	14,584
194.85	5,235	14,636
194.86	5,243	14,689
194.87	5,251	14,741
194.88	5,259	14,794
194.89	5,267	14,846
194.90	5,275	14,899
194.91	5,283	14,952
194.92	5,291	15,005
194.93	5,299	15,058
194.94	5,307	15,111
194.95	5,316	15,164
194.96	5,324	15,217
194.97	5,332	15,270
194.98	5,340	15,324
194.99	5,348	15,377
195.00	5,356	15,431
195.01	5,386	15,484
195.02	5,417	15,538
195.03	5,447	15,593
195.04	5,477	15,647
195.05	5,507	15,702
195.06	5,538	15,757
195.07	5,568	15,813
195.08	5,598	15,869
195.09	5,629	15,925
195.10	5,659	15,981
195.11	5,689	16,038
195.12	5,719	16,095
195.13	5,750	16,152
195.14	5,780	16,210
195.15	5,810	16,268
195.16	5,840	16,326
195.17	5,871	16,385
195.18	5,901	16,444
195.19	5,931	16,503
195.20	5,962	16,562
195.21	5,992	16,622
195.22	6,022	16,682
195.23	6,052	16,742
195.24	6,083	16,803
195.25	**6,113**	**16,864**

Summary for Pond B-37A: Basin #37A

Inflow Area = 2.154 ac, 39.65% Impervious, Inflow Depth = 3.40" for Current 10 yr event
Inflow = 7.48 cfs @ 12.17 hrs, Volume= 0.611 af
Outflow = 3.20 cfs @ 12.38 hrs, Volume= 0.528 af, Atten= 57%, Lag= 12.4 min
Primary = 3.20 cfs @ 12.38 hrs, Volume= 0.528 af
Routed to Link PDA-3 : Proposed Drainage Area #3

Routing by Stor-Ind method, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
Peak Elev= 196.83' @ 12.38 hrs Surf.Area= 4,958 sf Storage= 12,179 cf

Plug-Flow detention time= 247.4 min calculated for 0.528 af (86% of inflow)
Center-of-Mass det. time= 182.4 min (974.2 - 791.8)

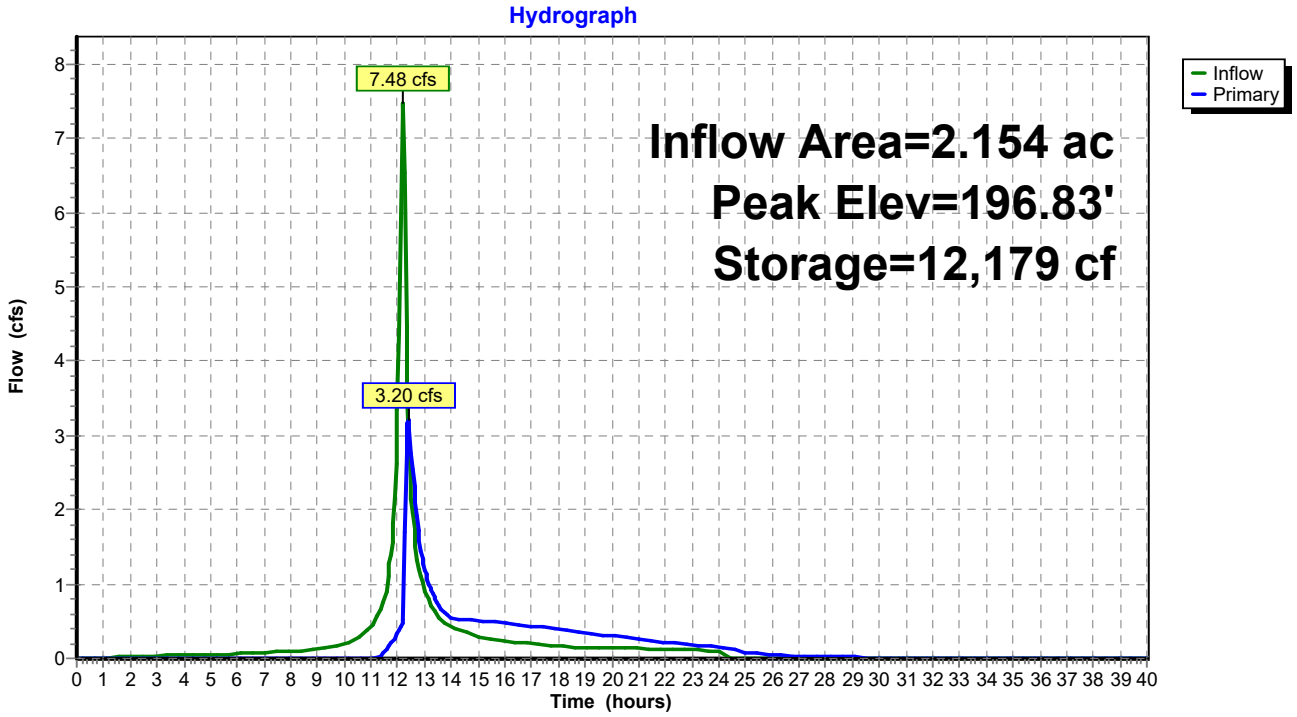
Volume	Invert	Avail.Storage	Storage Description
#1	193.30'	18,546 cf	**Custom Stage Data (Prismatic)** Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
193.30	0	0	0
194.00	2,990	1,046	1,046
195.00	3,633	3,312	4,358
196.00	4,332	3,983	8,340
197.00	5,089	4,711	13,051
198.00	5,901	5,495	18,546

Device	Routing	Invert	Outlet Devices
#1	Primary	192.65'	**18.0" Round Culvert** L= 265.0' Ke= 0.500 Inlet / Outlet Invert= 192.65' / 191.33' S= 0.0050 '/' Cc= 0.900 n= 0.013, Flow Area= 1.77 sf
#2	Device 1	194.77'	**4.0" Vert. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#3	Device 1	196.48'	**4.0' long Sharp-Crested Rectangular Weir** 2 End Contraction(s)
#4	Primary	197.95'	**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=3.17 cfs @ 12.38 hrs HW=196.82' (Free Discharge)
- **1=Culvert** (Passes 3.17 cfs of 11.25 cfs potential flow)
  - **2=Orifice/Grate** (Orifice Controls 0.58 cfs @ 6.62 fps)
  - **3=Sharp-Crested Rectangular Weir** (Weir Controls 2.60 cfs @ 1.92 fps)
- **4=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)

Pond B-37A: Basin #37A



Stage-Discharge for Pond B-37A: Basin #37A

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
193.30	0.00	193.82	0.00	194.34	0.00	194.86	0.02
193.31	0.00	193.83	0.00	194.35	0.00	194.87	0.02
193.32	0.00	193.84	0.00	194.36	0.00	194.88	0.03
193.33	0.00	193.85	0.00	194.37	0.00	194.89	0.03
193.34	0.00	193.86	0.00	194.38	0.00	194.90	0.04
193.35	0.00	193.87	0.00	194.39	0.00	194.91	0.04
193.36	0.00	193.88	0.00	194.40	0.00	194.92	0.05
193.37	0.00	193.89	0.00	194.41	0.00	194.93	0.06
193.38	0.00	193.90	0.00	194.42	0.00	194.94	0.06
193.39	0.00	193.91	0.00	194.43	0.00	194.95	0.07
193.40	0.00	193.92	0.00	194.44	0.00	194.96	0.08
193.41	0.00	193.93	0.00	194.45	0.00	194.97	0.08
193.42	0.00	193.94	0.00	194.46	0.00	194.98	0.09
193.43	0.00	193.95	0.00	194.47	0.00	194.99	0.10
193.44	0.00	193.96	0.00	194.48	0.00	195.00	0.10
193.45	0.00	193.97	0.00	194.49	0.00	195.01	0.11
193.46	0.00	193.98	0.00	194.50	0.00	195.02	0.12
193.47	0.00	193.99	0.00	194.51	0.00	195.03	0.13
193.48	0.00	194.00	0.00	194.52	0.00	195.04	0.13
193.49	0.00	194.01	0.00	194.53	0.00	195.05	0.14
193.50	0.00	194.02	0.00	194.54	0.00	195.06	0.15
193.51	0.00	194.03	0.00	194.55	0.00	195.07	0.15
193.52	0.00	194.04	0.00	194.56	0.00	195.08	0.16
193.53	0.00	194.05	0.00	194.57	0.00	195.09	0.17
193.54	0.00	194.06	0.00	194.58	0.00	195.10	0.17
193.55	0.00	194.07	0.00	194.59	0.00	195.11	0.17
193.56	0.00	194.08	0.00	194.60	0.00	195.12	0.18
193.57	0.00	194.09	0.00	194.61	0.00	195.13	0.18
193.58	0.00	194.10	0.00	194.62	0.00	195.14	0.19
193.59	0.00	194.11	0.00	194.63	0.00	195.15	0.19
193.60	0.00	194.12	0.00	194.64	0.00	195.16	0.20
193.61	0.00	194.13	0.00	194.65	0.00	195.17	0.20
193.62	0.00	194.14	0.00	194.66	0.00	195.18	0.21
193.63	0.00	194.15	0.00	194.67	0.00	195.19	0.21
193.64	0.00	194.16	0.00	194.68	0.00	195.20	0.22
193.65	0.00	194.17	0.00	194.69	0.00	195.21	0.22
193.66	0.00	194.18	0.00	194.70	0.00	195.22	0.22
193.67	0.00	194.19	0.00	194.71	0.00	195.23	0.23
193.68	0.00	194.20	0.00	194.72	0.00	195.24	0.23
193.69	0.00	194.21	0.00	194.73	0.00	195.25	0.24
193.70	0.00	194.22	0.00	194.74	0.00	195.26	0.24
193.71	0.00	194.23	0.00	194.75	0.00	195.27	0.24
193.72	0.00	194.24	0.00	194.76	0.00	195.28	0.25
193.73	0.00	194.25	0.00	194.77	0.00	195.29	0.25
193.74	0.00	194.26	0.00	194.78	0.00	195.30	0.25
193.75	0.00	194.27	0.00	194.79	0.00	195.31	0.26
193.76	0.00	194.28	0.00	194.80	0.00	195.32	0.26
193.77	0.00	194.29	0.00	194.81	0.00	195.33	0.26
193.78	0.00	194.30	0.00	194.82	0.01	195.34	0.27
193.79	0.00	194.31	0.00	194.83	0.01	195.35	0.27
193.80	0.00	194.32	0.00	194.84	0.01	195.36	0.27
193.81	0.00	194.33	0.00	194.85	0.02	195.37	0.28

Stage-Discharge for Pond B-37A: Basin #37A (continued)

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
195.38	0.28	195.90	0.41	196.42	0.51	196.94	4.58
195.39	0.28	195.91	0.41	196.43	0.51	196.95	4.71
195.40	0.29	195.92	0.42	196.44	0.52	196.96	4.84
195.41	0.29	195.93	0.42	196.45	0.52	196.97	4.98
195.42	0.29	195.94	0.42	196.46	0.52	196.98	5.11
195.43	0.30	195.95	0.42	196.47	0.52	196.99	5.24
195.44	0.30	195.96	0.43	196.48	0.52	197.00	5.38
195.45	0.30	195.97	0.43	196.49	0.54	197.01	5.52
195.46	0.30	195.98	0.43	196.50	0.56	197.02	5.66
195.47	0.31	195.99	0.43	196.51	0.59	197.03	5.80
195.48	0.31	196.00	0.43	196.52	0.63	197.04	5.94
195.49	0.31	196.01	0.44	196.53	0.68	197.05	6.08
195.50	0.32	196.02	0.44	196.54	0.72	197.06	6.22
195.51	0.32	196.03	0.44	196.55	0.78	197.07	6.37
195.52	0.32	196.04	0.44	196.56	0.83	197.08	6.51
195.53	0.32	196.05	0.44	196.57	0.89	197.09	6.66
195.54	0.33	196.06	0.45	196.58	0.95	197.10	6.81
195.55	0.33	196.07	0.45	196.59	1.01	197.11	6.95
195.56	0.33	196.08	0.45	196.60	1.08	197.12	7.10
195.57	0.33	196.09	0.45	196.61	1.15	197.13	7.25
195.58	0.34	196.10	0.45	196.62	1.23	197.14	7.41
195.59	0.34	196.11	0.46	196.63	1.30	197.15	7.56
195.60	0.34	196.12	0.46	196.64	1.38	197.16	7.71
195.61	0.34	196.13	0.46	196.65	1.46	197.17	7.87
195.62	0.35	196.14	0.46	196.66	1.54	197.18	8.02
195.63	0.35	196.15	0.46	196.67	1.63	197.19	8.18
195.64	0.35	196.16	0.46	196.68	1.71	197.20	8.34
195.65	0.35	196.17	0.47	196.69	1.80	197.21	8.49
195.66	0.36	196.18	0.47	196.70	1.89	197.22	8.65
195.67	0.36	196.19	0.47	196.71	1.99	197.23	8.81
195.68	0.36	196.20	0.47	196.72	2.08	197.24	8.97
195.69	0.36	196.21	0.47	196.73	2.18	197.25	9.14
195.70	0.37	196.22	0.48	196.74	2.28	197.26	9.30
195.71	0.37	196.23	0.48	196.75	2.38	197.27	9.46
195.72	0.37	196.24	0.48	196.76	2.48	197.28	9.63
195.73	0.37	196.25	0.48	196.77	2.58	197.29	9.79
195.74	0.38	196.26	0.48	196.78	2.69	197.30	9.96
195.75	0.38	196.27	0.49	196.79	2.79	197.31	10.13
195.76	0.38	196.28	0.49	196.80	2.90	197.32	10.30
195.77	0.38	196.29	0.49	196.81	3.01	197.33	10.46
195.78	0.39	196.30	0.49	196.82	3.13	197.34	10.63
195.79	0.39	196.31	0.49	196.83	3.24	197.35	10.81
195.80	0.39	196.32	0.49	196.84	3.35	197.36	10.98
195.81	0.39	196.33	0.50	196.85	3.47	197.37	11.15
195.82	0.39	196.34	0.50	196.86	3.59	197.38	11.32
195.83	0.40	196.35	0.50	196.87	3.71	197.39	11.50
195.84	0.40	196.36	0.50	196.88	3.83	197.40	11.67
195.85	0.40	196.37	0.50	196.89	3.95	197.41	11.85
195.86	0.40	196.38	0.50	196.90	4.07	197.42	12.02
195.87	0.41	196.39	0.51	196.91	4.20	197.43	12.07
195.88	0.41	196.40	0.51	196.92	4.33	197.44	12.09
195.89	0.41	196.41	0.51	196.93	4.45	197.45	12.10

Stage-Discharge for Pond B-37A: Basin #37A (continued)

Elevation (feet)	Primary (cfs)
197.46	12.11
197.47	12.13
197.48	12.14
197.49	12.15
197.50	12.17
197.51	12.18
197.52	12.19
197.53	12.20
197.54	12.22
197.55	12.23
197.56	12.24
197.57	12.26
197.58	12.27
197.59	12.28
197.60	12.29
197.61	12.31
197.62	12.32
197.63	12.33
197.64	12.35
197.65	12.36
197.66	12.37
197.67	12.38
197.68	12.40
197.69	12.41
197.70	12.42
197.71	12.44
197.72	12.45
197.73	12.46
197.74	12.47
197.75	12.49
197.76	12.50
197.77	12.51
197.78	12.52
197.79	12.54
197.80	12.55
197.81	12.56
197.82	12.57
197.83	12.59
197.84	12.60
197.85	12.61
197.86	12.63
197.87	12.64
197.88	12.65
197.89	12.66
197.90	12.68
197.91	12.69
197.92	12.70
197.93	12.71
197.94	12.73
197.95	12.74
197.96	12.87
197.97	13.09
197.98	13.38
197.99	13.73
198.00	**14.11**

Stage-Area-Storage for Pond B-37A: Basin #37A

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
193.30	0	0	193.82	2,221	577
193.31	43	0	193.83	2,264	600
193.32	85	1	193.84	2,307	623
193.33	128	2	193.85	2,349	646
193.34	171	3	193.86	2,392	670
193.35	214	5	193.87	2,435	694
193.36	256	8	193.88	2,477	718
193.37	299	10	193.89	2,520	743
193.38	342	14	193.90	2,563	769
193.39	384	17	193.91	2,606	795
193.40	427	21	193.92	2,648	821
193.41	470	26	193.93	2,691	848
193.42	513	31	193.94	2,734	875
193.43	555	36	193.95	2,776	902
193.44	598	42	193.96	2,819	930
193.45	641	48	193.97	2,862	959
193.46	683	55	193.98	2,905	988
193.47	726	62	193.99	2,947	1,017
193.48	769	69	194.00	2,990	1,046
193.49	812	77	194.01	2,996	1,076
193.50	854	85	194.02	3,003	1,106
193.51	897	94	194.03	3,009	1,136
193.52	940	103	194.04	3,016	1,167
193.53	982	113	194.05	3,022	1,197
193.54	1,025	123	194.06	3,029	1,227
193.55	1,068	133	194.07	3,035	1,257
193.56	1,111	144	194.08	3,041	1,288
193.57	1,153	156	194.09	3,048	1,318
193.58	1,196	167	194.10	3,054	1,349
193.59	1,239	180	194.11	3,061	1,379
193.60	1,281	192	194.12	3,067	1,410
193.61	1,324	205	194.13	3,074	1,441
193.62	1,367	219	194.14	3,080	1,471
193.63	1,410	233	194.15	3,086	1,502
193.64	1,452	247	194.16	3,093	1,533
193.65	1,495	262	194.17	3,099	1,564
193.66	1,538	277	194.18	3,106	1,595
193.67	1,580	292	194.19	3,112	1,626
193.68	1,623	308	194.20	3,119	1,657
193.69	1,666	325	194.21	3,125	1,689
193.70	1,709	342	194.22	3,131	1,720
193.71	1,751	359	194.23	3,138	1,751
193.72	1,794	377	194.24	3,144	1,783
193.73	1,837	395	194.25	3,151	1,814
193.74	1,879	413	194.26	3,157	1,846
193.75	1,922	432	194.27	3,164	1,877
193.76	1,965	452	194.28	3,170	1,909
193.77	2,008	472	194.29	3,176	1,941
193.78	2,050	492	194.30	3,183	1,972
193.79	2,093	513	194.31	3,189	2,004
193.80	2,136	534	194.32	3,196	2,036
193.81	2,178	555	194.33	3,202	2,068

Stage-Area-Storage for Pond B-37A: Basin #37A (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
194.34	3,209	2,100
194.35	3,215	2,132
194.36	3,221	2,165
194.37	3,228	2,197
194.38	3,234	2,229
194.39	3,241	2,262
194.40	3,247	2,294
194.41	3,254	2,326
194.42	3,260	2,359
194.43	3,266	2,392
194.44	3,273	2,424
194.45	3,279	2,457
194.46	3,286	2,490
194.47	3,292	2,523
194.48	3,299	2,556
194.49	3,305	2,589
194.50	3,312	2,622
194.51	3,318	2,655
194.52	3,324	2,688
194.53	3,331	2,722
194.54	3,337	2,755
194.55	3,344	2,788
194.56	3,350	2,822
194.57	3,357	2,855
194.58	3,363	2,889
194.59	3,369	2,923
194.60	3,376	2,956
194.61	3,382	2,990
194.62	3,389	3,024
194.63	3,395	3,058
194.64	3,402	3,092
194.65	3,408	3,126
194.66	3,414	3,160
194.67	3,421	3,194
194.68	3,427	3,228
194.69	3,434	3,263
194.70	3,440	3,297
194.71	3,447	3,331
194.72	3,453	3,366
194.73	3,459	3,401
194.74	3,466	3,435
194.75	3,472	3,470
194.76	3,479	3,505
194.77	3,485	3,539
194.78	3,492	3,574
194.79	3,498	3,609
194.80	3,504	3,644
194.81	3,511	3,679
194.82	3,517	3,714
194.83	3,524	3,750
194.84	3,530	3,785
194.85	3,537	3,820
194.86	3,543	3,856
194.87	3,549	3,891
194.88	3,556	3,927
194.89	3,562	3,962
194.90	3,569	3,998
194.91	3,575	4,034
194.92	3,582	4,069
194.93	3,588	4,105
194.94	3,594	4,141
194.95	3,601	4,177
194.96	3,607	4,213
194.97	3,614	4,249
194.98	3,620	4,285
194.99	3,627	4,322
195.00	3,633	4,358
195.01	3,640	4,394
195.02	3,647	4,431
195.03	3,654	4,467
195.04	3,661	4,504
195.05	3,668	4,541
195.06	3,675	4,577
195.07	3,682	4,614
195.08	3,689	4,651
195.09	3,696	4,688
195.10	3,703	4,725
195.11	3,710	4,762
195.12	3,717	4,799
195.13	3,724	4,836
195.14	3,731	4,873
195.15	3,738	4,911
195.16	3,745	4,948
195.17	3,752	4,986
195.18	3,759	5,023
195.19	3,766	5,061
195.20	3,773	5,099
195.21	3,780	5,136
195.22	3,787	5,174
195.23	3,794	5,212
195.24	3,801	5,250
195.25	3,808	5,288
195.26	3,815	5,326
195.27	3,822	5,364
195.28	3,829	5,403
195.29	3,836	5,441
195.30	3,843	5,479
195.31	3,850	5,518
195.32	3,857	5,556
195.33	3,864	5,595
195.34	3,871	5,634
195.35	3,878	5,672
195.36	3,885	5,711
195.37	3,892	5,750

Stage-Area-Storage for Pond B-37A: Basin #37A (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
195.38	3,899	5,789
195.39	3,906	5,828
195.40	3,913	5,867
195.41	3,920	5,906
195.42	3,927	5,946
195.43	3,934	5,985
195.44	3,941	6,024
195.45	3,948	6,064
195.46	3,955	6,103
195.47	3,962	6,143
195.48	3,969	6,182
195.49	3,976	6,222
195.50	3,983	6,262
195.51	3,989	6,302
195.52	3,996	6,342
195.53	4,003	6,382
195.54	4,010	6,422
195.55	4,017	6,462
195.56	4,024	6,502
195.57	4,031	6,542
195.58	4,038	6,583
195.59	4,045	6,623
195.60	4,052	6,664
195.61	4,059	6,704
195.62	4,066	6,745
195.63	4,073	6,786
195.64	4,080	6,826
195.65	4,087	6,867
195.66	4,094	6,908
195.67	4,101	6,949
195.68	4,108	6,990
195.69	4,115	7,031
195.70	4,122	7,072
195.71	4,129	7,114
195.72	4,136	7,155
195.73	4,143	7,196
195.74	4,150	7,238
195.75	4,157	7,279
195.76	4,164	7,321
195.77	4,171	7,363
195.78	4,178	7,404
195.79	4,185	7,446
195.80	4,192	7,488
195.81	4,199	7,530
195.82	4,206	7,572
195.83	4,213	7,614
195.84	4,220	7,656
195.85	4,227	7,699
195.86	4,234	7,741
195.87	4,241	7,783
195.88	4,248	7,826
195.89	4,255	7,868
195.90	4,262	7,911
195.91	4,269	7,953
195.92	4,276	7,996
195.93	4,283	8,039
195.94	4,290	8,082
195.95	4,297	8,125
195.96	4,304	8,168
195.97	4,311	8,211
195.98	4,318	8,254
195.99	4,325	8,297
196.00	4,332	8,340
196.01	4,340	8,384
196.02	4,347	8,427
196.03	4,355	8,471
196.04	4,362	8,514
196.05	4,370	8,558
196.06	4,377	8,602
196.07	4,385	8,646
196.08	4,393	8,689
196.09	4,400	8,733
196.10	4,408	8,777
196.11	4,415	8,822
196.12	4,423	8,866
196.13	4,430	8,910
196.14	4,438	8,954
196.15	4,446	8,999
196.16	4,453	9,043
196.17	4,461	9,088
196.18	4,468	9,133
196.19	4,476	9,177
196.20	4,483	9,222
196.21	4,491	9,267
196.22	4,499	9,312
196.23	4,506	9,357
196.24	4,514	9,402
196.25	4,521	9,447
196.26	4,529	9,492
196.27	4,536	9,538
196.28	4,544	9,583
196.29	4,552	9,629
196.30	4,559	9,674
196.31	4,567	9,720
196.32	4,574	9,765
196.33	4,582	9,811
196.34	4,589	9,857
196.35	4,597	9,903
196.36	4,605	9,949
196.37	4,612	9,995
196.38	4,620	10,041
196.39	4,627	10,088
196.40	4,635	10,134
196.41	4,642	10,180

Stage-Area-Storage for Pond B-37A: Basin #37A (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
196.42	4,650	10,227	196.94	5,044	12,747
196.43	4,658	10,273	196.95	5,051	12,797
196.44	4,665	10,320	196.96	5,059	12,848
196.45	4,673	10,367	196.97	5,066	12,899
196.46	4,680	10,413	196.98	5,074	12,949
196.47	4,688	10,460	196.99	5,081	13,000
196.48	4,695	10,507	197.00	5,089	13,051
196.49	4,703	10,554	197.01	5,097	13,102
196.50	4,711	10,601	197.02	5,105	13,153
196.51	4,718	10,648	197.03	5,113	13,204
196.52	4,726	10,695	197.04	5,121	13,255
196.53	4,733	10,743	197.05	5,130	13,306
196.54	4,741	10,790	197.06	5,138	13,358
196.55	4,748	10,838	197.07	5,146	13,409
196.56	4,756	10,885	197.08	5,154	13,461
196.57	4,763	10,933	197.09	5,162	13,512
196.58	4,771	10,980	197.10	5,170	13,564
196.59	4,779	11,028	197.11	5,178	13,616
196.60	4,786	11,076	197.12	5,186	13,668
196.61	4,794	11,124	197.13	5,195	13,719
196.62	4,801	11,172	197.14	5,203	13,771
196.63	4,809	11,220	197.15	5,211	13,823
196.64	4,816	11,268	197.16	5,219	13,876
196.65	4,824	11,316	197.17	5,227	13,928
196.66	4,832	11,364	197.18	5,235	13,980
196.67	4,839	11,413	197.19	5,243	14,033
196.68	4,847	11,461	197.20	5,251	14,085
196.69	4,854	11,510	197.21	5,260	14,138
196.70	4,862	11,558	197.22	5,268	14,190
196.71	4,869	11,607	197.23	5,276	14,243
196.72	4,877	11,656	197.24	5,284	14,296
196.73	4,885	11,705	197.25	5,292	14,349
196.74	4,892	11,753	197.26	5,300	14,402
196.75	4,900	11,802	197.27	5,308	14,455
196.76	4,907	11,851	197.28	5,316	14,508
196.77	4,915	11,901	197.29	5,324	14,561
196.78	4,922	11,950	197.30	5,333	14,614
196.79	4,930	11,999	197.31	5,341	14,668
196.80	4,938	12,048	197.32	5,349	14,721
196.81	4,945	12,098	197.33	5,357	14,775
196.82	4,953	12,147	197.34	5,365	14,828
196.83	4,960	12,197	197.35	5,373	14,882
196.84	4,968	12,246	197.36	5,381	14,936
196.85	4,975	12,296	197.37	5,389	14,990
196.86	4,983	12,346	197.38	5,398	15,043
196.87	4,991	12,396	197.39	5,406	15,097
196.88	4,998	12,446	197.40	5,414	15,152
196.89	5,006	12,496	197.41	5,422	15,206
196.90	5,013	12,546	197.42	5,430	15,260
196.91	5,021	12,596	197.43	5,438	15,314
196.92	5,028	12,646	197.44	5,446	15,369
196.93	5,036	12,697	197.45	5,454	15,423

Stage-Area-Storage for Pond B-37A: Basin #37A (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
197.46	5,463	15,478
197.47	5,471	15,533
197.48	5,479	15,587
197.49	5,487	15,642
197.50	5,495	15,697
197.51	5,503	15,752
197.52	5,511	15,807
197.53	5,519	15,862
197.54	5,527	15,917
197.55	5,536	15,973
197.56	5,544	16,028
197.57	5,552	16,084
197.58	5,560	16,139
197.59	5,568	16,195
197.60	5,576	16,251
197.61	5,584	16,306
197.62	5,592	16,362
197.63	5,601	16,418
197.64	5,609	16,474
197.65	5,617	16,530
197.66	5,625	16,587
197.67	5,633	16,643
197.68	5,641	16,699
197.69	5,649	16,756
197.70	5,657	16,812
197.71	5,666	16,869
197.72	5,674	16,926
197.73	5,682	16,982
197.74	5,690	17,039
197.75	5,698	17,096
197.76	5,706	17,153
197.77	5,714	17,210
197.78	5,722	17,267
197.79	5,730	17,325
197.80	5,739	17,382
197.81	5,747	17,439
197.82	5,755	17,497
197.83	5,763	17,555
197.84	5,771	17,612
197.85	5,779	17,670
197.86	5,787	17,728
197.87	5,795	17,786
197.88	5,804	17,844
197.89	5,812	17,902
197.90	5,820	17,960
197.91	5,828	18,018
197.92	5,836	18,077
197.93	5,844	18,135
197.94	5,852	18,193
197.95	5,860	18,252
197.96	5,869	18,311
197.97	5,877	18,369
197.98	5,885	18,428
197.99	5,893	18,487
198.00	**5,901**	**18,546**

Summary for Pond B-37B: Basin #37B

Inflow Area = 2.179 ac, 53.42% Impervious, Inflow Depth = 3.74" for Current 10 yr event
Inflow = 8.14 cfs @ 12.17 hrs, Volume= 0.678 af
Outflow = 2.04 cfs @ 12.56 hrs, Volume= 0.550 af, Atten= 75%, Lag= 23.4 min
Primary = 2.04 cfs @ 12.56 hrs, Volume= 0.550 af
Routed to Link PDA-3 : Proposed Drainage Area #3

Routing by Stor-Ind method, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
Peak Elev= 196.90' @ 12.56 hrs Surf.Area= 6,810 sf Storage= 16,442 cf

Plug-Flow detention time= 526.4 min calculated for 0.550 af (81% of inflow)
Center-of-Mass det. time= 446.5 min (1,226.5 - 780.0)

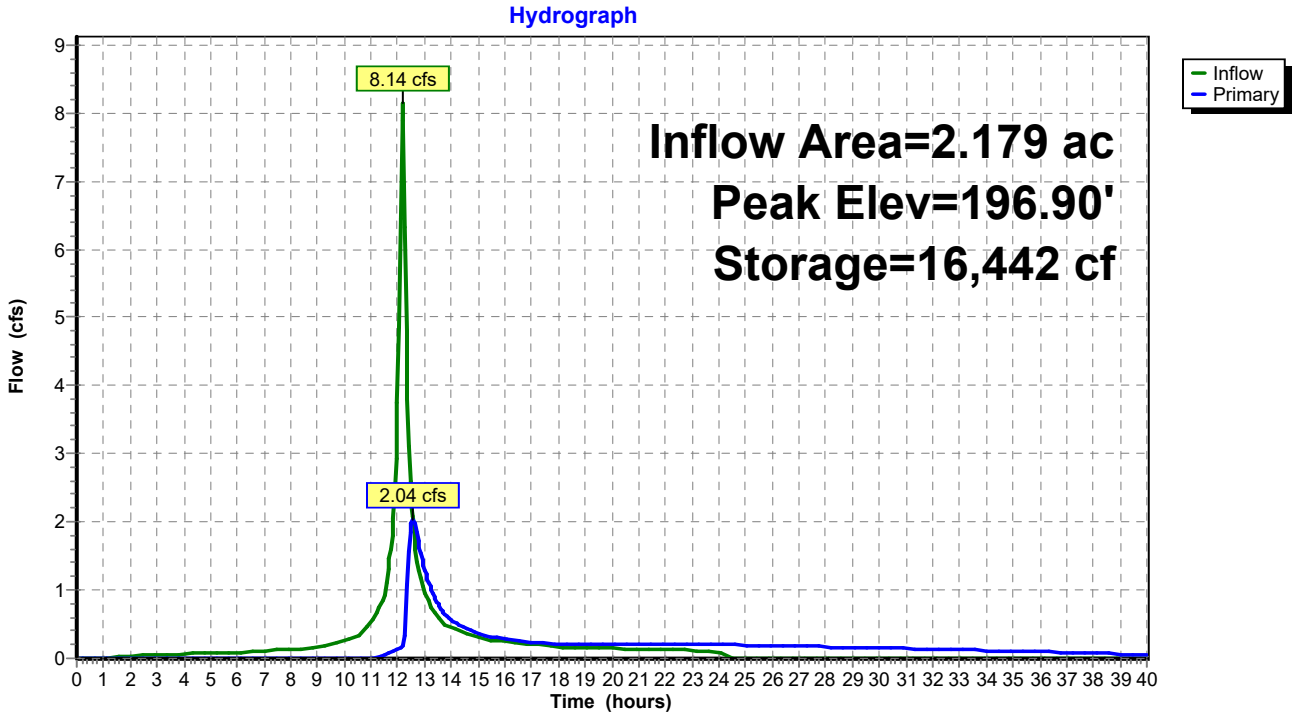
Volume	Invert	Avail.Storage	Storage Description
#1	193.30'	24,651 cf	**Custom Stage Data (Prismatic)** Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
193.30	0	0	0
194.00	3,709	1,298	1,298
195.00	4,724	4,217	5,515
196.00	5,796	5,260	10,775
197.00	6,924	6,360	17,135
198.00	8,108	7,516	24,651

Device	Routing	Invert	Outlet Devices
#1	Primary	192.65'	**18.0" Round Culvert** L= 265.0' Ke= 0.500 Inlet / Outlet Invert= 192.65' / 191.33' S= 0.0050 '/' Cc= 0.900 n= 0.013, Flow Area= 1.77 sf
#2	Device 1	194.81'	**2.5" Vert. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#3	Device 1	196.63'	**4.0' long Sharp-Crested Rectangular Weir** 2 End Contraction(s)
#4	Primary	197.95'	**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=2.03 cfs @ 12.56 hrs HW=196.90' (Free Discharge)
- **1=Culvert** (Passes 2.03 cfs of 11.35 cfs potential flow)
  - **2=Orifice/Grate** (Orifice Controls 0.23 cfs @ 6.78 fps)
  - **3=Sharp-Crested Rectangular Weir** (Weir Controls 1.80 cfs @ 1.69 fps)
- **4=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)

Pond B-37B: Basin #37B



Stage-Discharge for Pond B-37B: Basin #37B

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
193.30	0.00	193.82	0.00	194.34	0.00	194.86	0.00
193.31	0.00	193.83	0.00	194.35	0.00	194.87	0.01
193.32	0.00	193.84	0.00	194.36	0.00	194.88	0.01
193.33	0.00	193.85	0.00	194.37	0.00	194.89	0.01
193.34	0.00	193.86	0.00	194.38	0.00	194.90	0.01
193.35	0.00	193.87	0.00	194.39	0.00	194.91	0.02
193.36	0.00	193.88	0.00	194.40	0.00	194.92	0.02
193.37	0.00	193.89	0.00	194.41	0.00	194.93	0.02
193.38	0.00	193.90	0.00	194.42	0.00	194.94	0.03
193.39	0.00	193.91	0.00	194.43	0.00	194.95	0.03
193.40	0.00	193.92	0.00	194.44	0.00	194.96	0.03
193.41	0.00	193.93	0.00	194.45	0.00	194.97	0.04
193.42	0.00	193.94	0.00	194.46	0.00	194.98	0.04
193.43	0.00	193.95	0.00	194.47	0.00	194.99	0.05
193.44	0.00	193.96	0.00	194.48	0.00	195.00	0.05
193.45	0.00	193.97	0.00	194.49	0.00	195.01	0.05
193.46	0.00	193.98	0.00	194.50	0.00	195.02	0.05
193.47	0.00	193.99	0.00	194.51	0.00	195.03	0.06
193.48	0.00	194.00	0.00	194.52	0.00	195.04	0.06
193.49	0.00	194.01	0.00	194.53	0.00	195.05	0.06
193.50	0.00	194.02	0.00	194.54	0.00	195.06	0.06
193.51	0.00	194.03	0.00	194.55	0.00	195.07	0.06
193.52	0.00	194.04	0.00	194.56	0.00	195.08	0.07
193.53	0.00	194.05	0.00	194.57	0.00	195.09	0.07
193.54	0.00	194.06	0.00	194.58	0.00	195.10	0.07
193.55	0.00	194.07	0.00	194.59	0.00	195.11	0.07
193.56	0.00	194.08	0.00	194.60	0.00	195.12	0.07
193.57	0.00	194.09	0.00	194.61	0.00	195.13	0.08
193.58	0.00	194.10	0.00	194.62	0.00	195.14	0.08
193.59	0.00	194.11	0.00	194.63	0.00	195.15	0.08
193.60	0.00	194.12	0.00	194.64	0.00	195.16	0.08
193.61	0.00	194.13	0.00	194.65	0.00	195.17	0.08
193.62	0.00	194.14	0.00	194.66	0.00	195.18	0.08
193.63	0.00	194.15	0.00	194.67	0.00	195.19	0.09
193.64	0.00	194.16	0.00	194.68	0.00	195.20	0.09
193.65	0.00	194.17	0.00	194.69	0.00	195.21	0.09
193.66	0.00	194.18	0.00	194.70	0.00	195.22	0.09
193.67	0.00	194.19	0.00	194.71	0.00	195.23	0.09
193.68	0.00	194.20	0.00	194.72	0.00	195.24	0.09
193.69	0.00	194.21	0.00	194.73	0.00	195.25	0.10
193.70	0.00	194.22	0.00	194.74	0.00	195.26	0.10
193.71	0.00	194.23	0.00	194.75	0.00	195.27	0.10
193.72	0.00	194.24	0.00	194.76	0.00	195.28	0.10
193.73	0.00	194.25	0.00	194.77	0.00	195.29	0.10
193.74	0.00	194.26	0.00	194.78	0.00	195.30	0.10
193.75	0.00	194.27	0.00	194.79	0.00	195.31	0.10
193.76	0.00	194.28	0.00	194.80	0.00	195.32	0.10
193.77	0.00	194.29	0.00	194.81	0.00	195.33	0.11
193.78	0.00	194.30	0.00	194.82	0.00	195.34	0.11
193.79	0.00	194.31	0.00	194.83	0.00	195.35	0.11
193.80	0.00	194.32	0.00	194.84	0.00	195.36	0.11
193.81	0.00	194.33	0.00	194.85	0.00	195.37	0.11

Stage-Discharge for Pond B-37B: Basin #37B (continued)

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
195.38	0.11	195.90	0.16	196.42	0.20	196.94	2.46
195.39	0.11	195.91	0.16	196.43	0.20	196.95	2.56
195.40	0.11	195.92	0.16	196.44	0.20	196.96	2.67
195.41	0.12	195.93	0.17	196.45	0.20	196.97	2.78
195.42	0.12	195.94	0.17	196.46	0.20	196.98	2.90
195.43	0.12	195.95	0.17	196.47	0.20	196.99	3.01
195.44	0.12	195.96	0.17	196.48	0.21	197.00	3.13
195.45	0.12	195.97	0.17	196.49	0.21	197.01	3.24
195.46	0.12	195.98	0.17	196.50	0.21	197.02	3.36
195.47	0.12	195.99	0.17	196.51	0.21	197.03	3.48
195.48	0.12	196.00	0.17	196.52	0.21	197.04	3.60
195.49	0.12	196.01	0.17	196.53	0.21	197.05	3.73
195.50	0.13	196.02	0.17	196.54	0.21	197.06	3.85
195.51	0.13	196.03	0.17	196.55	0.21	197.07	3.97
195.52	0.13	196.04	0.17	196.56	0.21	197.08	4.10
195.53	0.13	196.05	0.17	196.57	0.21	197.09	4.23
195.54	0.13	196.06	0.18	196.58	0.21	197.10	4.36
195.55	0.13	196.07	0.18	196.59	0.21	197.11	4.49
195.56	0.13	196.08	0.18	196.60	0.21	197.12	4.62
195.57	0.13	196.09	0.18	196.61	0.21	197.13	4.75
195.58	0.13	196.10	0.18	196.62	0.21	197.14	4.89
195.59	0.13	196.11	0.18	196.63	0.22	197.15	5.02
195.60	0.14	196.12	0.18	196.64	0.23	197.16	5.16
195.61	0.14	196.13	0.18	196.65	0.25	197.17	5.30
195.62	0.14	196.14	0.18	196.66	0.28	197.18	5.44
195.63	0.14	196.15	0.18	196.67	0.32	197.19	5.58
195.64	0.14	196.16	0.18	196.68	0.36	197.20	5.72
195.65	0.14	196.17	0.18	196.69	0.41	197.21	5.86
195.66	0.14	196.18	0.18	196.70	0.46	197.22	6.00
195.67	0.14	196.19	0.19	196.71	0.51	197.23	6.15
195.68	0.14	196.20	0.19	196.72	0.57	197.24	6.29
195.69	0.14	196.21	0.19	196.73	0.63	197.25	6.44
195.70	0.15	196.22	0.19	196.74	0.70	197.26	6.59
195.71	0.15	196.23	0.19	196.75	0.76	197.27	6.73
195.72	0.15	196.24	0.19	196.76	0.83	197.28	6.88
195.73	0.15	196.25	0.19	196.77	0.90	197.29	7.03
195.74	0.15	196.26	0.19	196.78	0.98	197.30	7.19
195.75	0.15	196.27	0.19	196.79	1.06	197.31	7.34
195.76	0.15	196.28	0.19	196.80	1.13	197.32	7.49
195.77	0.15	196.29	0.19	196.81	1.22	197.33	7.65
195.78	0.15	196.30	0.19	196.82	1.30	197.34	7.80
195.79	0.15	196.31	0.19	196.83	1.39	197.35	7.96
195.80	0.15	196.32	0.19	196.84	1.47	197.36	8.12
195.81	0.16	196.33	0.20	196.85	1.56	197.37	8.28
195.82	0.16	196.34	0.20	196.86	1.66	197.38	8.43
195.83	0.16	196.35	0.20	196.87	1.75	197.39	8.60
195.84	0.16	196.36	0.20	196.88	1.84	197.40	8.76
195.85	0.16	196.37	0.20	196.89	1.94	197.41	8.92
195.86	0.16	196.38	0.20	196.90	2.04	197.42	9.08
195.87	0.16	196.39	0.20	196.91	2.14	197.43	9.25
195.88	0.16	196.40	0.20	196.92	2.25	197.44	9.41
195.89	0.16	196.41	0.20	196.93	2.35	197.45	9.58

Stage-Discharge for Pond B-37B: Basin #37B (continued)

Elevation (feet)	Primary (cfs)
197.46	9.74
197.47	9.91
197.48	10.08
197.49	10.25
197.50	10.42
197.51	10.59
197.52	10.76
197.53	10.93
197.54	11.10
197.55	11.28
197.56	11.45
197.57	11.63
197.58	11.80
197.59	11.98
197.60	12.16
197.61	12.31
197.62	12.32
197.63	12.33
197.64	12.35
197.65	12.36
197.66	12.37
197.67	12.38
197.68	12.40
197.69	12.41
197.70	12.42
197.71	12.44
197.72	12.45
197.73	12.46
197.74	12.47
197.75	12.49
197.76	12.50
197.77	12.51
197.78	12.52
197.79	12.54
197.80	12.55
197.81	12.56
197.82	12.57
197.83	12.59
197.84	12.60
197.85	12.61
197.86	12.63
197.87	12.64
197.88	12.65
197.89	12.66
197.90	12.68
197.91	12.69
197.92	12.70
197.93	12.71
197.94	12.73
197.95	12.74
197.96	12.87
197.97	13.09
197.98	13.38
197.99	13.73
198.00	**14.11**

Stage-Area-Storage for Pond B-37B: Basin #37B

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
193.30	0	0
193.31	53	0
193.32	106	1
193.33	159	2
193.34	212	4
193.35	265	7
193.36	318	10
193.37	371	13
193.38	424	17
193.39	477	21
193.40	530	26
193.41	583	32
193.42	636	38
193.43	689	45
193.44	742	52
193.45	795	60
193.46	848	68
193.47	901	77
193.48	954	86
193.49	1,007	96
193.50	1,060	106
193.51	1,113	117
193.52	1,166	128
193.53	1,219	140
193.54	1,272	153
193.55	1,325	166
193.56	1,378	179
193.57	1,431	193
193.58	1,484	208
193.59	1,537	223
193.60	1,590	238
193.61	1,643	255
193.62	1,696	271
193.63	1,749	289
193.64	1,802	306
193.65	1,855	325
193.66	1,907	343
193.67	1,960	363
193.68	2,013	383
193.69	2,066	403
193.70	2,119	424
193.71	2,172	445
193.72	2,225	467
193.73	2,278	490
193.74	2,331	513
193.75	2,384	536
193.76	2,437	561
193.77	2,490	585
193.78	2,543	610
193.79	2,596	636
193.80	2,649	662
193.81	2,702	689
193.82	2,755	716
193.83	2,808	744
193.84	2,861	773
193.85	2,914	801
193.86	2,967	831
193.87	3,020	861
193.88	3,073	891
193.89	3,126	922
193.90	3,179	954
193.91	3,232	986
193.92	3,285	1,018
193.93	3,338	1,052
193.94	3,391	1,085
193.95	3,444	1,119
193.96	3,497	1,154
193.97	3,550	1,189
193.98	3,603	1,225
193.99	3,656	1,261
194.00	3,709	1,298
194.01	3,719	1,335
194.02	3,729	1,373
194.03	3,739	1,410
194.04	3,750	1,447
194.05	3,760	1,485
194.06	3,770	1,523
194.07	3,780	1,560
194.08	3,790	1,598
194.09	3,800	1,636
194.10	3,811	1,674
194.11	3,821	1,712
194.12	3,831	1,751
194.13	3,841	1,789
194.14	3,851	1,827
194.15	3,861	1,866
194.16	3,871	1,905
194.17	3,882	1,943
194.18	3,892	1,982
194.19	3,902	2,021
194.20	3,912	2,060
194.21	3,922	2,099
194.22	3,932	2,139
194.23	3,942	2,178
194.24	3,953	2,218
194.25	3,963	2,257
194.26	3,973	2,297
194.27	3,983	2,337
194.28	3,993	2,376
194.29	4,003	2,416
194.30	4,014	2,457
194.31	4,024	2,497
194.32	4,034	2,537
194.33	4,044	2,577

Stage-Area-Storage for Pond B-37B: Basin #37B (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
194.34	4,054	2,618
194.35	4,064	2,658
194.36	4,074	2,699
194.37	4,085	2,740
194.38	4,095	2,781
194.39	4,105	2,822
194.40	4,115	2,863
194.41	4,125	2,904
194.42	4,135	2,945
194.43	4,145	2,987
194.44	4,156	3,028
194.45	4,166	3,070
194.46	4,176	3,112
194.47	4,186	3,153
194.48	4,196	3,195
194.49	4,206	3,237
194.50	4,217	3,280
194.51	4,227	3,322
194.52	4,237	3,364
194.53	4,247	3,406
194.54	4,257	3,449
194.55	4,267	3,492
194.56	4,277	3,534
194.57	4,288	3,577
194.58	4,298	3,620
194.59	4,308	3,663
194.60	4,318	3,706
194.61	4,328	3,749
194.62	4,338	3,793
194.63	4,348	3,836
194.64	4,359	3,880
194.65	4,369	3,923
194.66	4,379	3,967
194.67	4,389	4,011
194.68	4,399	4,055
194.69	4,409	4,099
194.70	4,420	4,143
194.71	4,430	4,187
194.72	4,440	4,232
194.73	4,450	4,276
194.74	4,460	4,321
194.75	4,470	4,365
194.76	4,480	4,410
194.77	4,491	4,455
194.78	4,501	4,500
194.79	4,511	4,545
194.80	4,521	4,590
194.81	4,531	4,635
194.82	4,541	4,681
194.83	4,551	4,726
194.84	4,562	4,772
194.85	4,572	4,817
194.86	4,582	4,863
194.87	4,592	4,909
194.88	4,602	4,955
194.89	4,612	5,001
194.90	4,623	5,047
194.91	4,633	5,094
194.92	4,643	5,140
194.93	4,653	5,186
194.94	4,663	5,233
194.95	4,673	5,280
194.96	4,683	5,327
194.97	4,694	5,373
194.98	4,704	5,420
194.99	4,714	5,467
195.00	4,724	5,515
195.01	4,735	5,562
195.02	4,745	5,609
195.03	4,756	5,657
195.04	4,767	5,704
195.05	4,778	5,752
195.06	4,788	5,800
195.07	4,799	5,848
195.08	4,810	5,896
195.09	4,820	5,944
195.10	4,831	5,992
195.11	4,842	6,041
195.12	4,853	6,089
195.13	4,863	6,138
195.14	4,874	6,187
195.15	4,885	6,235
195.16	4,896	6,284
195.17	4,906	6,333
195.18	4,917	6,382
195.19	4,928	6,432
195.20	4,938	6,481
195.21	4,949	6,530
195.22	4,960	6,580
195.23	4,971	6,630
195.24	4,981	6,679
195.25	4,992	6,729
195.26	5,003	6,779
195.27	5,013	6,829
195.28	5,024	6,879
195.29	5,035	6,930
195.30	5,046	6,980
195.31	5,056	7,031
195.32	5,067	7,081
195.33	5,078	7,132
195.34	5,088	7,183
195.35	5,099	7,234
195.36	5,110	7,285
195.37	5,121	7,336

Stage-Area-Storage for Pond B-37B: Basin #37B (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
195.38	5,131	7,387	195.90	5,689	10,200
195.39	5,142	7,439	195.91	5,700	10,257
195.40	5,153	7,490	195.92	5,710	10,314
195.41	5,164	7,542	195.93	5,721	10,372
195.42	5,174	7,593	195.94	5,732	10,429
195.43	5,185	7,645	195.95	5,742	10,486
195.44	5,196	7,697	195.96	5,753	10,544
195.45	5,206	7,749	195.97	5,764	10,601
195.46	5,217	7,801	195.98	5,775	10,659
195.47	5,228	7,853	195.99	5,785	10,717
195.48	5,239	7,906	196.00	5,796	10,775
195.49	5,249	7,958	196.01	5,807	10,833
195.50	5,260	8,011	196.02	5,819	10,891
195.51	5,271	8,063	196.03	5,830	10,949
195.52	5,281	8,116	196.04	5,841	11,007
195.53	5,292	8,169	196.05	5,852	11,066
195.54	5,303	8,222	196.06	5,864	11,124
195.55	5,314	8,275	196.07	5,875	11,183
195.56	5,324	8,328	196.08	5,886	11,242
195.57	5,335	8,381	196.09	5,898	11,301
195.58	5,346	8,435	196.10	5,909	11,360
195.59	5,356	8,488	196.11	5,920	11,419
195.60	5,367	8,542	196.12	5,931	11,478
195.61	5,378	8,596	196.13	5,943	11,538
195.62	5,389	8,650	196.14	5,954	11,597
195.63	5,399	8,704	196.15	5,965	11,657
195.64	5,410	8,758	196.16	5,976	11,716
195.65	5,421	8,812	196.17	5,988	11,776
195.66	5,432	8,866	196.18	5,999	11,836
195.67	5,442	8,920	196.19	6,010	11,896
195.68	5,453	8,975	196.20	6,022	11,956
195.69	5,464	9,029	196.21	6,033	12,017
195.70	5,474	9,084	196.22	6,044	12,077
195.71	5,485	9,139	196.23	6,055	12,138
195.72	5,496	9,194	196.24	6,067	12,198
195.73	5,507	9,249	196.25	6,078	12,259
195.74	5,517	9,304	196.26	6,089	12,320
195.75	5,528	9,359	196.27	6,101	12,381
195.76	5,539	9,414	196.28	6,112	12,442
195.77	5,549	9,470	196.29	6,123	12,503
195.78	5,560	9,525	196.30	6,134	12,564
195.79	5,571	9,581	196.31	6,146	12,626
195.80	5,582	9,637	196.32	6,157	12,687
195.81	5,592	9,693	196.33	6,168	12,749
195.82	5,603	9,749	196.34	6,180	12,810
195.83	5,614	9,805	196.35	6,191	12,872
195.84	5,624	9,861	196.36	6,202	12,934
195.85	5,635	9,917	196.37	6,213	12,996
195.86	5,646	9,974	196.38	6,225	13,059
195.87	5,657	10,030	196.39	6,236	13,121
195.88	5,667	10,087	196.40	6,247	13,183
195.89	5,678	10,144	196.41	6,258	13,246

Stage-Area-Storage for Pond B-37B: Basin #37B (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
196.42	6,270	13,308	196.94	6,856	16,721
196.43	6,281	13,371	196.95	6,868	16,790
196.44	6,292	13,434	196.96	6,879	16,859
196.45	6,304	13,497	196.97	6,890	16,927
196.46	6,315	13,560	196.98	6,901	16,996
196.47	6,326	13,623	196.99	6,913	17,065
196.48	6,337	13,687	197.00	6,924	17,135
196.49	6,349	13,750	197.01	6,936	17,204
196.50	6,360	13,814	197.02	6,948	17,273
196.51	6,371	13,877	197.03	6,960	17,343
196.52	6,383	13,941	197.04	6,971	17,413
196.53	6,394	14,005	197.05	6,983	17,482
196.54	6,405	14,069	197.06	6,995	17,552
196.55	6,416	14,133	197.07	7,007	17,622
196.56	6,428	14,197	197.08	7,019	17,692
196.57	6,439	14,262	197.09	7,031	17,763
196.58	6,450	14,326	197.10	7,042	17,833
196.59	6,462	14,391	197.11	7,054	17,903
196.60	6,473	14,455	197.12	7,066	17,974
196.61	6,484	14,520	197.13	7,078	18,045
196.62	6,495	14,585	197.14	7,090	18,116
196.63	6,507	14,650	197.15	7,102	18,187
196.64	6,518	14,715	197.16	7,113	18,258
196.65	6,529	14,780	197.17	7,125	18,329
196.66	6,540	14,846	197.18	7,137	18,400
196.67	6,552	14,911	197.19	7,149	18,472
196.68	6,563	14,977	197.20	7,161	18,543
196.69	6,574	15,042	197.21	7,173	18,615
196.70	6,586	15,108	197.22	7,184	18,687
196.71	6,597	15,174	197.23	7,196	18,758
196.72	6,608	15,240	197.24	7,208	18,831
196.73	6,619	15,306	197.25	7,220	18,903
196.74	6,631	15,373	197.26	7,232	18,975
196.75	6,642	15,439	197.27	7,244	19,047
196.76	6,653	15,505	197.28	7,256	19,120
196.77	6,665	15,572	197.29	7,267	19,192
196.78	6,676	15,639	197.30	7,279	19,265
196.79	6,687	15,705	197.31	7,291	19,338
196.80	6,698	15,772	197.32	7,303	19,411
196.81	6,710	15,839	197.33	7,315	19,484
196.82	6,721	15,907	197.34	7,327	19,557
196.83	6,732	15,974	197.35	7,338	19,631
196.84	6,744	16,041	197.36	7,350	19,704
196.85	6,755	16,109	197.37	7,362	19,778
196.86	6,766	16,176	197.38	7,374	19,851
196.87	6,777	16,244	197.39	7,386	19,925
196.88	6,789	16,312	197.40	7,398	19,999
196.89	6,800	16,380	197.41	7,409	20,073
196.90	6,811	16,448	197.42	7,421	20,147
196.91	6,822	16,516	197.43	7,433	20,221
196.92	6,834	16,584	197.44	7,445	20,296
196.93	6,845	16,653	197.45	7,457	20,370

Stage-Area-Storage for Pond B-37B: Basin #37B (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
197.46	7,469	20,445
197.47	7,480	20,520
197.48	7,492	20,595
197.49	7,504	20,670
197.50	7,516	20,745
197.51	7,528	20,820
197.52	7,540	20,895
197.53	7,552	20,971
197.54	7,563	21,046
197.55	7,575	21,122
197.56	7,587	21,198
197.57	7,599	21,274
197.58	7,611	21,350
197.59	7,623	21,426
197.60	7,634	21,502
197.61	7,646	21,579
197.62	7,658	21,655
197.63	7,670	21,732
197.64	7,682	21,808
197.65	7,694	21,885
197.66	7,705	21,962
197.67	7,717	22,039
197.68	7,729	22,117
197.69	7,741	22,194
197.70	7,753	22,272
197.71	7,765	22,349
197.72	7,776	22,427
197.73	7,788	22,505
197.74	7,800	22,583
197.75	7,812	22,661
197.76	7,824	22,739
197.77	7,836	22,817
197.78	7,848	22,896
197.79	7,859	22,974
197.80	7,871	23,053
197.81	7,883	23,132
197.82	7,895	23,210
197.83	7,907	23,289
197.84	7,919	23,369
197.85	7,930	23,448
197.86	7,942	23,527
197.87	7,954	23,607
197.88	7,966	23,686
197.89	7,978	23,766
197.90	7,990	23,846
197.91	8,001	23,926
197.92	8,013	24,006
197.93	8,025	24,086
197.94	8,037	24,166
197.95	8,049	24,247
197.96	8,061	24,327
197.97	8,072	24,408
197.98	8,084	24,489
197.99	8,096	24,570
198.00	**8,108**	**24,651**

Summary for Pond B-38: Basin #38

Inflow Area = 2.114 ac, 34.96% Impervious, Inflow Depth = 3.29" for Current 10 yr event
Inflow = 7.14 cfs @ 12.17 hrs, Volume= 0.580 af
Outflow = 1.79 cfs @ 12.57 hrs, Volume= 0.486 af, Atten= 75%, Lag= 24.1 min
Primary = 1.79 cfs @ 12.57 hrs, Volume= 0.486 af
Routed to Link PDA-3 : Proposed Drainage Area #3

Routing by Stor-Ind method, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
Peak Elev= 206.94' @ 12.57 hrs Surf.Area= 6,835 sf Storage= 13,311 cf

Plug-Flow detention time= 489.8 min calculated for 0.486 af (84% of inflow)
Center-of-Mass det. time= 418.2 min (1,214.5 - 796.3)

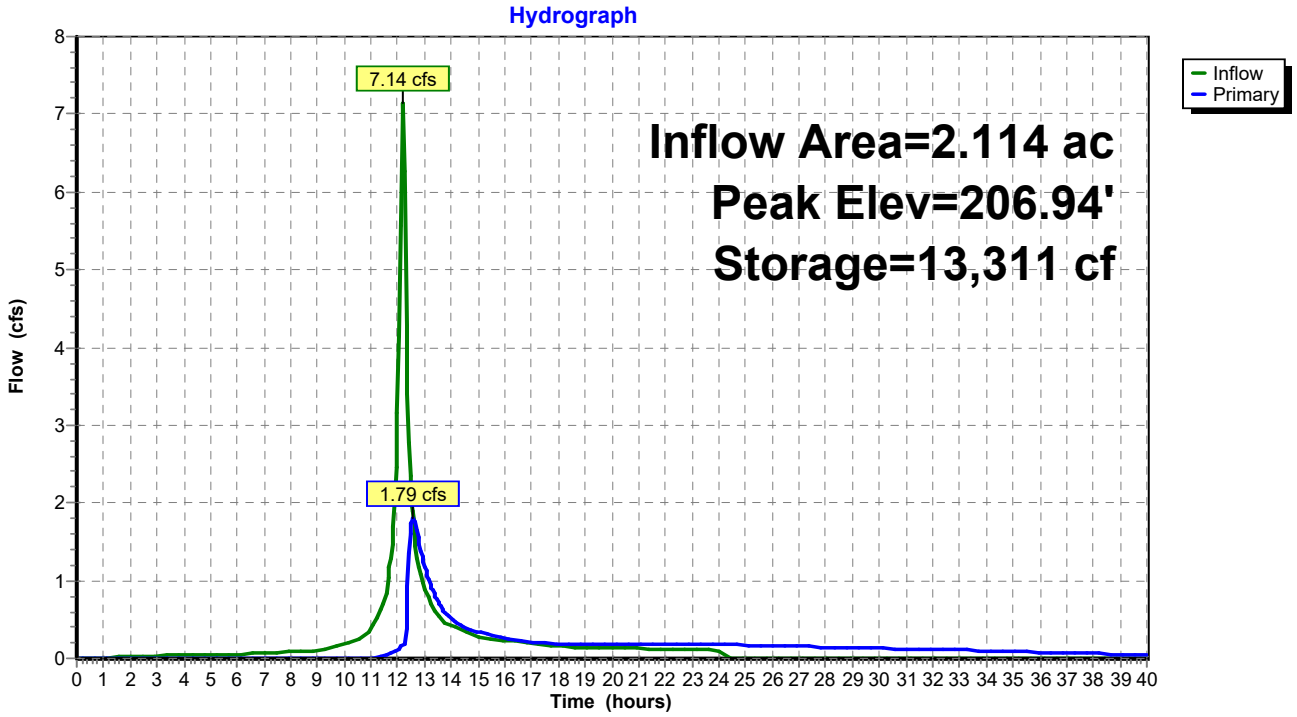
Volume	Invert	Avail.Storage	Storage Description
#1	204.30'	29,525 cf	**Custom Stage Data (Prismatic)** Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
204.30	0	0	0
205.00	5,096	1,784	1,784
206.00	5,966	5,531	7,315
207.00	6,893	6,430	13,744
208.00	7,876	7,385	21,129
209.00	8,916	8,396	29,525

Device	Routing	Invert	Outlet Devices
#1	Primary	204.30'	**18.0" Round Culvert** L= 33.0' Ke= 0.500 Inlet / Outlet Invert= 204.30' / 204.13' S= 0.0052 '/' Cc= 0.900 n= 0.013, Flow Area= 1.77 sf
#2	Device 1	205.26'	**2.5" Vert. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#3	Device 1	206.69'	**4.0' long Sharp-Crested Rectangular Weir** 2 End Contraction(s)
#4	Primary	208.25'	**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=1.78 cfs @ 12.57 hrs HW=206.94' (Free Discharge)
- **1=Culvert** (Passes 1.78 cfs of 11.18 cfs potential flow)
  - **2=Orifice/Grate** (Orifice Controls 0.21 cfs @ 6.04 fps)
  - **3=Sharp-Crested Rectangular Weir** (Weir Controls 1.58 cfs @ 1.62 fps)
- **4=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)

Pond B-38: Basin #38



Stage-Discharge for Pond B-38: Basin #38

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
204.30	0.00	204.82	0.00	205.34	0.01	205.86	0.12
204.31	0.00	204.83	0.00	205.35	0.01	205.87	0.12
204.32	0.00	204.84	0.00	205.36	0.02	205.88	0.12
204.33	0.00	204.85	0.00	205.37	0.02	205.89	0.12
204.34	0.00	204.86	0.00	205.38	0.02	205.90	0.12
204.35	0.00	204.87	0.00	205.39	0.03	205.91	0.12
204.36	0.00	204.88	0.00	205.40	0.03	205.92	0.12
204.37	0.00	204.89	0.00	205.41	0.03	205.93	0.12
204.38	0.00	204.90	0.00	205.42	0.04	205.94	0.12
204.39	0.00	204.91	0.00	205.43	0.04	205.95	0.13
204.40	0.00	204.92	0.00	205.44	0.05	205.96	0.13
204.41	0.00	204.93	0.00	205.45	0.05	205.97	0.13
204.42	0.00	204.94	0.00	205.46	0.05	205.98	0.13
204.43	0.00	204.95	0.00	205.47	0.05	205.99	0.13
204.44	0.00	204.96	0.00	205.48	0.06	206.00	0.13
204.45	0.00	204.97	0.00	205.49	0.06	206.01	0.13
204.46	0.00	204.98	0.00	205.50	0.06	206.02	0.13
204.47	0.00	204.99	0.00	205.51	0.06	206.03	0.13
204.48	0.00	205.00	0.00	205.52	0.06	206.04	0.13
204.49	0.00	205.01	0.00	205.53	0.07	206.05	0.14
204.50	0.00	205.02	0.00	205.54	0.07	206.06	0.14
204.51	0.00	205.03	0.00	205.55	0.07	206.07	0.14
204.52	0.00	205.04	0.00	205.56	0.07	206.08	0.14
204.53	0.00	205.05	0.00	205.57	0.07	206.09	0.14
204.54	0.00	205.06	0.00	205.58	0.08	206.10	0.14
204.55	0.00	205.07	0.00	205.59	0.08	206.11	0.14
204.56	0.00	205.08	0.00	205.60	0.08	206.12	0.14
204.57	0.00	205.09	0.00	205.61	0.08	206.13	0.14
204.58	0.00	205.10	0.00	205.62	0.08	206.14	0.14
204.59	0.00	205.11	0.00	205.63	0.08	206.15	0.15
204.60	0.00	205.12	0.00	205.64	0.09	206.16	0.15
204.61	0.00	205.13	0.00	205.65	0.09	206.17	0.15
204.62	0.00	205.14	0.00	205.66	0.09	206.18	0.15
204.63	0.00	205.15	0.00	205.67	0.09	206.19	0.15
204.64	0.00	205.16	0.00	205.68	0.09	206.20	0.15
204.65	0.00	205.17	0.00	205.69	0.09	206.21	0.15
204.66	0.00	205.18	0.00	205.70	0.10	206.22	0.15
204.67	0.00	205.19	0.00	205.71	0.10	206.23	0.15
204.68	0.00	205.20	0.00	205.72	0.10	206.24	0.15
204.69	0.00	205.21	0.00	205.73	0.10	206.25	0.15
204.70	0.00	205.22	0.00	205.74	0.10	206.26	0.16
204.71	0.00	205.23	0.00	205.75	0.10	206.27	0.16
204.72	0.00	205.24	0.00	205.76	0.10	206.28	0.16
204.73	0.00	205.25	0.00	205.77	0.10	206.29	0.16
204.74	0.00	205.26	0.00	205.78	0.11	206.30	0.16
204.75	0.00	205.27	0.00	205.79	0.11	206.31	0.16
204.76	0.00	205.28	0.00	205.80	0.11	206.32	0.16
204.77	0.00	205.29	0.00	205.81	0.11	206.33	0.16
204.78	0.00	205.30	0.00	205.82	0.11	206.34	0.16
204.79	0.00	205.31	0.00	205.83	0.11	206.35	0.16
204.80	0.00	205.32	0.01	205.84	0.11	206.36	0.16
204.81	0.00	205.33	0.01	205.85	0.11	206.37	0.16

Stage-Discharge for Pond B-38: Basin #38 (continued)

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
206.38	0.17	206.90	1.45	207.42	8.10	207.94	14.46
206.39	0.17	206.91	1.54	207.43	8.25	207.95	14.49
206.40	0.17	206.92	1.63	207.44	8.41	207.96	14.51
206.41	0.17	206.93	1.72	207.45	8.57	207.97	14.54
206.42	0.17	206.94	1.82	207.46	8.74	207.98	14.56
206.43	0.17	206.95	1.92	207.47	8.90	207.99	14.59
206.44	0.17	206.96	2.02	207.48	9.06	208.00	14.61
206.45	0.17	206.97	2.12	207.49	9.22	208.01	14.64
206.46	0.17	206.98	2.22	207.50	9.39	208.02	14.66
206.47	0.17	206.99	2.33	207.51	9.55	208.03	14.69
206.48	0.17	207.00	2.43	207.52	9.72	208.04	14.71
206.49	0.17	207.01	2.54	207.53	9.89	208.05	14.74
206.50	0.17	207.02	2.65	207.54	10.06	208.06	14.76
206.51	0.18	207.03	2.76	207.55	10.23	208.07	14.79
206.52	0.18	207.04	2.87	207.56	10.40	208.08	14.81
206.53	0.18	207.05	2.99	207.57	10.57	208.09	14.84
206.54	0.18	207.06	3.10	207.58	10.74	208.10	14.86
206.55	0.18	207.07	3.22	207.59	10.91	208.11	14.88
206.56	0.18	207.08	3.34	207.60	11.08	208.12	14.91
206.57	0.18	207.09	3.46	207.61	11.26	208.13	14.93
206.58	0.18	207.10	3.58	207.62	11.43	208.14	14.96
206.59	0.18	207.11	3.70	207.63	11.61	208.15	14.98
206.60	0.18	207.12	3.83	207.64	11.78	208.16	15.01
206.61	0.18	207.13	3.95	207.65	11.96	208.17	15.03
206.62	0.18	207.14	4.08	207.66	12.14	208.18	15.05
206.63	0.18	207.15	4.21	207.67	12.32	208.19	15.08
206.64	0.19	207.16	4.34	207.68	12.50	208.20	15.10
206.65	0.19	207.17	4.47	207.69	12.68	208.21	15.13
206.66	0.19	207.18	4.60	207.70	12.86	208.22	15.15
206.67	0.19	207.19	4.73	207.71	13.04	208.23	15.17
206.68	0.19	207.20	4.86	207.72	13.22	208.24	15.20
206.69	0.19	207.21	5.00	207.73	13.40	208.25	15.22
206.70	0.20	207.22	5.14	207.74	13.59	208.26	15.36
206.71	0.23	207.23	5.27	207.75	13.77	208.27	15.60
206.72	0.26	207.24	5.41	207.76	13.96	208.28	15.90
206.73	0.30	207.25	5.55	207.77	14.03	208.29	16.25
206.74	0.34	207.26	5.69	207.78	14.06	208.30	16.65
206.75	0.38	207.27	5.84	207.79	14.08	208.31	17.09
206.76	0.44	207.28	5.98	207.80	14.11	208.32	17.56
206.77	0.49	207.29	6.12	207.81	14.14	208.33	18.07
206.78	0.55	207.30	6.27	207.82	14.16	208.34	18.61
206.79	0.61	207.31	6.42	207.83	14.19	208.35	19.17
206.80	0.67	207.32	6.56	207.84	14.21	208.36	19.77
206.81	0.74	207.33	6.71	207.85	14.24	208.37	20.40
206.82	0.81	207.34	6.86	207.86	14.26	208.38	21.05
206.83	0.88	207.35	7.01	207.87	14.29	208.39	21.72
206.84	0.95	207.36	7.16	207.88	14.31	208.40	22.42
206.85	1.03	207.37	7.32	207.89	14.34	208.41	23.14
206.86	1.11	207.38	7.47	207.90	14.36	208.42	23.89
206.87	1.19	207.39	7.63	207.91	14.39	208.43	24.66
206.88	1.28	207.40	7.78	207.92	14.41	208.44	25.44
206.89	1.36	207.41	7.94	207.93	14.44	208.45	26.25

Stage-Discharge for Pond B-38: Basin #38 (continued)

Elevation (feet)	Primary (cfs)
208.46	27.12
208.47	28.02
208.48	28.94
208.49	29.89
208.50	30.86
208.51	31.85
208.52	32.88
208.53	33.92
208.54	34.99
208.55	36.09
208.56	37.21
208.57	38.35
208.58	39.52
208.59	40.71
208.60	41.93
208.61	43.17
208.62	44.43
208.63	45.72
208.64	47.04
208.65	48.37
208.66	49.76
208.67	51.18
208.68	52.62
208.69	54.08
208.70	55.58
208.71	57.09
208.72	58.64
208.73	60.21
208.74	61.81
208.75	63.43
208.76	65.08
208.77	66.76
208.78	68.46
208.79	70.19
208.80	71.95
208.81	73.73
208.82	75.54
208.83	77.38
208.84	79.24
208.85	81.14
208.86	82.78
208.87	84.45
208.88	86.12
208.89	87.81
208.90	89.51
208.91	91.23
208.92	92.96
208.93	94.70
208.94	96.45
208.95	98.22
208.96	100.00
208.97	101.79
208.98	103.60
208.99	105.42
209.00	**107.25**

Stage-Area-Storage for Pond B-38: Basin #38

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
204.30	0	0
204.31	73	0
204.32	146	1
204.33	218	3
204.34	291	6
204.35	364	9
204.36	437	13
204.37	510	18
204.38	582	23
204.39	655	29
204.40	728	36
204.41	801	44
204.42	874	52
204.43	946	62
204.44	1,019	71
204.45	1,092	82
204.46	1,165	93
204.47	1,238	105
204.48	1,310	118
204.49	1,383	131
204.50	1,456	146
204.51	1,529	161
204.52	1,602	176
204.53	1,674	193
204.54	1,747	210
204.55	1,820	228
204.56	1,893	246
204.57	1,966	265
204.58	2,038	285
204.59	2,111	306
204.60	2,184	328
204.61	2,257	350
204.62	2,330	373
204.63	2,402	396
204.64	2,475	421
204.65	2,548	446
204.66	2,621	472
204.67	2,694	498
204.68	2,766	526
204.69	2,839	554
204.70	2,912	582
204.71	2,985	612
204.72	3,058	642
204.73	3,130	673
204.74	3,203	705
204.75	3,276	737
204.76	3,349	770
204.77	3,422	804
204.78	3,494	839
204.79	3,567	874
204.80	3,640	910
204.81	3,713	947
204.82	3,786	984
204.83	3,858	1,022
204.84	3,931	1,061
204.85	4,004	1,101
204.86	4,077	1,142
204.87	4,150	1,183
204.88	4,222	1,224
204.89	4,295	1,267
204.90	4,368	1,310
204.91	4,441	1,354
204.92	4,514	1,399
204.93	4,586	1,445
204.94	4,659	1,491
204.95	4,732	1,538
204.96	4,805	1,586
204.97	4,878	1,634
204.98	4,950	1,683
204.99	5,023	1,733
205.00	5,096	1,784
205.01	5,105	1,835
205.02	5,113	1,886
205.03	5,122	1,937
205.04	5,131	1,988
205.05	5,140	2,039
205.06	5,148	2,091
205.07	5,157	2,142
205.08	5,166	2,194
205.09	5,174	2,246
205.10	5,183	2,298
205.11	5,192	2,349
205.12	5,200	2,401
205.13	5,209	2,453
205.14	5,218	2,506
205.15	5,227	2,558
205.16	5,235	2,610
205.17	5,244	2,662
205.18	5,253	2,715
205.19	5,261	2,768
205.20	5,270	2,820
205.21	5,279	2,873
205.22	5,287	2,926
205.23	5,296	2,979
205.24	5,305	3,032
205.25	5,314	3,085
205.26	5,322	3,138
205.27	5,331	3,191
205.28	5,340	3,245
205.29	5,348	3,298
205.30	5,357	3,352
205.31	5,366	3,405
205.32	5,374	3,459
205.33	5,383	3,513

Stage-Area-Storage for Pond B-38: Basin #38 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
205.34	5,392	3,567	205.86	5,844	6,488
205.35	5,401	3,620	205.87	5,853	6,546
205.36	5,409	3,675	205.88	5,862	6,605
205.37	5,418	3,729	205.89	5,870	6,664
205.38	5,427	3,783	205.90	5,879	6,722
205.39	5,435	3,837	205.91	5,888	6,781
205.40	5,444	3,892	205.92	5,896	6,840
205.41	5,453	3,946	205.93	5,905	6,899
205.42	5,461	4,001	205.94	5,914	6,958
205.43	5,470	4,055	205.95	5,923	7,017
205.44	5,479	4,110	205.96	5,931	7,077
205.45	5,488	4,165	205.97	5,940	7,136
205.46	5,496	4,220	205.98	5,949	7,195
205.47	5,505	4,275	205.99	5,957	7,255
205.48	5,514	4,330	206.00	5,966	7,315
205.49	5,522	4,385	206.01	5,975	7,374
205.50	5,531	4,440	206.02	5,985	7,434
205.51	5,540	4,496	206.03	5,994	7,494
205.52	5,548	4,551	206.04	6,003	7,554
205.53	5,557	4,607	206.05	6,012	7,614
205.54	5,566	4,662	206.06	6,022	7,674
205.55	5,575	4,718	206.07	6,031	7,734
205.56	5,583	4,774	206.08	6,040	7,795
205.57	5,592	4,830	206.09	6,049	7,855
205.58	5,601	4,886	206.10	6,059	7,916
205.59	5,609	4,942	206.11	6,068	7,976
205.60	5,618	4,998	206.12	6,077	8,037
205.61	5,627	5,054	206.13	6,087	8,098
205.62	5,635	5,110	206.14	6,096	8,159
205.63	5,644	5,167	206.15	6,105	8,220
205.64	5,653	5,223	206.16	6,114	8,281
205.65	5,662	5,280	206.17	6,124	8,342
205.66	5,670	5,336	206.18	6,133	8,403
205.67	5,679	5,393	206.19	6,142	8,465
205.68	5,688	5,450	206.20	6,151	8,526
205.69	5,696	5,507	206.21	6,161	8,588
205.70	5,705	5,564	206.22	6,170	8,650
205.71	5,714	5,621	206.23	6,179	8,711
205.72	5,722	5,678	206.24	6,188	8,773
205.73	5,731	5,735	206.25	6,198	8,835
205.74	5,740	5,793	206.26	6,207	8,897
205.75	5,749	5,850	206.27	6,216	8,959
205.76	5,757	5,908	206.28	6,226	9,021
205.77	5,766	5,965	206.29	6,235	9,084
205.78	5,775	6,023	206.30	6,244	9,146
205.79	5,783	6,081	206.31	6,253	9,209
205.80	5,792	6,139	206.32	6,263	9,271
205.81	5,801	6,197	206.33	6,272	9,334
205.82	5,809	6,255	206.34	6,281	9,397
205.83	5,818	6,313	206.35	6,290	9,459
205.84	5,827	6,371	206.36	6,300	9,522
205.85	5,836	6,429	206.37	6,309	9,585

Stage-Area-Storage for Pond B-38: Basin #38 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
206.38	6,318	9,649	206.90	6,800	13,059
206.39	6,328	9,712	206.91	6,810	13,127
206.40	6,337	9,775	206.92	6,819	13,196
206.41	6,346	9,839	206.93	6,828	13,264
206.42	6,355	9,902	206.94	6,837	13,332
206.43	6,365	9,966	206.95	6,847	13,401
206.44	6,374	10,029	206.96	6,856	13,469
206.45	6,383	10,093	206.97	6,865	13,538
206.46	6,392	10,157	206.98	6,874	13,606
206.47	6,402	10,221	206.99	6,884	13,675
206.48	6,411	10,285	207.00	6,893	13,744
206.49	6,420	10,349	207.01	6,903	13,813
206.50	6,430	10,413	207.02	6,913	13,882
206.51	6,439	10,478	207.03	6,922	13,951
206.52	6,448	10,542	207.04	6,932	14,021
206.53	6,457	10,607	207.05	6,942	14,090
206.54	6,467	10,671	207.06	6,952	14,159
206.55	6,476	10,736	207.07	6,962	14,229
206.56	6,485	10,801	207.08	6,972	14,299
206.57	6,494	10,866	207.09	6,981	14,368
206.58	6,504	10,931	207.10	6,991	14,438
206.59	6,513	10,996	207.11	7,001	14,508
206.60	6,522	11,061	207.12	7,011	14,578
206.61	6,531	11,126	207.13	7,021	14,648
206.62	6,541	11,192	207.14	7,031	14,719
206.63	6,550	11,257	207.15	7,040	14,789
206.64	6,559	11,323	207.16	7,050	14,860
206.65	6,569	11,388	207.17	7,060	14,930
206.66	6,578	11,454	207.18	7,070	15,001
206.67	6,587	11,520	207.19	7,080	15,072
206.68	6,596	11,586	207.20	7,090	15,142
206.69	6,606	11,652	207.21	7,099	15,213
206.70	6,615	11,718	207.22	7,109	15,284
206.71	6,624	11,784	207.23	7,119	15,355
206.72	6,633	11,850	207.24	7,129	15,427
206.73	6,643	11,917	207.25	7,139	15,498
206.74	6,652	11,983	207.26	7,149	15,570
206.75	6,661	12,050	207.27	7,158	15,641
206.76	6,671	12,116	207.28	7,168	15,713
206.77	6,680	12,183	207.29	7,178	15,784
206.78	6,689	12,250	207.30	7,188	15,856
206.79	6,698	12,317	207.31	7,198	15,928
206.80	6,708	12,384	207.32	7,208	16,000
206.81	6,717	12,451	207.33	7,217	16,072
206.82	6,726	12,518	207.34	7,227	16,145
206.83	6,735	12,586	207.35	7,237	16,217
206.84	6,745	12,653	207.36	7,247	16,289
206.85	6,754	12,721	207.37	7,257	16,362
206.86	6,763	12,788	207.38	7,267	16,434
206.87	6,772	12,856	207.39	7,276	16,507
206.88	6,782	12,924	207.40	7,286	16,580
206.89	6,791	12,991	207.41	7,296	16,653

Stage-Area-Storage for Pond B-38: Basin #38 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
207.42	7,306	16,726	207.94	7,817	20,658
207.43	7,316	16,799	207.95	7,827	20,736
207.44	7,326	16,872	207.96	7,837	20,814
207.45	7,335	16,945	207.97	7,847	20,893
207.46	7,345	17,019	207.98	7,856	20,971
207.47	7,355	17,092	207.99	7,866	21,050
207.48	7,365	17,166	208.00	7,876	21,129
207.49	7,375	17,240	208.01	7,886	21,207
207.50	7,385	17,313	208.02	7,897	21,286
207.51	7,394	17,387	208.03	7,907	21,365
207.52	7,404	17,461	208.04	7,918	21,444
207.53	7,414	17,535	208.05	7,928	21,524
207.54	7,424	17,610	208.06	7,938	21,603
207.55	7,434	17,684	208.07	7,949	21,682
207.56	7,443	17,758	208.08	7,959	21,762
207.57	7,453	17,833	208.09	7,970	21,842
207.58	7,463	17,907	208.10	7,980	21,921
207.59	7,473	17,982	208.11	7,990	22,001
207.60	7,483	18,057	208.12	8,001	22,081
207.61	7,493	18,132	208.13	8,011	22,161
207.62	7,502	18,207	208.14	8,022	22,241
207.63	7,512	18,282	208.15	8,032	22,322
207.64	7,522	18,357	208.16	8,042	22,402
207.65	7,532	18,432	208.17	8,053	22,483
207.66	7,542	18,508	208.18	8,063	22,563
207.67	7,552	18,583	208.19	8,074	22,644
207.68	7,561	18,659	208.20	8,084	22,725
207.69	7,571	18,734	208.21	8,094	22,805
207.70	7,581	18,810	208.22	8,105	22,886
207.71	7,591	18,886	208.23	8,115	22,968
207.72	7,601	18,962	208.24	8,126	23,049
207.73	7,611	19,038	208.25	8,136	23,130
207.74	7,620	19,114	208.26	8,146	23,212
207.75	7,630	19,190	208.27	8,157	23,293
207.76	7,640	19,267	208.28	8,167	23,375
207.77	7,650	19,343	208.29	8,178	23,456
207.78	7,660	19,420	208.30	8,188	23,538
207.79	7,670	19,496	208.31	8,198	23,620
207.80	7,679	19,573	208.32	8,209	23,702
207.81	7,689	19,650	208.33	8,219	23,784
207.82	7,699	19,727	208.34	8,230	23,867
207.83	7,709	19,804	208.35	8,240	23,949
207.84	7,719	19,881	208.36	8,250	24,031
207.85	7,729	19,958	208.37	8,261	24,114
207.86	7,738	20,036	208.38	8,271	24,197
207.87	7,748	20,113	208.39	8,282	24,279
207.88	7,758	20,191	208.40	8,292	24,362
207.89	7,768	20,268	208.41	8,302	24,445
207.90	7,778	20,346	208.42	8,313	24,528
207.91	7,788	20,424	208.43	8,323	24,611
207.92	7,797	20,502	208.44	8,334	24,695
207.93	7,807	20,580	208.45	8,344	24,778

Stage-Area-Storage for Pond B-38: Basin #38 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
208.46	8,354	24,862
208.47	8,365	24,945
208.48	8,375	25,029
208.49	8,386	25,113
208.50	8,396	25,197
208.51	8,406	25,281
208.52	8,417	25,365
208.53	8,427	25,449
208.54	8,438	25,533
208.55	8,448	25,618
208.56	8,458	25,702
208.57	8,469	25,787
208.58	8,479	25,872
208.59	8,490	25,956
208.60	8,500	26,041
208.61	8,510	26,126
208.62	8,521	26,212
208.63	8,531	26,297
208.64	8,542	26,382
208.65	8,552	26,468
208.66	8,562	26,553
208.67	8,573	26,639
208.68	8,583	26,725
208.69	8,594	26,811
208.70	8,604	26,897
208.71	8,614	26,983
208.72	8,625	27,069
208.73	8,635	27,155
208.74	8,646	27,242
208.75	8,656	27,328
208.76	8,666	27,415
208.77	8,677	27,501
208.78	8,687	27,588
208.79	8,698	27,675
208.80	8,708	27,762
208.81	8,718	27,849
208.82	8,729	27,937
208.83	8,739	28,024
208.84	8,750	28,111
208.85	8,760	28,199
208.86	8,770	28,287
208.87	8,781	28,374
208.88	8,791	28,462
208.89	8,802	28,550
208.90	8,812	28,638
208.91	8,822	28,726
208.92	8,833	28,815
208.93	8,843	28,903
208.94	8,854	28,992
208.95	8,864	29,080
208.96	8,874	29,169
208.97	8,885	29,258
208.98	8,895	29,346
208.99	8,906	29,435
209.00	**8,916**	**29,525**

Summary for Pond B-39: Basin #39

Inflow Area = 1.884 ac, 41.56% Impervious, Inflow Depth = 3.45" for Current 10 yr event
Inflow = 6.61 cfs @ 12.17 hrs, Volume= 0.542 af
Outflow = 3.82 cfs @ 12.32 hrs, Volume= 0.467 af, Atten= 42%, Lag= 8.6 min
Primary = 3.82 cfs @ 12.32 hrs, Volume= 0.467 af
Routed to Link PDA-3 : Proposed Drainage Area #3

Routing by Stor-Ind method, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
Peak Elev= 203.39' @ 12.32 hrs Surf.Area= 4,128 sf Storage= 9,434 cf

Plug-Flow detention time= 177.2 min calculated for 0.467 af (86% of inflow)
Center-of-Mass det. time= 111.6 min (901.6 - 790.0)

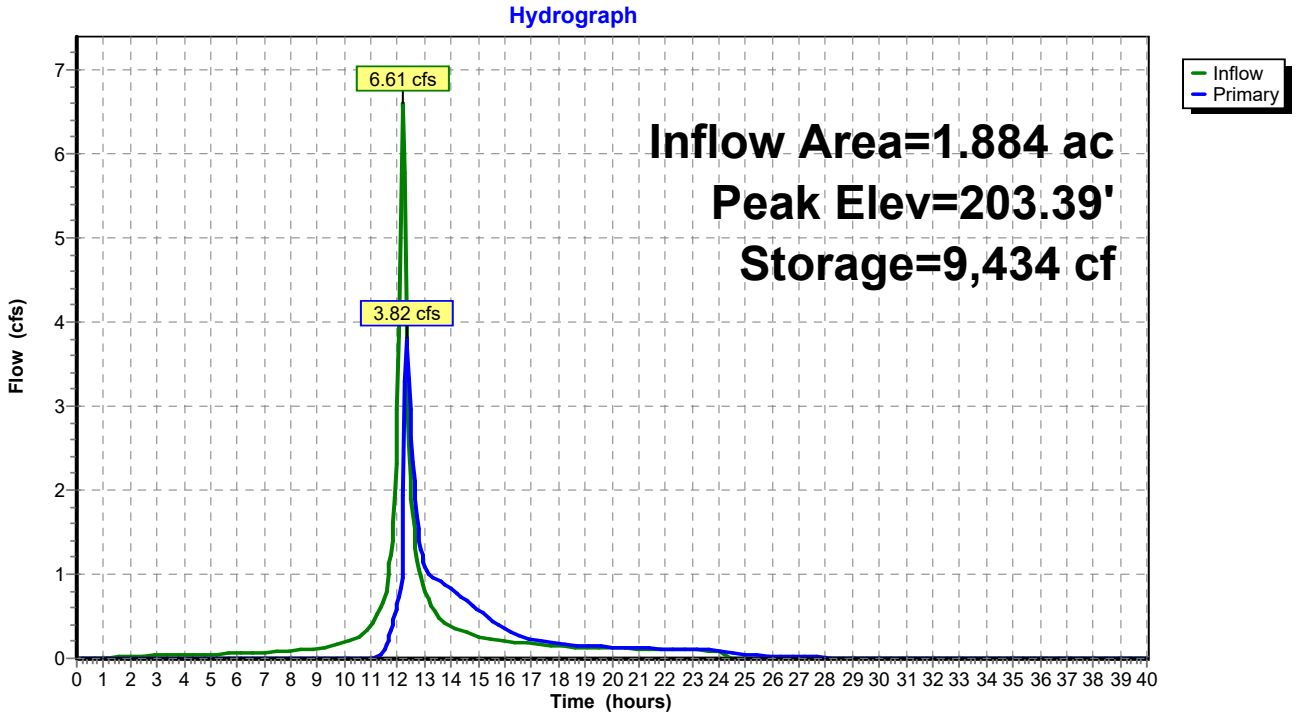
Volume	Invert	Avail.Storage	Storage Description
#1	200.30'	16,777 cf	**Custom Stage Data (Prismatic)** Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
200.30	0	0	0
201.00	2,928	1,025	1,025
202.00	3,408	3,168	4,193
203.00	3,917	3,663	7,855
204.00	4,454	4,186	12,041
205.00	5,019	4,737	16,777

Device	Routing	Invert	Outlet Devices
#1	Primary	200.30'	**18.0" Round Culvert** L= 38.0' Ke= 0.500 Inlet / Outlet Invert= 200.30' / 200.11' S= 0.0050 '/' Cc= 0.900 n= 0.013, Flow Area= 1.77 sf
#2	Device 1	201.71'	**6.0" Vert. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#3	Device 1	203.04'	**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=3.75 cfs @ 12.32 hrs HW=203.39' (Free Discharge)
- **1=Culvert** (Passes 3.75 cfs of 12.76 cfs potential flow)
  - **2=Orifice/Grate** (Orifice Controls 1.13 cfs @ 5.75 fps)
  - **3=Sharp-Crested Rectangular Weir** (Weir Controls 2.62 cfs @ 1.93 fps)
- **4=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)

Pond B-39: Basin #39



Stage-Discharge for Pond B-39: Basin #39

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
200.30	0.00	200.82	0.00	201.34	0.00	201.86	0.07
200.31	0.00	200.83	0.00	201.35	0.00	201.87	0.07
200.32	0.00	200.84	0.00	201.36	0.00	201.88	0.08
200.33	0.00	200.85	0.00	201.37	0.00	201.89	0.09
200.34	0.00	200.86	0.00	201.38	0.00	201.90	0.10
200.35	0.00	200.87	0.00	201.39	0.00	201.91	0.11
200.36	0.00	200.88	0.00	201.40	0.00	201.92	0.12
200.37	0.00	200.89	0.00	201.41	0.00	201.93	0.13
200.38	0.00	200.90	0.00	201.42	0.00	201.94	0.14
200.39	0.00	200.91	0.00	201.43	0.00	201.95	0.16
200.40	0.00	200.92	0.00	201.44	0.00	201.96	0.17
200.41	0.00	200.93	0.00	201.45	0.00	201.97	0.18
200.42	0.00	200.94	0.00	201.46	0.00	201.98	0.19
200.43	0.00	200.95	0.00	201.47	0.00	201.99	0.20
200.44	0.00	200.96	0.00	201.48	0.00	202.00	0.22
200.45	0.00	200.97	0.00	201.49	0.00	202.01	0.23
200.46	0.00	200.98	0.00	201.50	0.00	202.02	0.24
200.47	0.00	200.99	0.00	201.51	0.00	202.03	0.26
200.48	0.00	201.00	0.00	201.52	0.00	202.04	0.27
200.49	0.00	201.01	0.00	201.53	0.00	202.05	0.28
200.50	0.00	201.02	0.00	201.54	0.00	202.06	0.30
200.51	0.00	201.03	0.00	201.55	0.00	202.07	0.31
200.52	0.00	201.04	0.00	201.56	0.00	202.08	0.32
200.53	0.00	201.05	0.00	201.57	0.00	202.09	0.34
200.54	0.00	201.06	0.00	201.58	0.00	202.10	0.35
200.55	0.00	201.07	0.00	201.59	0.00	202.11	0.36
200.56	0.00	201.08	0.00	201.60	0.00	202.12	0.38
200.57	0.00	201.09	0.00	201.61	0.00	202.13	0.39
200.58	0.00	201.10	0.00	201.62	0.00	202.14	0.40
200.59	0.00	201.11	0.00	201.63	0.00	202.15	0.41
200.60	0.00	201.12	0.00	201.64	0.00	202.16	0.43
200.61	0.00	201.13	0.00	201.65	0.00	202.17	0.44
200.62	0.00	201.14	0.00	201.66	0.00	202.18	0.45
200.63	0.00	201.15	0.00	201.67	0.00	202.19	0.46
200.64	0.00	201.16	0.00	201.68	0.00	202.20	0.47
200.65	0.00	201.17	0.00	201.69	0.00	202.21	0.47
200.66	0.00	201.18	0.00	201.70	0.00	202.22	0.48
200.67	0.00	201.19	0.00	201.71	0.00	202.23	0.49
200.68	0.00	201.20	0.00	201.72	0.00	202.24	0.50
200.69	0.00	201.21	0.00	201.73	0.00	202.25	0.51
200.70	0.00	201.22	0.00	201.74	0.00	202.26	0.52
200.71	0.00	201.23	0.00	201.75	0.01	202.27	0.53
200.72	0.00	201.24	0.00	201.76	0.01	202.28	0.53
200.73	0.00	201.25	0.00	201.77	0.01	202.29	0.54
200.74	0.00	201.26	0.00	201.78	0.02	202.30	0.55
200.75	0.00	201.27	0.00	201.79	0.02	202.31	0.56
200.76	0.00	201.28	0.00	201.80	0.02	202.32	0.57
200.77	0.00	201.29	0.00	201.81	0.03	202.33	0.58
200.78	0.00	201.30	0.00	201.82	0.04	202.34	0.58
200.79	0.00	201.31	0.00	201.83	0.04	202.35	0.59
200.80	0.00	201.32	0.00	201.84	0.05	202.36	0.60
200.81	0.00	201.33	0.00	201.85	0.06	202.37	0.61

Stage-Discharge for Pond B-39: Basin #39 (continued)

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
202.38	0.61	202.90	0.92	203.42	4.15	203.94	12.00
202.39	0.62	202.91	0.92	203.43	4.27	203.95	12.17
202.40	0.63	202.92	0.93	203.44	4.39	203.96	12.35
202.41	0.63	202.93	0.93	203.45	4.52	203.97	12.53
202.42	0.64	202.94	0.94	203.46	4.64	203.98	12.70
202.43	0.65	202.95	0.94	203.47	4.77	203.99	12.88
202.44	0.66	202.96	0.95	203.48	4.90	204.00	13.06
202.45	0.66	202.97	0.95	203.49	5.03	204.01	13.24
202.46	0.67	202.98	0.95	203.50	5.16	204.02	13.42
202.47	0.68	202.99	0.96	203.51	5.29	204.03	13.61
202.48	0.68	203.00	0.96	203.52	5.43	204.04	13.79
202.49	0.69	203.01	0.97	203.53	5.56	204.05	13.97
202.50	0.69	203.02	0.97	203.54	5.70	204.06	14.16
202.51	0.70	203.03	0.98	203.55	5.83	204.07	14.34
202.52	0.71	203.04	0.98	203.56	5.97	204.08	14.53
202.53	0.71	203.05	1.00	203.57	6.11	204.09	14.71
202.54	0.72	203.06	1.03	203.58	6.25	204.10	14.86
202.55	0.73	203.07	1.06	203.59	6.40	204.11	14.88
202.56	0.73	203.08	1.10	203.60	6.54	204.12	14.91
202.57	0.74	203.09	1.15	203.61	6.68	204.13	14.93
202.58	0.74	203.10	1.20	203.62	6.83	204.14	14.96
202.59	0.75	203.11	1.26	203.63	6.97	204.15	14.98
202.60	0.76	203.12	1.31	203.64	7.12	204.16	15.01
202.61	0.76	203.13	1.37	203.65	7.27	204.17	15.03
202.62	0.77	203.14	1.44	203.66	7.42	204.18	15.05
202.63	0.77	203.15	1.51	203.67	7.57	204.19	15.08
202.64	0.78	203.16	1.58	203.68	7.72	204.20	15.10
202.65	0.79	203.17	1.65	203.69	7.88	204.21	15.13
202.66	0.79	203.18	1.72	203.70	8.03	204.22	15.15
202.67	0.80	203.19	1.80	203.71	8.18	204.23	15.17
202.68	0.80	203.20	1.88	203.72	8.34	204.24	15.20
202.69	0.81	203.21	1.97	203.73	8.50	204.25	15.22
202.70	0.81	203.22	2.05	203.74	8.65	204.26	15.24
202.71	0.82	203.23	2.14	203.75	8.81	204.27	15.27
202.72	0.82	203.24	2.23	203.76	8.97	204.28	15.29
202.73	0.83	203.25	2.32	203.77	9.13	204.29	15.32
202.74	0.83	203.26	2.41	203.78	9.29	204.30	15.34
202.75	0.84	203.27	2.51	203.79	9.46	204.31	15.36
202.76	0.85	203.28	2.61	203.80	9.62	204.32	15.39
202.77	0.85	203.29	2.70	203.81	9.78	204.33	15.41
202.78	0.86	203.30	2.81	203.82	9.95	204.34	15.43
202.79	0.86	203.31	2.91	203.83	10.11	204.35	15.46
202.80	0.87	203.32	3.01	203.84	10.28	204.36	15.48
202.81	0.87	203.33	3.12	203.85	10.45	204.37	15.50
202.82	0.88	203.34	3.23	203.86	10.62	204.38	15.53
202.83	0.88	203.35	3.34	203.87	10.79	204.39	15.55
202.84	0.89	203.36	3.45	203.88	10.96	204.40	15.57
202.85	0.89	203.37	3.56	203.89	11.13	204.41	15.60
202.86	0.90	203.38	3.68	203.90	11.30	204.42	15.62
202.87	0.90	203.39	3.79	203.91	11.47	204.43	15.64
202.88	0.91	203.40	3.91	203.92	11.65	204.44	15.67
202.89	0.91	203.41	4.03	203.93	11.82	204.45	15.69

Stage-Discharge for Pond B-39: Basin #39 (continued)

Elevation (feet)	Primary (cfs)
204.46	15.71
204.47	15.74
204.48	15.76
204.49	15.78
204.50	15.80
204.51	15.94
204.52	16.18
204.53	16.48
204.54	16.83
204.55	17.23
204.56	17.67
204.57	18.14
204.58	18.64
204.59	19.18
204.60	19.75
204.61	20.35
204.62	20.97
204.63	21.62
204.64	22.29
204.65	22.99
204.66	23.71
204.67	24.46
204.68	25.22
204.69	26.01
204.70	26.82
204.71	27.69
204.72	28.58
204.73	29.50
204.74	30.45
204.75	31.42
204.76	32.42
204.77	33.44
204.78	34.48
204.79	35.55
204.80	36.65
204.81	37.76
204.82	38.91
204.83	40.08
204.84	41.27
204.85	42.48
204.86	43.72
204.87	44.99
204.88	46.28
204.89	47.59
204.90	48.93
204.91	50.31
204.92	51.73
204.93	53.17
204.94	54.63
204.95	56.12
204.96	57.64
204.97	59.19
204.98	60.76
204.99	62.35
205.00	**63.98**

Stage-Area-Storage for Pond B-39: Basin #39

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
200.30	0	0	200.82	2,175	566
200.31	42	0	200.83	2,217	587
200.32	84	1	200.84	2,259	610
200.33	125	2	200.85	2,301	633
200.34	167	3	200.86	2,342	656
200.35	209	5	200.87	2,384	680
200.36	251	8	200.88	2,426	704
200.37	293	10	200.89	2,468	728
200.38	335	13	200.90	2,510	753
200.39	376	17	200.91	2,552	778
200.40	418	21	200.92	2,593	804
200.41	460	25	200.93	2,635	830
200.42	502	30	200.94	2,677	857
200.43	544	35	200.95	2,719	884
200.44	586	41	200.96	2,761	911
200.45	627	47	200.97	2,803	939
200.46	669	54	200.98	2,844	967
200.47	711	60	200.99	2,886	996
200.48	753	68	201.00	2,928	1,025
200.49	795	76	201.01	2,933	1,054
200.50	837	84	201.02	2,938	1,083
200.51	878	92	201.03	2,942	1,113
200.52	920	101	201.04	2,947	1,142
200.53	962	111	201.05	2,952	1,172
200.54	1,004	120	201.06	2,957	1,201
200.55	1,046	131	201.07	2,962	1,231
200.56	1,088	141	201.08	2,966	1,261
200.57	1,129	152	201.09	2,971	1,290
200.58	1,171	164	201.10	2,976	1,320
200.59	1,213	176	201.11	2,981	1,350
200.60	1,255	188	201.12	2,986	1,380
200.61	1,297	201	201.13	2,990	1,409
200.62	1,339	214	201.14	2,995	1,439
200.63	1,380	228	201.15	3,000	1,469
200.64	1,422	242	201.16	3,005	1,499
200.65	1,464	256	201.17	3,010	1,529
200.66	1,506	271	201.18	3,014	1,560
200.67	1,548	286	201.19	3,019	1,590
200.68	1,589	302	201.20	3,024	1,620
200.69	1,631	318	201.21	3,029	1,650
200.70	1,673	335	201.22	3,034	1,681
200.71	1,715	352	201.23	3,038	1,711
200.72	1,757	369	201.24	3,043	1,741
200.73	1,799	387	201.25	3,048	1,772
200.74	1,840	405	201.26	3,053	1,802
200.75	1,882	424	201.27	3,058	1,833
200.76	1,924	443	201.28	3,062	1,863
200.77	1,966	462	201.29	3,067	1,894
200.78	2,008	482	201.30	3,072	1,925
200.79	2,050	502	201.31	3,077	1,956
200.80	2,091	523	201.32	3,082	1,986
200.81	2,133	544	201.33	3,086	2,017

Stage-Area-Storage for Pond B-39: Basin #39 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
201.34	3,091	2,048
201.35	3,096	2,079
201.36	3,101	2,110
201.37	3,106	2,141
201.38	3,110	2,172
201.39	3,115	2,203
201.40	3,120	2,234
201.41	3,125	2,266
201.42	3,130	2,297
201.43	3,134	2,328
201.44	3,139	2,360
201.45	3,144	2,391
201.46	3,149	2,422
201.47	3,154	2,454
201.48	3,158	2,486
201.49	3,163	2,517
201.50	3,168	2,549
201.51	3,173	2,581
201.52	3,178	2,612
201.53	3,182	2,644
201.54	3,187	2,676
201.55	3,192	2,708
201.56	3,197	2,740
201.57	3,202	2,772
201.58	3,206	2,804
201.59	3,211	2,836
201.60	3,216	2,868
201.61	3,221	2,900
201.62	3,226	2,932
201.63	3,230	2,965
201.64	3,235	2,997
201.65	3,240	3,029
201.66	3,245	3,062
201.67	3,250	3,094
201.68	3,254	3,127
201.69	3,259	3,159
201.70	3,264	3,192
201.71	3,269	3,225
201.72	3,274	3,257
201.73	3,278	3,290
201.74	3,283	3,323
201.75	3,288	3,356
201.76	3,293	3,389
201.77	3,298	3,422
201.78	3,302	3,455
201.79	3,307	3,488
201.80	3,312	3,521
201.81	3,317	3,554
201.82	3,322	3,587
201.83	3,326	3,620
201.84	3,331	3,654
201.85	3,336	3,687
201.86	3,341	3,720
201.87	3,346	3,754
201.88	3,350	3,787
201.89	3,355	3,821
201.90	3,360	3,854
201.91	3,365	3,888
201.92	3,370	3,922
201.93	3,374	3,955
201.94	3,379	3,989
201.95	3,384	4,023
201.96	3,389	4,057
201.97	3,394	4,091
201.98	3,398	4,125
201.99	3,403	4,159
202.00	3,408	4,193
202.01	3,413	4,227
202.02	3,418	4,261
202.03	3,423	4,295
202.04	3,428	4,330
202.05	3,433	4,364
202.06	3,439	4,398
202.07	3,444	4,433
202.08	3,449	4,467
202.09	3,454	4,502
202.10	3,459	4,536
202.11	3,464	4,571
202.12	3,469	4,605
202.13	3,474	4,640
202.14	3,479	4,675
202.15	3,484	4,710
202.16	3,489	4,745
202.17	3,495	4,780
202.18	3,500	4,814
202.19	3,505	4,850
202.20	3,510	4,885
202.21	3,515	4,920
202.22	3,520	4,955
202.23	3,525	4,990
202.24	3,530	5,025
202.25	3,535	5,061
202.26	3,540	5,096
202.27	3,545	5,132
202.28	3,551	5,167
202.29	3,556	5,203
202.30	3,561	5,238
202.31	3,566	5,274
202.32	3,571	5,309
202.33	3,576	5,345
202.34	3,581	5,381
202.35	3,586	5,417
202.36	3,591	5,453
202.37	3,596	5,489

Stage-Area-Storage for Pond B-39: Basin #39 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
202.38	3,601	5,525	202.90	3,866	7,466
202.39	3,607	5,561	202.91	3,871	7,505
202.40	3,612	5,597	202.92	3,876	7,544
202.41	3,617	5,633	202.93	3,881	7,582
202.42	3,622	5,669	202.94	3,886	7,621
202.43	3,627	5,705	202.95	3,892	7,660
202.44	3,632	5,742	202.96	3,897	7,699
202.45	3,637	5,778	202.97	3,902	7,738
202.46	3,642	5,814	202.98	3,907	7,777
202.47	3,647	5,851	202.99	3,912	7,816
202.48	3,652	5,887	203.00	3,917	7,855
202.49	3,657	5,924	203.01	3,922	7,894
202.50	3,663	5,960	203.02	3,928	7,934
202.51	3,668	5,997	203.03	3,933	7,973
202.52	3,673	6,034	203.04	3,938	8,012
202.53	3,678	6,071	203.05	3,944	8,052
202.54	3,683	6,107	203.06	3,949	8,091
202.55	3,688	6,144	203.07	3,955	8,131
202.56	3,693	6,181	203.08	3,960	8,170
202.57	3,698	6,218	203.09	3,965	8,210
202.58	3,703	6,255	203.10	3,971	8,250
202.59	3,708	6,292	203.11	3,976	8,289
202.60	3,713	6,329	203.12	3,981	8,329
202.61	3,718	6,366	203.13	3,987	8,369
202.62	3,724	6,404	203.14	3,992	8,409
202.63	3,729	6,441	203.15	3,998	8,449
202.64	3,734	6,478	203.16	4,003	8,489
202.65	3,739	6,516	203.17	4,008	8,529
202.66	3,744	6,553	203.18	4,014	8,569
202.67	3,749	6,590	203.19	4,019	8,609
202.68	3,754	6,628	203.20	4,024	8,649
202.69	3,759	6,665	203.21	4,030	8,690
202.70	3,764	6,703	203.22	4,035	8,730
202.71	3,769	6,741	203.23	4,041	8,770
202.72	3,774	6,778	203.24	4,046	8,811
202.73	3,780	6,816	203.25	4,051	8,851
202.74	3,785	6,854	203.26	4,057	8,892
202.75	3,790	6,892	203.27	4,062	8,932
202.76	3,795	6,930	203.28	4,067	8,973
202.77	3,800	6,968	203.29	4,073	9,014
202.78	3,805	7,006	203.30	4,078	9,055
202.79	3,810	7,044	203.31	4,083	9,095
202.80	3,815	7,082	203.32	4,089	9,136
202.81	3,820	7,120	203.33	4,094	9,177
202.82	3,825	7,158	203.34	4,100	9,218
202.83	3,830	7,197	203.35	4,105	9,259
202.84	3,836	7,235	203.36	4,110	9,300
202.85	3,841	7,273	203.37	4,116	9,341
202.86	3,846	7,312	203.38	4,121	9,383
202.87	3,851	7,350	203.39	4,126	9,424
202.88	3,856	7,389	203.40	4,132	9,465
202.89	3,861	7,428	203.41	4,137	9,506

Stage-Area-Storage for Pond B-39: Basin #39 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
203.42	4,143	9,548	203.94	4,422	11,775
203.43	4,148	9,589	203.95	4,427	11,819
203.44	4,153	9,631	203.96	4,433	11,863
203.45	4,159	9,672	203.97	4,438	11,907
203.46	4,164	9,714	203.98	4,443	11,952
203.47	4,169	9,756	203.99	4,449	11,996
203.48	4,175	9,797	204.00	4,454	12,041
203.49	4,180	9,839	204.01	4,460	12,085
203.50	4,186	9,881	204.02	4,465	12,130
203.51	4,191	9,923	204.03	4,471	12,175
203.52	4,196	9,965	204.04	4,477	12,219
203.53	4,202	10,007	204.05	4,482	12,264
203.54	4,207	10,049	204.06	4,488	12,309
203.55	4,212	10,091	204.07	4,494	12,354
203.56	4,218	10,133	204.08	4,499	12,399
203.57	4,223	10,175	204.09	4,505	12,444
203.58	4,228	10,217	204.10	4,511	12,489
203.59	4,234	10,260	204.11	4,516	12,534
203.60	4,239	10,302	204.12	4,522	12,579
203.61	4,245	10,345	204.13	4,527	12,625
203.62	4,250	10,387	204.14	4,533	12,670
203.63	4,255	10,430	204.15	4,539	12,715
203.64	4,261	10,472	204.16	4,544	12,761
203.65	4,266	10,515	204.17	4,550	12,806
203.66	4,271	10,557	204.18	4,556	12,852
203.67	4,277	10,600	204.19	4,561	12,897
203.68	4,282	10,643	204.20	4,567	12,943
203.69	4,288	10,686	204.21	4,573	12,989
203.70	4,293	10,729	204.22	4,578	13,034
203.71	4,298	10,772	204.23	4,584	13,080
203.72	4,304	10,815	204.24	4,590	13,126
203.73	4,309	10,858	204.25	4,595	13,172
203.74	4,314	10,901	204.26	4,601	13,218
203.75	4,320	10,944	204.27	4,607	13,264
203.76	4,325	10,987	204.28	4,612	13,310
203.77	4,330	11,031	204.29	4,618	13,356
203.78	4,336	11,074	204.30	4,624	13,402
203.79	4,341	11,117	204.31	4,629	13,449
203.80	4,347	11,161	204.32	4,635	13,495
203.81	4,352	11,204	204.33	4,640	13,541
203.82	4,357	11,248	204.34	4,646	13,588
203.83	4,363	11,291	204.35	4,652	13,634
203.84	4,368	11,335	204.36	4,657	13,681
203.85	4,373	11,379	204.37	4,663	13,727
203.86	4,379	11,423	204.38	4,669	13,774
203.87	4,384	11,466	204.39	4,674	13,821
203.88	4,390	11,510	204.40	4,680	13,868
203.89	4,395	11,554	204.41	4,686	13,914
203.90	4,400	11,598	204.42	4,691	13,961
203.91	4,406	11,642	204.43	4,697	14,008
203.92	4,411	11,686	204.44	4,703	14,055
203.93	4,416	11,730	204.45	4,708	14,102

Stage-Area-Storage for Pond B-39: Basin #39 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
204.46	4,714	14,149
204.47	4,720	14,197
204.48	4,725	14,244
204.49	4,731	14,291
204.50	4,737	14,338
204.51	4,742	14,386
204.52	4,748	14,433
204.53	4,753	14,481
204.54	4,759	14,528
204.55	4,765	14,576
204.56	4,770	14,624
204.57	4,776	14,671
204.58	4,782	14,719
204.59	4,787	14,767
204.60	4,793	14,815
204.61	4,799	14,863
204.62	4,804	14,911
204.63	4,810	14,959
204.64	4,816	15,007
204.65	4,821	15,055
204.66	4,827	15,103
204.67	4,833	15,152
204.68	4,838	15,200
204.69	4,844	15,249
204.70	4,850	15,297
204.71	4,855	15,346
204.72	4,861	15,394
204.73	4,866	15,443
204.74	4,872	15,491
204.75	4,878	15,540
204.76	4,883	15,589
204.77	4,889	15,638
204.78	4,895	15,687
204.79	4,900	15,736
204.80	4,906	15,785
204.81	4,912	15,834
204.82	4,917	15,883
204.83	4,923	15,932
204.84	4,929	15,981
204.85	4,934	16,031
204.86	4,940	16,080
204.87	4,946	16,130
204.88	4,951	16,179
204.89	4,957	16,229
204.90	4,963	16,278
204.91	4,968	16,328
204.92	4,974	16,378
204.93	4,979	16,427
204.94	4,985	16,477
204.95	4,991	16,527
204.96	4,996	16,577
204.97	5,002	16,627
204.98	5,008	16,677
204.99	5,013	16,727
205.00	**5,019**	**16,777**

Summary for Pond B-40: Basin #40

Inflow Area = 1.888 ac, 47.19% Impervious, Inflow Depth = 3.59" for Current 10 yr event
Inflow = 6.83 cfs @ 12.17 hrs, Volume= 0.564 af
Outflow = 4.11 cfs @ 12.30 hrs, Volume= 0.482 af, Atten= 40%, Lag= 7.9 min
Primary = 4.11 cfs @ 12.30 hrs, Volume= 0.482 af
Routed to Link PDA-3 : Proposed Drainage Area #3

Routing by Stor-Ind method, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
Peak Elev= 203.64' @ 12.30 hrs Surf.Area= 4,128 sf Storage= 7,487 cf

Plug-Flow detention time= 138.7 min calculated for 0.482 af (85% of inflow)
Center-of-Mass det. time= 70.0 min (855.1 - 785.1)

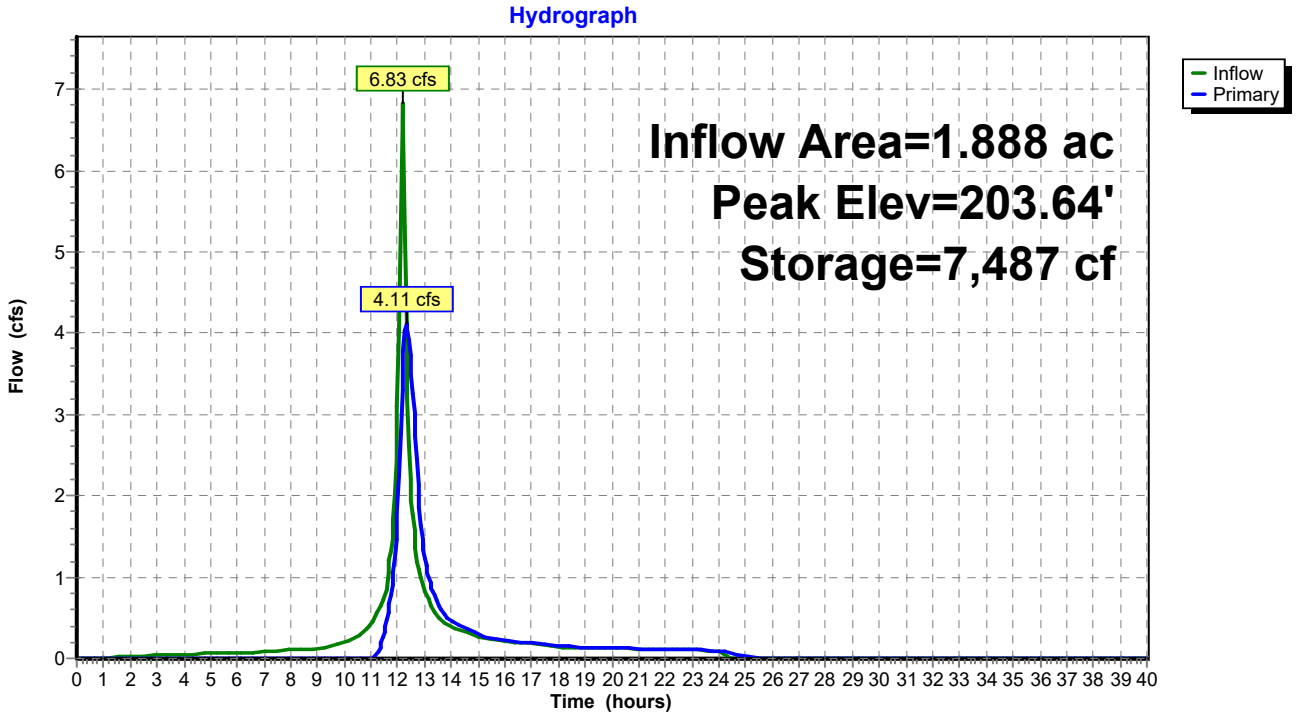
Volume	Invert	Avail.Storage	Storage Description
#1	201.30'	18,339 cf	**Custom Stage Data (Prismatic)** Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
201.30	0	0	0
202.00	3,521	1,232	1,232
203.00	3,886	3,704	4,936
204.00	4,266	4,076	9,012
205.00	4,660	4,463	13,475
206.00	5,069	4,865	18,339

Device	Routing	Invert	Outlet Devices
#1	Primary	201.30'	**18.0" Round Culvert** L= 38.0' Ke= 0.500 Inlet / Outlet Invert= 201.30' / 201.11' S= 0.0050 '/' Cc= 0.900 n= 0.013, Flow Area= 1.77 sf
#2	Device 1	202.65'	**24.0" W x 6.0" H Vert. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#3	Device 1	204.67'	**4.0' long Sharp-Crested Rectangular Weir** 2 End Contraction(s)
#4	Primary	205.49'	**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=4.11 cfs @ 12.30 hrs HW=203.64' (Free Discharge)
- **1=Culvert** (Passes 4.11 cfs of 9.69 cfs potential flow)
  - **2=Orifice/Grate** (Orifice Controls 4.11 cfs @ 4.11 fps)
  - **3=Sharp-Crested Rectangular Weir** (Controls 0.00 cfs)
- **4=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)

Pond B-40: Basin #40



Stage-Discharge for Pond B-40: Basin #40

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
201.30	0.00	201.82	0.00	202.34	0.00	202.86	0.62
201.31	0.00	201.83	0.00	202.35	0.00	202.87	0.66
201.32	0.00	201.84	0.00	202.36	0.00	202.88	0.71
201.33	0.00	201.85	0.00	202.37	0.00	202.89	0.75
201.34	0.00	201.86	0.00	202.38	0.00	202.90	0.80
201.35	0.00	201.87	0.00	202.39	0.00	202.91	0.85
201.36	0.00	201.88	0.00	202.40	0.00	202.92	0.90
201.37	0.00	201.89	0.00	202.41	0.00	202.93	0.95
201.38	0.00	201.90	0.00	202.42	0.00	202.94	1.00
201.39	0.00	201.91	0.00	202.43	0.00	202.95	1.05
201.40	0.00	201.92	0.00	202.44	0.00	202.96	1.11
201.41	0.00	201.93	0.00	202.45	0.00	202.97	1.16
201.42	0.00	201.94	0.00	202.46	0.00	202.98	1.22
201.43	0.00	201.95	0.00	202.47	0.00	202.99	1.27
201.44	0.00	201.96	0.00	202.48	0.00	203.00	1.33
201.45	0.00	201.97	0.00	202.49	0.00	203.01	1.39
201.46	0.00	201.98	0.00	202.50	0.00	203.02	1.44
201.47	0.00	201.99	0.00	202.51	0.00	203.03	1.50
201.48	0.00	202.00	0.00	202.52	0.00	203.04	1.56
201.49	0.00	202.01	0.00	202.53	0.00	203.05	1.62
201.50	0.00	202.02	0.00	202.54	0.00	203.06	1.69
201.51	0.00	202.03	0.00	202.55	0.00	203.07	1.75
201.52	0.00	202.04	0.00	202.56	0.00	203.08	1.81
201.53	0.00	202.05	0.00	202.57	0.00	203.09	1.87
201.54	0.00	202.06	0.00	202.58	0.00	203.10	1.94
201.55	0.00	202.07	0.00	202.59	0.00	203.11	2.00
201.56	0.00	202.08	0.00	202.60	0.00	203.12	2.07
201.57	0.00	202.09	0.00	202.61	0.00	203.13	2.13
201.58	0.00	202.10	0.00	202.62	0.00	203.14	2.20
201.59	0.00	202.11	0.00	202.63	0.00	203.15	2.27
201.60	0.00	202.12	0.00	202.64	0.00	203.16	2.33
201.61	0.00	202.13	0.00	202.65	0.00	203.17	2.39
201.62	0.00	202.14	0.00	202.66	0.01	203.18	2.44
201.63	0.00	202.15	0.00	202.67	0.02	203.19	2.50
201.64	0.00	202.16	0.00	202.68	0.03	203.20	2.55
201.65	0.00	202.17	0.00	202.69	0.05	203.21	2.60
201.66	0.00	202.18	0.00	202.70	0.07	203.22	2.64
201.67	0.00	202.19	0.00	202.71	0.09	203.23	2.69
201.68	0.00	202.20	0.00	202.72	0.12	203.24	2.74
201.69	0.00	202.21	0.00	202.73	0.15	203.25	2.78
201.70	0.00	202.22	0.00	202.74	0.17	203.26	2.82
201.71	0.00	202.23	0.00	202.75	0.20	203.27	2.87
201.72	0.00	202.24	0.00	202.76	0.23	203.28	2.91
201.73	0.00	202.25	0.00	202.77	0.27	203.29	2.95
201.74	0.00	202.26	0.00	202.78	0.30	203.30	2.99
201.75	0.00	202.27	0.00	202.79	0.34	203.31	3.03
201.76	0.00	202.28	0.00	202.80	0.37	203.32	3.07
201.77	0.00	202.29	0.00	202.81	0.41	203.33	3.11
201.78	0.00	202.30	0.00	202.82	0.45	203.34	3.15
201.79	0.00	202.31	0.00	202.83	0.49	203.35	3.19
201.80	0.00	202.32	0.00	202.84	0.53	203.36	3.22
201.81	0.00	202.33	0.00	202.85	0.57	203.37	3.26

Stage-Discharge for Pond B-40: Basin #40 (continued)

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
203.38	3.30	203.90	4.80	204.42	5.93	204.94	8.68
203.39	3.33	203.91	4.83	204.43	5.95	204.95	8.80
203.40	3.37	203.92	4.85	204.44	5.97	204.96	8.92
203.41	3.40	203.93	4.87	204.45	5.99	204.97	9.04
203.42	3.44	203.94	4.90	204.46	6.01	204.98	9.16
203.43	3.47	203.95	4.92	204.47	6.03	204.99	9.29
203.44	3.51	203.96	4.95	204.48	6.05	205.00	9.41
203.45	3.54	203.97	4.97	204.49	6.07	205.01	9.54
203.46	3.57	203.98	4.99	204.50	6.08	205.02	9.67
203.47	3.60	203.99	5.02	204.51	6.10	205.03	9.80
203.48	3.64	204.00	5.04	204.52	6.12	205.04	9.93
203.49	3.67	204.01	5.06	204.53	6.14	205.05	10.06
203.50	3.70	204.02	5.09	204.54	6.16	205.06	10.20
203.51	3.73	204.03	5.11	204.55	6.18	205.07	10.33
203.52	3.76	204.04	5.13	204.56	6.20	205.08	10.47
203.53	3.80	204.05	5.15	204.57	6.22	205.09	10.61
203.54	3.83	204.06	5.18	204.58	6.24	205.10	10.75
203.55	3.86	204.07	5.20	204.59	6.25	205.11	10.89
203.56	3.89	204.08	5.22	204.60	6.27	205.12	11.03
203.57	3.92	204.09	5.24	204.61	6.29	205.13	11.17
203.58	3.95	204.10	5.26	204.62	6.31	205.14	11.32
203.59	3.98	204.11	5.29	204.63	6.33	205.15	11.46
203.60	4.01	204.12	5.31	204.64	6.35	205.16	11.61
203.61	4.04	204.13	5.33	204.65	6.36	205.17	11.76
203.62	4.06	204.14	5.35	204.66	6.38	205.18	11.91
203.63	4.09	204.15	5.37	204.67	6.40	205.19	12.06
203.64	4.12	204.16	5.40	204.68	6.43	205.20	12.21
203.65	4.15	204.17	5.42	204.69	6.47	205.21	12.36
203.66	4.18	204.18	5.44	204.70	6.52	205.22	12.52
203.67	4.21	204.19	5.46	204.71	6.58	205.23	12.67
203.68	4.23	204.20	5.48	204.72	6.64	205.24	12.83
203.69	4.26	204.21	5.50	204.73	6.70	205.25	12.99
203.70	4.29	204.22	5.52	204.74	6.77	205.26	13.15
203.71	4.32	204.23	5.54	204.75	6.84	205.27	13.31
203.72	4.34	204.24	5.57	204.76	6.91	205.28	13.47
203.73	4.37	204.25	5.59	204.77	6.99	205.29	13.63
203.74	4.40	204.26	5.61	204.78	7.07	205.30	13.79
203.75	4.42	204.27	5.63	204.79	7.16	205.31	13.95
203.76	4.45	204.28	5.65	204.80	7.24	205.32	14.12
203.77	4.48	204.29	5.67	204.81	7.33	205.33	14.28
203.78	4.50	204.30	5.69	204.82	7.42	205.34	14.45
203.79	4.53	204.31	5.71	204.83	7.51	205.35	14.62
203.80	4.55	204.32	5.73	204.84	7.61	205.36	14.79
203.81	4.58	204.33	5.75	204.85	7.71	205.37	14.96
203.82	4.60	204.34	5.77	204.86	7.81	205.38	15.13
203.83	4.63	204.35	5.79	204.87	7.91	205.39	15.30
203.84	4.65	204.36	5.81	204.88	8.02	205.40	15.47
203.85	4.68	204.37	5.83	204.89	8.12	205.41	15.60
203.86	4.70	204.38	5.85	204.90	8.23	205.42	15.62
203.87	4.73	204.39	5.87	204.91	8.34	205.43	15.64
203.88	4.75	204.40	5.89	204.92	8.45	205.44	15.67
203.89	4.78	204.41	5.91	204.93	8.57	205.45	15.69

Stage-Discharge for Pond B-40: Basin #40 (continued)

Elevation (feet)	Primary (cfs)
205.46	15.71
205.47	15.74
205.48	15.76
205.49	15.78
205.50	15.92
205.51	16.16
205.52	16.46
205.53	16.81
205.54	17.21
205.55	17.64
205.56	18.12
205.57	18.62
205.58	19.16
205.59	19.73
205.60	20.32
205.61	20.95
205.62	21.60
205.63	22.27
205.64	22.97
205.65	23.69
205.66	24.43
205.67	25.20
205.68	25.99
205.69	26.80
205.70	27.67
205.71	28.56
205.72	29.48
205.73	30.43
205.74	31.40
205.75	32.39
205.76	33.41
205.77	34.46
205.78	35.53
205.79	36.62
205.80	37.74
205.81	38.89
205.82	40.05
205.83	41.25
205.84	42.46
205.85	43.70
205.86	44.97
205.87	46.25
205.88	47.57
205.89	48.90
205.90	50.29
205.91	51.70
205.92	53.14
205.93	54.61
205.94	56.10
205.95	57.62
205.96	59.16
205.97	60.73
205.98	62.33
205.99	63.95
206.00	**65.60**

Stage-Area-Storage for Pond B-40: Basin #40

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
201.30	0	0
201.31	50	0
201.32	101	1
201.33	151	2
201.34	201	4
201.35	252	6
201.36	302	9
201.37	352	12
201.38	402	16
201.39	453	20
201.40	503	25
201.41	553	30
201.42	604	36
201.43	654	43
201.44	704	49
201.45	755	57
201.46	805	64
201.47	855	73
201.48	905	81
201.49	956	91
201.50	1,006	101
201.51	1,056	111
201.52	1,107	122
201.53	1,157	133
201.54	1,207	145
201.55	1,258	157
201.56	1,308	170
201.57	1,358	183
201.58	1,408	197
201.59	1,459	212
201.60	1,509	226
201.61	1,559	242
201.62	1,610	258
201.63	1,660	274
201.64	1,710	291
201.65	1,761	308
201.66	1,811	326
201.67	1,861	344
201.68	1,911	363
201.69	1,962	383
201.70	2,012	402
201.71	2,062	423
201.72	2,113	444
201.73	2,163	465
201.74	2,213	487
201.75	2,263	509
201.76	2,314	532
201.77	2,364	556
201.78	2,414	579
201.79	2,465	604
201.80	2,515	629
201.81	2,565	654
201.82	2,616	680
201.83	2,666	706
201.84	2,716	733
201.85	2,767	761
201.86	2,817	789
201.87	2,867	817
201.88	2,917	846
201.89	2,968	875
201.90	3,018	905
201.91	3,068	936
201.92	3,119	967
201.93	3,169	998
201.94	3,219	1,030
201.95	3,270	1,063
201.96	3,320	1,096
201.97	3,370	1,129
201.98	3,420	1,163
201.99	3,471	1,197
202.00	3,521	1,232
202.01	3,525	1,268
202.02	3,528	1,303
202.03	3,532	1,338
202.04	3,536	1,373
202.05	3,539	1,409
202.06	3,543	1,444
202.07	3,547	1,480
202.08	3,550	1,515
202.09	3,554	1,551
202.10	3,558	1,586
202.11	3,561	1,622
202.12	3,565	1,657
202.13	3,568	1,693
202.14	3,572	1,729
202.15	3,576	1,765
202.16	3,579	1,800
202.17	3,583	1,836
202.18	3,587	1,872
202.19	3,590	1,908
202.20	3,594	1,944
202.21	3,598	1,980
202.22	3,601	2,016
202.23	3,605	2,052
202.24	3,609	2,088
202.25	3,612	2,124
202.26	3,616	2,160
202.27	3,620	2,196
202.28	3,623	2,233
202.29	3,627	2,269
202.30	3,631	2,305
202.31	3,634	2,341
202.32	3,638	2,378
202.33	3,641	2,414

Stage-Area-Storage for Pond B-40: Basin #40 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
202.34	3,645	2,451	202.86	3,835	4,395
202.35	3,649	2,487	202.87	3,839	4,434
202.36	3,652	2,524	202.88	3,842	4,472
202.37	3,656	2,560	202.89	3,846	4,511
202.38	3,660	2,597	202.90	3,850	4,549
202.39	3,663	2,633	202.91	3,853	4,588
202.40	3,667	2,670	202.92	3,857	4,626
202.41	3,671	2,707	202.93	3,860	4,665
202.42	3,674	2,743	202.94	3,864	4,703
202.43	3,678	2,780	202.95	3,868	4,742
202.44	3,682	2,817	202.96	3,871	4,781
202.45	3,685	2,854	202.97	3,875	4,819
202.46	3,689	2,891	202.98	3,879	4,858
202.47	3,693	2,928	202.99	3,882	4,897
202.48	3,696	2,964	203.00	3,886	4,936
202.49	3,700	3,001	203.01	3,890	4,975
202.50	3,704	3,038	203.02	3,894	5,014
202.51	3,707	3,076	203.03	3,897	5,053
202.52	3,711	3,113	203.04	3,901	5,092
202.53	3,714	3,150	203.05	3,905	5,131
202.54	3,718	3,187	203.06	3,909	5,170
202.55	3,722	3,224	203.07	3,913	5,209
202.56	3,725	3,261	203.08	3,916	5,248
202.57	3,729	3,299	203.09	3,920	5,287
202.58	3,733	3,336	203.10	3,924	5,326
202.59	3,736	3,373	203.11	3,928	5,366
202.60	3,740	3,411	203.12	3,932	5,405
202.61	3,744	3,448	203.13	3,935	5,444
202.62	3,747	3,486	203.14	3,939	5,484
202.63	3,751	3,523	203.15	3,943	5,523
202.64	3,755	3,561	203.16	3,947	5,562
202.65	3,758	3,598	203.17	3,951	5,602
202.66	3,762	3,636	203.18	3,954	5,641
202.67	3,766	3,673	203.19	3,958	5,681
202.68	3,769	3,711	203.20	3,962	5,721
202.69	3,773	3,749	203.21	3,966	5,760
202.70	3,777	3,786	203.22	3,970	5,800
202.71	3,780	3,824	203.23	3,973	5,840
202.72	3,784	3,862	203.24	3,977	5,879
202.73	3,787	3,900	203.25	3,981	5,919
202.74	3,791	3,938	203.26	3,985	5,959
202.75	3,795	3,976	203.27	3,989	5,999
202.76	3,798	4,014	203.28	3,992	6,039
202.77	3,802	4,052	203.29	3,996	6,079
202.78	3,806	4,090	203.30	4,000	6,119
202.79	3,809	4,128	203.31	4,004	6,159
202.80	3,813	4,166	203.32	4,008	6,199
202.81	3,817	4,204	203.33	4,011	6,239
202.82	3,820	4,242	203.34	4,015	6,279
202.83	3,824	4,281	203.35	4,019	6,319
202.84	3,828	4,319	203.36	4,023	6,359
202.85	3,831	4,357	203.37	4,027	6,400

Stage-Area-Storage for Pond B-40: Basin #40 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
203.38	4,030	6,440
203.39	4,034	6,480
203.40	4,038	6,521
203.41	4,042	6,561
203.42	4,046	6,601
203.43	4,049	6,642
203.44	4,053	6,682
203.45	4,057	6,723
203.46	4,061	6,764
203.47	4,065	6,804
203.48	4,068	6,845
203.49	4,072	6,886
203.50	4,076	6,926
203.51	4,080	6,967
203.52	4,084	7,008
203.53	4,087	7,049
203.54	4,091	7,090
203.55	4,095	7,131
203.56	4,099	7,172
203.57	4,103	7,213
203.58	4,106	7,254
203.59	4,110	7,295
203.60	4,114	7,336
203.61	4,118	7,377
203.62	4,122	7,418
203.63	4,125	7,459
203.64	4,129	7,501
203.65	4,133	7,542
203.66	4,137	7,583
203.67	4,141	7,625
203.68	4,144	7,666
203.69	4,148	7,708
203.70	4,152	7,749
203.71	4,156	7,791
203.72	4,160	7,832
203.73	4,163	7,874
203.74	4,167	7,916
203.75	4,171	7,957
203.76	4,175	7,999
203.77	4,179	8,041
203.78	4,182	8,083
203.79	4,186	8,124
203.80	4,190	8,166
203.81	4,194	8,208
203.82	4,198	8,250
203.83	4,201	8,292
203.84	4,205	8,334
203.85	4,209	8,376
203.86	4,213	8,418
203.87	4,217	8,460
203.88	4,220	8,503
203.89	4,224	8,545
203.90	4,228	8,587
203.91	4,232	8,629
203.92	4,236	8,672
203.93	4,239	8,714
203.94	4,243	8,757
203.95	4,247	8,799
203.96	4,251	8,842
203.97	4,255	8,884
203.98	4,258	8,927
203.99	4,262	8,969
204.00	4,266	9,012
204.01	4,270	9,055
204.02	4,274	9,097
204.03	4,278	9,140
204.04	4,282	9,183
204.05	4,286	9,226
204.06	4,290	9,269
204.07	4,294	9,311
204.08	4,298	9,354
204.09	4,301	9,397
204.10	4,305	9,440
204.11	4,309	9,483
204.12	4,313	9,527
204.13	4,317	9,570
204.14	4,321	9,613
204.15	4,325	9,656
204.16	4,329	9,699
204.17	4,333	9,743
204.18	4,337	9,786
204.19	4,341	9,830
204.20	4,345	9,873
204.21	4,349	9,916
204.22	4,353	9,960
204.23	4,357	10,003
204.24	4,361	10,047
204.25	4,365	10,091
204.26	4,368	10,134
204.27	4,372	10,178
204.28	4,376	10,222
204.29	4,380	10,266
204.30	4,384	10,309
204.31	4,388	10,353
204.32	4,392	10,397
204.33	4,396	10,441
204.34	4,400	10,485
204.35	4,404	10,529
204.36	4,408	10,573
204.37	4,412	10,617
204.38	4,416	10,661
204.39	4,420	10,706
204.40	4,424	10,750
204.41	4,428	10,794

Stage-Area-Storage for Pond B-40: Basin #40 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
204.42	4,431	10,838	204.94	4,636	13,196
204.43	4,435	10,883	204.95	4,640	13,242
204.44	4,439	10,927	204.96	4,644	13,289
204.45	4,443	10,971	204.97	4,648	13,335
204.46	4,447	11,016	204.98	4,652	13,382
204.47	4,451	11,060	204.99	4,656	13,428
204.48	4,455	11,105	205.00	4,660	13,475
204.49	4,459	11,149	205.01	4,664	13,521
204.50	4,463	11,194	205.02	4,668	13,568
204.51	4,467	11,239	205.03	4,672	13,615
204.52	4,471	11,283	205.04	4,676	13,662
204.53	4,475	11,328	205.05	4,680	13,708
204.54	4,479	11,373	205.06	4,685	13,755
204.55	4,483	11,418	205.07	4,689	13,802
204.56	4,487	11,463	205.08	4,693	13,849
204.57	4,491	11,507	205.09	4,697	13,896
204.58	4,495	11,552	205.10	4,701	13,943
204.59	4,498	11,597	205.11	4,705	13,990
204.60	4,502	11,642	205.12	4,709	14,037
204.61	4,506	11,687	205.13	4,713	14,084
204.62	4,510	11,732	205.14	4,717	14,131
204.63	4,514	11,778	205.15	4,721	14,178
204.64	4,518	11,823	205.16	4,725	14,226
204.65	4,522	11,868	205.17	4,730	14,273
204.66	4,526	11,913	205.18	4,734	14,320
204.67	4,530	11,959	205.19	4,738	14,368
204.68	4,534	12,004	205.20	4,742	14,415
204.69	4,538	12,049	205.21	4,746	14,462
204.70	4,542	12,095	205.22	4,750	14,510
204.71	4,546	12,140	205.23	4,754	14,557
204.72	4,550	12,185	205.24	4,758	14,605
204.73	4,554	12,231	205.25	4,762	14,653
204.74	4,558	12,277	205.26	4,766	14,700
204.75	4,562	12,322	205.27	4,770	14,748
204.76	4,565	12,368	205.28	4,775	14,796
204.77	4,569	12,413	205.29	4,779	14,843
204.78	4,573	12,459	205.30	4,783	14,891
204.79	4,577	12,505	205.31	4,787	14,939
204.80	4,581	12,551	205.32	4,791	14,987
204.81	4,585	12,597	205.33	4,795	15,035
204.82	4,589	12,642	205.34	4,799	15,083
204.83	4,593	12,688	205.35	4,803	15,131
204.84	4,597	12,734	205.36	4,807	15,179
204.85	4,601	12,780	205.37	4,811	15,227
204.86	4,605	12,826	205.38	4,815	15,275
204.87	4,609	12,872	205.39	4,820	15,323
204.88	4,613	12,918	205.40	4,824	15,372
204.89	4,617	12,965	205.41	4,828	15,420
204.90	4,621	13,011	205.42	4,832	15,468
204.91	4,625	13,057	205.43	4,836	15,516
204.92	4,628	13,103	205.44	4,840	15,565
204.93	4,632	13,150	205.45	4,844	15,613

Stage-Area-Storage for Pond B-40: Basin #40 (continued)

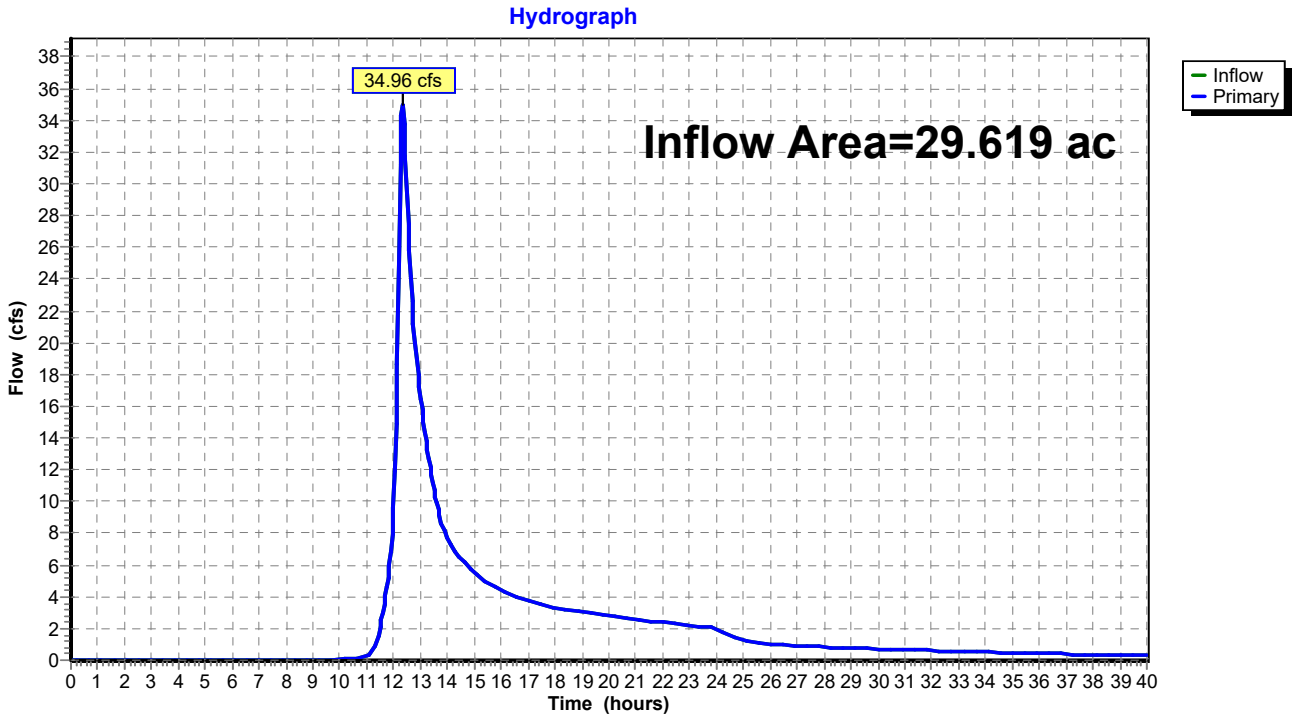
Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
205.46	4,848	15,662
205.47	4,852	15,710
205.48	4,856	15,759
205.49	4,860	15,807
205.50	4,865	15,856
205.51	4,869	15,905
205.52	4,873	15,953
205.53	4,877	16,002
205.54	4,881	16,051
205.55	4,885	16,100
205.56	4,889	16,149
205.57	4,893	16,197
205.58	4,897	16,246
205.59	4,901	16,295
205.60	4,905	16,344
205.61	4,909	16,394
205.62	4,914	16,443
205.63	4,918	16,492
205.64	4,922	16,541
205.65	4,926	16,590
205.66	4,930	16,640
205.67	4,934	16,689
205.68	4,938	16,738
205.69	4,942	16,788
205.70	4,946	16,837
205.71	4,950	16,887
205.72	4,954	16,936
205.73	4,959	16,986
205.74	4,963	17,035
205.75	4,967	17,085
205.76	4,971	17,135
205.77	4,975	17,184
205.78	4,979	17,234
205.79	4,983	17,284
205.80	4,987	17,334
205.81	4,991	17,384
205.82	4,995	17,434
205.83	4,999	17,484
205.84	5,004	17,534
205.85	5,008	17,584
205.86	5,012	17,634
205.87	5,016	17,684
205.88	5,020	17,734
205.89	5,024	17,784
205.90	5,028	17,834
205.91	5,032	17,885
205.92	5,036	17,935
205.93	5,040	17,986
205.94	5,044	18,036
205.95	5,049	18,086
205.96	5,053	18,137
205.97	5,057	18,187
205.98	5,061	18,238
205.99	5,065	18,289
206.00	**5,069**	**18,339**

Summary for Link PDA-3: Proposed Drainage Area #3

Inflow Area = 29.619 ac, 38.13% Impervious, Inflow Depth > 2.79" for Current 10 yr event
Inflow = 34.96 cfs @ 12.34 hrs, Volume= 6.885 af
Primary = 34.96 cfs @ 12.34 hrs, Volume= 6.885 af, Atten= 0%, Lag= 0.0 min

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

Link PDA-3: Proposed Drainage Area #3



Summary for Subcatchment 29I: PDA-29 (impervious)

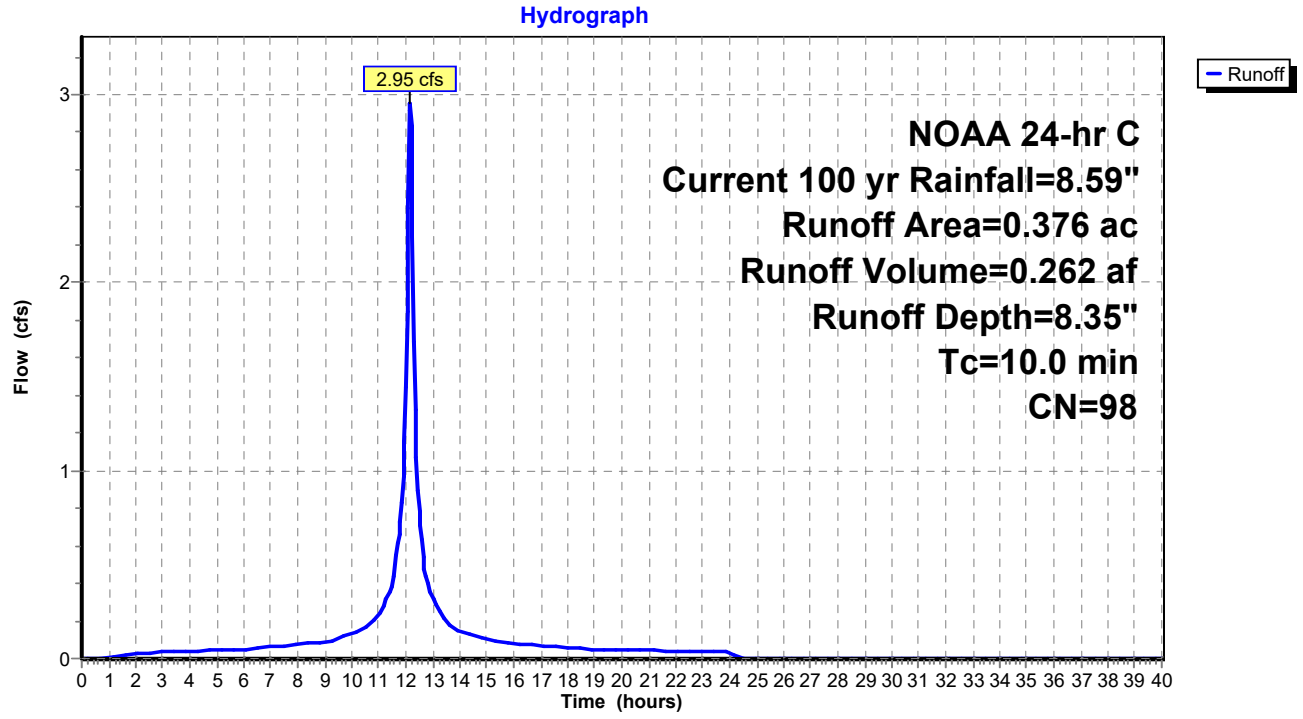
Runoff = 2.95 cfs @ 12.17 hrs, Volume= 0.262 af, Depth= 8.35"
Routed to Pond B-29 : Basin #29

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
*	0.342	98	Pavement, HSG C
*	0.034	98	Concrete, HSC C
	0.376	98	Weighted Average
	0.376		100.00% Impervious Area

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

Subcatchment 29I: PDA-29 (impervious)



Summary for Subcatchment 29P: PDA-29 (pervious)

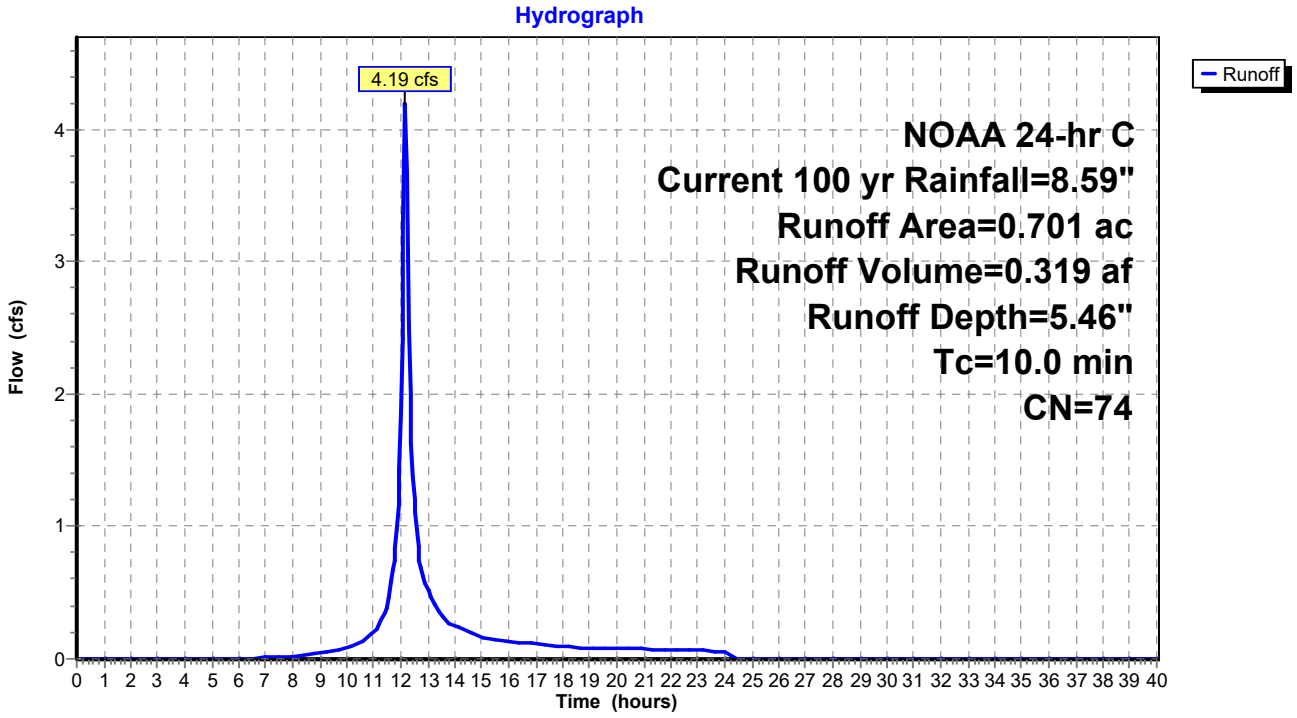
Runoff = 4.19 cfs @ 12.17 hrs, Volume= 0.319 af, Depth= 5.46"
Routed to Pond B-29 : Basin #29

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
0.701	74	>75% Grass cover, Good, HSG C
0.701		100.00% Pervious Area

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

Subcatchment 29P: PDA-29 (pervious)



Summary for Subcatchment 30l: PDA-30 (impervious)

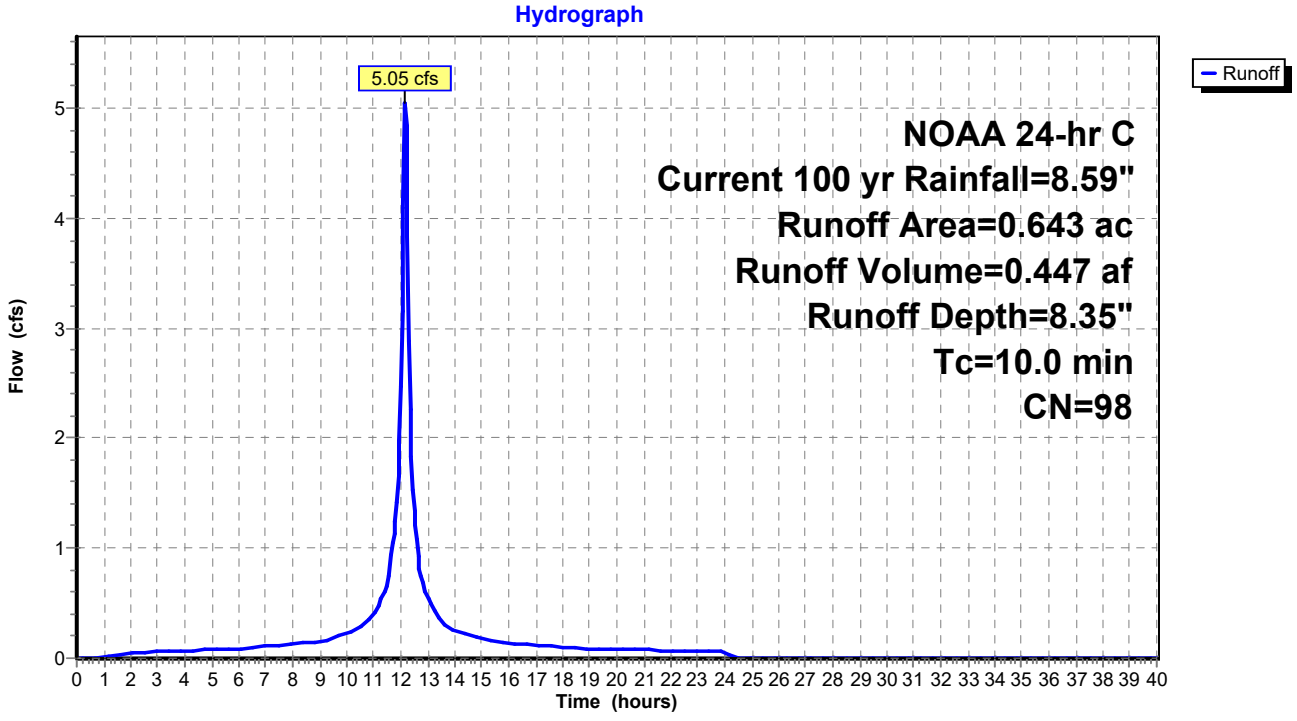
Runoff = 5.05 cfs @ 12.17 hrs, Volume= 0.447 af, Depth= 8.35"
Routed to Pond B-30 : Basin #30

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
*	0.643	98	Roof, HSG C
*	0.000	98	Concrete, HSC C
	0.643	98	Weighted Average
	0.643		100.00% Impervious Area

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

Subcatchment 30l: PDA-30 (impervious)



Summary for Subcatchment 30P: PDA-30 (pervious)

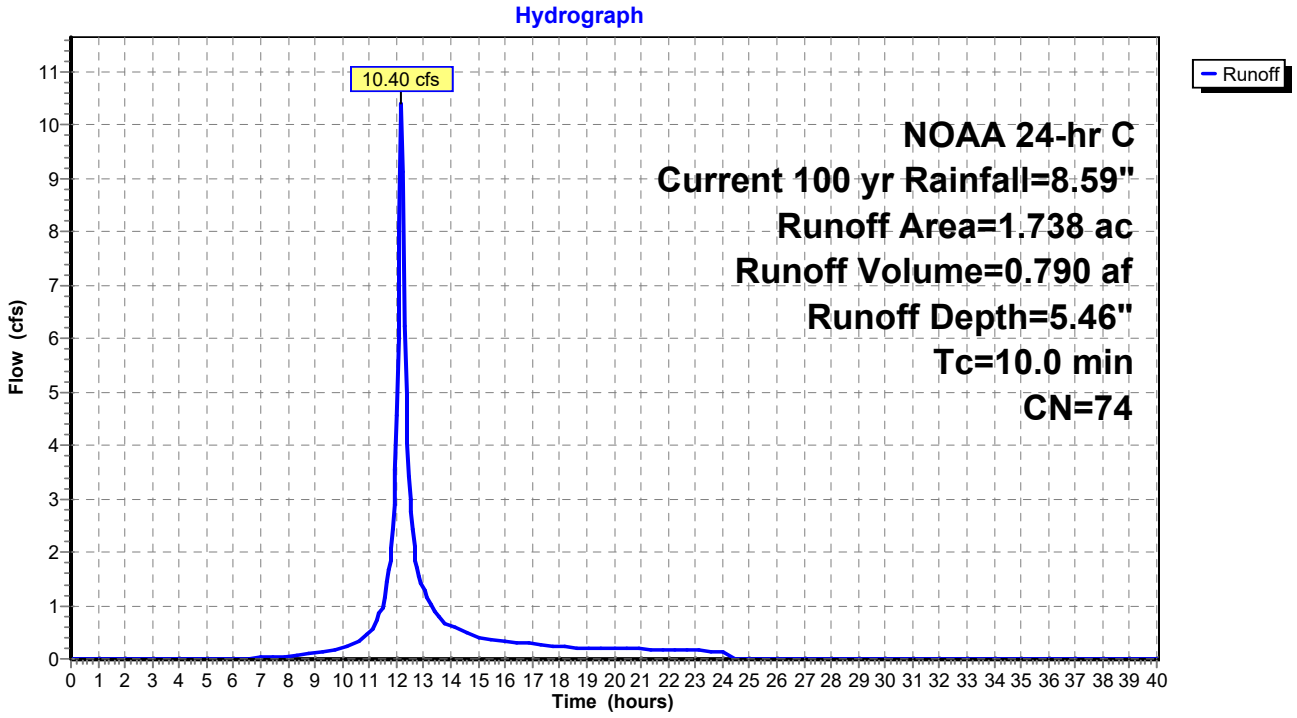
Runoff = 10.40 cfs @ 12.17 hrs, Volume= 0.790 af, Depth= 5.46"
Routed to Pond B-30 : Basin #30

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
1.738	74	>75% Grass cover, Good, HSG C
1.738		100.00% Pervious Area

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

Subcatchment 30P: PDA-30 (pervious)



Summary for Subcatchment 31I: PDA-31 (impervious)

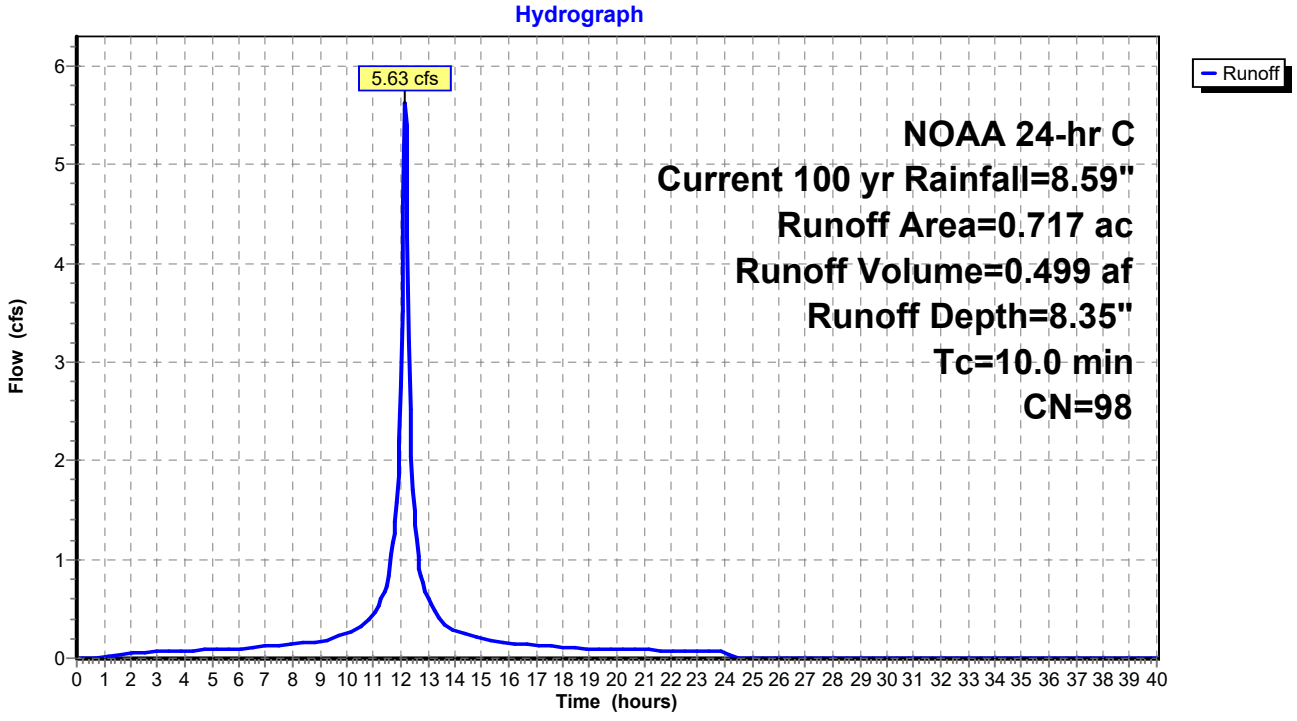
Runoff = 5.63 cfs @ 12.17 hrs, Volume= 0.499 af, Depth= 8.35"
Routed to Pond B-31 : Basin #31

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
*	0.557	98	Pavement, HSG C
*	0.064	98	Roof, HSG C
*	0.096	98	Concrete, HSC C
	0.717	98	Weighted Average
	0.717		100.00% Impervious Area

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

Subcatchment 31I: PDA-31 (impervious)



Summary for Subcatchment 31P: PDA-31 (pervious)

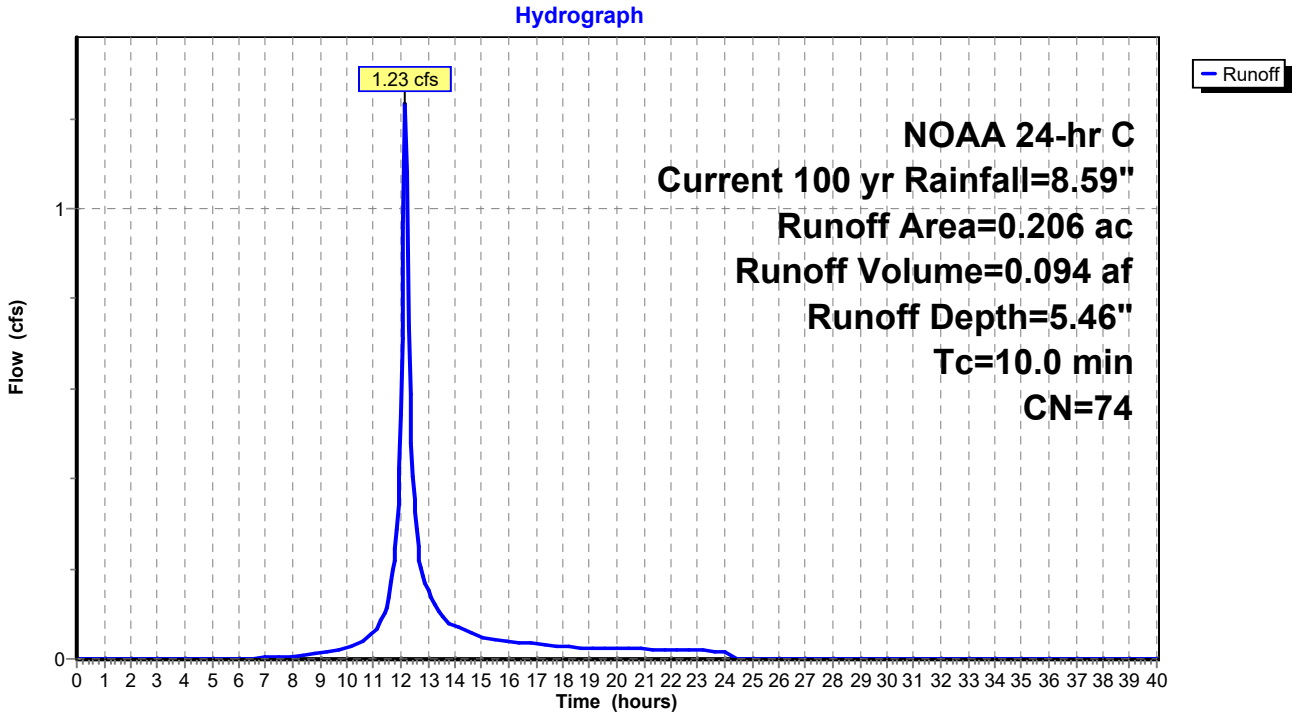
Runoff = 1.23 cfs @ 12.17 hrs, Volume= 0.094 af, Depth= 5.46"
Routed to Pond B-31 : Basin #31

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
0.206	74	>75% Grass cover, Good, HSG C
0.206		100.00% Pervious Area

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

Subcatchment 31P: PDA-31 (pervious)



Summary for Subcatchment 32I: PDA-32 (impervious)

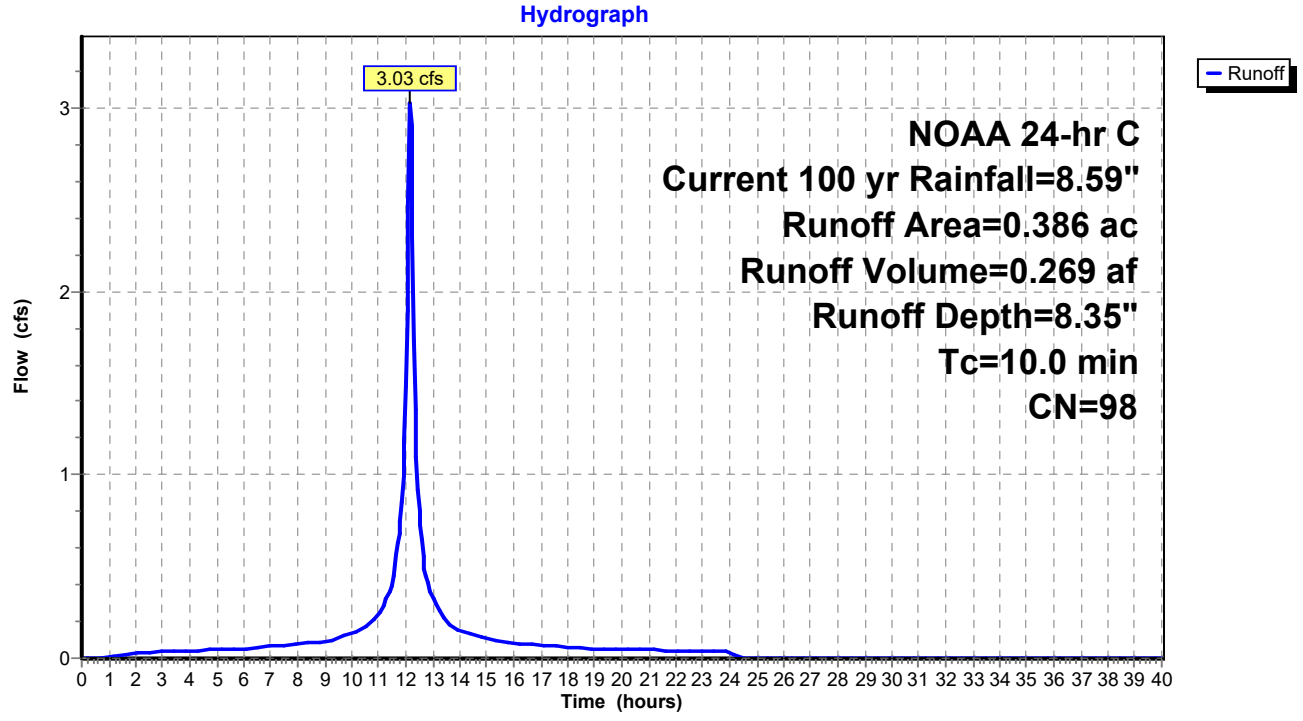
Runoff = 3.03 cfs @ 12.17 hrs, Volume= 0.269 af, Depth= 8.35"
Routed to Pond B-32 : Basin #32

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
*	0.386	98	Roof, HSG C
*	0.000	98	Concrete, HSC C
	0.386	98	Weighted Average
	0.386		100.00% Impervious Area

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

Subcatchment 32I: PDA-32 (impervious)



Summary for Subcatchment 32P: PDA-32 (pervious)

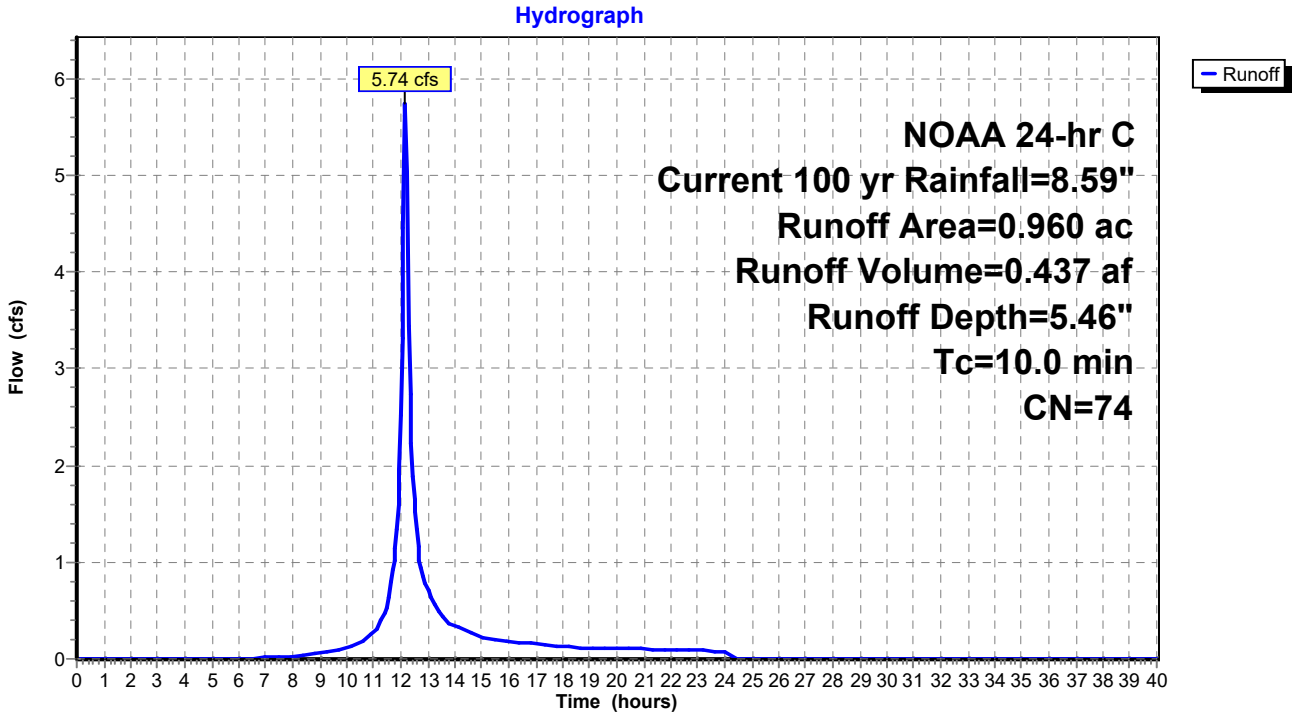
Runoff = 5.74 cfs @ 12.17 hrs, Volume= 0.437 af, Depth= 5.46"
Routed to Pond B-32 : Basin #32

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 32P: PDA-32 (pervious)



Summary for Subcatchment 33I: PDA-33 (impervious)

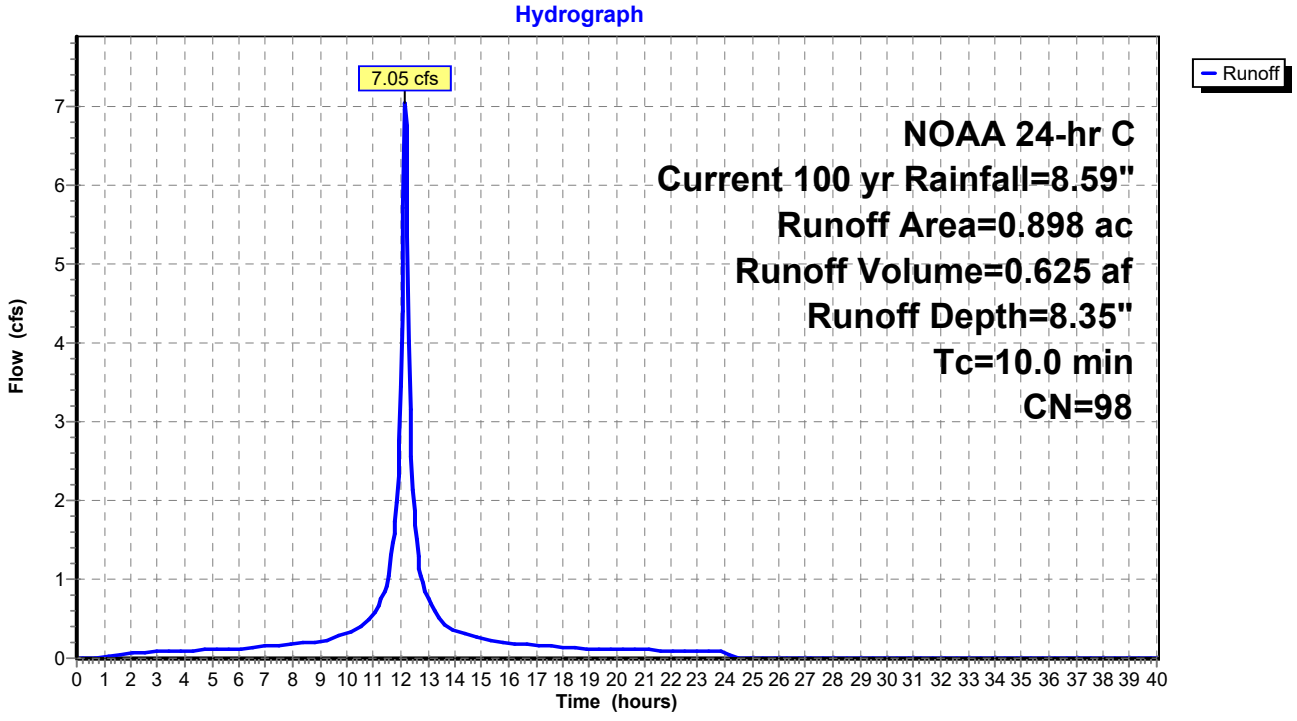
Runoff = 7.05 cfs @ 12.17 hrs, Volume= 0.625 af, Depth= 8.35"
Routed to Pond B-33 : Basin #33

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
*	0.351	98	Pavement, HSG C
*	0.514	98	Roof, HSG C
*	0.033	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 33I: PDA-33 (impervious)



Summary for Subcatchment 33P: PDA-33 (pervious)

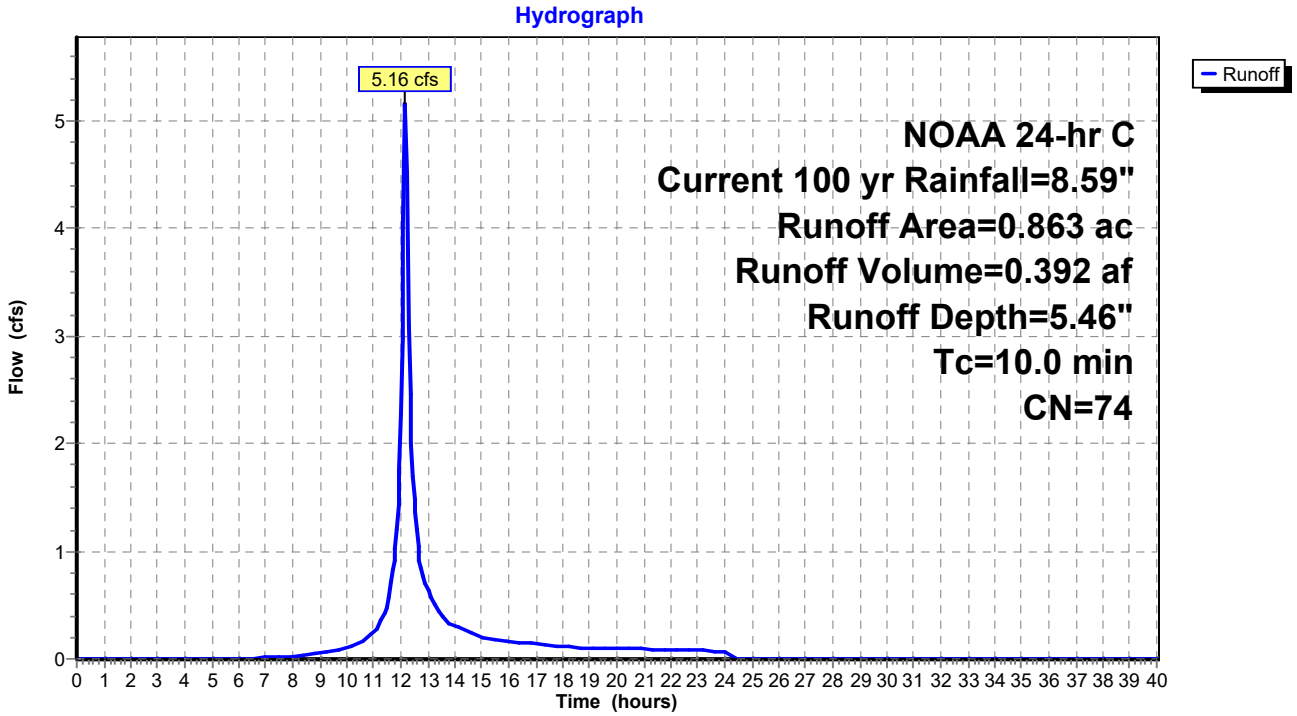
Runoff = 5.16 cfs @ 12.17 hrs, Volume= 0.392 af, Depth= 5.46"
Routed to Pond B-33 : Basin #33

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
0.863	74	>75% Grass cover, Good, HSG C
0.863		100.00% Pervious Area

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

Subcatchment 33P: PDA-33 (pervious)



Summary for Subcatchment 34I: PDA-34 (impervious)

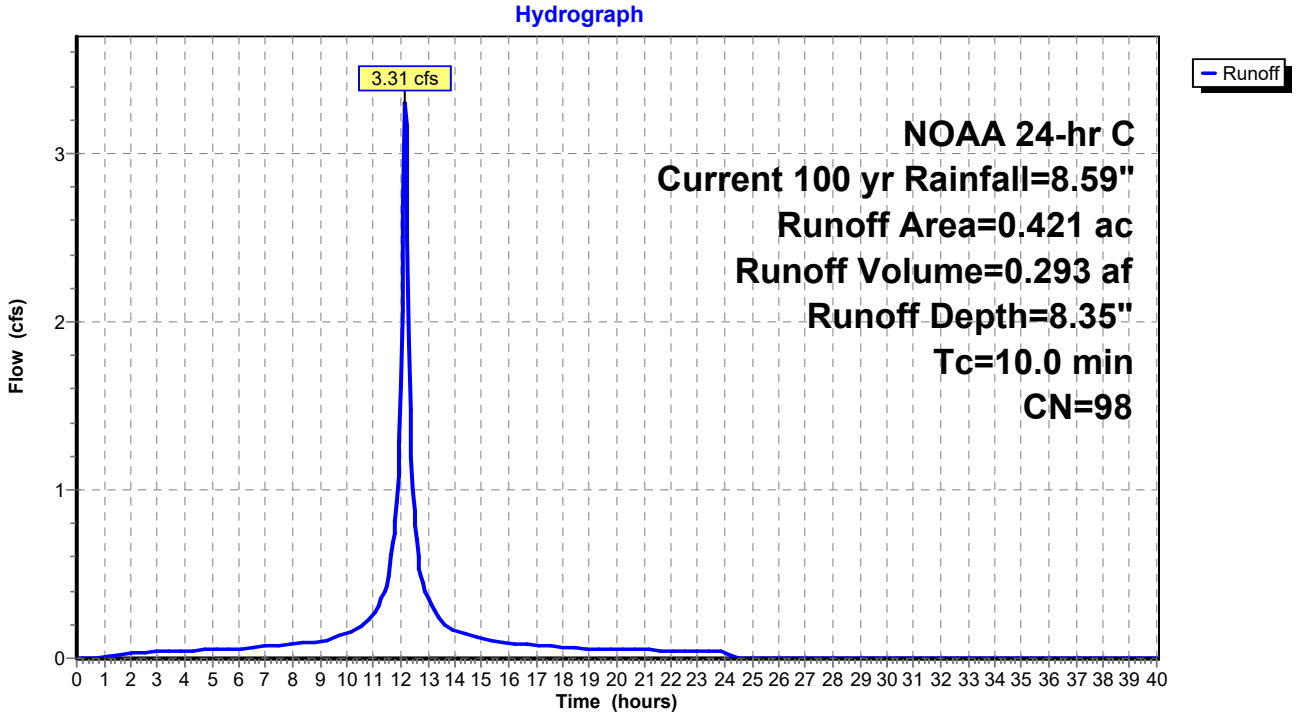
Runoff = 3.31 cfs @ 12.17 hrs, Volume= 0.293 af, Depth= 8.35"
Routed to Pond B-34 : Basin #34

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
*	0.279	98	Roof, HSG C
*	0.142	98	Concrete, HSC C
	0.421	98	Weighted Average
	0.421		100.00% Impervious Area

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

Subcatchment 34I: PDA-34 (impervious)



Summary for Subcatchment 34P: PDA-34 (pervious)

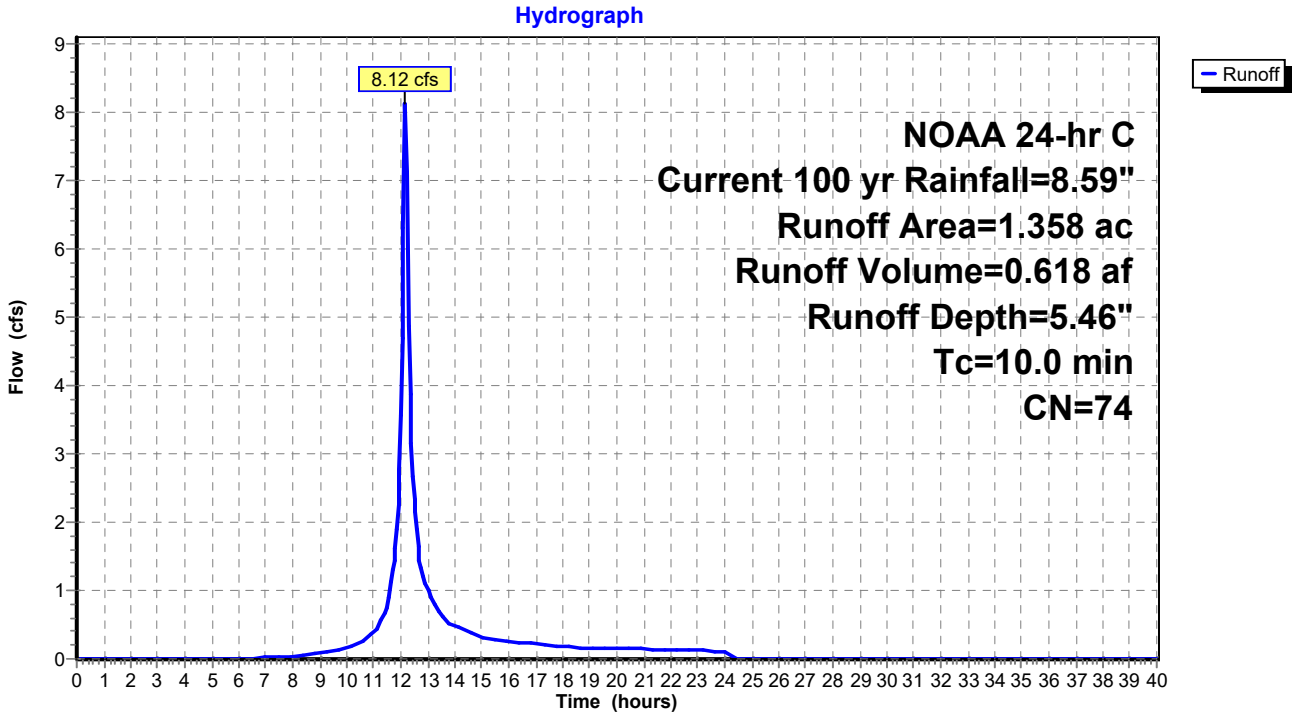
Runoff = 8.12 cfs @ 12.17 hrs, Volume= 0.618 af, Depth= 5.46"
Routed to Pond B-34 : Basin #34

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
1.358	74	>75% Grass cover, Good, HSG C
1.358		100.00% Pervious Area

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

Subcatchment 34P: PDA-34 (pervious)



Summary for Subcatchment 35l: PDA-35 (impervious)

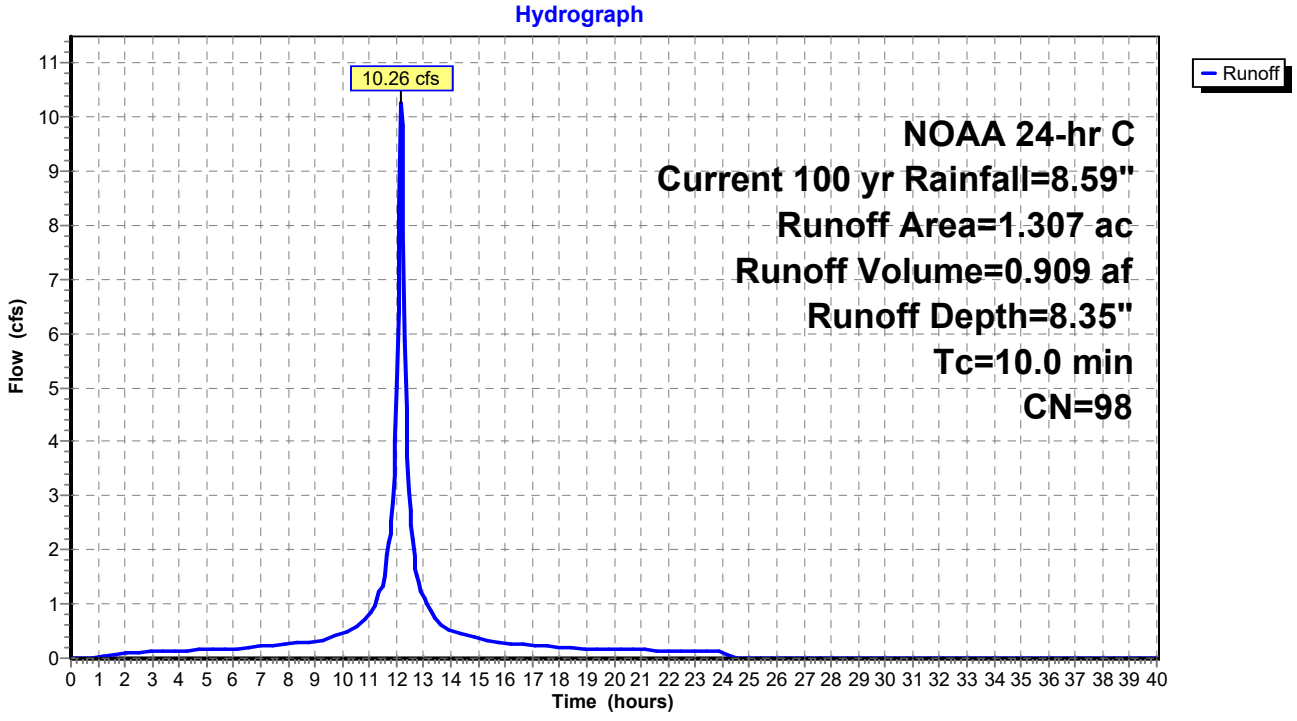
Runoff = 10.26 cfs @ 12.17 hrs, Volume= 0.909 af, Depth= 8.35"
Routed to Pond B-35 : Basin #35

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
*	1.003	98	Pavement, HSG C
*	0.139	98	Roof, HSG C
*	0.165	98	Concrete, HSC C
	1.307	98	Weighted Average
	1.307		100.00% Impervious Area

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

Subcatchment 35l: PDA-35 (impervious)



Summary for Subcatchment 35P: PDA-35 (pervious)

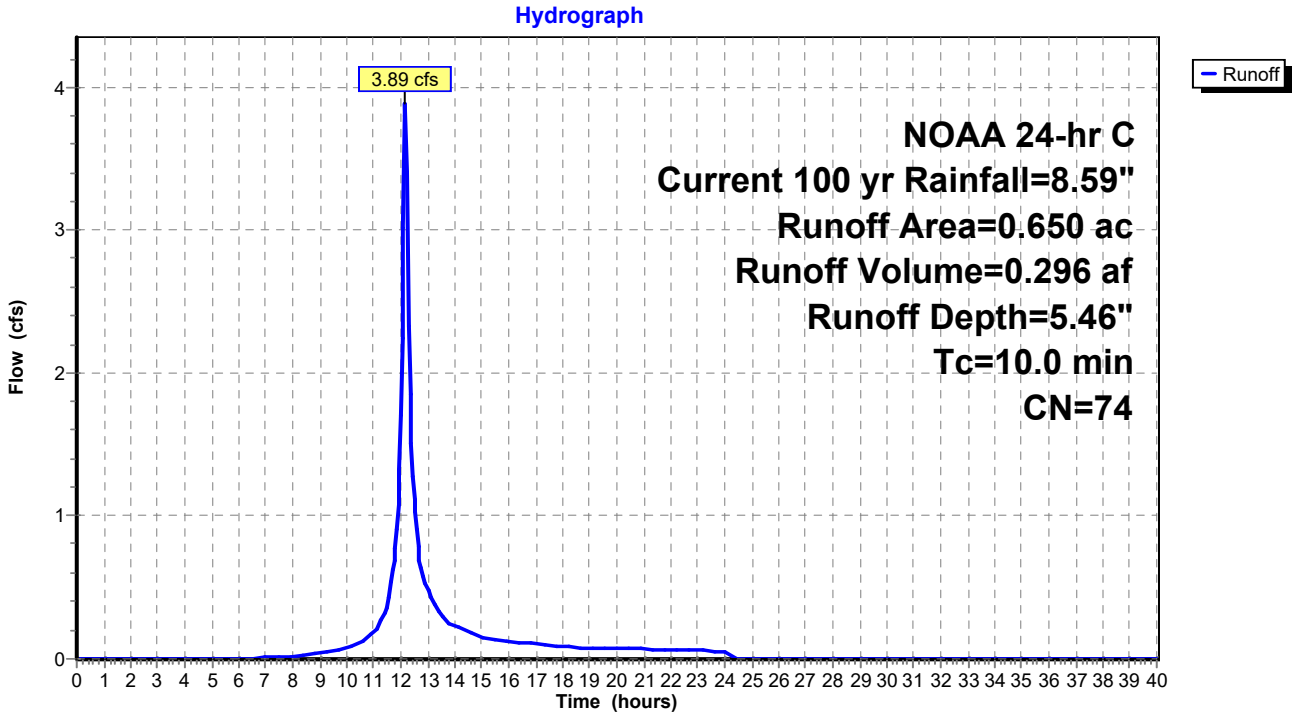
Runoff = 3.89 cfs @ 12.17 hrs, Volume= 0.296 af, Depth= 5.46"
Routed to Pond B-35 : Basin #35

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
0.650	74	>75% Grass cover, Good, HSG C
0.650		100.00% Pervious Area

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

Subcatchment 35P: PDA-35 (pervious)



Summary for Subcatchment 36AI: PDA-36A (impervious)

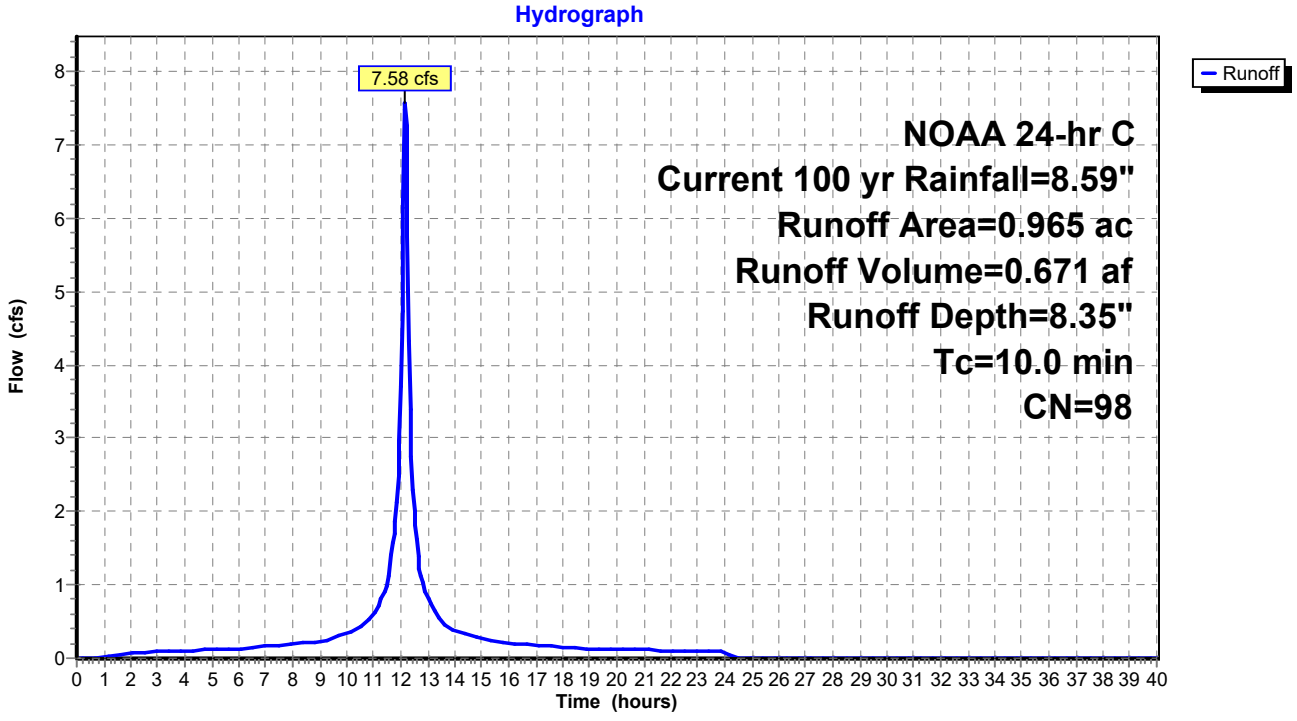
Runoff = 7.58 cfs @ 12.17 hrs, Volume= 0.671 af, Depth= 8.35"
Routed to Pond B-36A : Basin #36A

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
*	0.415	98	Pavement, HSG C
*	0.418	98	Roof, HSG C
*	0.132	98	Concrete, HSC C
	0.965	98	Weighted Average
	0.965		100.00% Impervious Area

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

Subcatchment 36AI: PDA-36A (impervious)



Summary for Subcatchment 36AP: PDA-36A (pervious)

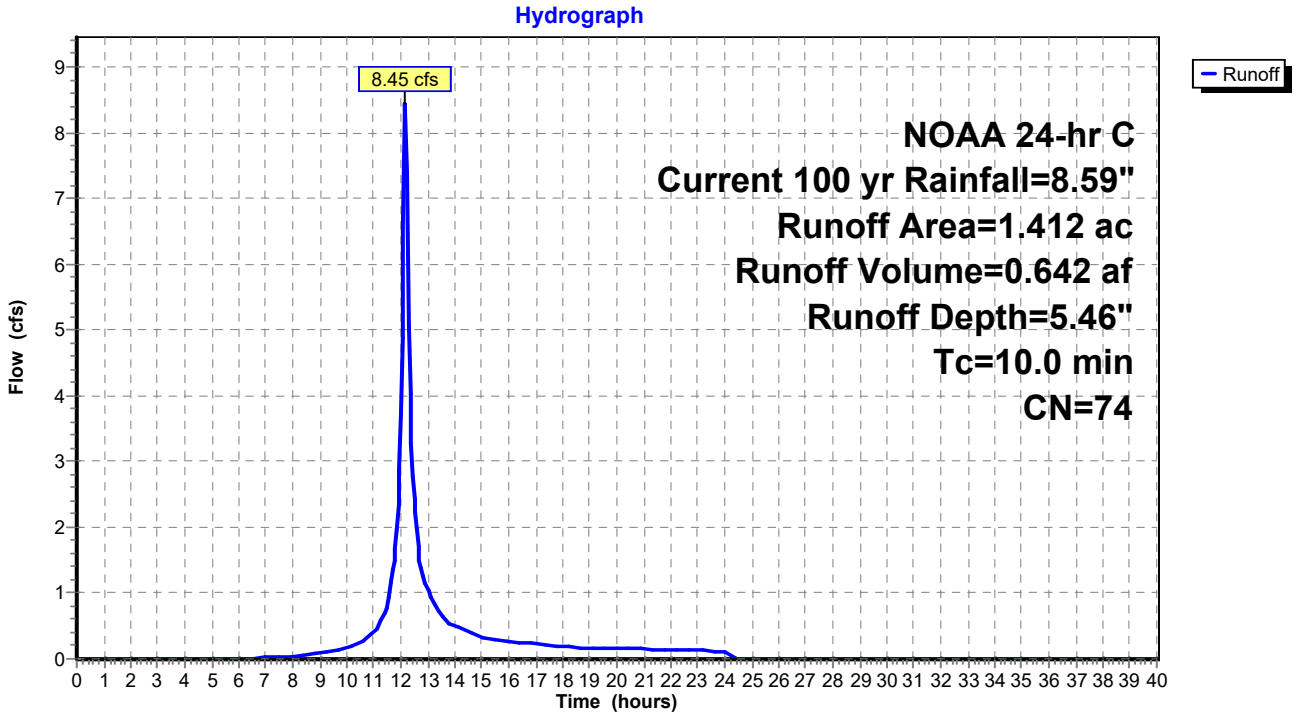
Runoff = 8.45 cfs @ 12.17 hrs, Volume= 0.642 af, Depth= 5.46"
Routed to Pond B-36A : Basin #36A

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
1.412	74	>75% Grass cover, Good, HSG C
1.412		100.00% Pervious Area

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

Subcatchment 36AP: PDA-36A (pervious)



Summary for Subcatchment 36BI: PDA-36B (impervious)

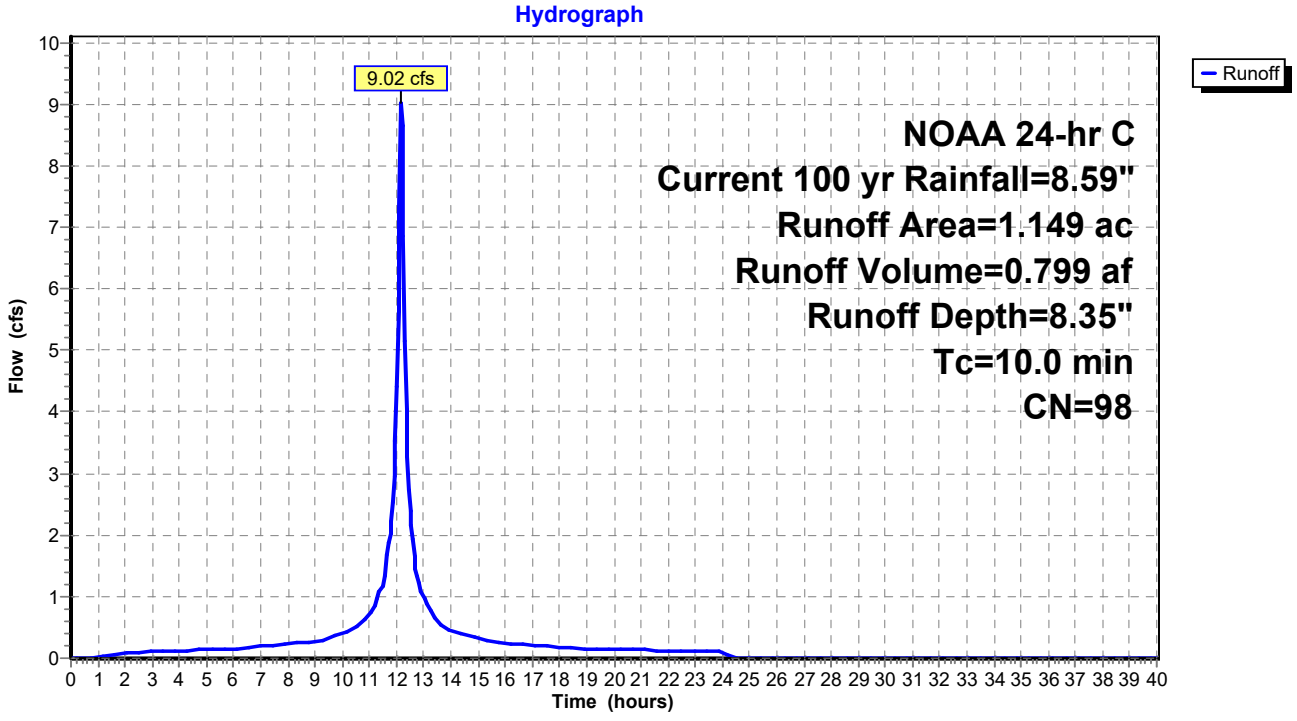
Runoff = 9.02 cfs @ 12.17 hrs, Volume= 0.799 af, Depth= 8.35"
Routed to Pond B-36B : Basin #36B

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
*	0.501	98	Pavement, HSG C
*	0.579	98	Roof, HSG C
*	0.069	98	Concrete, HSC C
	1.149	98	Weighted Average
	1.149		100.00% Impervious Area

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

Subcatchment 36BI: PDA-36B (impervious)



Summary for Subcatchment 36BP: PDA-36B (pervious)

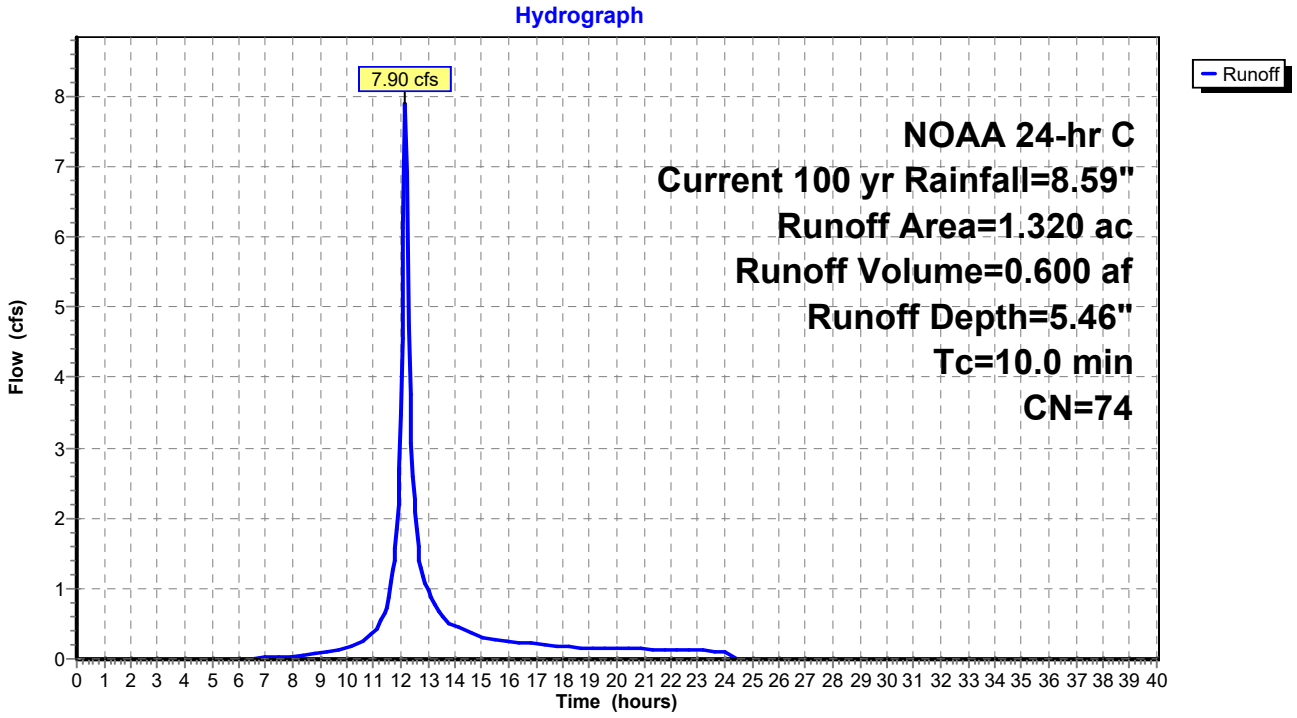
Runoff = 7.90 cfs @ 12.17 hrs, Volume= 0.600 af, Depth= 5.46"
Routed to Pond B-36B : Basin #36B

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
1.320	74	>75% Grass cover, Good, HSG C
1.320		100.00% Pervious Area

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

Subcatchment 36BP: PDA-36B (pervious)



Summary for Subcatchment 37AI: PDA-37B (impervious)

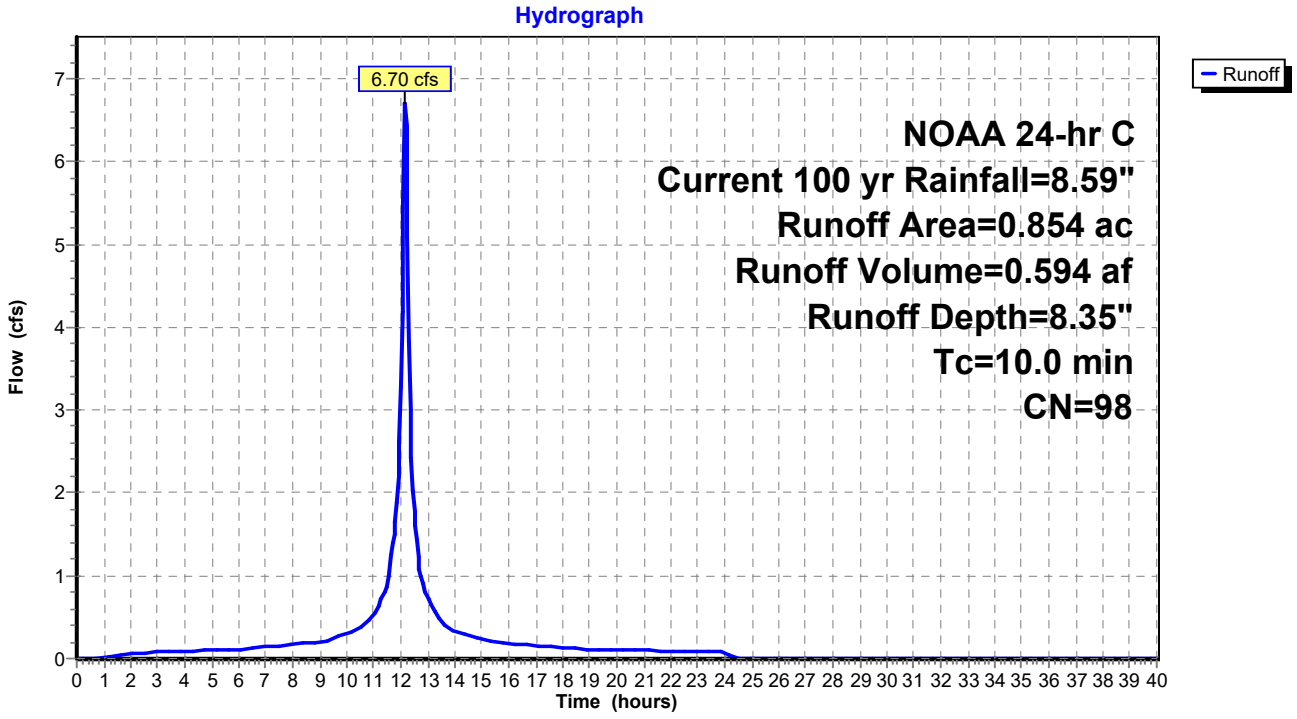
Runoff = 6.70 cfs @ 12.17 hrs, Volume= 0.594 af, Depth= 8.35"
Routed to Pond B-37A : Basin #37A

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
*	0.673	98	Pavement, HSG C
*	0.181	98	Concrete, HSC C
	0.854	98	Weighted Average
	0.854		100.00% Impervious Area

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

Subcatchment 37AI: PDA-37B (impervious)



Summary for Subcatchment 37AP: PDA-37A (pervious)

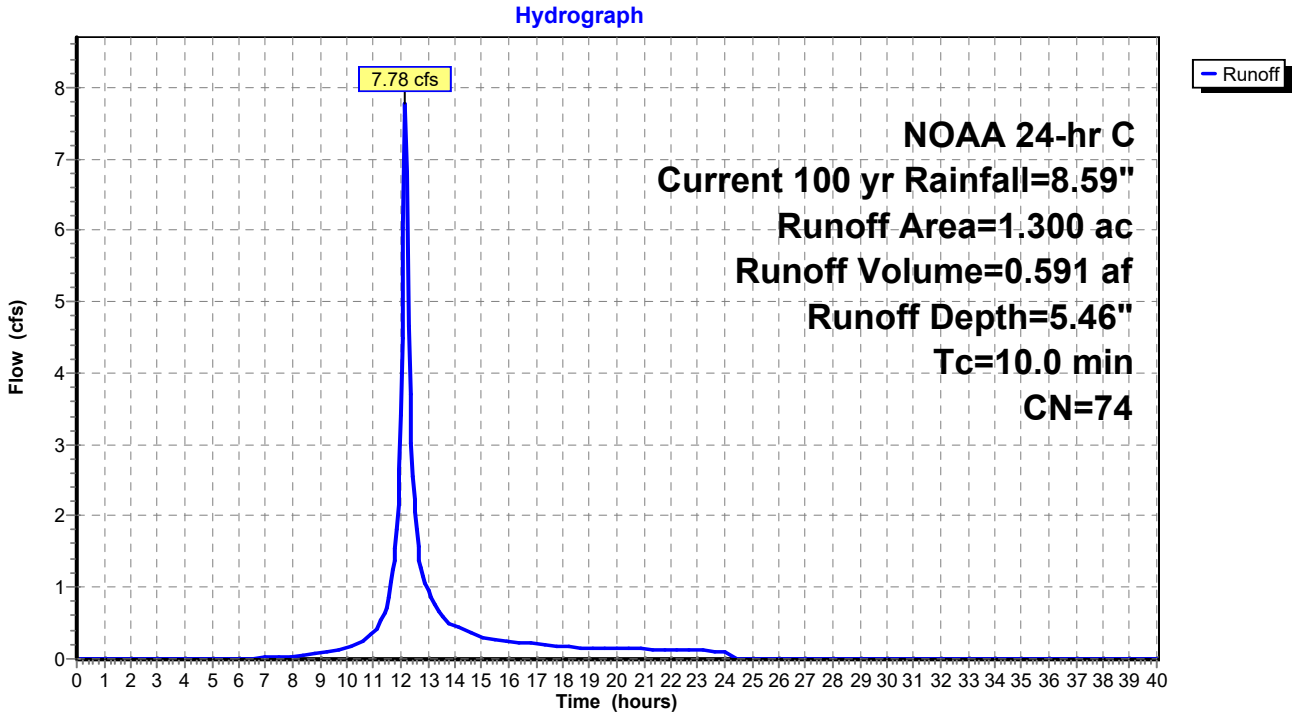
Runoff = 7.78 cfs @ 12.17 hrs, Volume= 0.591 af, Depth= 5.46"
Routed to Pond B-37A : Basin #37A

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
1.300	74	>75% Grass cover, Good, HSG C
1.300		100.00% Pervious Area

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

Subcatchment 37AP: PDA-37A (pervious)



Summary for Subcatchment 37BI: PDA-37B (impervious)

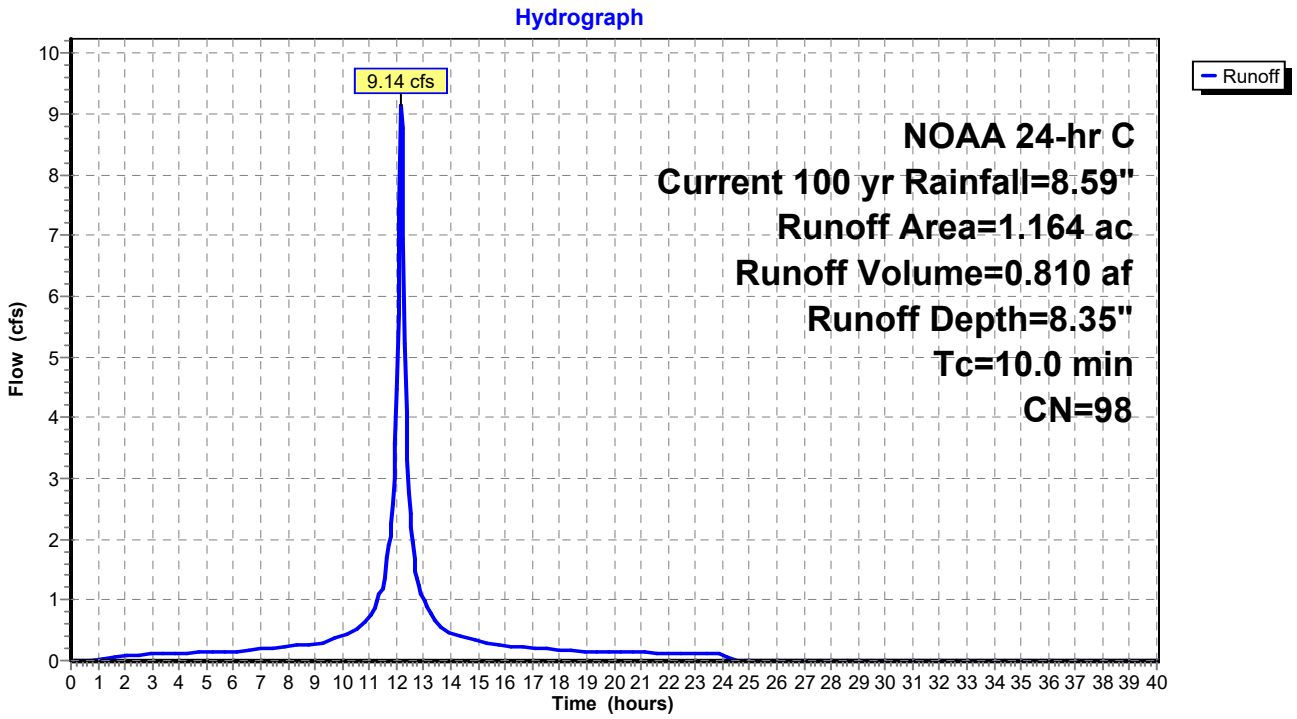
Runoff = 9.14 cfs @ 12.17 hrs, Volume= 0.810 af, Depth= 8.35"
Routed to Pond B-37B : Basin #37B

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
*	0.806	98	Pavement, HSG C
*	0.079	98	Concrete, HSC C
	0.279	98	Unconnected roofs, HSG C
	1.164	98	Weighted Average
	1.164		100.00% Impervious Area
	0.279		23.97% Unconnected

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

Subcatchment 37BI: PDA-37B (impervious)



Summary for Subcatchment 38BP: PDA-37B (pervious)

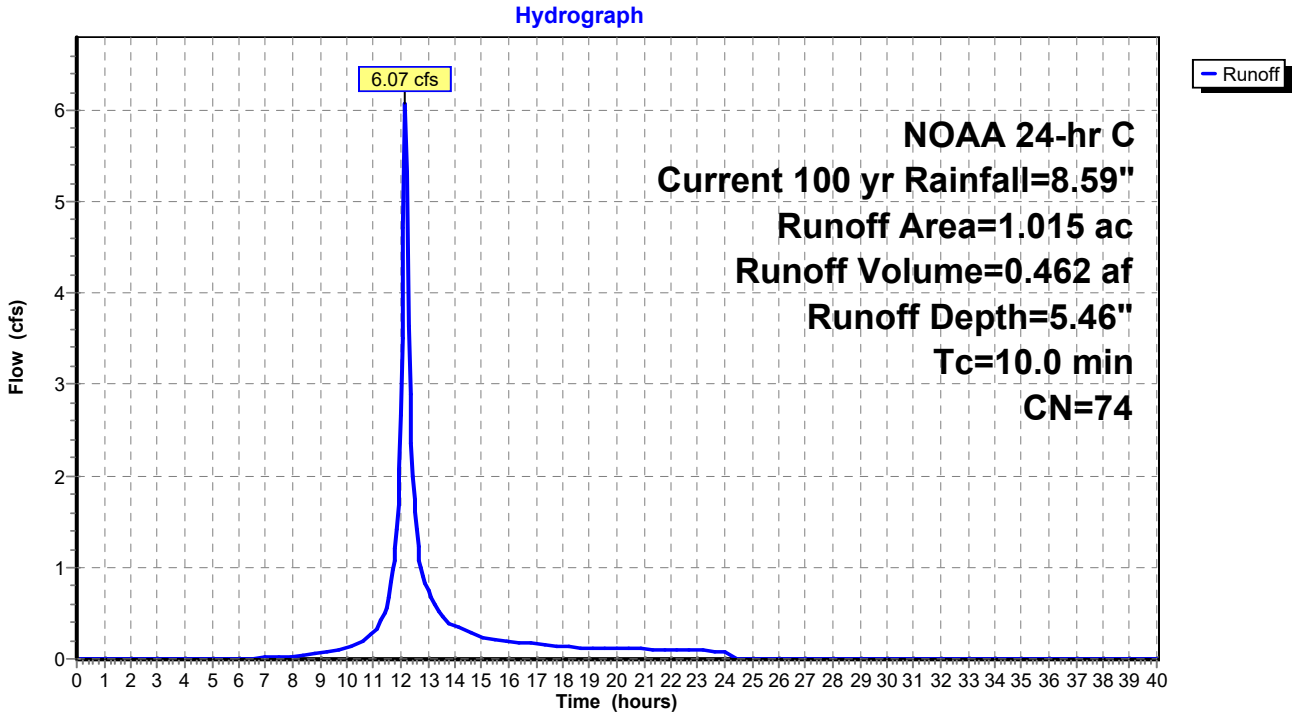
Runoff = 6.07 cfs @ 12.17 hrs, Volume= 0.462 af, Depth= 5.46"
Routed to Pond B-37B : Basin #37B

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
1.015	74	>75% Grass cover, Good, HSG C
1.015		100.00% Pervious Area

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

Subcatchment 38BP: PDA-37B (pervious)



Summary for Subcatchment 38I: PDA-38 (impervious)

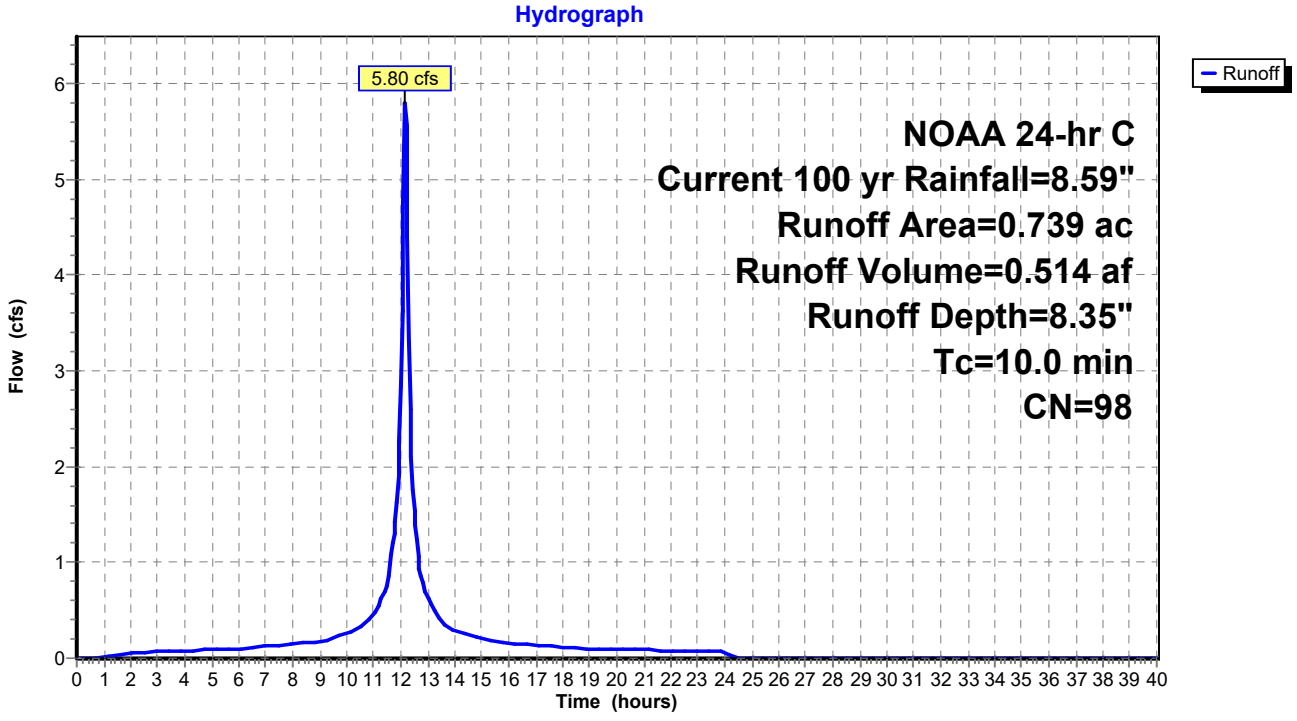
Runoff = 5.80 cfs @ 12.17 hrs, Volume= 0.514 af, Depth= 8.35"
Routed to Pond B-38 : Basin #38

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
*	0.568	98	Roof, HSG C
*	0.171	98	Concrete, HSC C
	0.000	98	Paved roads w/curbs & sewers, HSG C
	0.739	98	Weighted Average
	0.739		100.00% Impervious Area

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

Subcatchment 38I: PDA-38 (impervious)



Summary for Subcatchment 38P: PDA-38 (pervious)

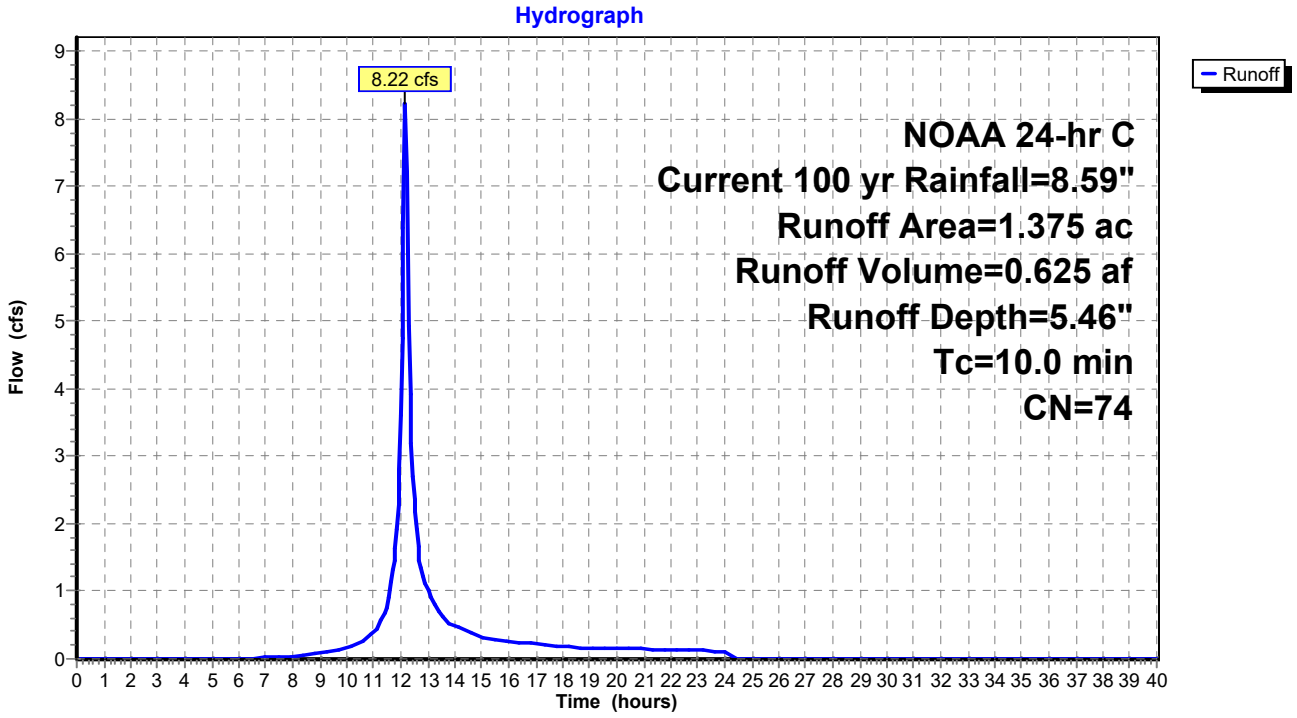
Runoff = 8.22 cfs @ 12.17 hrs, Volume= 0.625 af, Depth= 5.46"
Routed to Pond B-38 : Basin #38

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
1.375	74	>75% Grass cover, Good, HSG C
1.375		100.00% Pervious Area

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

Subcatchment 38P: PDA-38 (pervious)



Summary for Subcatchment 39I: PDA-39 (impervious)

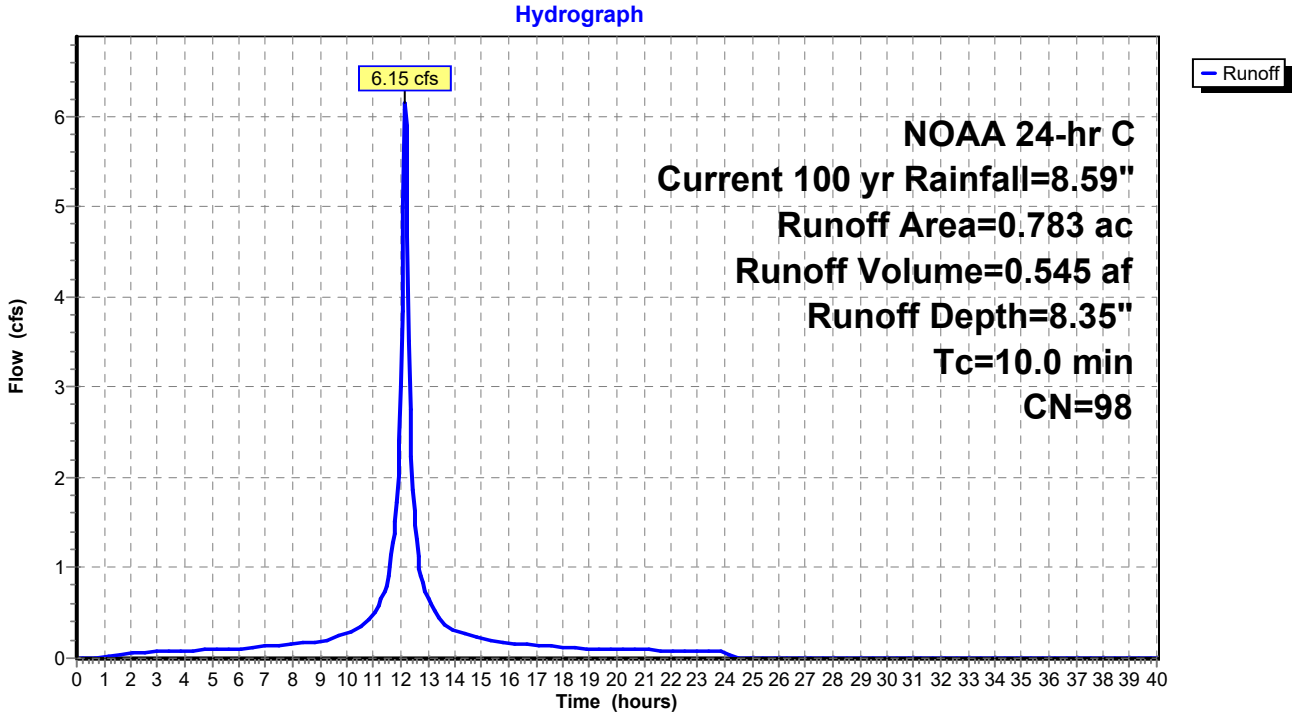
Runoff = 6.15 cfs @ 12.17 hrs, Volume= 0.545 af, Depth= 8.35"
Routed to Pond B-39 : Basin #39

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
*	0.568	98	Roof, HSG C
*	0.164	98	Concrete, HSC C
	0.051	98	Paved roads w/curbs & sewers, HSG C
	0.783	98	Weighted Average
	0.783		100.00% Impervious Area

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

Subcatchment 39I: PDA-39 (impervious)



Summary for Subcatchment 39P: PDA-39 (pervious)

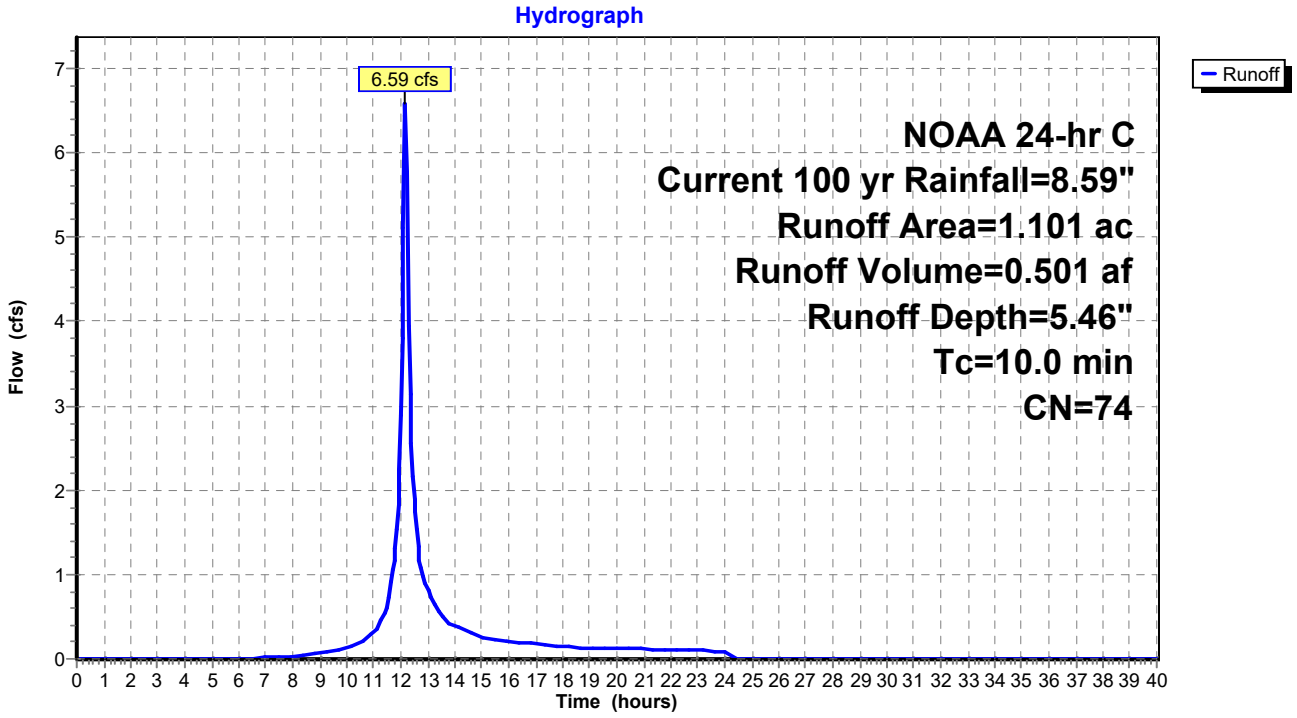
Runoff = 6.59 cfs @ 12.17 hrs, Volume= 0.501 af, Depth= 5.46"
Routed to Pond B-39 : Basin #39

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
1.101	74	>75% Grass cover, Good, HSG C
1.101		100.00% Pervious Area

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

Subcatchment 39P: PDA-39 (pervious)



Summary for Subcatchment 40I: PDA-40 (impervious)

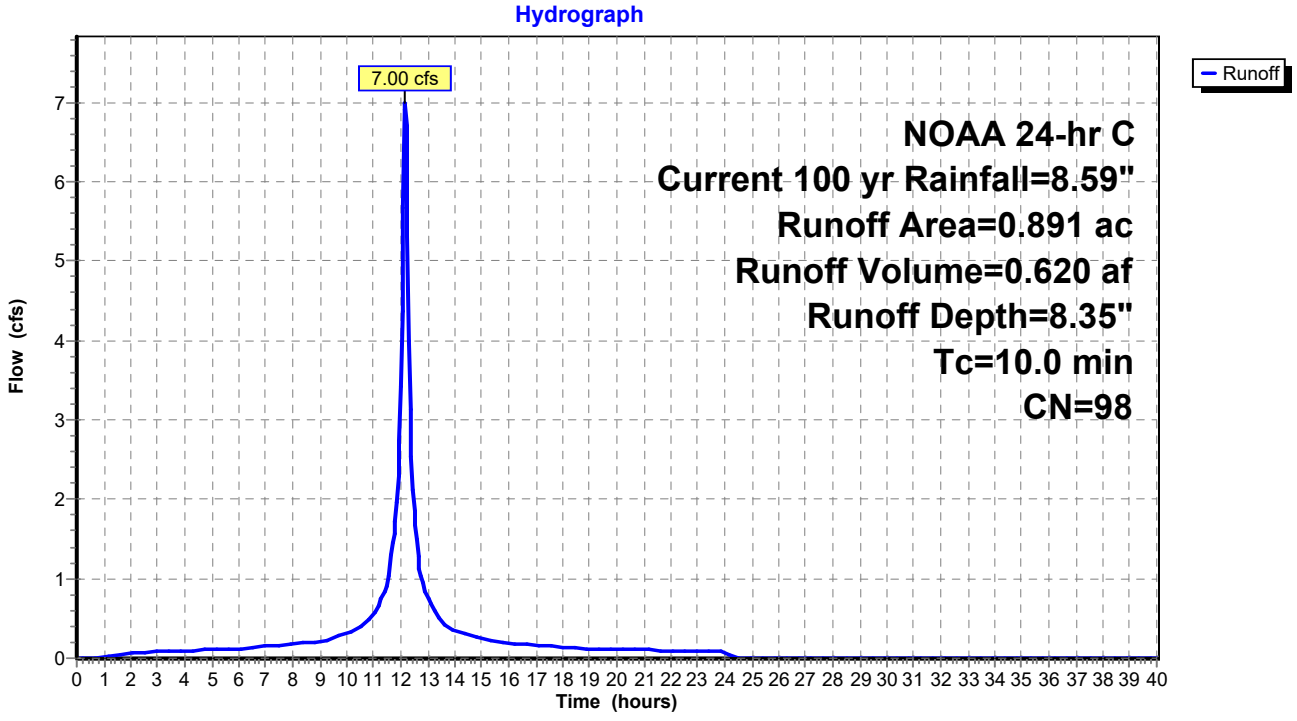
Runoff = 7.00 cfs @ 12.17 hrs, Volume= 0.620 af, Depth= 8.35"
Routed to Pond B-40 : Basin #40

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
*	0.568	98	Roof, HSG C
*	0.179	98	Concrete, HSC C
	0.144	98	Paved roads w/curbs & sewers, HSG C
	0.891	98	Weighted Average
	0.891		100.00% Impervious Area

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

Subcatchment 40I: PDA-40 (impervious)



Summary for Subcatchment 40P: PDA-40 (pervious)

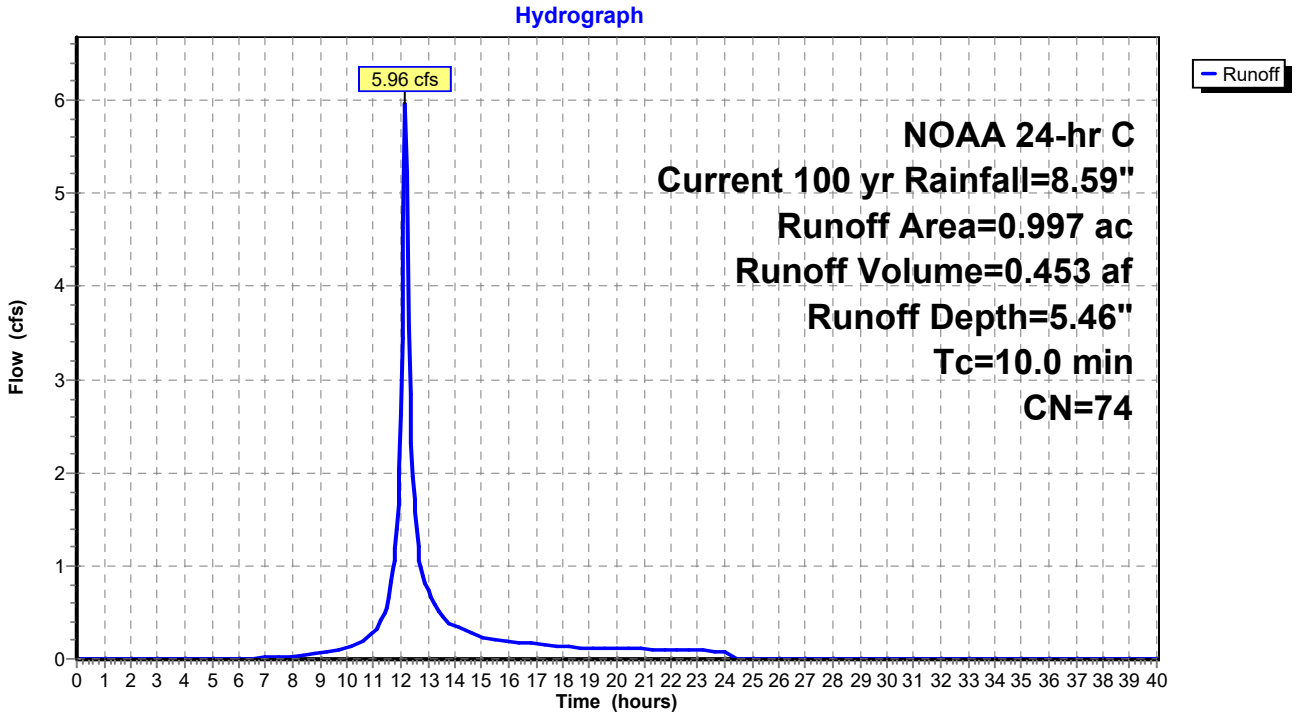
Runoff = 5.96 cfs @ 12.17 hrs, Volume= 0.453 af, Depth= 5.46"
Routed to Pond B-40 : Basin #40

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
0.997	74	>75% Grass cover, Good, HSG C
0.997		100.00% Pervious Area

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

Subcatchment 40P: PDA-40 (pervious)



Summary for Subcatchment UPDA-3: PDA-3 (undetained)

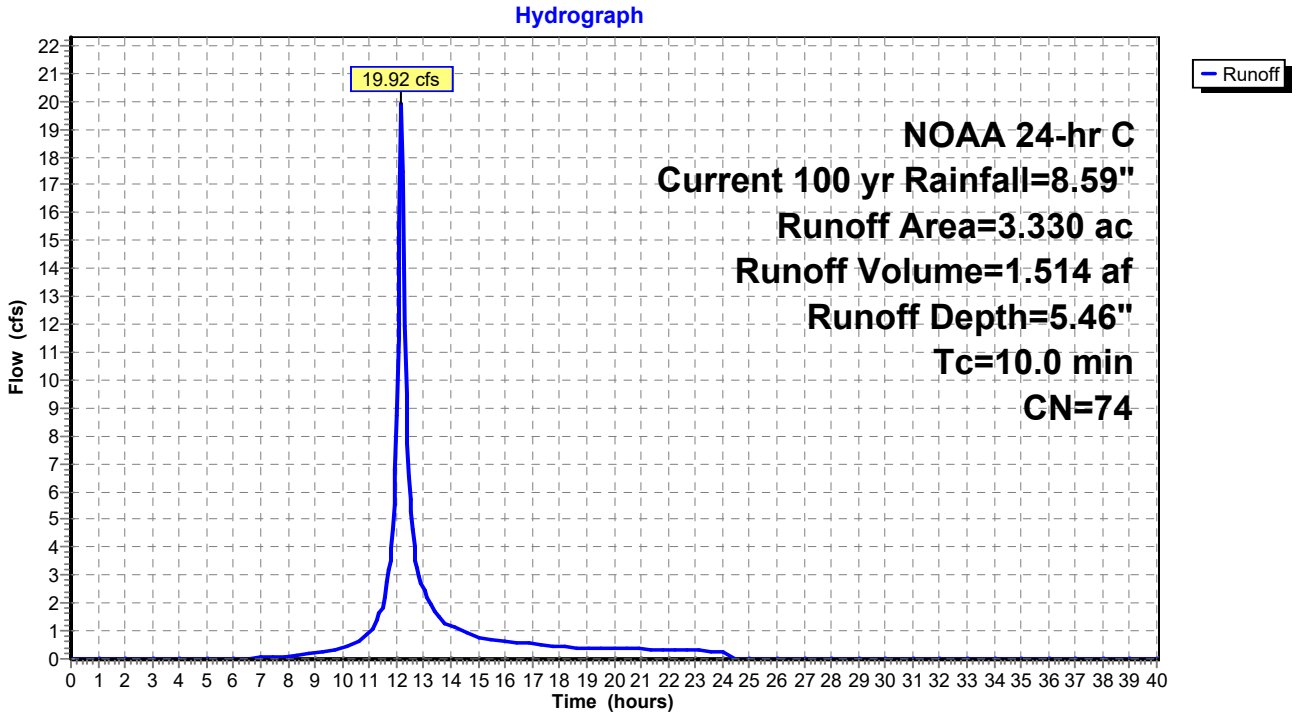
Runoff = 19.92 cfs @ 12.17 hrs, Volume= 1.514 af, Depth= 5.46"
Routed to Link PDA-3 : Proposed Drainage Area #3

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 Current 100 yr Rainfall=8.59"

Area (ac)	CN	Description
3.330	74	>75% Grass cover, Good, HSG C
3.330		100.00% Pervious Area

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

Subcatchment UPDA-3: PDA-3 (undetained)



Summary for Pond B-29: Basin #29

Inflow Area = 1.077 ac, 34.91% Impervious, Inflow Depth = 6.47" for Current 100 yr event
Inflow = 7.14 cfs @ 12.17 hrs, Volume= 0.580 af
Outflow = 5.21 cfs @ 12.27 hrs, Volume= 0.538 af, Atten= 27%, Lag= 5.7 min
Primary = 5.21 cfs @ 12.27 hrs, Volume= 0.538 af
Routed to Pond B-30 : Basin #30

Routing by Stor-Ind method, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
Peak Elev= 187.54' @ 12.27 hrs Surf.Area= 7,180 sf Storage= 6,153 cf

Plug-Flow detention time= 115.9 min calculated for 0.537 af (93% of inflow)
Center-of-Mass det. time= 76.6 min (862.7 - 786.1)

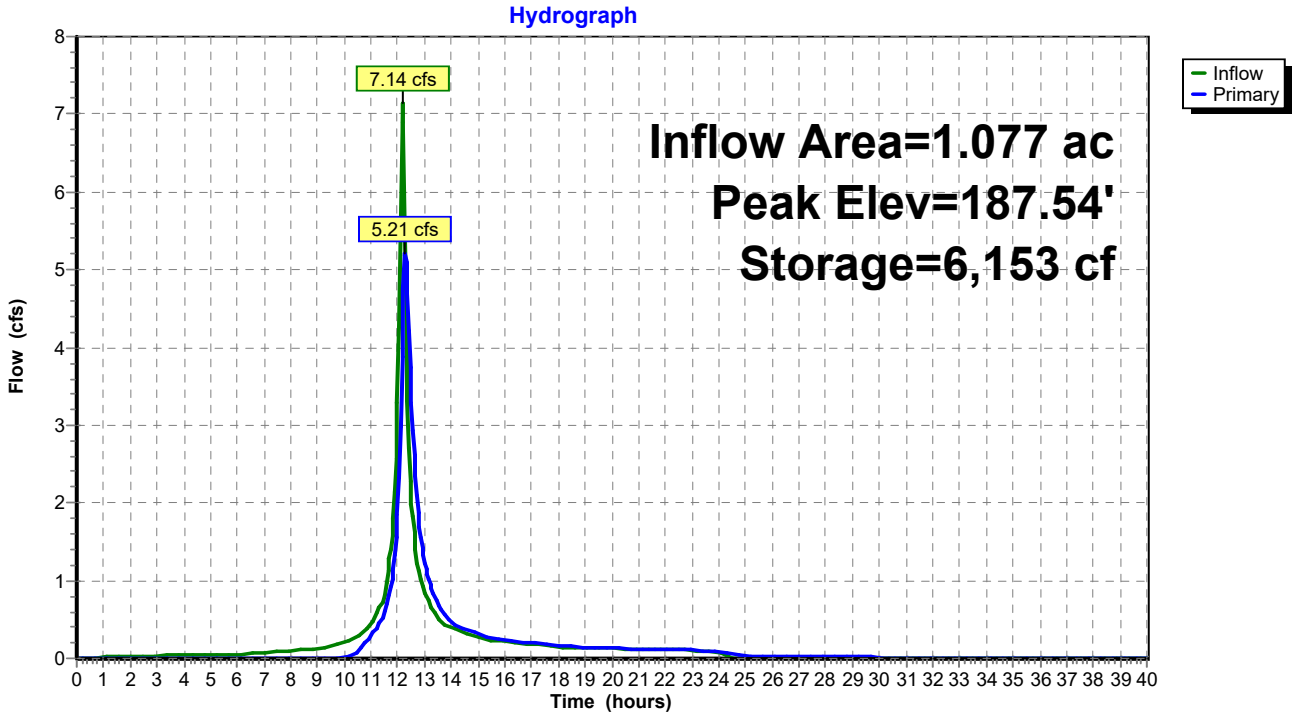
Volume	Invert	Avail.Storage	Storage Description
#1	186.30'	17,435 cf	**Custom Stage Data (Prismatic)** Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
186.30	0	0	0
187.00	6,769	2,369	2,369
188.00	7,526	7,148	9,517
189.00	8,311	7,919	17,435

Device	Routing	Invert	Outlet Devices
#1	Primary	185.65'	**18.0" Round Culvert** L= 177.0' Ke= 0.500 Inlet / Outlet Invert= 185.65' / 182.00' S= 0.0206 '/' Cc= 0.900 n= 0.013, Flow Area= 1.77 sf
#2	Device 1	186.88'	**2.5" Vert. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#3	Device 1	187.00'	**4.0' long Sharp-Crested Rectangular Weir** 2 End Contraction(s)
#4	Primary	188.17'	**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=5.15 cfs @ 12.27 hrs HW=187.54' (Free Discharge)
- **1=Culvert** (Passes 5.15 cfs of 9.08 cfs potential flow)
  - **2=Orifice/Grate** (Orifice Controls 0.12 cfs @ 3.58 fps)
  - **3=Sharp-Crested Rectangular Weir** (Weir Controls 5.03 cfs @ 2.40 fps)
- **4=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)

Pond B-29: Basin #29



Stage-Discharge for Pond B-29: Basin #29

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
186.30	0.00	186.82	0.00	187.34	2.65	187.86	10.14
186.31	0.00	186.83	0.00	187.35	2.76	187.87	10.31
186.32	0.00	186.84	0.00	187.36	2.88	187.88	10.35
186.33	0.00	186.85	0.00	187.37	2.99	187.89	10.39
186.34	0.00	186.86	0.00	187.38	3.11	187.90	10.42
186.35	0.00	186.87	0.00	187.39	3.23	187.91	10.46
186.36	0.00	186.88	0.00	187.40	3.35	187.92	10.49
186.37	0.00	186.89	0.00	187.41	3.47	187.93	10.52
186.38	0.00	186.90	0.00	187.42	3.59	187.94	10.56
186.39	0.00	186.91	0.00	187.43	3.72	187.95	10.59
186.40	0.00	186.92	0.00	187.44	3.84	187.96	10.63
186.41	0.00	186.93	0.00	187.45	3.97	187.97	10.66
186.42	0.00	186.94	0.01	187.46	4.10	187.98	10.70
186.43	0.00	186.95	0.01	187.47	4.23	187.99	10.73
186.44	0.00	186.96	0.01	187.48	4.36	188.00	10.76
186.45	0.00	186.97	0.01	187.49	4.49	188.01	10.80
186.46	0.00	186.98	0.02	187.50	4.63	188.02	10.83
186.47	0.00	186.99	0.02	187.51	4.76	188.03	10.86
186.48	0.00	187.00	0.02	187.52	4.90	188.04	10.90
186.49	0.00	187.01	0.04	187.53	5.03	188.05	10.93
186.50	0.00	187.02	0.07	187.54	5.17	188.06	10.96
186.51	0.00	187.03	0.10	187.55	5.31	188.07	11.00
186.52	0.00	187.04	0.14	187.56	5.45	188.08	11.03
186.53	0.00	187.05	0.19	187.57	5.59	188.09	11.06
186.54	0.00	187.06	0.24	187.58	5.74	188.10	11.09
186.55	0.00	187.07	0.29	187.59	5.88	188.11	11.13
186.56	0.00	187.08	0.35	187.60	6.03	188.12	11.16
186.57	0.00	187.09	0.40	187.61	6.17	188.13	11.19
186.58	0.00	187.10	0.47	187.62	6.32	188.14	11.22
186.59	0.00	187.11	0.53	187.63	6.47	188.15	11.26
186.60	0.00	187.12	0.60	187.64	6.62	188.16	11.29
186.61	0.00	187.13	0.67	187.65	6.77	188.17	11.32
186.62	0.00	187.14	0.75	187.66	6.92	188.18	11.47
186.63	0.00	187.15	0.82	187.67	7.07	188.19	11.72
186.64	0.00	187.16	0.90	187.68	7.22	188.20	12.02
186.65	0.00	187.17	0.98	187.69	7.38	188.21	12.39
186.66	0.00	187.18	1.06	187.70	7.53	188.22	12.79
186.67	0.00	187.19	1.15	187.71	7.69	188.23	13.23
186.68	0.00	187.20	1.23	187.72	7.84	188.24	13.72
186.69	0.00	187.21	1.32	187.73	8.00	188.25	14.23
186.70	0.00	187.22	1.41	187.74	8.16	188.26	14.78
186.71	0.00	187.23	1.51	187.75	8.32	188.27	15.35
186.72	0.00	187.24	1.60	187.76	8.48	188.28	15.96
186.73	0.00	187.25	1.70	187.77	8.64	188.29	16.59
186.74	0.00	187.26	1.80	187.78	8.81	188.30	17.25
186.75	0.00	187.27	1.90	187.79	8.97	188.31	17.93
186.76	0.00	187.28	2.00	187.80	9.13	188.32	18.64
186.77	0.00	187.29	2.10	187.81	9.30	188.33	19.37
186.78	0.00	187.30	2.21	187.82	9.46	188.34	20.12
186.79	0.00	187.31	2.32	187.83	9.63	188.35	20.89
186.80	0.00	187.32	2.42	187.84	9.80	188.36	21.69
186.81	0.00	187.33	2.54	187.85	9.97	188.37	22.51

Stage-Discharge for Pond B-29: Basin #29 (continued)

Elevation (feet)	Primary (cfs)
188.38	23.38
188.39	24.29
188.40	25.22
188.41	26.17
188.42	27.15
188.43	28.15
188.44	29.18
188.45	30.23
188.46	31.31
188.47	32.41
188.48	33.54
188.49	34.69
188.50	35.86
188.51	37.06
188.52	38.29
188.53	39.53
188.54	40.80
188.55	42.10
188.56	43.42
188.57	44.76
188.58	46.16
188.59	47.58
188.60	49.03
188.61	50.50
188.62	52.00
188.63	53.52
188.64	55.07
188.65	56.65
188.66	58.25
188.67	59.88
188.68	61.54
188.69	63.22
188.70	64.93
188.71	66.67
188.72	68.43
188.73	70.22
188.74	72.04
188.75	73.88
188.76	75.75
188.77	77.65
188.78	79.30
188.79	80.97
188.80	82.65
188.81	84.35
188.82	86.06
188.83	87.78
188.84	89.51
188.85	91.26
188.86	93.02
188.87	94.79
188.88	96.58
188.89	98.37
188.90	100.19
188.91	102.01
188.92	103.84
188.93	105.69
188.94	107.55
188.95	109.42
188.96	111.31
188.97	113.21
188.98	115.15
188.99	117.11
189.00	**119.08**

Stage-Area-Storage for Pond B-29: Basin #29

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
186.30	0	0
186.31	97	0
186.32	193	2
186.33	290	4
186.34	387	8
186.35	484	12
186.36	580	17
186.37	677	24
186.38	774	31
186.39	870	39
186.40	967	48
186.41	1,064	59
186.42	1,160	70
186.43	1,257	82
186.44	1,354	95
186.45	1,451	109
186.46	1,547	124
186.47	1,644	140
186.48	1,741	157
186.49	1,837	175
186.50	1,934	193
186.51	2,031	213
186.52	2,127	234
186.53	2,224	256
186.54	2,321	278
186.55	2,418	302
186.56	2,514	327
186.57	2,611	352
186.58	2,708	379
186.59	2,804	407
186.60	2,901	435
186.61	2,998	465
186.62	3,094	495
186.63	3,191	527
186.64	3,288	559
186.65	3,385	592
186.66	3,481	627
186.67	3,578	662
186.68	3,675	698
186.69	3,771	735
186.70	3,868	774
186.71	3,965	813
186.72	4,061	853
186.73	4,158	894
186.74	4,255	936
186.75	4,351	979
186.76	4,448	1,023
186.77	4,545	1,068
186.78	4,642	1,114
186.79	4,738	1,161
186.80	4,835	1,209
186.81	4,932	1,258
186.82	5,028	1,307
186.83	5,125	1,358
186.84	5,222	1,410
186.85	5,319	1,463
186.86	5,415	1,516
186.87	5,512	1,571
186.88	5,609	1,626
186.89	5,705	1,683
186.90	5,802	1,741
186.91	5,899	1,799
186.92	5,995	1,859
186.93	6,092	1,919
186.94	6,189	1,980
186.95	6,286	2,043
186.96	6,382	2,106
186.97	6,479	2,170
186.98	6,576	2,236
186.99	6,672	2,302
187.00	6,769	2,369
187.01	6,777	2,437
187.02	6,784	2,505
187.03	6,792	2,573
187.04	6,799	2,641
187.05	6,807	2,709
187.06	6,814	2,777
187.07	6,822	2,845
187.08	6,830	2,913
187.09	6,837	2,981
187.10	6,845	3,050
187.11	6,852	3,118
187.12	6,860	3,187
187.13	6,867	3,256
187.14	6,875	3,324
187.15	6,883	3,393
187.16	6,890	3,462
187.17	6,898	3,531
187.18	6,905	3,600
187.19	6,913	3,669
187.20	6,920	3,738
187.21	6,928	3,807
187.22	6,936	3,877
187.23	6,943	3,946
187.24	6,951	4,016
187.25	6,958	4,085
187.26	6,966	4,155
187.27	6,973	4,224
187.28	6,981	4,294
187.29	6,989	4,364
187.30	6,996	4,434
187.31	7,004	4,504
187.32	7,011	4,574
187.33	7,019	4,644

Stage-Area-Storage for Pond B-29: Basin #29 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
187.34	7,026	4,714
187.35	7,034	4,785
187.36	7,042	4,855
187.37	7,049	4,925
187.38	7,057	4,996
187.39	7,064	5,067
187.40	7,072	5,137
187.41	7,079	5,208
187.42	7,087	5,279
187.43	7,095	5,350
187.44	7,102	5,421
187.45	7,110	5,492
187.46	7,117	5,563
187.47	7,125	5,634
187.48	7,132	5,705
187.49	7,140	5,777
187.50	7,148	5,848
187.51	7,155	5,920
187.52	7,163	5,991
187.53	7,170	6,063
187.54	7,178	6,135
187.55	7,185	6,207
187.56	7,193	6,278
187.57	7,200	6,350
187.58	7,208	6,422
187.59	7,216	6,495
187.60	7,223	6,567
187.61	7,231	6,639
187.62	7,238	6,711
187.63	7,246	6,784
187.64	7,253	6,856
187.65	7,261	6,929
187.66	7,269	7,002
187.67	7,276	7,074
187.68	7,284	7,147
187.69	7,291	7,220
187.70	7,299	7,293
187.71	7,306	7,366
187.72	7,314	7,439
187.73	7,322	7,512
187.74	7,329	7,585
187.75	7,337	7,659
187.76	7,344	7,732
187.77	7,352	7,806
187.78	7,359	7,879
187.79	7,367	7,953
187.80	7,375	8,027
187.81	7,382	8,100
187.82	7,390	8,174
187.83	7,397	8,248
187.84	7,405	8,322
187.85	7,412	8,396
187.86	7,420	8,470
187.87	7,428	8,545
187.88	7,435	8,619
187.89	7,443	8,693
187.90	7,450	8,768
187.91	7,458	8,842
187.92	7,465	8,917
187.93	7,473	8,992
187.94	7,481	9,066
187.95	7,488	9,141
187.96	7,496	9,216
187.97	7,503	9,291
187.98	7,511	9,366
187.99	7,518	9,441
188.00	7,526	9,517
188.01	7,534	9,592
188.02	7,542	9,667
188.03	7,550	9,743
188.04	7,557	9,818
188.05	7,565	9,894
188.06	7,573	9,970
188.07	7,581	10,045
188.08	7,589	10,121
188.09	7,597	10,197
188.10	7,605	10,273
188.11	7,612	10,349
188.12	7,620	10,425
188.13	7,628	10,502
188.14	7,636	10,578
188.15	7,644	10,654
188.16	7,652	10,731
188.17	7,659	10,807
188.18	7,667	10,884
188.19	7,675	10,961
188.20	7,683	11,038
188.21	7,691	11,114
188.22	7,699	11,191
188.23	7,707	11,268
188.24	7,714	11,345
188.25	7,722	11,423
188.26	7,730	11,500
188.27	7,738	11,577
188.28	7,746	11,655
188.29	7,754	11,732
188.30	7,762	11,810
188.31	7,769	11,887
188.32	7,777	11,965
188.33	7,785	12,043
188.34	7,793	12,121
188.35	7,801	12,199
188.36	7,809	12,277
188.37	7,816	12,355

Stage-Area-Storage for Pond B-29: Basin #29 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
188.38	7,824	12,433
188.39	7,832	12,511
188.40	7,840	12,590
188.41	7,848	12,668
188.42	7,856	12,747
188.43	7,864	12,825
188.44	7,871	12,904
188.45	7,879	12,983
188.46	7,887	13,062
188.47	7,895	13,141
188.48	7,903	13,220
188.49	7,911	13,299
188.50	7,919	13,378
188.51	7,926	13,457
188.52	7,934	13,536
188.53	7,942	13,616
188.54	7,950	13,695
188.55	7,958	13,775
188.56	7,966	13,854
188.57	7,973	13,934
188.58	7,981	14,014
188.59	7,989	14,094
188.60	7,997	14,174
188.61	8,005	14,254
188.62	8,013	14,334
188.63	8,021	14,414
188.64	8,028	14,494
188.65	8,036	14,574
188.66	8,044	14,655
188.67	8,052	14,735
188.68	8,060	14,816
188.69	8,068	14,896
188.70	8,076	14,977
188.71	8,083	15,058
188.72	8,091	15,139
188.73	8,099	15,220
188.74	8,107	15,301
188.75	8,115	15,382
188.76	8,123	15,463
188.77	8,130	15,544
188.78	8,138	15,626
188.79	8,146	15,707
188.80	8,154	15,789
188.81	8,162	15,870
188.82	8,170	15,952
188.83	8,178	16,034
188.84	8,185	16,115
188.85	8,193	16,197
188.86	8,201	16,279
188.87	8,209	16,361
188.88	8,217	16,443
188.89	8,225	16,526
188.90	8,233	16,608
188.91	8,240	16,690
188.92	8,248	16,773
188.93	8,256	16,855
188.94	8,264	16,938
188.95	8,272	17,021
188.96	8,280	17,103
188.97	8,287	17,186
188.98	8,295	17,269
188.99	8,303	17,352
189.00	**8,311**	**17,435**

Summary for Pond B-30: Basin #30

Inflow Area = 5.727 ac, 37.05% Impervious, Inflow Depth > 6.32" for Current 100 yr event
Inflow = 32.03 cfs @ 12.20 hrs, Volume= 3.019 af
Outflow = 15.88 cfs @ 12.47 hrs, Volume= 2.590 af, Atten= 50%, Lag= 16.0 min
Primary = 15.88 cfs @ 12.47 hrs, Volume= 2.590 af
Routed to Link PDA-3 : Proposed Drainage Area #3

Routing by Stor-Ind method, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
Peak Elev= 179.35' @ 12.47 hrs Surf.Area= 15,575 sf Storage= 46,726 cf

Plug-Flow detention time= 239.7 min calculated for 2.586 af (86% of inflow)
Center-of-Mass det. time= 160.0 min (1,001.8 - 841.8)

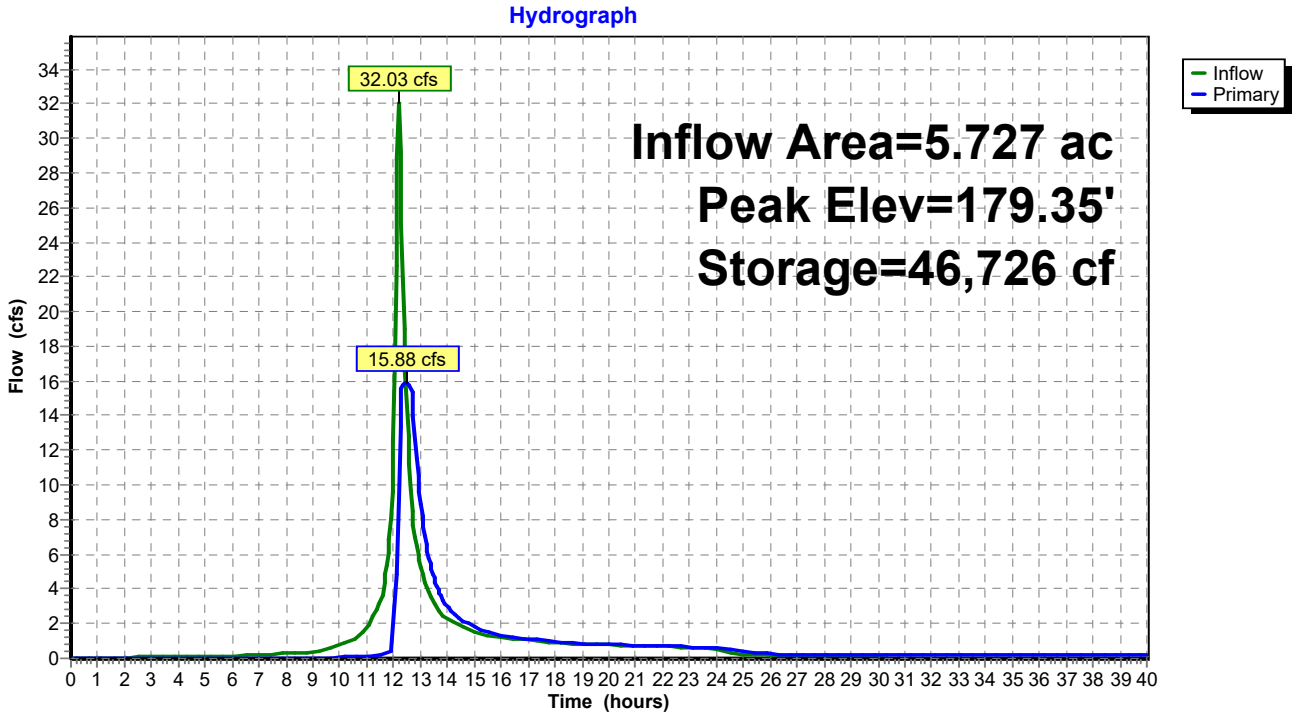
Volume	Invert	Avail.Storage	Storage Description
#1	175.30'	57,146 cf	**Custom Stage Data (Prismatic)** Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
175.30	0	0	0
176.00	10,254	3,589	3,589
177.00	11,773	11,014	14,602
178.00	13,346	12,560	27,162
179.00	14,978	14,162	41,324
180.00	16,667	15,823	57,146

Device	Routing	Invert	Outlet Devices
#1	Primary	174.65'	**18.0" Round Culvert** L= 86.0' Ke= 0.500 Inlet / Outlet Invert= 174.65' / 174.00' S= 0.0076 '/' Cc= 0.900 n= 0.013, Flow Area= 1.77 sf
#2	Device 1	175.93'	**2.5" Vert. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#3	Device 1	178.00'	**4.0' long Sharp-Crested Rectangular Weir** 2 End Contraction(s)
#4	Primary	179.50'	**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=15.88 cfs @ 12.47 hrs HW=179.35' (Free Discharge)
- **1=Culvert** (Barrel Controls 15.88 cfs @ 8.98 fps)
  - **2=Orifice/Grate** (Passes < 0.30 cfs potential flow)
  - **3=Sharp-Crested Rectangular Weir** (Passes < 19.14 cfs potential flow)
- **4=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)

Pond B-30: Basin #30



Stage-Discharge for Pond B-30: Basin #30

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
175.30	0.00	175.82	0.00	176.34	0.09	176.86	0.15
175.31	0.00	175.83	0.00	176.35	0.09	176.87	0.15
175.32	0.00	175.84	0.00	176.36	0.09	176.88	0.15
175.33	0.00	175.85	0.00	176.37	0.10	176.89	0.15
175.34	0.00	175.86	0.00	176.38	0.10	176.90	0.15
175.35	0.00	175.87	0.00	176.39	0.10	176.91	0.15
175.36	0.00	175.88	0.00	176.40	0.10	176.92	0.15
175.37	0.00	175.89	0.00	176.41	0.10	176.93	0.16
175.38	0.00	175.90	0.00	176.42	0.10	176.94	0.16
175.39	0.00	175.91	0.00	176.43	0.10	176.95	0.16
175.40	0.00	175.92	0.00	176.44	0.10	176.96	0.16
175.41	0.00	175.93	0.00	176.45	0.11	176.97	0.16
175.42	0.00	175.94	0.00	176.46	0.11	176.98	0.16
175.43	0.00	175.95	0.00	176.47	0.11	176.99	0.16
175.44	0.00	175.96	0.00	176.48	0.11	177.00	0.16
175.45	0.00	175.97	0.00	176.49	0.11	177.01	0.16
175.46	0.00	175.98	0.00	176.50	0.11	177.02	0.16
175.47	0.00	175.99	0.01	176.51	0.11	177.03	0.16
175.48	0.00	176.00	0.01	176.52	0.11	177.04	0.16
175.49	0.00	176.01	0.01	176.53	0.12	177.05	0.17
175.50	0.00	176.02	0.01	176.54	0.12	177.06	0.17
175.51	0.00	176.03	0.02	176.55	0.12	177.07	0.17
175.52	0.00	176.04	0.02	176.56	0.12	177.08	0.17
175.53	0.00	176.05	0.02	176.57	0.12	177.09	0.17
175.54	0.00	176.06	0.03	176.58	0.12	177.10	0.17
175.55	0.00	176.07	0.03	176.59	0.12	177.11	0.17
175.56	0.00	176.08	0.03	176.60	0.12	177.12	0.17
175.57	0.00	176.09	0.04	176.61	0.12	177.13	0.17
175.58	0.00	176.10	0.04	176.62	0.13	177.14	0.17
175.59	0.00	176.11	0.05	176.63	0.13	177.15	0.17
175.60	0.00	176.12	0.05	176.64	0.13	177.16	0.17
175.61	0.00	176.13	0.05	176.65	0.13	177.17	0.17
175.62	0.00	176.14	0.05	176.66	0.13	177.18	0.18
175.63	0.00	176.15	0.06	176.67	0.13	177.19	0.18
175.64	0.00	176.16	0.06	176.68	0.13	177.20	0.18
175.65	0.00	176.17	0.06	176.69	0.13	177.21	0.18
175.66	0.00	176.18	0.06	176.70	0.13	177.22	0.18
175.67	0.00	176.19	0.06	176.71	0.13	177.23	0.18
175.68	0.00	176.20	0.07	176.72	0.14	177.24	0.18
175.69	0.00	176.21	0.07	176.73	0.14	177.25	0.18
175.70	0.00	176.22	0.07	176.74	0.14	177.26	0.18
175.71	0.00	176.23	0.07	176.75	0.14	177.27	0.18
175.72	0.00	176.24	0.07	176.76	0.14	177.28	0.18
175.73	0.00	176.25	0.08	176.77	0.14	177.29	0.18
175.74	0.00	176.26	0.08	176.78	0.14	177.30	0.18
175.75	0.00	176.27	0.08	176.79	0.14	177.31	0.19
175.76	0.00	176.28	0.08	176.80	0.14	177.32	0.19
175.77	0.00	176.29	0.08	176.81	0.14	177.33	0.19
175.78	0.00	176.30	0.08	176.82	0.15	177.34	0.19
175.79	0.00	176.31	0.09	176.83	0.15	177.35	0.19
175.80	0.00	176.32	0.09	176.84	0.15	177.36	0.19
175.81	0.00	176.33	0.09	176.85	0.15	177.37	0.19

Stage-Discharge for Pond B-30: Basin #30 (continued)

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
177.38	0.19	177.90	0.22	178.42	3.74	178.94	11.64
177.39	0.19	177.91	0.22	178.43	3.86	178.95	11.82
177.40	0.19	177.92	0.23	178.44	3.99	178.96	11.99
177.41	0.19	177.93	0.23	178.45	4.11	178.97	12.17
177.42	0.19	177.94	0.23	178.46	4.24	178.98	12.35
177.43	0.19	177.95	0.23	178.47	4.37	178.99	12.53
177.44	0.19	177.96	0.23	178.48	4.50	179.00	12.71
177.45	0.20	177.97	0.23	178.49	4.63	179.01	12.89
177.46	0.20	177.98	0.23	178.50	4.77	179.02	13.07
177.47	0.20	177.99	0.23	178.51	4.90	179.03	13.25
177.48	0.20	178.00	0.23	178.52	5.04	179.04	13.44
177.49	0.20	178.01	0.24	178.53	5.17	179.05	13.62
177.50	0.20	178.02	0.27	178.54	5.31	179.06	13.80
177.51	0.20	178.03	0.30	178.55	5.45	179.07	13.99
177.52	0.20	178.04	0.34	178.56	5.59	179.08	14.17
177.53	0.20	178.05	0.38	178.57	5.73	179.09	14.36
177.54	0.20	178.06	0.43	178.58	5.87	179.10	14.55
177.55	0.20	178.07	0.48	178.59	6.02	179.11	14.74
177.56	0.20	178.08	0.53	178.60	6.16	179.12	14.92
177.57	0.20	178.09	0.59	178.61	6.31	179.13	15.11
177.58	0.20	178.10	0.65	178.62	6.45	179.14	15.30
177.59	0.20	178.11	0.71	178.63	6.60	179.15	15.46
177.60	0.21	178.12	0.78	178.64	6.75	179.16	15.48
177.61	0.21	178.13	0.85	178.65	6.90	179.17	15.50
177.62	0.21	178.14	0.92	178.66	7.05	179.18	15.52
177.63	0.21	178.15	0.99	178.67	7.20	179.19	15.54
177.64	0.21	178.16	1.07	178.68	7.35	179.20	15.56
177.65	0.21	178.17	1.15	178.69	7.51	179.21	15.58
177.66	0.21	178.18	1.23	178.70	7.66	179.22	15.60
177.67	0.21	178.19	1.31	178.71	7.82	179.23	15.62
177.68	0.21	178.20	1.40	178.72	7.97	179.24	15.65
177.69	0.21	178.21	1.49	178.73	8.13	179.25	15.67
177.70	0.21	178.22	1.58	178.74	8.29	179.26	15.69
177.71	0.21	178.23	1.67	178.75	8.45	179.27	15.71
177.72	0.21	178.24	1.76	178.76	8.61	179.28	15.73
177.73	0.21	178.25	1.86	178.77	8.77	179.29	15.75
177.74	0.21	178.26	1.96	178.78	8.93	179.30	15.77
177.75	0.22	178.27	2.06	178.79	9.09	179.31	15.79
177.76	0.22	178.28	2.16	178.80	9.26	179.32	15.81
177.77	0.22	178.29	2.26	178.81	9.42	179.33	15.83
177.78	0.22	178.30	2.36	178.82	9.59	179.34	15.85
177.79	0.22	178.31	2.47	178.83	9.75	179.35	15.87
177.80	0.22	178.32	2.58	178.84	9.92	179.36	15.89
177.81	0.22	178.33	2.69	178.85	10.09	179.37	15.91
177.82	0.22	178.34	2.80	178.86	10.26	179.38	15.94
177.83	0.22	178.35	2.91	178.87	10.43	179.39	15.96
177.84	0.22	178.36	3.02	178.88	10.60	179.40	15.98
177.85	0.22	178.37	3.14	178.89	10.77	179.41	16.00
177.86	0.22	178.38	3.26	178.90	10.94	179.42	16.02
177.87	0.22	178.39	3.38	178.91	11.12	179.43	16.04
177.88	0.22	178.40	3.50	178.92	11.29	179.44	16.06
177.89	0.22	178.41	3.62	178.93	11.46	179.45	16.08

Stage-Discharge for Pond B-30: Basin #30 (continued)

Elevation (feet)	Primary (cfs)
179.46	16.10
179.47	16.12
179.48	16.14
179.49	16.16
179.50	16.18
179.51	16.32
179.52	16.55
179.53	16.85
179.54	17.20
179.55	17.59
179.56	18.03
179.57	18.50
179.58	19.00
179.59	19.53
179.60	20.10
179.61	20.69
179.62	21.31
179.63	21.96
179.64	22.63
179.65	23.33
179.66	24.05
179.67	24.79
179.68	25.55
179.69	26.34
179.70	27.14
179.71	28.01
179.72	28.90
179.73	29.82
179.74	30.76
179.75	31.73
179.76	32.72
179.77	33.74
179.78	34.79
179.79	35.85
179.80	36.94
179.81	38.06
179.82	39.20
179.83	40.37
179.84	41.56
179.85	42.77
179.86	44.01
179.87	45.27
179.88	46.56
179.89	47.87
179.90	49.20
179.91	50.58
179.92	52.00
179.93	53.43
179.94	54.90
179.95	56.39
179.96	57.90
179.97	59.44
179.98	61.01
179.99	62.61
180.00	**64.23**

Stage-Area-Storage for Pond B-30: Basin #30

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
175.30	0	0	175.82	7,617	1,980
175.31	146	1	175.83	7,764	2,057
175.32	293	3	175.84	7,910	2,136
175.33	439	7	175.85	8,057	2,216
175.34	586	12	175.86	8,203	2,297
175.35	732	18	175.87	8,350	2,380
175.36	879	26	175.88	8,496	2,464
175.37	1,025	36	175.89	8,643	2,550
175.38	1,172	47	175.90	8,789	2,637
175.39	1,318	59	175.91	8,936	2,725
175.40	1,465	73	175.92	9,082	2,815
175.41	1,611	89	175.93	9,229	2,907
175.42	1,758	105	175.94	9,375	3,000
175.43	1,904	124	175.95	9,522	3,095
175.44	2,051	144	175.96	9,668	3,190
175.45	2,197	165	175.97	9,815	3,288
175.46	2,344	188	175.98	9,961	3,387
175.47	2,490	212	175.99	10,108	3,487
175.48	2,637	237	176.00	10,254	3,589
175.49	2,783	264	176.01	10,269	3,692
175.50	2,930	293	176.02	10,284	3,794
175.51	3,076	323	176.03	10,300	3,897
175.52	3,223	354	176.04	10,315	4,000
175.53	3,369	387	176.05	10,330	4,103
175.54	3,516	422	176.06	10,345	4,207
175.55	3,662	458	176.07	10,360	4,310
175.56	3,809	495	176.08	10,376	4,414
175.57	3,955	534	176.09	10,391	4,518
175.58	4,102	574	176.10	10,406	4,622
175.59	4,248	616	176.11	10,421	4,726
175.60	4,395	659	176.12	10,436	4,830
175.61	4,541	704	176.13	10,451	4,935
175.62	4,688	750	176.14	10,467	5,039
175.63	4,834	798	176.15	10,482	5,144
175.64	4,981	847	176.16	10,497	5,249
175.65	5,127	897	176.17	10,512	5,354
175.66	5,273	949	176.18	10,527	5,459
175.67	5,420	1,003	176.19	10,543	5,565
175.68	5,566	1,058	176.20	10,558	5,670
175.69	5,713	1,114	176.21	10,573	5,776
175.70	5,859	1,172	176.22	10,588	5,882
175.71	6,006	1,231	176.23	10,603	5,987
175.72	6,152	1,292	176.24	10,619	6,094
175.73	6,299	1,354	176.25	10,634	6,200
175.74	6,445	1,418	176.26	10,649	6,306
175.75	6,592	1,483	176.27	10,664	6,413
175.76	6,738	1,550	176.28	10,679	6,520
175.77	6,885	1,618	176.29	10,695	6,626
175.78	7,031	1,688	176.30	10,710	6,733
175.79	7,178	1,759	176.31	10,725	6,841
175.80	7,324	1,831	176.32	10,740	6,948
175.81	7,471	1,905	176.33	10,755	7,055

Stage-Area-Storage for Pond B-30: Basin #30 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
176.34	10,770	7,163	176.86	11,560	12,969
176.35	10,786	7,271	176.87	11,576	13,085
176.36	10,801	7,379	176.88	11,591	13,201
176.37	10,816	7,487	176.89	11,606	13,317
176.38	10,831	7,595	176.90	11,621	13,433
176.39	10,846	7,703	176.91	11,636	13,549
176.40	10,862	7,812	176.92	11,651	13,665
176.41	10,877	7,921	176.93	11,667	13,782
176.42	10,892	8,030	176.94	11,682	13,899
176.43	10,907	8,139	176.95	11,697	14,016
176.44	10,922	8,248	176.96	11,712	14,133
176.45	10,938	8,357	176.97	11,727	14,250
176.46	10,953	8,466	176.98	11,743	14,367
176.47	10,968	8,576	176.99	11,758	14,485
176.48	10,983	8,686	177.00	11,773	14,602
176.49	10,998	8,796	177.01	11,789	14,720
176.50	11,014	8,906	177.02	11,804	14,838
176.51	11,029	9,016	177.03	11,820	14,956
176.52	11,044	9,126	177.04	11,836	15,075
176.53	11,059	9,237	177.05	11,852	15,193
176.54	11,074	9,348	177.06	11,867	15,312
176.55	11,089	9,458	177.07	11,883	15,430
176.56	11,105	9,569	177.08	11,899	15,549
176.57	11,120	9,680	177.09	11,915	15,668
176.58	11,135	9,792	177.10	11,930	15,788
176.59	11,150	9,903	177.11	11,946	15,907
176.60	11,165	10,015	177.12	11,962	16,026
176.61	11,181	10,126	177.13	11,977	16,146
176.62	11,196	10,238	177.14	11,993	16,266
176.63	11,211	10,350	177.15	12,009	16,386
176.64	11,226	10,463	177.16	12,025	16,506
176.65	11,241	10,575	177.17	12,040	16,627
176.66	11,257	10,687	177.18	12,056	16,747
176.67	11,272	10,800	177.19	12,072	16,868
176.68	11,287	10,913	177.20	12,088	16,988
176.69	11,302	11,026	177.21	12,103	17,109
176.70	11,317	11,139	177.22	12,119	17,231
176.71	11,332	11,252	177.23	12,135	17,352
176.72	11,348	11,366	177.24	12,151	17,473
176.73	11,363	11,479	177.25	12,166	17,595
176.74	11,378	11,593	177.26	12,182	17,717
176.75	11,393	11,707	177.27	12,198	17,838
176.76	11,408	11,821	177.28	12,213	17,961
176.77	11,424	11,935	177.29	12,229	18,083
176.78	11,439	12,049	177.30	12,245	18,205
176.79	11,454	12,164	177.31	12,261	18,328
176.80	11,469	12,278	177.32	12,276	18,450
176.81	11,484	12,393	177.33	12,292	18,573
176.82	11,500	12,508	177.34	12,308	18,696
176.83	11,515	12,623	177.35	12,324	18,819
176.84	11,530	12,738	177.36	12,339	18,943
176.85	11,545	12,854	177.37	12,355	19,066

Stage-Area-Storage for Pond B-30: Basin #30 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
177.38	12,371	19,190	177.90	13,189	25,835
177.39	12,386	19,313	177.91	13,204	25,967
177.40	12,402	19,437	177.92	13,220	26,099
177.41	12,418	19,562	177.93	13,236	26,232
177.42	12,434	19,686	177.94	13,252	26,364
177.43	12,449	19,810	177.95	13,267	26,497
177.44	12,465	19,935	177.96	13,283	26,629
177.45	12,481	20,060	177.97	13,299	26,762
177.46	12,497	20,184	177.98	13,315	26,895
177.47	12,512	20,309	177.99	13,330	27,029
177.48	12,528	20,435	178.00	13,346	27,162
177.49	12,544	20,560	178.01	13,362	27,295
177.50	12,560	20,686	178.02	13,379	27,429
177.51	12,575	20,811	178.03	13,395	27,563
177.52	12,591	20,937	178.04	13,411	27,697
177.53	12,607	21,063	178.05	13,428	27,831
177.54	12,622	21,189	178.06	13,444	27,966
177.55	12,638	21,315	178.07	13,460	28,100
177.56	12,654	21,442	178.08	13,477	28,235
177.57	12,670	21,569	178.09	13,493	28,370
177.58	12,685	21,695	178.10	13,509	28,505
177.59	12,701	21,822	178.11	13,526	28,640
177.60	12,717	21,949	178.12	13,542	28,775
177.61	12,733	22,077	178.13	13,558	28,911
177.62	12,748	22,204	178.14	13,574	29,046
177.63	12,764	22,332	178.15	13,591	29,182
177.64	12,780	22,459	178.16	13,607	29,318
177.65	12,795	22,587	178.17	13,623	29,454
177.66	12,811	22,715	178.18	13,640	29,591
177.67	12,827	22,843	178.19	13,656	29,727
177.68	12,843	22,972	178.20	13,672	29,864
177.69	12,858	23,100	178.21	13,689	30,001
177.70	12,874	23,229	178.22	13,705	30,138
177.71	12,890	23,358	178.23	13,721	30,275
177.72	12,906	23,487	178.24	13,738	30,412
177.73	12,921	23,616	178.25	13,754	30,549
177.74	12,937	23,745	178.26	13,770	30,687
177.75	12,953	23,875	178.27	13,787	30,825
177.76	12,968	24,004	178.28	13,803	30,963
177.77	12,984	24,134	178.29	13,819	31,101
177.78	13,000	24,264	178.30	13,836	31,239
177.79	13,016	24,394	178.31	13,852	31,378
177.80	13,031	24,524	178.32	13,868	31,516
177.81	13,047	24,655	178.33	13,885	31,655
177.82	13,063	24,785	178.34	13,901	31,794
177.83	13,079	24,916	178.35	13,917	31,933
177.84	13,094	25,047	178.36	13,934	32,072
177.85	13,110	25,178	178.37	13,950	32,212
177.86	13,126	25,309	178.38	13,966	32,351
177.87	13,142	25,440	178.39	13,982	32,491
177.88	13,157	25,572	178.40	13,999	32,631
177.89	13,173	25,703	178.41	14,015	32,771

Stage-Area-Storage for Pond B-30: Basin #30 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
178.42	14,031	32,911
178.43	14,048	33,052
178.44	14,064	33,192
178.45	14,080	33,333
178.46	14,097	33,474
178.47	14,113	33,615
178.48	14,129	33,756
178.49	14,146	33,897
178.50	14,162	34,039
178.51	14,178	34,181
178.52	14,195	34,322
178.53	14,211	34,464
178.54	14,227	34,607
178.55	14,244	34,749
178.56	14,260	34,892
178.57	14,276	35,034
178.58	14,293	35,177
178.59	14,309	35,320
178.60	14,325	35,463
178.61	14,342	35,607
178.62	14,358	35,750
178.63	14,374	35,894
178.64	14,390	36,038
178.65	14,407	36,182
178.66	14,423	36,326
178.67	14,439	36,470
178.68	14,456	36,614
178.69	14,472	36,759
178.70	14,488	36,904
178.71	14,505	37,049
178.72	14,521	37,194
178.73	14,537	37,339
178.74	14,554	37,485
178.75	14,570	37,630
178.76	14,586	37,776
178.77	14,603	37,922
178.78	14,619	38,068
178.79	14,635	38,215
178.80	14,652	38,361
178.81	14,668	38,508
178.82	14,684	38,654
178.83	14,701	38,801
178.84	14,717	38,948
178.85	14,733	39,096
178.86	14,750	39,243
178.87	14,766	39,391
178.88	14,782	39,538
178.89	14,798	39,686
178.90	14,815	39,834
178.91	14,831	39,982
178.92	14,847	40,131
178.93	14,864	40,279
178.94	14,880	40,428
178.95	14,896	40,577
178.96	14,913	40,726
178.97	14,929	40,875
178.98	14,945	41,025
178.99	14,962	41,174
179.00	14,978	41,324
179.01	14,995	41,474
179.02	15,012	41,624
179.03	15,029	41,774
179.04	15,046	41,924
179.05	15,062	42,075
179.06	15,079	42,226
179.07	15,096	42,376
179.08	15,113	42,528
179.09	15,130	42,679
179.10	15,147	42,830
179.11	15,164	42,982
179.12	15,181	43,133
179.13	15,198	43,285
179.14	15,214	43,437
179.15	15,231	43,590
179.16	15,248	43,742
179.17	15,265	43,895
179.18	15,282	44,047
179.19	15,299	44,200
179.20	15,316	44,353
179.21	15,333	44,507
179.22	15,350	44,660
179.23	15,366	44,814
179.24	15,383	44,967
179.25	15,400	45,121
179.26	15,417	45,275
179.27	15,434	45,430
179.28	15,451	45,584
179.29	15,468	45,739
179.30	15,485	45,893
179.31	15,502	46,048
179.32	15,518	46,203
179.33	15,535	46,359
179.34	15,552	46,514
179.35	15,569	46,670
179.36	15,586	46,825
179.37	15,603	46,981
179.38	15,620	47,137
179.39	15,637	47,294
179.40	15,654	47,450
179.41	15,670	47,607
179.42	15,687	47,764
179.43	15,704	47,921
179.44	15,721	48,078
179.45	15,738	48,235

Stage-Area-Storage for Pond B-30: Basin #30 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
179.46	15,755	48,392
179.47	15,772	48,550
179.48	15,789	48,708
179.49	15,806	48,866
179.50	15,823	49,024
179.51	15,839	49,182
179.52	15,856	49,341
179.53	15,873	49,499
179.54	15,890	49,658
179.55	15,907	49,817
179.56	15,924	49,976
179.57	15,941	50,136
179.58	15,958	50,295
179.59	15,975	50,455
179.60	15,991	50,615
179.61	16,008	50,775
179.62	16,025	50,935
179.63	16,042	51,095
179.64	16,059	51,256
179.65	16,076	51,416
179.66	16,093	51,577
179.67	16,110	51,738
179.68	16,127	51,899
179.69	16,143	52,061
179.70	16,160	52,222
179.71	16,177	52,384
179.72	16,194	52,546
179.73	16,211	52,708
179.74	16,228	52,870
179.75	16,245	53,032
179.76	16,262	53,195
179.77	16,279	53,358
179.78	16,295	53,521
179.79	16,312	53,684
179.80	16,329	53,847
179.81	16,346	54,010
179.82	16,363	54,174
179.83	16,380	54,337
179.84	16,397	54,501
179.85	16,414	54,665
179.86	16,431	54,830
179.87	16,447	54,994
179.88	16,464	55,159
179.89	16,481	55,323
179.90	16,498	55,488
179.91	16,515	55,653
179.92	16,532	55,818
179.93	16,549	55,984
179.94	16,566	56,149
179.95	16,583	56,315
179.96	16,599	56,481
179.97	16,616	56,647
179.98	16,633	56,813
179.99	16,650	56,980
180.00	**16,667**	**57,146**

Summary for Pond B-31: Basin #31

Inflow Area = 0.923 ac, 77.68% Impervious, Inflow Depth = 7.70" for Current 100 yr event
Inflow = 6.86 cfs @ 12.17 hrs, Volume= 0.593 af
Outflow = 6.60 cfs @ 12.21 hrs, Volume= 0.577 af, Atten= 4%, Lag= 2.6 min
Primary = 6.60 cfs @ 12.21 hrs, Volume= 0.577 af
Routed to Pond B-30 : Basin #30

Routing by Stor-Ind method, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
Peak Elev= 195.55' @ 12.21 hrs Surf.Area= 3,647 sf Storage= 7,727 cf

Plug-Flow detention time= 201.3 min calculated for 0.577 af (97% of inflow)
Center-of-Mass det. time= 185.6 min (942.2 - 756.6)

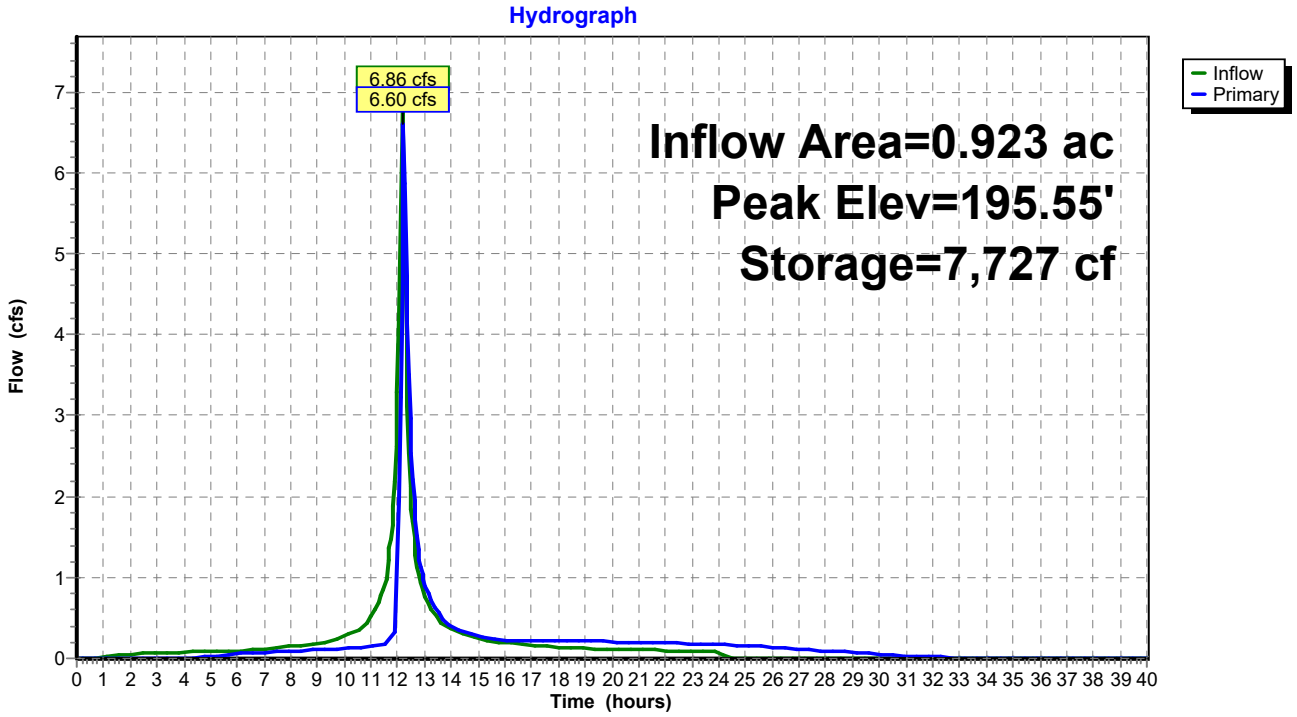
Volume	Invert	Avail.Storage	Storage Description
#1	192.30'	9,453 cf	**Custom Stage Data (Prismatic)** Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
192.30	0	0	0
193.00	1,944	680	680
194.00	2,566	2,255	2,935
195.00	3,245	2,906	5,841
196.00	3,980	3,613	9,453

Device	Routing	Invert	Outlet Devices
#1	Primary	191.65'	**18.0" Round Culvert** L= 126.0' Ke= 0.500 Inlet / Outlet Invert= 191.65' / 188.00' S= 0.0290 '/' Cc= 0.900 n= 0.013, Flow Area= 1.77 sf
#2	Device 1	192.97'	**2.5" Vert. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#3	Device 1	195.00'	**4.0' long Sharp-Crested Rectangular Weir** 2 End Contraction(s)
#4	Primary	195.50'	**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=6.29 cfs @ 12.21 hrs HW=195.54' (Free Discharge)
- **1=Culvert** (Passes 5.32 cfs of 15.08 cfs potential flow)
  - **2=Orifice/Grate** (Orifice Controls 0.26 cfs @ 7.56 fps)
  - **3=Sharp-Crested Rectangular Weir** (Weir Controls 5.06 cfs @ 2.40 fps)
- **4=Broad-Crested Rectangular Weir** (Weir Controls 0.97 cfs @ 0.47 fps)

Pond B-31: Basin #31



Stage-Discharge for Pond B-31: Basin #31

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
192.30	0.00	192.82	0.00	193.34	0.08	193.86	0.15
192.31	0.00	192.83	0.00	193.35	0.09	193.87	0.15
192.32	0.00	192.84	0.00	193.36	0.09	193.88	0.15
192.33	0.00	192.85	0.00	193.37	0.09	193.89	0.15
192.34	0.00	192.86	0.00	193.38	0.09	193.90	0.15
192.35	0.00	192.87	0.00	193.39	0.09	193.91	0.15
192.36	0.00	192.88	0.00	193.40	0.09	193.92	0.15
192.37	0.00	192.89	0.00	193.41	0.10	193.93	0.15
192.38	0.00	192.90	0.00	193.42	0.10	193.94	0.15
192.39	0.00	192.91	0.00	193.43	0.10	193.95	0.15
192.40	0.00	192.92	0.00	193.44	0.10	193.96	0.15
192.41	0.00	192.93	0.00	193.45	0.10	193.97	0.16
192.42	0.00	192.94	0.00	193.46	0.10	193.98	0.16
192.43	0.00	192.95	0.00	193.47	0.10	193.99	0.16
192.44	0.00	192.96	0.00	193.48	0.10	194.00	0.16
192.45	0.00	192.97	0.00	193.49	0.11	194.01	0.16
192.46	0.00	192.98	0.00	193.50	0.11	194.02	0.16
192.47	0.00	192.99	0.00	193.51	0.11	194.03	0.16
192.48	0.00	193.00	0.00	193.52	0.11	194.04	0.16
192.49	0.00	193.01	0.00	193.53	0.11	194.05	0.16
192.50	0.00	193.02	0.00	193.54	0.11	194.06	0.16
192.51	0.00	193.03	0.01	193.55	0.11	194.07	0.16
192.52	0.00	193.04	0.01	193.56	0.11	194.08	0.16
192.53	0.00	193.05	0.01	193.57	0.12	194.09	0.17
192.54	0.00	193.06	0.01	193.58	0.12	194.10	0.17
192.55	0.00	193.07	0.02	193.59	0.12	194.11	0.17
192.56	0.00	193.08	0.02	193.60	0.12	194.12	0.17
192.57	0.00	193.09	0.02	193.61	0.12	194.13	0.17
192.58	0.00	193.10	0.03	193.62	0.12	194.14	0.17
192.59	0.00	193.11	0.03	193.63	0.12	194.15	0.17
192.60	0.00	193.12	0.03	193.64	0.12	194.16	0.17
192.61	0.00	193.13	0.04	193.65	0.12	194.17	0.17
192.62	0.00	193.14	0.04	193.66	0.13	194.18	0.17
192.63	0.00	193.15	0.05	193.67	0.13	194.19	0.17
192.64	0.00	193.16	0.05	193.68	0.13	194.20	0.17
192.65	0.00	193.17	0.05	193.69	0.13	194.21	0.17
192.66	0.00	193.18	0.05	193.70	0.13	194.22	0.18
192.67	0.00	193.19	0.06	193.71	0.13	194.23	0.18
192.68	0.00	193.20	0.06	193.72	0.13	194.24	0.18
192.69	0.00	193.21	0.06	193.73	0.13	194.25	0.18
192.70	0.00	193.22	0.06	193.74	0.13	194.26	0.18
192.71	0.00	193.23	0.06	193.75	0.13	194.27	0.18
192.72	0.00	193.24	0.07	193.76	0.14	194.28	0.18
192.73	0.00	193.25	0.07	193.77	0.14	194.29	0.18
192.74	0.00	193.26	0.07	193.78	0.14	194.30	0.18
192.75	0.00	193.27	0.07	193.79	0.14	194.31	0.18
192.76	0.00	193.28	0.07	193.80	0.14	194.32	0.18
192.77	0.00	193.29	0.08	193.81	0.14	194.33	0.18
192.78	0.00	193.30	0.08	193.82	0.14	194.34	0.18
192.79	0.00	193.31	0.08	193.83	0.14	194.35	0.19
192.80	0.00	193.32	0.08	193.84	0.14	194.36	0.19
192.81	0.00	193.33	0.08	193.85	0.14	194.37	0.19

Stage-Discharge for Pond B-31: Basin #31 (continued)

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
194.38	0.19	194.90	0.22	195.42	3.74	195.94	49.49
194.39	0.19	194.91	0.22	195.43	3.86	195.95	51.13
194.40	0.19	194.92	0.22	195.44	3.99	195.96	52.81
194.41	0.19	194.93	0.22	195.45	4.11	195.97	54.51
194.42	0.19	194.94	0.22	195.46	4.24	195.98	56.24
194.43	0.19	194.95	0.22	195.47	4.37	195.99	57.99
194.44	0.19	194.96	0.23	195.48	4.50	196.00	**59.77**
194.45	0.19	194.97	0.23	195.49	4.63		
194.46	0.19	194.98	0.23	195.50	4.76		
194.47	0.19	194.99	0.23	195.51	5.02		
194.48	0.19	195.00	0.23	195.52	5.37		
194.49	0.20	195.01	0.24	195.53	5.78		
194.50	0.20	195.02	0.27	195.54	6.25		
194.51	0.20	195.03	0.30	195.55	6.76		
194.52	0.20	195.04	0.33	195.56	7.31		
194.53	0.20	195.05	0.38	195.57	7.90		
194.54	0.20	195.06	0.42	195.58	8.53		
194.55	0.20	195.07	0.47	195.59	9.19		
194.56	0.20	195.08	0.53	195.60	9.88		
194.57	0.20	195.09	0.58	195.61	10.59		
194.58	0.20	195.10	0.65	195.62	11.34		
194.59	0.20	195.11	0.71	195.63	12.12		
194.60	0.20	195.12	0.78	195.64	12.92		
194.61	0.20	195.13	0.84	195.65	13.74		
194.62	0.20	195.14	0.92	195.66	14.59		
194.63	0.20	195.15	0.99	195.67	15.47		
194.64	0.21	195.16	1.07	195.68	16.36		
194.65	0.21	195.17	1.15	195.69	17.28		
194.66	0.21	195.18	1.23	195.70	18.22		
194.67	0.21	195.19	1.31	195.71	19.23		
194.68	0.21	195.20	1.40	195.72	20.25		
194.69	0.21	195.21	1.49	195.73	21.31		
194.70	0.21	195.22	1.58	195.74	22.39		
194.71	0.21	195.23	1.67	195.75	23.50		
194.72	0.21	195.24	1.76	195.76	24.63		
194.73	0.21	195.25	1.86	195.77	25.79		
194.74	0.21	195.26	1.95	195.78	26.98		
194.75	0.21	195.27	2.05	195.79	28.19		
194.76	0.21	195.28	2.15	195.80	29.42		
194.77	0.21	195.29	2.26	195.81	30.69		
194.78	0.21	195.30	2.36	195.82	31.97		
194.79	0.22	195.31	2.47	195.83	33.29		
194.80	0.22	195.32	2.58	195.84	34.62		
194.81	0.22	195.33	2.69	195.85	35.98		
194.82	0.22	195.34	2.80	195.86	37.37		
194.83	0.22	195.35	2.91	195.87	38.78		
194.84	0.22	195.36	3.02	195.88	40.22		
194.85	0.22	195.37	3.14	195.89	41.68		
194.86	0.22	195.38	3.25	195.90	43.17		
194.87	0.22	195.39	3.37	195.91	44.71		
194.88	0.22	195.40	3.49	195.92	46.28		
194.89	0.22	195.41	3.61	195.93	47.87		

Stage-Area-Storage for Pond B-31: Basin #31

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
192.30	0	0	192.82	1,444	375
192.31	28	0	192.83	1,472	390
192.32	56	1	192.84	1,500	405
192.33	83	1	192.85	1,527	420
192.34	111	2	192.86	1,555	435
192.35	139	3	192.87	1,583	451
192.36	167	5	192.88	1,611	467
192.37	194	7	192.89	1,639	483
192.38	222	9	192.90	1,666	500
192.39	250	11	192.91	1,694	517
192.40	278	14	192.92	1,722	534
192.41	305	17	192.93	1,750	551
192.42	333	20	192.94	1,777	569
192.43	361	23	192.95	1,805	587
192.44	389	27	192.96	1,833	605
192.45	417	31	192.97	1,861	623
192.46	444	36	192.98	1,888	642
192.47	472	40	192.99	1,916	661
192.48	500	45	193.00	1,944	680
192.49	528	50	193.01	1,950	700
192.50	555	56	193.02	1,956	719
192.51	583	61	193.03	1,963	739
192.52	611	67	193.04	1,969	759
192.53	639	73	193.05	1,975	778
192.54	667	80	193.06	1,981	798
192.55	694	87	193.07	1,988	818
192.56	722	94	193.08	1,994	838
192.57	750	101	193.09	2,000	858
192.58	778	109	193.10	2,006	878
192.59	805	117	193.11	2,012	898
192.60	833	125	193.12	2,019	918
192.61	861	133	193.13	2,025	938
192.62	889	142	193.14	2,031	959
192.63	916	151	193.15	2,037	979
192.64	944	161	193.16	2,044	999
192.65	972	170	193.17	2,050	1,020
192.66	1,000	180	193.18	2,056	1,040
192.67	1,028	190	193.19	2,062	1,061
192.68	1,055	201	193.20	2,068	1,082
192.69	1,083	211	193.21	2,075	1,102
192.70	1,111	222	193.22	2,081	1,123
192.71	1,139	233	193.23	2,087	1,144
192.72	1,166	245	193.24	2,093	1,165
192.73	1,194	257	193.25	2,100	1,186
192.74	1,222	269	193.26	2,106	1,207
192.75	1,250	281	193.27	2,112	1,228
192.76	1,277	294	193.28	2,118	1,249
192.77	1,305	307	193.29	2,124	1,270
192.78	1,333	320	193.30	2,131	1,292
192.79	1,361	333	193.31	2,137	1,313
192.80	1,389	347	193.32	2,143	1,334
192.81	1,416	361	193.33	2,149	1,356

Stage-Area-Storage for Pond B-31: Basin #31 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
193.34	2,155	1,377	193.86	2,479	2,582
193.35	2,162	1,399	193.87	2,485	2,607
193.36	2,168	1,421	193.88	2,491	2,632
193.37	2,174	1,442	193.89	2,498	2,657
193.38	2,180	1,464	193.90	2,504	2,682
193.39	2,187	1,486	193.91	2,510	2,707
193.40	2,193	1,508	193.92	2,516	2,732
193.41	2,199	1,530	193.93	2,522	2,757
193.42	2,205	1,552	193.94	2,529	2,783
193.43	2,211	1,574	193.95	2,535	2,808
193.44	2,218	1,596	193.96	2,541	2,833
193.45	2,224	1,618	193.97	2,547	2,859
193.46	2,230	1,640	193.98	2,554	2,884
193.47	2,236	1,663	193.99	2,560	2,910
193.48	2,243	1,685	194.00	2,566	2,935
193.49	2,249	1,708	194.01	2,573	2,961
193.50	2,255	1,730	194.02	2,580	2,987
193.51	2,261	1,753	194.03	2,586	3,013
193.52	2,267	1,775	194.04	2,593	3,039
193.53	2,274	1,798	194.05	2,600	3,065
193.54	2,280	1,821	194.06	2,607	3,091
193.55	2,286	1,844	194.07	2,614	3,117
193.56	2,292	1,867	194.08	2,620	3,143
193.57	2,299	1,890	194.09	2,627	3,169
193.58	2,305	1,913	194.10	2,634	3,195
193.59	2,311	1,936	194.11	2,641	3,222
193.60	2,317	1,959	194.12	2,647	3,248
193.61	2,323	1,982	194.13	2,654	3,275
193.62	2,330	2,005	194.14	2,661	3,301
193.63	2,336	2,029	194.15	2,668	3,328
193.64	2,342	2,052	194.16	2,675	3,355
193.65	2,348	2,075	194.17	2,681	3,381
193.66	2,355	2,099	194.18	2,688	3,408
193.67	2,361	2,122	194.19	2,695	3,435
193.68	2,367	2,146	194.20	2,702	3,462
193.69	2,373	2,170	194.21	2,709	3,489
193.70	2,379	2,194	194.22	2,715	3,516
193.71	2,386	2,217	194.23	2,722	3,544
193.72	2,392	2,241	194.24	2,729	3,571
193.73	2,398	2,265	194.25	2,736	3,598
193.74	2,404	2,289	194.26	2,743	3,626
193.75	2,411	2,313	194.27	2,749	3,653
193.76	2,417	2,337	194.28	2,756	3,680
193.77	2,423	2,362	194.29	2,763	3,708
193.78	2,429	2,386	194.30	2,770	3,736
193.79	2,435	2,410	194.31	2,776	3,763
193.80	2,442	2,435	194.32	2,783	3,791
193.81	2,448	2,459	194.33	2,790	3,819
193.82	2,454	2,484	194.34	2,797	3,847
193.83	2,460	2,508	194.35	2,804	3,875
193.84	2,466	2,533	194.36	2,810	3,903
193.85	2,473	2,557	194.37	2,817	3,931

Stage-Area-Storage for Pond B-31: Basin #31 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
194.38	2,824	3,960
194.39	2,831	3,988
194.40	2,838	4,016
194.41	2,844	4,045
194.42	2,851	4,073
194.43	2,858	4,102
194.44	2,865	4,130
194.45	2,872	4,159
194.46	2,878	4,188
194.47	2,885	4,216
194.48	2,892	4,245
194.49	2,899	4,274
194.50	2,906	4,303
194.51	2,912	4,332
194.52	2,919	4,362
194.53	2,926	4,391
194.54	2,933	4,420
194.55	2,939	4,449
194.56	2,946	4,479
194.57	2,953	4,508
194.58	2,960	4,538
194.59	2,967	4,568
194.60	2,973	4,597
194.61	2,980	4,627
194.62	2,987	4,657
194.63	2,994	4,687
194.64	3,001	4,717
194.65	3,007	4,747
194.66	3,014	4,777
194.67	3,021	4,807
194.68	3,028	4,837
194.69	3,035	4,868
194.70	3,041	4,898
194.71	3,048	4,928
194.72	3,055	4,959
194.73	3,062	4,989
194.74	3,068	5,020
194.75	3,075	5,051
194.76	3,082	5,082
194.77	3,089	5,113
194.78	3,096	5,143
194.79	3,102	5,174
194.80	3,109	5,205
194.81	3,116	5,237
194.82	3,123	5,268
194.83	3,130	5,299
194.84	3,136	5,330
194.85	3,143	5,362
194.86	3,150	5,393
194.87	3,157	5,425
194.88	3,164	5,456
194.89	3,170	5,488
194.90	3,177	5,520
194.91	3,184	5,552
194.92	3,191	5,583
194.93	3,197	5,615
194.94	3,204	5,647
194.95	3,211	5,679
194.96	3,218	5,712
194.97	3,225	5,744
194.98	3,231	5,776
194.99	3,238	5,808
195.00	3,245	5,841
195.01	3,252	5,873
195.02	3,260	5,906
195.03	3,267	5,939
195.04	3,274	5,971
195.05	3,282	6,004
195.06	3,289	6,037
195.07	3,296	6,070
195.08	3,304	6,103
195.09	3,311	6,136
195.10	3,319	6,169
195.11	3,326	6,202
195.12	3,333	6,236
195.13	3,341	6,269
195.14	3,348	6,302
195.15	3,355	6,336
195.16	3,363	6,370
195.17	3,370	6,403
195.18	3,377	6,437
195.19	3,385	6,471
195.20	3,392	6,505
195.21	3,399	6,539
195.22	3,407	6,573
195.23	3,414	6,607
195.24	3,421	6,641
195.25	3,429	6,675
195.26	3,436	6,709
195.27	3,443	6,744
195.28	3,451	6,778
195.29	3,458	6,813
195.30	3,466	6,847
195.31	3,473	6,882
195.32	3,480	6,917
195.33	3,488	6,952
195.34	3,495	6,987
195.35	3,502	7,022
195.36	3,510	7,057
195.37	3,517	7,092
195.38	3,524	7,127
195.39	3,532	7,162
195.40	3,539	7,198
195.41	3,546	7,233

Stage-Area-Storage for Pond B-31: Basin #31 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
195.42	3,554	7,269
195.43	3,561	7,304
195.44	3,568	7,340
195.45	3,576	7,376
195.46	3,583	7,411
195.47	3,590	7,447
195.48	3,598	7,483
195.49	3,605	7,519
195.50	3,613	7,555
195.51	3,620	7,591
195.52	3,627	7,628
195.53	3,635	7,664
195.54	3,642	7,700
195.55	3,649	7,737
195.56	3,657	7,773
195.57	3,664	7,810
195.58	3,671	7,847
195.59	3,679	7,883
195.60	3,686	7,920
195.61	3,693	7,957
195.62	3,701	7,994
195.63	3,708	8,031
195.64	3,715	8,068
195.65	3,723	8,105
195.66	3,730	8,143
195.67	3,737	8,180
195.68	3,745	8,217
195.69	3,752	8,255
195.70	3,760	8,292
195.71	3,767	8,330
195.72	3,774	8,368
195.73	3,782	8,406
195.74	3,789	8,443
195.75	3,796	8,481
195.76	3,804	8,519
195.77	3,811	8,557
195.78	3,818	8,596
195.79	3,826	8,634
195.80	3,833	8,672
195.81	3,840	8,710
195.82	3,848	8,749
195.83	3,855	8,787
195.84	3,862	8,826
195.85	3,870	8,865
195.86	3,877	8,903
195.87	3,884	8,942
195.88	3,892	8,981
195.89	3,899	9,020
195.90	3,907	9,059
195.91	3,914	9,098
195.92	3,921	9,137
195.93	3,929	9,177
195.94	3,936	9,216
195.95	3,943	9,255
195.96	3,951	9,295
195.97	3,958	9,334
195.98	3,965	9,374
195.99	3,973	9,414
196.00	**3,980**	**9,453**

Summary for Pond B-32: Basin #32

Inflow Area = 1.346 ac, 28.68% Impervious, Inflow Depth = 6.29" for Current 100 yr event
Inflow = 8.77 cfs @ 12.17 hrs, Volume= 0.705 af
Outflow = 6.18 cfs @ 12.27 hrs, Volume= 0.666 af, Atten= 30%, Lag= 6.0 min
Primary = 6.18 cfs @ 12.27 hrs, Volume= 0.666 af
Routed to Pond B-30 : Basin #30

Routing by Stor-Ind method, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
Peak Elev= 196.55' @ 12.27 hrs Surf.Area= 3,997 sf Storage= 5,274 cf

Plug-Flow detention time= 69.6 min calculated for 0.666 af (94% of inflow)
Center-of-Mass det. time= 37.5 min (828.8 - 791.4)

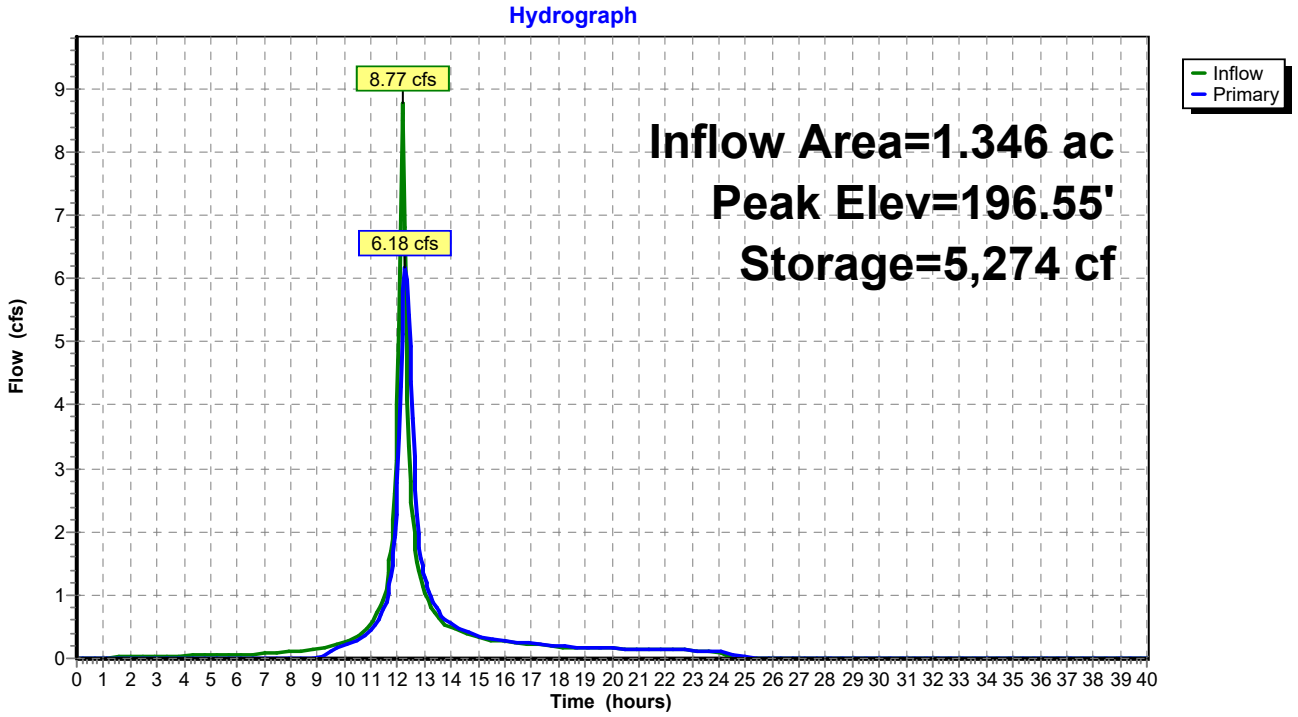
Volume	Invert	Avail.Storage	Storage Description
#1	195.00'	11,936 cf	**Custom Stage Data (Prismatic)** Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
195.00	2,830	0	0
196.00	3,569	3,200	3,200
197.00	4,349	3,959	7,159
198.00	5,206	4,778	11,936

Device	Routing	Invert	Outlet Devices
#1	Primary	195.00'	**24.0" Round Culvert** L= 43.0' Ke= 0.500 Inlet / Outlet Invert= 195.00' / 193.94' S= 0.0247 '/' Cc= 0.900 n= 0.013, Flow Area= 3.14 sf
#2	Device 1	195.56'	**36.0" W x 6.0" H Vert. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#3	Device 1	197.00'	**4.0' long Sharp-Crested Rectangular Weir** 2 End Contraction(s)
#4	Primary	197.95'	**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=6.13 cfs @ 12.27 hrs HW=196.54' (Free Discharge)
- **1=Culvert** (Passes 6.13 cfs of 10.95 cfs potential flow)
  - **2=Orifice/Grate** (Orifice Controls 6.13 cfs @ 4.09 fps)
  - **3=Sharp-Crested Rectangular Weir** (Controls 0.00 cfs)
- **4=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)

Pond B-32: Basin #32



Stage-Discharge for Pond B-32: Basin #32

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
195.00	0.00	195.52	0.00	196.04	3.20	196.56	6.23
195.01	0.00	195.53	0.00	196.05	3.30	196.57	6.27
195.02	0.00	195.54	0.00	196.06	3.40	196.58	6.31
195.03	0.00	195.55	0.00	196.07	3.50	196.59	6.35
195.04	0.00	195.56	0.00	196.08	3.58	196.60	6.39
195.05	0.00	195.57	0.01	196.09	3.67	196.61	6.43
195.06	0.00	195.58	0.03	196.10	3.74	196.62	6.47
195.07	0.00	195.59	0.05	196.11	3.82	196.63	6.51
195.08	0.00	195.60	0.08	196.12	3.89	196.64	6.55
195.09	0.00	195.61	0.11	196.13	3.97	196.65	6.59
195.10	0.00	195.62	0.14	196.14	4.04	196.66	6.63
195.11	0.00	195.63	0.18	196.15	4.10	196.67	6.67
195.12	0.00	195.64	0.22	196.16	4.17	196.68	6.71
195.13	0.00	195.65	0.26	196.17	4.24	196.69	6.75
195.14	0.00	195.66	0.30	196.18	4.30	196.70	6.79
195.15	0.00	195.67	0.35	196.19	4.36	196.71	6.83
195.16	0.00	195.68	0.40	196.20	4.43	196.72	6.87
195.17	0.00	195.69	0.45	196.21	4.49	196.73	6.91
195.18	0.00	195.70	0.50	196.22	4.55	196.74	6.94
195.19	0.00	195.71	0.56	196.23	4.61	196.75	6.98
195.20	0.00	195.72	0.62	196.24	4.66	196.76	7.02
195.21	0.00	195.73	0.67	196.25	4.72	196.77	7.06
195.22	0.00	195.74	0.74	196.26	4.78	196.78	7.09
195.23	0.00	195.75	0.80	196.27	4.83	196.79	7.13
195.24	0.00	195.76	0.86	196.28	4.89	196.80	7.17
195.25	0.00	195.77	0.93	196.29	4.94	196.81	7.20
195.26	0.00	195.78	0.99	196.30	5.00	196.82	7.24
195.27	0.00	195.79	1.06	196.31	5.05	196.83	7.28
195.28	0.00	195.80	1.13	196.32	5.10	196.84	7.31
195.29	0.00	195.81	1.20	196.33	5.16	196.85	7.35
195.30	0.00	195.82	1.28	196.34	5.21	196.86	7.38
195.31	0.00	195.83	1.35	196.35	5.26	196.87	7.42
195.32	0.00	195.84	1.43	196.36	5.31	196.88	7.45
195.33	0.00	195.85	1.50	196.37	5.36	196.89	7.49
195.34	0.00	195.86	1.58	196.38	5.41	196.90	7.52
195.35	0.00	195.87	1.66	196.39	5.46	196.91	7.56
195.36	0.00	195.88	1.74	196.40	5.50	196.92	7.59
195.37	0.00	195.89	1.83	196.41	5.55	196.93	7.63
195.38	0.00	195.90	1.91	196.42	5.60	196.94	7.66
195.39	0.00	195.91	1.99	196.43	5.65	196.95	7.70
195.40	0.00	195.92	2.08	196.44	5.69	196.96	7.73
195.41	0.00	195.93	2.17	196.45	5.74	196.97	7.76
195.42	0.00	195.94	2.26	196.46	5.79	196.98	7.80
195.43	0.00	195.95	2.35	196.47	5.83	196.99	7.83
195.44	0.00	195.96	2.44	196.48	5.88	197.00	7.86
195.45	0.00	195.97	2.53	196.49	5.92	197.01	7.91
195.46	0.00	195.98	2.62	196.50	5.97	197.02	7.97
195.47	0.00	195.99	2.72	196.51	6.01	197.03	8.03
195.48	0.00	196.00	2.81	196.52	6.05	197.04	8.10
195.49	0.00	196.01	2.91	196.53	6.10	197.05	8.17
195.50	0.00	196.02	3.00	196.54	6.14	197.06	8.25
195.51	0.00	196.03	3.10	196.55	6.18	197.07	8.34

Stage-Discharge for Pond B-32: Basin #32 (continued)

Elevation (feet)	Primary (cfs)
197.08	8.42
197.09	8.51
197.10	8.60
197.11	8.70
197.12	8.79
197.13	8.89
197.14	9.00
197.15	9.10
197.16	9.21
197.17	9.32
197.18	9.43
197.19	9.55
197.20	9.66
197.21	9.78
197.22	9.90
197.23	10.02
197.24	10.15
197.25	10.27
197.26	10.40
197.27	10.53
197.28	10.66
197.29	10.79
197.30	10.92
197.31	11.06
197.32	11.19
197.33	11.33
197.34	11.47
197.35	11.61
197.36	11.76
197.37	11.90
197.38	12.05
197.39	12.19
197.40	12.34
197.41	12.49
197.42	12.64
197.43	12.79
197.44	12.95
197.45	13.10
197.46	13.26
197.47	13.41
197.48	13.57
197.49	13.73
197.50	13.89
197.51	14.05
197.52	14.21
197.53	14.38
197.54	14.54
197.55	14.71
197.56	14.87
197.57	15.04
197.58	15.21
197.59	15.38
197.60	15.55
197.61	15.72
197.62	15.90
197.63	16.07
197.64	16.25
197.65	16.42
197.66	16.60
197.67	16.78
197.68	16.95
197.69	17.13
197.70	17.31
197.71	17.50
197.72	17.68
197.73	17.86
197.74	18.05
197.75	18.23
197.76	18.42
197.77	18.60
197.78	18.79
197.79	18.98
197.80	19.17
197.81	19.36
197.82	19.55
197.83	19.74
197.84	19.93
197.85	20.12
197.86	20.32
197.87	20.51
197.88	20.71
197.89	20.80
197.90	20.85
197.91	20.91
197.92	20.96
197.93	21.01
197.94	21.07
197.95	21.12
197.96	21.29
197.97	21.56
197.98	21.89
197.99	22.28
198.00	**22.70**

Stage-Area-Storage for Pond B-32: Basin #32

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
195.00	2,830	0	195.52	3,214	1,572
195.01	2,837	28	195.53	3,222	1,604
195.02	2,845	57	195.54	3,229	1,636
195.03	2,852	85	195.55	3,236	1,668
195.04	2,860	114	195.56	3,244	1,701
195.05	2,867	142	195.57	3,251	1,733
195.06	2,874	171	195.58	3,259	1,766
195.07	2,882	200	195.59	3,266	1,798
195.08	2,889	229	195.60	3,273	1,831
195.09	2,897	258	195.61	3,281	1,864
195.10	2,904	287	195.62	3,288	1,897
195.11	2,911	316	195.63	3,296	1,930
195.12	2,919	345	195.64	3,303	1,963
195.13	2,926	374	195.65	3,310	1,996
195.14	2,933	403	195.66	3,318	2,029
195.15	2,941	433	195.67	3,325	2,062
195.16	2,948	462	195.68	3,333	2,095
195.17	2,956	492	195.69	3,340	2,129
195.18	2,963	521	195.70	3,347	2,162
195.19	2,970	551	195.71	3,355	2,196
195.20	2,978	581	195.72	3,362	2,229
195.21	2,985	611	195.73	3,369	2,263
195.22	2,993	640	195.74	3,377	2,297
195.23	3,000	670	195.75	3,384	2,330
195.24	3,007	700	195.76	3,392	2,364
195.25	3,015	731	195.77	3,399	2,398
195.26	3,022	761	195.78	3,406	2,432
195.27	3,030	791	195.79	3,414	2,466
195.28	3,037	821	195.80	3,421	2,500
195.29	3,044	852	195.81	3,429	2,535
195.30	3,052	882	195.82	3,436	2,569
195.31	3,059	913	195.83	3,443	2,603
195.32	3,066	943	195.84	3,451	2,638
195.33	3,074	974	195.85	3,458	2,672
195.34	3,081	1,005	195.86	3,466	2,707
195.35	3,089	1,036	195.87	3,473	2,742
195.36	3,096	1,067	195.88	3,480	2,777
195.37	3,103	1,098	195.89	3,488	2,811
195.38	3,111	1,129	195.90	3,495	2,846
195.39	3,118	1,160	195.91	3,502	2,881
195.40	3,126	1,191	195.92	3,510	2,916
195.41	3,133	1,222	195.93	3,517	2,951
195.42	3,140	1,254	195.94	3,525	2,987
195.43	3,148	1,285	195.95	3,532	3,022
195.44	3,155	1,317	195.96	3,539	3,057
195.45	3,163	1,348	195.97	3,547	3,093
195.46	3,170	1,380	195.98	3,554	3,128
195.47	3,177	1,412	195.99	3,562	3,164
195.48	3,185	1,444	196.00	3,569	3,200
195.49	3,192	1,475	196.01	3,577	3,235
195.50	3,200	1,507	196.02	3,585	3,271
195.51	3,207	1,539	196.03	3,592	3,307

Stage-Area-Storage for Pond B-32: Basin #32 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
196.04	3,600	3,343	196.56	4,006	5,320
196.05	3,608	3,379	196.57	4,014	5,361
196.06	3,616	3,415	196.58	4,021	5,401
196.07	3,624	3,451	196.59	4,029	5,441
196.08	3,631	3,488	196.60	4,037	5,481
196.09	3,639	3,524	196.61	4,045	5,522
196.10	3,647	3,560	196.62	4,053	5,562
196.11	3,655	3,597	196.63	4,060	5,603
196.12	3,663	3,633	196.64	4,068	5,643
196.13	3,670	3,670	196.65	4,076	5,684
196.14	3,678	3,707	196.66	4,084	5,725
196.15	3,686	3,744	196.67	4,092	5,766
196.16	3,694	3,781	196.68	4,099	5,807
196.17	3,702	3,818	196.69	4,107	5,848
196.18	3,709	3,855	196.70	4,115	5,889
196.19	3,717	3,892	196.71	4,123	5,930
196.20	3,725	3,929	196.72	4,131	5,971
196.21	3,733	3,966	196.73	4,138	6,013
196.22	3,741	4,004	196.74	4,146	6,054
196.23	3,748	4,041	196.75	4,154	6,096
196.24	3,756	4,079	196.76	4,162	6,137
196.25	3,764	4,116	196.77	4,170	6,179
196.26	3,772	4,154	196.78	4,177	6,221
196.27	3,780	4,192	196.79	4,185	6,262
196.28	3,787	4,229	196.80	4,193	6,304
196.29	3,795	4,267	196.81	4,201	6,346
196.30	3,803	4,305	196.82	4,209	6,388
196.31	3,811	4,343	196.83	4,216	6,430
196.32	3,819	4,382	196.84	4,224	6,473
196.33	3,826	4,420	196.85	4,232	6,515
196.34	3,834	4,458	196.86	4,240	6,557
196.35	3,842	4,496	196.87	4,248	6,600
196.36	3,850	4,535	196.88	4,255	6,642
196.37	3,858	4,573	196.89	4,263	6,685
196.38	3,865	4,612	196.90	4,271	6,728
196.39	3,873	4,651	196.91	4,279	6,770
196.40	3,881	4,690	196.92	4,287	6,813
196.41	3,889	4,728	196.93	4,294	6,856
196.42	3,897	4,767	196.94	4,302	6,899
196.43	3,904	4,806	196.95	4,310	6,942
196.44	3,912	4,845	196.96	4,318	6,985
196.45	3,920	4,885	196.97	4,326	7,028
196.46	3,928	4,924	196.98	4,333	7,072
196.47	3,936	4,963	196.99	4,341	7,115
196.48	3,943	5,002	197.00	4,349	7,159
196.49	3,951	5,042	197.01	4,358	7,202
196.50	3,959	5,082	197.02	4,366	7,246
196.51	3,967	5,121	197.03	4,375	7,289
196.52	3,975	5,161	197.04	4,383	7,333
196.53	3,982	5,201	197.05	4,392	7,377
196.54	3,990	5,240	197.06	4,400	7,421
196.55	3,998	5,280	197.07	4,409	7,465

Stage-Area-Storage for Pond B-32: Basin #32 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
197.08	4,418	7,509
197.09	4,426	7,553
197.10	4,435	7,598
197.11	4,443	7,642
197.12	4,452	7,687
197.13	4,460	7,731
197.14	4,469	7,776
197.15	4,478	7,820
197.16	4,486	7,865
197.17	4,495	7,910
197.18	4,503	7,955
197.19	4,512	8,000
197.20	4,520	8,045
197.21	4,529	8,091
197.22	4,538	8,136
197.23	4,546	8,181
197.24	4,555	8,227
197.25	4,563	8,273
197.26	4,572	8,318
197.27	4,580	8,364
197.28	4,589	8,410
197.29	4,598	8,456
197.30	4,606	8,502
197.31	4,615	8,548
197.32	4,623	8,594
197.33	4,632	8,640
197.34	4,640	8,687
197.35	4,649	8,733
197.36	4,658	8,780
197.37	4,666	8,826
197.38	4,675	8,873
197.39	4,683	8,920
197.40	4,692	8,967
197.41	4,700	9,014
197.42	4,709	9,061
197.43	4,718	9,108
197.44	4,726	9,155
197.45	4,735	9,202
197.46	4,743	9,250
197.47	4,752	9,297
197.48	4,760	9,345
197.49	4,769	9,392
197.50	4,778	9,440
197.51	4,786	9,488
197.52	4,795	9,536
197.53	4,803	9,584
197.54	4,812	9,632
197.55	4,820	9,680
197.56	4,829	9,728
197.57	4,837	9,777
197.58	4,846	9,825
197.59	4,855	9,874
197.60	4,863	9,922
197.61	4,872	9,971
197.62	4,880	10,020
197.63	4,889	10,068
197.64	4,897	10,117
197.65	4,906	10,166
197.66	4,915	10,215
197.67	4,923	10,265
197.68	4,932	10,314
197.69	4,940	10,363
197.70	4,949	10,413
197.71	4,957	10,462
197.72	4,966	10,512
197.73	4,975	10,562
197.74	4,983	10,611
197.75	4,992	10,661
197.76	5,000	10,711
197.77	5,009	10,761
197.78	5,017	10,811
197.79	5,026	10,862
197.80	5,035	10,912
197.81	5,043	10,962
197.82	5,052	11,013
197.83	5,060	11,063
197.84	5,069	11,114
197.85	5,077	11,165
197.86	5,086	11,216
197.87	5,095	11,266
197.88	5,103	11,317
197.89	5,112	11,369
197.90	5,120	11,420
197.91	5,129	11,471
197.92	5,137	11,522
197.93	5,146	11,574
197.94	5,155	11,625
197.95	5,163	11,677
197.96	5,172	11,728
197.97	5,180	11,780
197.98	5,189	11,832
197.99	5,197	11,884
198.00	**5,206**	**11,936**

Summary for Pond B-33: Basin #33

Inflow Area = 1.761 ac, 50.99% Impervious, Inflow Depth = 6.93" for Current 100 yr event
Inflow = 12.21 cfs @ 12.17 hrs, Volume= 1.017 af
Outflow = 10.29 cfs @ 12.24 hrs, Volume= 0.930 af, Atten= 16%, Lag= 4.0 min
Primary = 10.29 cfs @ 12.24 hrs, Volume= 0.930 af
Routed to Link PDA-3 : Proposed Drainage Area #3

Routing by Stor-Ind method, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
Peak Elev= 187.11' @ 12.24 hrs Surf.Area= 5,119 sf Storage= 12,570 cf

Plug-Flow detention time= 216.1 min calculated for 0.930 af (91% of inflow)
Center-of-Mass det. time= 169.7 min (943.5 - 773.8)

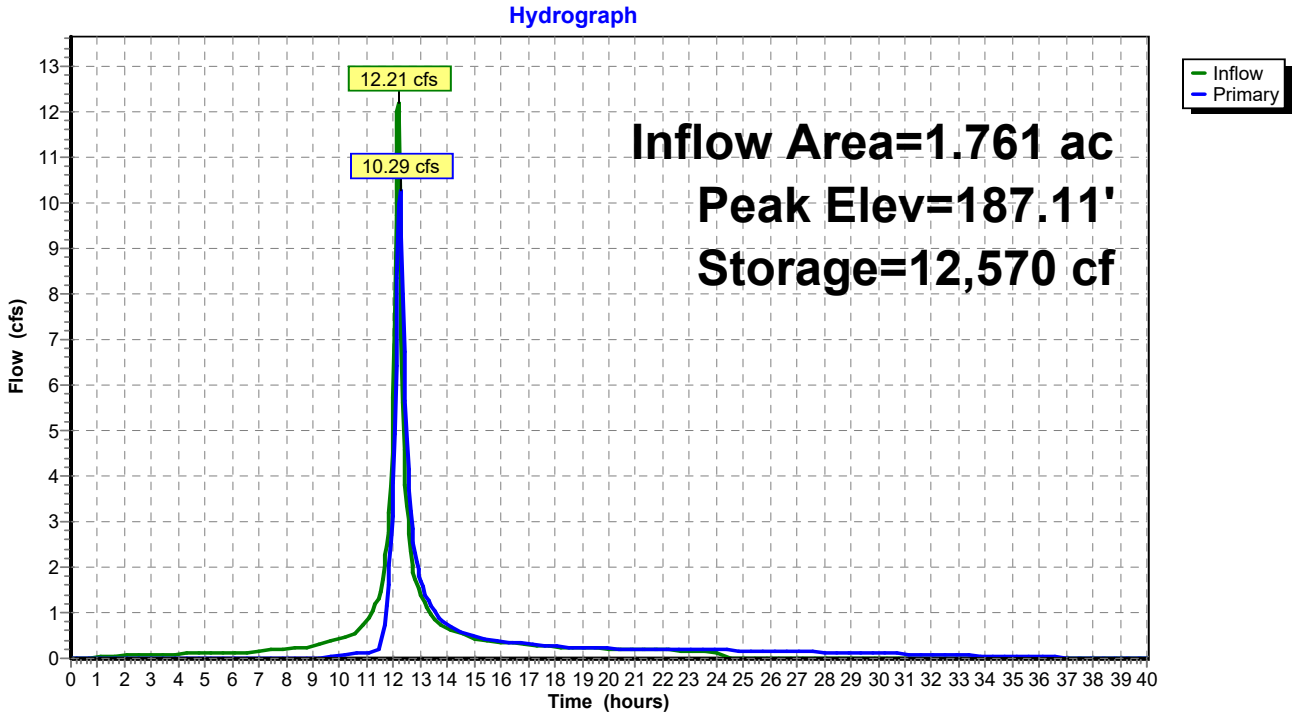
Volume	Invert	Avail.Storage	Storage Description
#1	183.30'	17,481 cf	**Custom Stage Data (Prismatic)** Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
183.30	0	0	0
184.00	2,481	868	868
185.00	3,268	2,875	3,743
186.00	4,111	3,690	7,432
187.00	5,010	4,561	11,993
188.00	5,966	5,488	17,481

Device	Routing	Invert	Outlet Devices
#1	Primary	184.00'	**18.0" Round Culvert** L= 104.0' Ke= 0.500 Inlet / Outlet Invert= 184.00' / 182.00' S= 0.0192 '/' Cc= 0.900 n= 0.013, Flow Area= 1.77 sf
#2	Device 1	184.96'	**2.5" Vert. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#3	Device 1	186.25'	**4.0' long Sharp-Crested Rectangular Weir** 2 End Contraction(s)
#4	Primary	187.75'	**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=10.17 cfs @ 12.24 hrs HW=187.11' (Free Discharge)
- **1=Culvert** (Passes 10.17 cfs of 13.06 cfs potential flow)
  - **2=Orifice/Grate** (Orifice Controls 0.23 cfs @ 6.88 fps)
  - **3=Sharp-Crested Rectangular Weir** (Weir Controls 9.94 cfs @ 3.03 fps)
- **4=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)

Pond B-33: Basin #33



Stage-Discharge for Pond B-33: Basin #33

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
183.30	0.00	183.82	0.00	184.34	0.00	184.86	0.00
183.31	0.00	183.83	0.00	184.35	0.00	184.87	0.00
183.32	0.00	183.84	0.00	184.36	0.00	184.88	0.00
183.33	0.00	183.85	0.00	184.37	0.00	184.89	0.00
183.34	0.00	183.86	0.00	184.38	0.00	184.90	0.00
183.35	0.00	183.87	0.00	184.39	0.00	184.91	0.00
183.36	0.00	183.88	0.00	184.40	0.00	184.92	0.00
183.37	0.00	183.89	0.00	184.41	0.00	184.93	0.00
183.38	0.00	183.90	0.00	184.42	0.00	184.94	0.00
183.39	0.00	183.91	0.00	184.43	0.00	184.95	0.00
183.40	0.00	183.92	0.00	184.44	0.00	184.96	0.00
183.41	0.00	183.93	0.00	184.45	0.00	184.97	0.00
183.42	0.00	183.94	0.00	184.46	0.00	184.98	0.00
183.43	0.00	183.95	0.00	184.47	0.00	184.99	0.00
183.44	0.00	183.96	0.00	184.48	0.00	185.00	0.00
183.45	0.00	183.97	0.00	184.49	0.00	185.01	0.00
183.46	0.00	183.98	0.00	184.50	0.00	185.02	0.01
183.47	0.00	183.99	0.00	184.51	0.00	185.03	0.01
183.48	0.00	184.00	0.00	184.52	0.00	185.04	0.01
183.49	0.00	184.01	0.00	184.53	0.00	185.05	0.01
183.50	0.00	184.02	0.00	184.54	0.00	185.06	0.02
183.51	0.00	184.03	0.00	184.55	0.00	185.07	0.02
183.52	0.00	184.04	0.00	184.56	0.00	185.08	0.02
183.53	0.00	184.05	0.00	184.57	0.00	185.09	0.03
183.54	0.00	184.06	0.00	184.58	0.00	185.10	0.03
183.55	0.00	184.07	0.00	184.59	0.00	185.11	0.03
183.56	0.00	184.08	0.00	184.60	0.00	185.12	0.04
183.57	0.00	184.09	0.00	184.61	0.00	185.13	0.04
183.58	0.00	184.10	0.00	184.62	0.00	185.14	0.05
183.59	0.00	184.11	0.00	184.63	0.00	185.15	0.05
183.60	0.00	184.12	0.00	184.64	0.00	185.16	0.05
183.61	0.00	184.13	0.00	184.65	0.00	185.17	0.05
183.62	0.00	184.14	0.00	184.66	0.00	185.18	0.06
183.63	0.00	184.15	0.00	184.67	0.00	185.19	0.06
183.64	0.00	184.16	0.00	184.68	0.00	185.20	0.06
183.65	0.00	184.17	0.00	184.69	0.00	185.21	0.06
183.66	0.00	184.18	0.00	184.70	0.00	185.22	0.06
183.67	0.00	184.19	0.00	184.71	0.00	185.23	0.07
183.68	0.00	184.20	0.00	184.72	0.00	185.24	0.07
183.69	0.00	184.21	0.00	184.73	0.00	185.25	0.07
183.70	0.00	184.22	0.00	184.74	0.00	185.26	0.07
183.71	0.00	184.23	0.00	184.75	0.00	185.27	0.07
183.72	0.00	184.24	0.00	184.76	0.00	185.28	0.08
183.73	0.00	184.25	0.00	184.77	0.00	185.29	0.08
183.74	0.00	184.26	0.00	184.78	0.00	185.30	0.08
183.75	0.00	184.27	0.00	184.79	0.00	185.31	0.08
183.76	0.00	184.28	0.00	184.80	0.00	185.32	0.08
183.77	0.00	184.29	0.00	184.81	0.00	185.33	0.08
183.78	0.00	184.30	0.00	184.82	0.00	185.34	0.09
183.79	0.00	184.31	0.00	184.83	0.00	185.35	0.09
183.80	0.00	184.32	0.00	184.84	0.00	185.36	0.09
183.81	0.00	184.33	0.00	184.85	0.00	185.37	0.09

Stage-Discharge for Pond B-33: Basin #33 (continued)

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
185.38	0.09	185.90	0.15	186.42	1.10	186.94	7.46
185.39	0.09	185.91	0.15	186.43	1.18	186.95	7.62
185.40	0.10	185.92	0.15	186.44	1.27	186.96	7.77
185.41	0.10	185.93	0.15	186.45	1.35	186.97	7.93
185.42	0.10	185.94	0.15	186.46	1.44	186.98	8.09
185.43	0.10	185.95	0.15	186.47	1.53	186.99	8.25
185.44	0.10	185.96	0.16	186.48	1.62	187.00	8.41
185.45	0.10	185.97	0.16	186.49	1.72	187.01	8.57
185.46	0.10	185.98	0.16	186.50	1.81	187.02	8.73
185.47	0.10	185.99	0.16	186.51	1.91	187.03	8.89
185.48	0.11	186.00	0.16	186.52	2.01	187.04	9.05
185.49	0.11	186.01	0.16	186.53	2.11	187.05	9.22
185.50	0.11	186.02	0.16	186.54	2.21	187.06	9.38
185.51	0.11	186.03	0.16	186.55	2.32	187.07	9.55
185.52	0.11	186.04	0.16	186.56	2.42	187.08	9.71
185.53	0.11	186.05	0.16	186.57	2.53	187.09	9.88
185.54	0.11	186.06	0.16	186.58	2.64	187.10	10.05
185.55	0.11	186.07	0.16	186.59	2.75	187.11	10.22
185.56	0.12	186.08	0.17	186.60	2.86	187.12	10.39
185.57	0.12	186.09	0.17	186.61	2.98	187.13	10.56
185.58	0.12	186.10	0.17	186.62	3.09	187.14	10.73
185.59	0.12	186.11	0.17	186.63	3.21	187.15	10.90
185.60	0.12	186.12	0.17	186.64	3.33	187.16	11.08
185.61	0.12	186.13	0.17	186.65	3.45	187.17	11.25
185.62	0.12	186.14	0.17	186.66	3.57	187.18	11.42
185.63	0.12	186.15	0.17	186.67	3.69	187.19	11.60
185.64	0.12	186.16	0.17	186.68	3.82	187.20	11.78
185.65	0.13	186.17	0.17	186.69	3.94	187.21	11.95
185.66	0.13	186.18	0.17	186.70	4.07	187.22	12.13
185.67	0.13	186.19	0.17	186.71	4.20	187.23	12.31
185.68	0.13	186.20	0.17	186.72	4.33	187.24	12.49
185.69	0.13	186.21	0.18	186.73	4.46	187.25	12.67
185.70	0.13	186.22	0.18	186.74	4.59	187.26	12.85
185.71	0.13	186.23	0.18	186.75	4.72	187.27	13.03
185.72	0.13	186.24	0.18	186.76	4.86	187.28	13.21
185.73	0.13	186.25	0.18	186.77	4.99	187.29	13.40
185.74	0.13	186.26	0.19	186.78	5.13	187.30	13.58
185.75	0.14	186.27	0.22	186.79	5.27	187.31	13.61
185.76	0.14	186.28	0.25	186.80	5.40	187.32	13.64
185.77	0.14	186.29	0.29	186.81	5.54	187.33	13.67
185.78	0.14	186.30	0.33	186.82	5.69	187.34	13.69
185.79	0.14	186.31	0.37	186.83	5.83	187.35	13.72
185.80	0.14	186.32	0.43	186.84	5.97	187.36	13.75
185.81	0.14	186.33	0.48	186.85	6.12	187.37	13.77
185.82	0.14	186.34	0.54	186.86	6.26	187.38	13.80
185.83	0.14	186.35	0.60	186.87	6.41	187.39	13.83
185.84	0.14	186.36	0.66	186.88	6.56	187.40	13.85
185.85	0.15	186.37	0.73	186.89	6.70	187.41	13.88
185.86	0.15	186.38	0.80	186.90	6.85	187.42	13.90
185.87	0.15	186.39	0.87	186.91	7.00	187.43	13.93
185.88	0.15	186.40	0.94	186.92	7.16	187.44	13.96
185.89	0.15	186.41	1.02	186.93	7.31	187.45	13.98

Stage-Discharge for Pond B-33: Basin #33 (continued)

Elevation (feet)	Primary (cfs)
187.46	14.01
187.47	14.03
187.48	14.06
187.49	14.08
187.50	14.11
187.51	14.14
187.52	14.16
187.53	14.19
187.54	14.21
187.55	14.24
187.56	14.26
187.57	14.29
187.58	14.31
187.59	14.34
187.60	14.36
187.61	14.39
187.62	14.41
187.63	14.44
187.64	14.46
187.65	14.49
187.66	14.51
187.67	14.54
187.68	14.56
187.69	14.59
187.70	14.61
187.71	14.64
187.72	14.66
187.73	14.69
187.74	14.71
187.75	14.74
187.76	14.88
187.77	15.12
187.78	15.42
187.79	15.77
187.80	16.17
187.81	16.61
187.82	17.08
187.83	17.59
187.84	18.13
187.85	18.70
187.86	19.30
187.87	19.92
187.88	20.57
187.89	21.25
187.90	21.95
187.91	22.67
187.92	23.42
187.93	24.19
187.94	24.98
187.95	25.79
187.96	26.66
187.97	27.55
187.98	28.47
187.99	29.42
188.00	**30.39**

Stage-Area-Storage for Pond B-33: Basin #33

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
183.30	0	0	183.82	1,843	479
183.31	35	0	183.83	1,878	498
183.32	71	1	183.84	1,914	517
183.33	106	2	183.85	1,949	536
183.34	142	3	183.86	1,985	556
183.35	177	4	183.87	2,020	576
183.36	213	6	183.88	2,056	596
183.37	248	9	183.89	2,091	617
183.38	284	11	183.90	2,127	638
183.39	319	14	183.91	2,162	659
183.40	354	18	183.92	2,197	681
183.41	390	21	183.93	2,233	703
183.42	425	26	183.94	2,268	726
183.43	461	30	183.95	2,304	749
183.44	496	35	183.96	2,339	772
183.45	532	40	183.97	2,375	796
183.46	567	45	183.98	2,410	819
183.47	603	51	183.99	2,446	844
183.48	638	57	184.00	2,481	868
183.49	673	64	184.01	2,489	893
183.50	709	71	184.02	2,497	918
183.51	744	78	184.03	2,505	943
183.52	780	86	184.04	2,512	968
183.53	815	94	184.05	2,520	993
183.54	851	102	184.06	2,528	1,019
183.55	886	111	184.07	2,536	1,044
183.56	922	120	184.08	2,544	1,069
183.57	957	129	184.09	2,552	1,095
183.58	992	139	184.10	2,560	1,120
183.59	1,028	149	184.11	2,568	1,146
183.60	1,063	159	184.12	2,575	1,172
183.61	1,099	170	184.13	2,583	1,198
183.62	1,134	181	184.14	2,591	1,223
183.63	1,170	193	184.15	2,599	1,249
183.64	1,205	205	184.16	2,607	1,275
183.65	1,241	217	184.17	2,615	1,301
183.66	1,276	230	184.18	2,623	1,328
183.67	1,311	243	184.19	2,631	1,354
183.68	1,347	256	184.20	2,638	1,380
183.69	1,382	270	184.21	2,646	1,407
183.70	1,418	284	184.22	2,654	1,433
183.71	1,453	298	184.23	2,662	1,460
183.72	1,489	313	184.24	2,670	1,486
183.73	1,524	328	184.25	2,678	1,513
183.74	1,559	343	184.26	2,686	1,540
183.75	1,595	359	184.27	2,693	1,567
183.76	1,630	375	184.28	2,701	1,594
183.77	1,666	391	184.29	2,709	1,621
183.78	1,701	408	184.30	2,717	1,648
183.79	1,737	425	184.31	2,725	1,675
183.80	1,772	443	184.32	2,733	1,703
183.81	1,808	461	184.33	2,741	1,730

Stage-Area-Storage for Pond B-33: Basin #33 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
184.34	2,749	1,757	184.86	3,158	3,293
184.35	2,756	1,785	184.87	3,166	3,325
184.36	2,764	1,813	184.88	3,174	3,356
184.37	2,772	1,840	184.89	3,181	3,388
184.38	2,780	1,868	184.90	3,189	3,420
184.39	2,788	1,896	184.91	3,197	3,452
184.40	2,796	1,924	184.92	3,205	3,484
184.41	2,804	1,952	184.93	3,213	3,516
184.42	2,812	1,980	184.94	3,221	3,548
184.43	2,819	2,008	184.95	3,229	3,580
184.44	2,827	2,036	184.96	3,237	3,613
184.45	2,835	2,064	184.97	3,244	3,645
184.46	2,843	2,093	184.98	3,252	3,678
184.47	2,851	2,121	184.99	3,260	3,710
184.48	2,859	2,150	185.00	3,268	3,743
184.49	2,867	2,179	185.01	3,276	3,776
184.50	2,875	2,207	185.02	3,285	3,808
184.51	2,882	2,236	185.03	3,293	3,841
184.52	2,890	2,265	185.04	3,302	3,874
184.53	2,898	2,294	185.05	3,310	3,907
184.54	2,906	2,323	185.06	3,319	3,940
184.55	2,914	2,352	185.07	3,327	3,974
184.56	2,922	2,381	185.08	3,335	4,007
184.57	2,930	2,410	185.09	3,344	4,040
184.58	2,937	2,440	185.10	3,352	4,074
184.59	2,945	2,469	185.11	3,361	4,107
184.60	2,953	2,499	185.12	3,369	4,141
184.61	2,961	2,528	185.13	3,378	4,175
184.62	2,969	2,558	185.14	3,386	4,209
184.63	2,977	2,588	185.15	3,394	4,243
184.64	2,985	2,617	185.16	3,403	4,277
184.65	2,993	2,647	185.17	3,411	4,311
184.66	3,000	2,677	185.18	3,420	4,345
184.67	3,008	2,707	185.19	3,428	4,379
184.68	3,016	2,737	185.20	3,437	4,413
184.69	3,024	2,768	185.21	3,445	4,448
184.70	3,032	2,798	185.22	3,453	4,482
184.71	3,040	2,828	185.23	3,462	4,517
184.72	3,048	2,859	185.24	3,470	4,551
184.73	3,056	2,889	185.25	3,479	4,586
184.74	3,063	2,920	185.26	3,487	4,621
184.75	3,071	2,950	185.27	3,496	4,656
184.76	3,079	2,981	185.28	3,504	4,691
184.77	3,087	3,012	185.29	3,512	4,726
184.78	3,095	3,043	185.30	3,521	4,761
184.79	3,103	3,074	185.31	3,529	4,796
184.80	3,111	3,105	185.32	3,538	4,832
184.81	3,118	3,136	185.33	3,546	4,867
184.82	3,126	3,167	185.34	3,555	4,903
184.83	3,134	3,199	185.35	3,563	4,938
184.84	3,142	3,230	185.36	3,571	4,974
184.85	3,150	3,262	185.37	3,580	5,010

Stage-Area-Storage for Pond B-33: Basin #33 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
185.38	3,588	5,046
185.39	3,597	5,081
185.40	3,605	5,117
185.41	3,614	5,154
185.42	3,622	5,190
185.43	3,630	5,226
185.44	3,639	5,262
185.45	3,647	5,299
185.46	3,656	5,335
185.47	3,664	5,372
185.48	3,673	5,409
185.49	3,681	5,445
185.50	3,690	5,482
185.51	3,698	5,519
185.52	3,706	5,556
185.53	3,715	5,593
185.54	3,723	5,630
185.55	3,732	5,668
185.56	3,740	5,705
185.57	3,749	5,743
185.58	3,757	5,780
185.59	3,765	5,818
185.60	3,774	5,855
185.61	3,782	5,893
185.62	3,791	5,931
185.63	3,799	5,969
185.64	3,808	6,007
185.65	3,816	6,045
185.66	3,824	6,083
185.67	3,833	6,122
185.68	3,841	6,160
185.69	3,850	6,198
185.70	3,858	6,237
185.71	3,867	6,276
185.72	3,875	6,314
185.73	3,883	6,353
185.74	3,892	6,392
185.75	3,900	6,431
185.76	3,909	6,470
185.77	3,917	6,509
185.78	3,926	6,548
185.79	3,934	6,588
185.80	3,942	6,627
185.81	3,951	6,666
185.82	3,959	6,706
185.83	3,968	6,746
185.84	3,976	6,785
185.85	3,985	6,825
185.86	3,993	6,865
185.87	4,001	6,905
185.88	4,010	6,945
185.89	4,018	6,985
185.90	4,027	7,025
185.91	4,035	7,066
185.92	4,044	7,106
185.93	4,052	7,147
185.94	4,060	7,187
185.95	4,069	7,228
185.96	4,077	7,269
185.97	4,086	7,309
185.98	4,094	7,350
185.99	4,103	7,391
186.00	4,111	7,432
186.01	4,120	7,474
186.02	4,129	7,515
186.03	4,138	7,556
186.04	4,147	7,598
186.05	4,156	7,639
186.06	4,165	7,681
186.07	4,174	7,722
186.08	4,183	7,764
186.09	4,192	7,806
186.10	4,201	7,848
186.11	4,210	7,890
186.12	4,219	7,932
186.13	4,228	7,974
186.14	4,237	8,017
186.15	4,246	8,059
186.16	4,255	8,102
186.17	4,264	8,144
186.18	4,273	8,187
186.19	4,282	8,230
186.20	4,291	8,273
186.21	4,300	8,315
186.22	4,309	8,359
186.23	4,318	8,402
186.24	4,327	8,445
186.25	4,336	8,488
186.26	4,345	8,532
186.27	4,354	8,575
186.28	4,363	8,619
186.29	4,372	8,662
186.30	4,381	8,706
186.31	4,390	8,750
186.32	4,399	8,794
186.33	4,408	8,838
186.34	4,417	8,882
186.35	4,426	8,926
186.36	4,435	8,971
186.37	4,444	9,015
186.38	4,453	9,059
186.39	4,462	9,104
186.40	4,471	9,149
186.41	4,480	9,193

Stage-Area-Storage for Pond B-33: Basin #33 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
186.42	4,489	9,238	186.94	4,956	11,694
186.43	4,498	9,283	186.95	4,965	11,743
186.44	4,507	9,328	186.96	4,974	11,793
186.45	4,516	9,373	186.97	4,983	11,843
186.46	4,525	9,419	186.98	4,992	11,893
186.47	4,534	9,464	186.99	5,001	11,943
186.48	4,543	9,509	187.00	5,010	11,993
186.49	4,552	9,555	187.01	5,020	12,043
186.50	4,561	9,600	187.02	5,029	12,093
186.51	4,569	9,646	187.03	5,039	12,144
186.52	4,578	9,692	187.04	5,048	12,194
186.53	4,587	9,737	187.05	5,058	12,245
186.54	4,596	9,783	187.06	5,067	12,295
186.55	4,605	9,829	187.07	5,077	12,346
186.56	4,614	9,875	187.08	5,086	12,397
186.57	4,623	9,922	187.09	5,096	12,448
186.58	4,632	9,968	187.10	5,106	12,499
186.59	4,641	10,014	187.11	5,115	12,550
186.60	4,650	10,061	187.12	5,125	12,601
186.61	4,659	10,107	187.13	5,134	12,652
186.62	4,668	10,154	187.14	5,144	12,704
186.63	4,677	10,201	187.15	5,153	12,755
186.64	4,686	10,248	187.16	5,163	12,807
186.65	4,695	10,294	187.17	5,173	12,858
186.66	4,704	10,341	187.18	5,182	12,910
186.67	4,713	10,389	187.19	5,192	12,962
186.68	4,722	10,436	187.20	5,201	13,014
186.69	4,731	10,483	187.21	5,211	13,066
186.70	4,740	10,530	187.22	5,220	13,118
186.71	4,749	10,578	187.23	5,230	13,170
186.72	4,758	10,625	187.24	5,239	13,223
186.73	4,767	10,673	187.25	5,249	13,275
186.74	4,776	10,721	187.26	5,259	13,328
186.75	4,785	10,768	187.27	5,268	13,380
186.76	4,794	10,816	187.28	5,278	13,433
186.77	4,803	10,864	187.29	5,287	13,486
186.78	4,812	10,912	187.30	5,297	13,539
186.79	4,821	10,961	187.31	5,306	13,592
186.80	4,830	11,009	187.32	5,316	13,645
186.81	4,839	11,057	187.33	5,325	13,698
186.82	4,848	11,106	187.34	5,335	13,752
186.83	4,857	11,154	187.35	5,345	13,805
186.84	4,866	11,203	187.36	5,354	13,858
186.85	4,875	11,251	187.37	5,364	13,912
186.86	4,884	11,300	187.38	5,373	13,966
186.87	4,893	11,349	187.39	5,383	14,019
186.88	4,902	11,398	187.40	5,392	14,073
186.89	4,911	11,447	187.41	5,402	14,127
186.90	4,920	11,496	187.42	5,412	14,181
186.91	4,929	11,546	187.43	5,421	14,236
186.92	4,938	11,595	187.44	5,431	14,290
186.93	4,947	11,644	187.45	5,440	14,344

Stage-Area-Storage for Pond B-33: Basin #33 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
187.46	5,450	14,399
187.47	5,459	14,453
187.48	5,469	14,508
187.49	5,478	14,563
187.50	5,488	14,617
187.51	5,498	14,672
187.52	5,507	14,727
187.53	5,517	14,782
187.54	5,526	14,838
187.55	5,536	14,893
187.56	5,545	14,948
187.57	5,555	15,004
187.58	5,564	15,059
187.59	5,574	15,115
187.60	5,584	15,171
187.61	5,593	15,227
187.62	5,603	15,283
187.63	5,612	15,339
187.64	5,622	15,395
187.65	5,631	15,451
187.66	5,641	15,508
187.67	5,651	15,564
187.68	5,660	15,621
187.69	5,670	15,677
187.70	5,679	15,734
187.71	5,689	15,791
187.72	5,698	15,848
187.73	5,708	15,905
187.74	5,717	15,962
187.75	5,727	16,019
187.76	5,737	16,077
187.77	5,746	16,134
187.78	5,756	16,191
187.79	5,765	16,249
187.80	5,775	16,307
187.81	5,784	16,365
187.82	5,794	16,422
187.83	5,803	16,480
187.84	5,813	16,539
187.85	5,823	16,597
187.86	5,832	16,655
187.87	5,842	16,713
187.88	5,851	16,772
187.89	5,861	16,830
187.90	5,870	16,889
187.91	5,880	16,948
187.92	5,890	17,007
187.93	5,899	17,066
187.94	5,909	17,125
187.95	5,918	17,184
187.96	5,928	17,243
187.97	5,937	17,302
187.98	5,947	17,362
187.99	5,956	17,421
188.00	**5,966**	**17,481**

Summary for Pond B-34: Basin #34

Inflow Area = 1.779 ac, 23.66% Impervious, Inflow Depth = 6.14" for Current 100 yr event
Inflow = 11.43 cfs @ 12.17 hrs, Volume= 0.910 af
Outflow = 8.67 cfs @ 12.26 hrs, Volume= 0.854 af, Atten= 24%, Lag= 5.3 min
Primary = 8.67 cfs @ 12.26 hrs, Volume= 0.854 af
Routed to Link PDA-3 : Proposed Drainage Area #3

Routing by Stor-Ind method, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
Peak Elev= 193.10' @ 12.26 hrs Surf.Area= 6,456 sf Storage= 12,871 cf

Plug-Flow detention time= 241.7 min calculated for 0.854 af (94% of inflow)
Center-of-Mass det. time= 206.9 min (1,002.8 - 795.8)

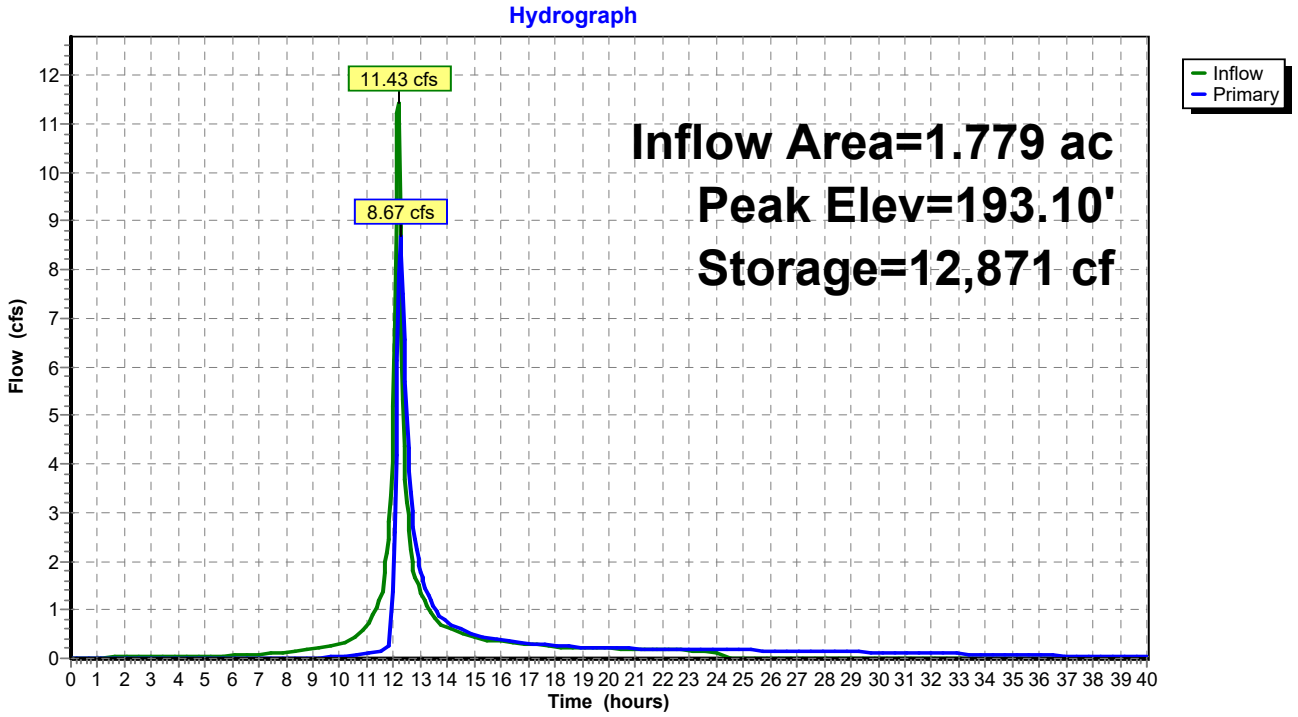
Volume	Invert	Avail.Storage	Storage Description
#1	190.30'	27,449 cf	**Custom Stage Data (Prismatic)** Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
190.30	0	0	0
191.00	4,390	1,536	1,536
192.00	5,343	4,867	6,403
193.00	6,353	5,848	12,251
194.00	7,419	6,886	19,137
195.00	9,205	8,312	27,449

Device	Routing	Invert	Outlet Devices
#1	Primary	189.65'	**18.0" Round Culvert** L= 100.0' Ke= 0.500 Inlet / Outlet Invert= 189.65' / 189.15' S= 0.0050 '/' Cc= 0.900 n= 0.013, Flow Area= 1.77 sf
#2	Device 1	191.09'	**2.5" Vert. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#3	Device 1	192.33'	**4.0' long Sharp-Crested Rectangular Weir** 2 End Contraction(s)
#4	Primary	194.25'	**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=8.58 cfs @ 12.26 hrs HW=193.09' (Free Discharge)
- **1=Culvert** (Passes 8.58 cfs of 12.14 cfs potential flow)
  - **2=Orifice/Grate** (Orifice Controls 0.23 cfs @ 6.63 fps)
  - **3=Sharp-Crested Rectangular Weir** (Weir Controls 8.36 cfs @ 2.85 fps)
- **4=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)

Pond B-34: Basin #34



Stage-Discharge for Pond B-34: Basin #34

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
190.30	0.00	190.82	0.00	191.34	0.06	191.86	0.13
190.31	0.00	190.83	0.00	191.35	0.06	191.87	0.13
190.32	0.00	190.84	0.00	191.36	0.07	191.88	0.14
190.33	0.00	190.85	0.00	191.37	0.07	191.89	0.14
190.34	0.00	190.86	0.00	191.38	0.07	191.90	0.14
190.35	0.00	190.87	0.00	191.39	0.07	191.91	0.14
190.36	0.00	190.88	0.00	191.40	0.07	191.92	0.14
190.37	0.00	190.89	0.00	191.41	0.08	191.93	0.14
190.38	0.00	190.90	0.00	191.42	0.08	191.94	0.14
190.39	0.00	190.91	0.00	191.43	0.08	191.95	0.14
190.40	0.00	190.92	0.00	191.44	0.08	191.96	0.14
190.41	0.00	190.93	0.00	191.45	0.08	191.97	0.14
190.42	0.00	190.94	0.00	191.46	0.08	191.98	0.15
190.43	0.00	190.95	0.00	191.47	0.09	191.99	0.15
190.44	0.00	190.96	0.00	191.48	0.09	192.00	0.15
190.45	0.00	190.97	0.00	191.49	0.09	192.01	0.15
190.46	0.00	190.98	0.00	191.50	0.09	192.02	0.15
190.47	0.00	190.99	0.00	191.51	0.09	192.03	0.15
190.48	0.00	191.00	0.00	191.52	0.09	192.04	0.15
190.49	0.00	191.01	0.00	191.53	0.10	192.05	0.15
190.50	0.00	191.02	0.00	191.54	0.10	192.06	0.15
190.51	0.00	191.03	0.00	191.55	0.10	192.07	0.15
190.52	0.00	191.04	0.00	191.56	0.10	192.08	0.15
190.53	0.00	191.05	0.00	191.57	0.10	192.09	0.16
190.54	0.00	191.06	0.00	191.58	0.10	192.10	0.16
190.55	0.00	191.07	0.00	191.59	0.10	192.11	0.16
190.56	0.00	191.08	0.00	191.60	0.10	192.12	0.16
190.57	0.00	191.09	0.00	191.61	0.11	192.13	0.16
190.58	0.00	191.10	0.00	191.62	0.11	192.14	0.16
190.59	0.00	191.11	0.00	191.63	0.11	192.15	0.16
190.60	0.00	191.12	0.00	191.64	0.11	192.16	0.16
190.61	0.00	191.13	0.00	191.65	0.11	192.17	0.16
190.62	0.00	191.14	0.00	191.66	0.11	192.18	0.16
190.63	0.00	191.15	0.01	191.67	0.11	192.19	0.16
190.64	0.00	191.16	0.01	191.68	0.11	192.20	0.16
190.65	0.00	191.17	0.01	191.69	0.12	192.21	0.17
190.66	0.00	191.18	0.01	191.70	0.12	192.22	0.17
190.67	0.00	191.19	0.02	191.71	0.12	192.23	0.17
190.68	0.00	191.20	0.02	191.72	0.12	192.24	0.17
190.69	0.00	191.21	0.02	191.73	0.12	192.25	0.17
190.70	0.00	191.22	0.03	191.74	0.12	192.26	0.17
190.71	0.00	191.23	0.03	191.75	0.12	192.27	0.17
190.72	0.00	191.24	0.03	191.76	0.12	192.28	0.17
190.73	0.00	191.25	0.04	191.77	0.12	192.29	0.17
190.74	0.00	191.26	0.04	191.78	0.13	192.30	0.17
190.75	0.00	191.27	0.05	191.79	0.13	192.31	0.17
190.76	0.00	191.28	0.05	191.80	0.13	192.32	0.17
190.77	0.00	191.29	0.05	191.81	0.13	192.33	0.17
190.78	0.00	191.30	0.05	191.82	0.13	192.34	0.19
190.79	0.00	191.31	0.06	191.83	0.13	192.35	0.21
190.80	0.00	191.32	0.06	191.84	0.13	192.36	0.25
190.81	0.00	191.33	0.06	191.85	0.13	192.37	0.28

Stage-Discharge for Pond B-34: Basin #34 (continued)

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
192.38	0.32	192.90	5.68	193.42	12.94	193.94	14.10
192.39	0.37	192.91	5.83	193.43	12.96	193.95	14.12
192.40	0.42	192.92	5.97	193.44	12.98	193.96	14.14
192.41	0.48	192.93	6.11	193.45	13.01	193.97	14.16
192.42	0.53	192.94	6.26	193.46	13.03	193.98	14.18
192.43	0.59	192.95	6.41	193.47	13.05	193.99	14.21
192.44	0.66	192.96	6.55	193.48	13.08	194.00	14.23
192.45	0.72	192.97	6.70	193.49	13.10	194.01	14.25
192.46	0.79	192.98	6.85	193.50	13.12	194.02	14.27
192.47	0.87	192.99	7.00	193.51	13.14	194.03	14.29
192.48	0.94	193.00	7.15	193.52	13.17	194.04	14.31
192.49	1.02	193.01	7.31	193.53	13.19	194.05	14.33
192.50	1.10	193.02	7.46	193.54	13.21	194.06	14.35
192.51	1.18	193.03	7.61	193.55	13.24	194.07	14.37
192.52	1.26	193.04	7.77	193.56	13.26	194.08	14.40
192.53	1.35	193.05	7.93	193.57	13.28	194.09	14.42
192.54	1.44	193.06	8.08	193.58	13.30	194.10	14.44
192.55	1.53	193.07	8.24	193.59	13.33	194.11	14.46
192.56	1.62	193.08	8.40	193.60	13.35	194.12	14.48
192.57	1.71	193.09	8.56	193.61	13.37	194.13	14.50
192.58	1.81	193.10	8.72	193.62	13.40	194.14	14.52
192.59	1.91	193.11	8.89	193.63	13.42	194.15	14.54
192.60	2.00	193.12	9.05	193.64	13.44	194.16	14.56
192.61	2.11	193.13	9.21	193.65	13.46	194.17	14.58
192.62	2.21	193.14	9.38	193.66	13.49	194.18	14.60
192.63	2.31	193.15	9.54	193.67	13.51	194.19	14.62
192.64	2.42	193.16	9.71	193.68	13.53	194.20	14.64
192.65	2.53	193.17	9.88	193.69	13.55	194.21	14.67
192.66	2.64	193.18	10.05	193.70	13.57	194.22	14.69
192.67	2.75	193.19	10.22	193.71	13.60	194.23	14.71
192.68	2.86	193.20	10.38	193.72	13.62	194.24	14.73
192.69	2.98	193.21	10.56	193.73	13.64	194.25	14.75
192.70	3.09	193.22	10.73	193.74	13.66	194.26	14.89
192.71	3.21	193.23	10.90	193.75	13.69	194.27	15.12
192.72	3.33	193.24	11.07	193.76	13.71	194.28	15.42
192.73	3.45	193.25	11.25	193.77	13.73	194.29	15.77
192.74	3.57	193.26	11.42	193.78	13.75	194.30	16.16
192.75	3.69	193.27	11.60	193.79	13.77	194.31	16.59
192.76	3.81	193.28	11.77	193.80	13.80	194.32	17.06
192.77	3.94	193.29	11.95	193.81	13.82	194.33	17.57
192.78	4.07	193.30	12.13	193.82	13.84	194.34	18.10
192.79	4.19	193.31	12.31	193.83	13.86	194.35	18.67
192.80	4.32	193.32	12.49	193.84	13.88	194.36	19.26
192.81	4.45	193.33	12.67	193.85	13.90	194.37	19.88
192.82	4.59	193.34	12.75	193.86	13.93	194.38	20.53
192.83	4.72	193.35	12.77	193.87	13.95	194.39	21.20
192.84	4.85	193.36	12.80	193.88	13.97	194.40	21.90
192.85	4.99	193.37	12.82	193.89	13.99	194.41	22.62
192.86	5.12	193.38	12.84	193.90	14.01	194.42	23.36
192.87	5.26	193.39	12.87	193.91	14.03	194.43	24.12
192.88	5.40	193.40	12.89	193.92	14.06	194.44	24.91
192.89	5.54	193.41	12.91	193.93	14.08	194.45	25.72

Stage-Discharge for Pond B-34: Basin #34 (continued)

Elevation (feet)	Primary (cfs)
194.46	26.58
194.47	27.48
194.48	28.39
194.49	29.34
194.50	30.30
194.51	31.30
194.52	32.32
194.53	33.36
194.54	34.43
194.55	35.52
194.56	36.64
194.57	37.78
194.58	38.94
194.59	40.13
194.60	41.34
194.61	42.58
194.62	43.84
194.63	45.13
194.64	46.44
194.65	47.78
194.66	49.16
194.67	50.57
194.68	52.01
194.69	53.47
194.70	54.96
194.71	56.48
194.72	58.02
194.73	59.59
194.74	61.18
194.75	62.80
194.76	64.45
194.77	66.12
194.78	67.83
194.79	69.55
194.80	71.31
194.81	73.09
194.82	74.89
194.83	76.73
194.84	78.59
194.85	80.48
194.86	82.12
194.87	83.78
194.88	85.46
194.89	87.14
194.90	88.84
194.91	90.56
194.92	92.28
194.93	94.02
194.94	95.77
194.95	97.54
194.96	99.31
194.97	101.10
194.98	102.91
194.99	104.72
195.00	**106.55**

Stage-Area-Storage for Pond B-34: Basin #34

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
190.30	0	0	190.82	3,261	848
190.31	63	0	190.83	3,324	881
190.32	125	1	190.84	3,387	914
190.33	188	3	190.85	3,449	949
190.34	251	5	190.86	3,512	983
190.35	314	8	190.87	3,575	1,019
190.36	376	11	190.88	3,637	1,055
190.37	439	15	190.89	3,700	1,092
190.38	502	20	190.90	3,763	1,129
190.39	564	25	190.91	3,826	1,167
190.40	627	31	190.92	3,888	1,205
190.41	690	38	190.93	3,951	1,245
190.42	753	45	190.94	4,014	1,284
190.43	815	53	190.95	4,076	1,325
190.44	878	61	190.96	4,139	1,366
190.45	941	71	190.97	4,202	1,408
190.46	1,003	80	190.98	4,265	1,450
190.47	1,066	91	190.99	4,327	1,493
190.48	1,129	102	191.00	4,390	1,536
190.49	1,192	113	191.01	4,400	1,580
190.50	1,254	125	191.02	4,409	1,624
190.51	1,317	138	191.03	4,419	1,669
190.52	1,380	152	191.04	4,428	1,713
190.53	1,442	166	191.05	4,438	1,757
190.54	1,505	181	191.06	4,447	1,802
190.55	1,568	196	191.07	4,457	1,846
190.56	1,631	212	191.08	4,466	1,891
190.57	1,693	229	191.09	4,476	1,935
190.58	1,756	246	191.10	4,485	1,980
190.59	1,819	264	191.11	4,495	2,025
190.60	1,881	282	191.12	4,504	2,070
190.61	1,944	301	191.13	4,514	2,115
190.62	2,007	321	191.14	4,523	2,160
190.63	2,070	341	191.15	4,533	2,206
190.64	2,132	362	191.16	4,542	2,251
190.65	2,195	384	191.17	4,552	2,297
190.66	2,258	406	191.18	4,562	2,342
190.67	2,320	429	191.19	4,571	2,388
190.68	2,383	453	191.20	4,581	2,434
190.69	2,446	477	191.21	4,590	2,479
190.70	2,509	502	191.22	4,600	2,525
190.71	2,571	527	191.23	4,609	2,571
190.72	2,634	553	191.24	4,619	2,618
190.73	2,697	580	191.25	4,628	2,664
190.74	2,759	607	191.26	4,638	2,710
190.75	2,822	635	191.27	4,647	2,757
190.76	2,885	664	191.28	4,657	2,803
190.77	2,948	693	191.29	4,666	2,850
190.78	3,010	722	191.30	4,676	2,896
190.79	3,073	753	191.31	4,685	2,943
190.80	3,136	784	191.32	4,695	2,990
190.81	3,198	816	191.33	4,704	3,037

Stage-Area-Storage for Pond B-34: Basin #34 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
191.34	4,714	3,084	191.86	5,210	5,664
191.35	4,724	3,131	191.87	5,219	5,716
191.36	4,733	3,179	191.88	5,229	5,769
191.37	4,743	3,226	191.89	5,238	5,821
191.38	4,752	3,274	191.90	5,248	5,873
191.39	4,762	3,321	191.91	5,257	5,926
191.40	4,771	3,369	191.92	5,267	5,979
191.41	4,781	3,416	191.93	5,276	6,031
191.42	4,790	3,464	191.94	5,286	6,084
191.43	4,800	3,512	191.95	5,295	6,137
191.44	4,809	3,560	191.96	5,305	6,190
191.45	4,819	3,608	191.97	5,314	6,243
191.46	4,828	3,657	191.98	5,324	6,296
191.47	4,838	3,705	191.99	5,333	6,350
191.48	4,847	3,753	192.00	5,343	6,403
191.49	4,857	3,802	192.01	5,353	6,456
191.50	4,867	3,851	192.02	5,363	6,510
191.51	4,876	3,899	192.03	5,373	6,564
191.52	4,886	3,948	192.04	5,383	6,618
191.53	4,895	3,997	192.05	5,394	6,671
191.54	4,905	4,046	192.06	5,404	6,725
191.55	4,914	4,095	192.07	5,414	6,779
191.56	4,924	4,144	192.08	5,424	6,834
191.57	4,933	4,194	192.09	5,434	6,888
191.58	4,943	4,243	192.10	5,444	6,942
191.59	4,952	4,292	192.11	5,454	6,997
191.60	4,962	4,342	192.12	5,464	7,051
191.61	4,971	4,392	192.13	5,474	7,106
191.62	4,981	4,441	192.14	5,484	7,161
191.63	4,990	4,491	192.15	5,495	7,216
191.64	5,000	4,541	192.16	5,505	7,271
191.65	5,009	4,591	192.17	5,515	7,326
191.66	5,019	4,641	192.18	5,525	7,381
191.67	5,029	4,692	192.19	5,535	7,436
191.68	5,038	4,742	192.20	5,545	7,492
191.69	5,048	4,792	192.21	5,555	7,547
191.70	5,057	4,843	192.22	5,565	7,603
191.71	5,067	4,894	192.23	5,575	7,659
191.72	5,076	4,944	192.24	5,585	7,714
191.73	5,086	4,995	192.25	5,596	7,770
191.74	5,095	5,046	192.26	5,606	7,826
191.75	5,105	5,097	192.27	5,616	7,882
191.76	5,114	5,148	192.28	5,626	7,939
191.77	5,124	5,199	192.29	5,636	7,995
191.78	5,133	5,251	192.30	5,646	8,051
191.79	5,143	5,302	192.31	5,656	8,108
191.80	5,152	5,353	192.32	5,666	8,164
191.81	5,162	5,405	192.33	5,676	8,221
191.82	5,171	5,457	192.34	5,686	8,278
191.83	5,181	5,508	192.35	5,697	8,335
191.84	5,191	5,560	192.36	5,707	8,392
191.85	5,200	5,612	192.37	5,717	8,449

Stage-Area-Storage for Pond B-34: Basin #34 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
192.38	5,727	8,506	192.90	6,252	11,621
192.39	5,737	8,564	192.91	6,262	11,683
192.40	5,747	8,621	192.92	6,272	11,746
192.41	5,757	8,679	192.93	6,282	11,809
192.42	5,767	8,736	192.94	6,292	11,872
192.43	5,777	8,794	192.95	6,303	11,935
192.44	5,787	8,852	192.96	6,313	11,998
192.45	5,798	8,910	192.97	6,323	12,061
192.46	5,808	8,968	192.98	6,333	12,124
192.47	5,818	9,026	192.99	6,343	12,188
192.48	5,828	9,084	193.00	6,353	12,251
192.49	5,838	9,142	193.01	6,364	12,315
192.50	5,848	9,201	193.02	6,374	12,378
192.51	5,858	9,259	193.03	6,385	12,442
192.52	5,868	9,318	193.04	6,396	12,506
192.53	5,878	9,377	193.05	6,406	12,570
192.54	5,888	9,435	193.06	6,417	12,634
192.55	5,899	9,494	193.07	6,428	12,698
192.56	5,909	9,553	193.08	6,438	12,763
192.57	5,919	9,613	193.09	6,449	12,827
192.58	5,929	9,672	193.10	6,460	12,892
192.59	5,939	9,731	193.11	6,470	12,956
192.60	5,949	9,791	193.12	6,481	13,021
192.61	5,959	9,850	193.13	6,492	13,086
192.62	5,969	9,910	193.14	6,502	13,151
192.63	5,979	9,970	193.15	6,513	13,216
192.64	5,989	10,029	193.16	6,524	13,281
192.65	6,000	10,089	193.17	6,534	13,346
192.66	6,010	10,149	193.18	6,545	13,412
192.67	6,020	10,210	193.19	6,556	13,477
192.68	6,030	10,270	193.20	6,566	13,543
192.69	6,040	10,330	193.21	6,577	13,609
192.70	6,050	10,391	193.22	6,588	13,674
192.71	6,060	10,451	193.23	6,598	13,740
192.72	6,070	10,512	193.24	6,609	13,806
192.73	6,080	10,573	193.25	6,620	13,873
192.74	6,090	10,633	193.26	6,630	13,939
192.75	6,101	10,694	193.27	6,641	14,005
192.76	6,111	10,755	193.28	6,651	14,072
192.77	6,121	10,817	193.29	6,662	14,138
192.78	6,131	10,878	193.30	6,673	14,205
192.79	6,141	10,939	193.31	6,683	14,272
192.80	6,151	11,001	193.32	6,694	14,339
192.81	6,161	11,062	193.33	6,705	14,406
192.82	6,171	11,124	193.34	6,715	14,473
192.83	6,181	11,186	193.35	6,726	14,540
192.84	6,191	11,247	193.36	6,737	14,607
192.85	6,202	11,309	193.37	6,747	14,675
192.86	6,212	11,371	193.38	6,758	14,742
192.87	6,222	11,434	193.39	6,769	14,810
192.88	6,232	11,496	193.40	6,779	14,877
192.89	6,242	11,558	193.41	6,790	14,945

Stage-Area-Storage for Pond B-34: Basin #34 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
193.42	6,801	15,013
193.43	6,811	15,081
193.44	6,822	15,150
193.45	6,833	15,218
193.46	6,843	15,286
193.47	6,854	15,355
193.48	6,865	15,423
193.49	6,875	15,492
193.50	6,886	15,561
193.51	6,897	15,630
193.52	6,907	15,699
193.53	6,918	15,768
193.54	6,929	15,837
193.55	6,939	15,906
193.56	6,950	15,976
193.57	6,961	16,045
193.58	6,971	16,115
193.59	6,982	16,185
193.60	6,993	16,255
193.61	7,003	16,325
193.62	7,014	16,395
193.63	7,025	16,465
193.64	7,035	16,535
193.65	7,046	16,606
193.66	7,057	16,676
193.67	7,067	16,747
193.68	7,078	16,817
193.69	7,089	16,888
193.70	7,099	16,959
193.71	7,110	17,030
193.72	7,121	17,101
193.73	7,131	17,173
193.74	7,142	17,244
193.75	7,153	17,316
193.76	7,163	17,387
193.77	7,174	17,459
193.78	7,184	17,531
193.79	7,195	17,603
193.80	7,206	17,675
193.81	7,216	17,747
193.82	7,227	17,819
193.83	7,238	17,891
193.84	7,248	17,964
193.85	7,259	18,036
193.86	7,270	18,109
193.87	7,280	18,182
193.88	7,291	18,254
193.89	7,302	18,327
193.90	7,312	18,400
193.91	7,323	18,474
193.92	7,334	18,547
193.93	7,344	18,620
193.94	7,355	18,694
193.95	7,366	18,767
193.96	7,376	18,841
193.97	7,387	18,915
193.98	7,398	18,989
193.99	7,408	19,063
194.00	7,419	19,137
194.01	7,437	19,211
194.02	7,455	19,286
194.03	7,473	19,360
194.04	7,490	19,435
194.05	7,508	19,510
194.06	7,526	19,585
194.07	7,544	19,661
194.08	7,562	19,736
194.09	7,580	19,812
194.10	7,598	19,888
194.11	7,615	19,964
194.12	7,633	20,040
194.13	7,651	20,117
194.14	7,669	20,193
194.15	7,687	20,270
194.16	7,705	20,347
194.17	7,723	20,424
194.18	7,740	20,501
194.19	7,758	20,579
194.20	7,776	20,657
194.21	7,794	20,734
194.22	7,812	20,812
194.23	7,830	20,891
194.24	7,848	20,969
194.25	7,866	21,048
194.26	7,883	21,126
194.27	7,901	21,205
194.28	7,919	21,284
194.29	7,937	21,364
194.30	7,955	21,443
194.31	7,973	21,523
194.32	7,991	21,603
194.33	8,008	21,683
194.34	8,026	21,763
194.35	8,044	21,843
194.36	8,062	21,924
194.37	8,080	22,004
194.38	8,098	22,085
194.39	8,116	22,166
194.40	8,133	22,247
194.41	8,151	22,329
194.42	8,169	22,411
194.43	8,187	22,492
194.44	8,205	22,574
194.45	8,223	22,656

Stage-Area-Storage for Pond B-34: Basin #34 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
194.46	8,241	22,739
194.47	8,258	22,821
194.48	8,276	22,904
194.49	8,294	22,987
194.50	8,312	23,070
194.51	8,330	23,153
194.52	8,348	23,236
194.53	8,366	23,320
194.54	8,383	23,404
194.55	8,401	23,488
194.56	8,419	23,572
194.57	8,437	23,656
194.58	8,455	23,740
194.59	8,473	23,825
194.60	8,491	23,910
194.61	8,508	23,995
194.62	8,526	24,080
194.63	8,544	24,165
194.64	8,562	24,251
194.65	8,580	24,337
194.66	8,598	24,423
194.67	8,616	24,509
194.68	8,633	24,595
194.69	8,651	24,681
194.70	8,669	24,768
194.71	8,687	24,855
194.72	8,705	24,942
194.73	8,723	25,029
194.74	8,741	25,116
194.75	8,759	25,204
194.76	8,776	25,291
194.77	8,794	25,379
194.78	8,812	25,467
194.79	8,830	25,555
194.80	8,848	25,644
194.81	8,866	25,732
194.82	8,884	25,821
194.83	8,901	25,910
194.84	8,919	25,999
194.85	8,937	26,088
194.86	8,955	26,178
194.87	8,973	26,267
194.88	8,991	26,357
194.89	9,009	26,447
194.90	9,026	26,537
194.91	9,044	26,628
194.92	9,062	26,718
194.93	9,080	26,809
194.94	9,098	26,900
194.95	9,116	26,991
194.96	9,134	27,082
194.97	9,151	27,174
194.98	9,169	27,265
194.99	9,187	27,357
195.00	**9,205**	**27,449**

Summary for Pond B-35: Basin #35

Inflow Area = 1.957 ac, 66.79% Impervious, Inflow Depth = 7.39" for Current 100 yr event
Inflow = 14.15 cfs @ 12.17 hrs, Volume= 1.205 af
Outflow = 10.95 cfs @ 12.25 hrs, Volume= 1.086 af, Atten= 23%, Lag= 5.1 min
Primary = 10.95 cfs @ 12.25 hrs, Volume= 1.086 af
Routed to Link PDA-3 : Proposed Drainage Area #3

Routing by Stor-Ind method, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
Peak Elev= 193.93' @ 12.25 hrs Surf.Area= 6,789 sf Storage= 18,463 cf

Plug-Flow detention time= 212.7 min calculated for 1.086 af (90% of inflow)
Center-of-Mass det. time= 160.9 min (924.1 - 763.1)

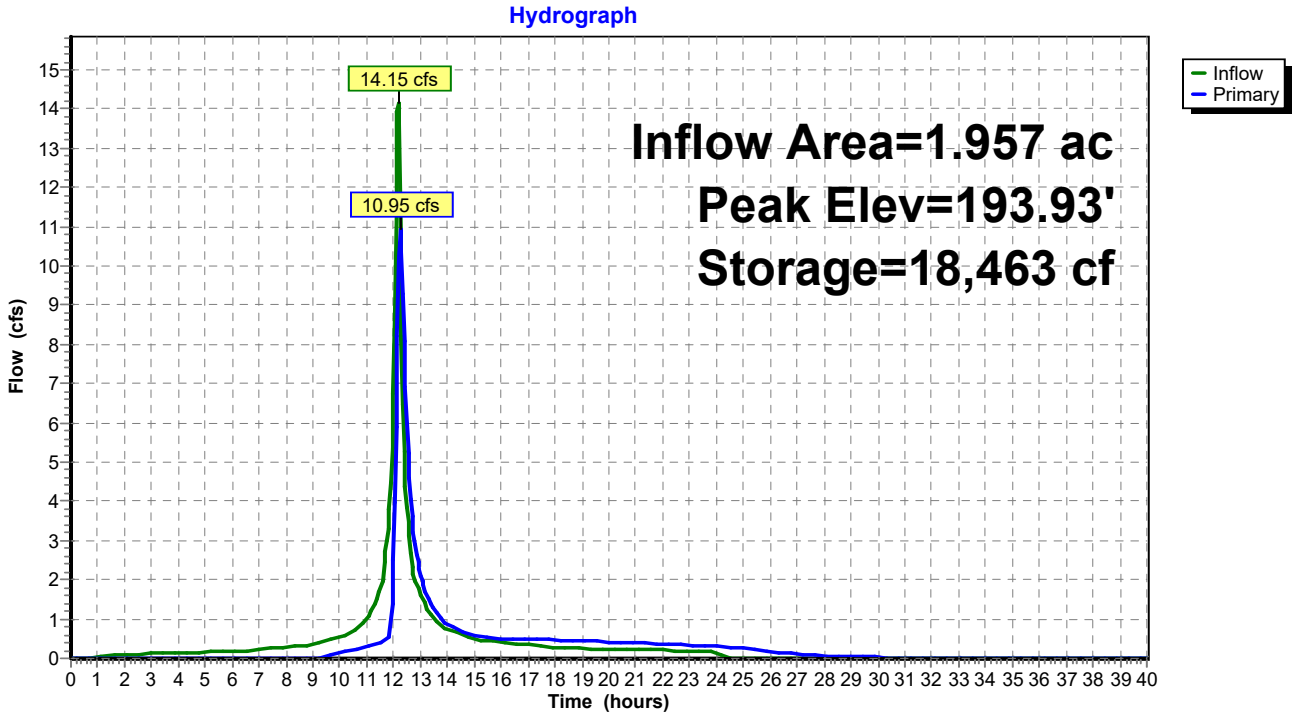
Volume	Invert	Avail.Storage	Storage Description
#1	189.80'	26,431 cf	**Custom Stage Data (Prismatic)** Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
189.80	0	0	0
190.00	2,647	265	265
191.00	3,593	3,120	3,385
192.00	4,618	4,106	7,490
193.00	5,711	5,165	12,655
194.00	6,871	6,291	18,946
195.00	8,099	7,485	26,431

Device	Routing	Invert	Outlet Devices
#1	Primary	189.80'	**18.0" Round Culvert** L= 103.0' Ke= 0.500 Inlet / Outlet Invert= 189.80' / 189.30' S= 0.0049 '/' Cc= 0.900 n= 0.013, Flow Area= 1.77 sf
#2	Device 1	191.44'	**4.0" Vert. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#3	Device 1	193.05'	**4.0' long Sharp-Crested Rectangular Weir** 2 End Contraction(s)
#4	Primary	194.50'	**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=10.90 cfs @ 12.25 hrs HW=193.93' (Free Discharge)
- **1=Culvert** (Passes 10.90 cfs of 13.63 cfs potential flow)
  - **2=Orifice/Grate** (Orifice Controls 0.64 cfs @ 7.33 fps)
  - **3=Sharp-Crested Rectangular Weir** (Weir Controls 10.26 cfs @ 3.06 fps)
- **4=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)

Pond B-35: Basin #35



Stage-Discharge for Pond B-35: Basin #35

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
189.80	0.00	190.32	0.00	190.84	0.00	191.36	0.00
189.81	0.00	190.33	0.00	190.85	0.00	191.37	0.00
189.82	0.00	190.34	0.00	190.86	0.00	191.38	0.00
189.83	0.00	190.35	0.00	190.87	0.00	191.39	0.00
189.84	0.00	190.36	0.00	190.88	0.00	191.40	0.00
189.85	0.00	190.37	0.00	190.89	0.00	191.41	0.00
189.86	0.00	190.38	0.00	190.90	0.00	191.42	0.00
189.87	0.00	190.39	0.00	190.91	0.00	191.43	0.00
189.88	0.00	190.40	0.00	190.92	0.00	191.44	0.00
189.89	0.00	190.41	0.00	190.93	0.00	191.45	0.00
189.90	0.00	190.42	0.00	190.94	0.00	191.46	0.00
189.91	0.00	190.43	0.00	190.95	0.00	191.47	0.00
189.92	0.00	190.44	0.00	190.96	0.00	191.48	0.00
189.93	0.00	190.45	0.00	190.97	0.00	191.49	0.01
189.94	0.00	190.46	0.00	190.98	0.00	191.50	0.01
189.95	0.00	190.47	0.00	190.99	0.00	191.51	0.01
189.96	0.00	190.48	0.00	191.00	0.00	191.52	0.02
189.97	0.00	190.49	0.00	191.01	0.00	191.53	0.02
189.98	0.00	190.50	0.00	191.02	0.00	191.54	0.02
189.99	0.00	190.51	0.00	191.03	0.00	191.55	0.03
190.00	0.00	190.52	0.00	191.04	0.00	191.56	0.03
190.01	0.00	190.53	0.00	191.05	0.00	191.57	0.04
190.02	0.00	190.54	0.00	191.06	0.00	191.58	0.04
190.03	0.00	190.55	0.00	191.07	0.00	191.59	0.05
190.04	0.00	190.56	0.00	191.08	0.00	191.60	0.06
190.05	0.00	190.57	0.00	191.09	0.00	191.61	0.06
190.06	0.00	190.58	0.00	191.10	0.00	191.62	0.07
190.07	0.00	190.59	0.00	191.11	0.00	191.63	0.08
190.08	0.00	190.60	0.00	191.12	0.00	191.64	0.08
190.09	0.00	190.61	0.00	191.13	0.00	191.65	0.09
190.10	0.00	190.62	0.00	191.14	0.00	191.66	0.10
190.11	0.00	190.63	0.00	191.15	0.00	191.67	0.10
190.12	0.00	190.64	0.00	191.16	0.00	191.68	0.11
190.13	0.00	190.65	0.00	191.17	0.00	191.69	0.12
190.14	0.00	190.66	0.00	191.18	0.00	191.70	0.13
190.15	0.00	190.67	0.00	191.19	0.00	191.71	0.13
190.16	0.00	190.68	0.00	191.20	0.00	191.72	0.14
190.17	0.00	190.69	0.00	191.21	0.00	191.73	0.15
190.18	0.00	190.70	0.00	191.22	0.00	191.74	0.15
190.19	0.00	190.71	0.00	191.23	0.00	191.75	0.16
190.20	0.00	190.72	0.00	191.24	0.00	191.76	0.17
190.21	0.00	190.73	0.00	191.25	0.00	191.77	0.17
190.22	0.00	190.74	0.00	191.26	0.00	191.78	0.17
190.23	0.00	190.75	0.00	191.27	0.00	191.79	0.18
190.24	0.00	190.76	0.00	191.28	0.00	191.80	0.18
190.25	0.00	190.77	0.00	191.29	0.00	191.81	0.19
190.26	0.00	190.78	0.00	191.30	0.00	191.82	0.19
190.27	0.00	190.79	0.00	191.31	0.00	191.83	0.20
190.28	0.00	190.80	0.00	191.32	0.00	191.84	0.20
190.29	0.00	190.81	0.00	191.33	0.00	191.85	0.21
190.30	0.00	190.82	0.00	191.34	0.00	191.86	0.21
190.31	0.00	190.83	0.00	191.35	0.00	191.87	0.22

Stage-Discharge for Pond B-35: Basin #35 (continued)

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
191.88	0.22	192.40	0.37	192.92	0.48	193.44	3.69
191.89	0.22	192.41	0.38	192.93	0.48	193.45	3.81
191.90	0.23	192.42	0.38	192.94	0.49	193.46	3.94
191.91	0.23	192.43	0.38	192.95	0.49	193.47	4.06
191.92	0.24	192.44	0.38	192.96	0.49	193.48	4.18
191.93	0.24	192.45	0.39	192.97	0.49	193.49	4.31
191.94	0.24	192.46	0.39	192.98	0.49	193.50	4.44
191.95	0.25	192.47	0.39	192.99	0.49	193.51	4.57
191.96	0.25	192.48	0.39	193.00	0.50	193.52	4.70
191.97	0.25	192.49	0.39	193.01	0.50	193.53	4.83
191.98	0.26	192.50	0.40	193.02	0.50	193.54	4.96
191.99	0.26	192.51	0.40	193.03	0.50	193.55	5.09
192.00	0.26	192.52	0.40	193.04	0.50	193.56	5.23
192.01	0.27	192.53	0.40	193.05	0.50	193.57	5.37
192.02	0.27	192.54	0.41	193.06	0.52	193.58	5.50
192.03	0.27	192.55	0.41	193.07	0.55	193.59	5.64
192.04	0.28	192.56	0.41	193.08	0.58	193.60	5.78
192.05	0.28	192.57	0.41	193.09	0.62	193.61	5.92
192.06	0.28	192.58	0.41	193.10	0.66	193.62	6.06
192.07	0.29	192.59	0.42	193.11	0.71	193.63	6.21
192.08	0.29	192.60	0.42	193.12	0.76	193.64	6.35
192.09	0.29	192.61	0.42	193.13	0.81	193.65	6.50
192.10	0.30	192.62	0.42	193.14	0.87	193.66	6.64
192.11	0.30	192.63	0.43	193.15	0.93	193.67	6.79
192.12	0.30	192.64	0.43	193.16	1.00	193.68	6.94
192.13	0.30	192.65	0.43	193.17	1.07	193.69	7.09
192.14	0.31	192.66	0.43	193.18	1.14	193.70	7.24
192.15	0.31	192.67	0.43	193.19	1.21	193.71	7.39
192.16	0.31	192.68	0.44	193.20	1.28	193.72	7.54
192.17	0.32	192.69	0.44	193.21	1.36	193.73	7.70
192.18	0.32	192.70	0.44	193.22	1.44	193.74	7.85
192.19	0.32	192.71	0.44	193.23	1.53	193.75	8.01
192.20	0.32	192.72	0.44	193.24	1.61	193.76	8.16
192.21	0.33	192.73	0.45	193.25	1.70	193.77	8.32
192.22	0.33	192.74	0.45	193.26	1.79	193.78	8.48
192.23	0.33	192.75	0.45	193.27	1.88	193.79	8.64
192.24	0.33	192.76	0.45	193.28	1.97	193.80	8.80
192.25	0.34	192.77	0.45	193.29	2.06	193.81	8.96
192.26	0.34	192.78	0.46	193.30	2.16	193.82	9.12
192.27	0.34	192.79	0.46	193.31	2.26	193.83	9.29
192.28	0.34	192.80	0.46	193.32	2.36	193.84	9.45
192.29	0.35	192.81	0.46	193.33	2.46	193.85	9.61
192.30	0.35	192.82	0.46	193.34	2.57	193.86	9.78
192.31	0.35	192.83	0.46	193.35	2.67	193.87	9.95
192.32	0.35	192.84	0.47	193.36	2.78	193.88	10.11
192.33	0.36	192.85	0.47	193.37	2.89	193.89	10.28
192.34	0.36	192.86	0.47	193.38	3.00	193.90	10.45
192.35	0.36	192.87	0.47	193.39	3.11	193.91	10.62
192.36	0.36	192.88	0.47	193.40	3.22	193.92	10.79
192.37	0.37	192.89	0.48	193.41	3.34	193.93	10.96
192.38	0.37	192.90	0.48	193.42	3.46	193.94	11.14
192.39	0.37	192.91	0.48	193.43	3.57	193.95	11.31

Stage-Discharge for Pond B-35: Basin #35 (continued)

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
193.96	11.48	194.48	14.79	195.00	**62.86**
193.97	11.66	194.49	14.81		
193.98	11.83	194.50	14.83		
193.99	12.01	194.51	14.97		
194.00	12.19	194.52	15.20		
194.01	12.36	194.53	15.50		
194.02	12.54	194.54	15.85		
194.03	12.72	194.55	16.24		
194.04	12.90	194.56	16.67		
194.05	13.08	194.57	17.14		
194.06	13.26	194.58	17.65		
194.07	13.45	194.59	18.18		
194.08	13.63	194.60	18.75		
194.09	13.81	194.61	19.34		
194.10	14.00	194.62	19.96		
194.11	14.03	194.63	20.61		
194.12	14.05	194.64	21.28		
194.13	14.07	194.65	21.97		
194.14	14.09	194.66	22.69		
194.15	14.11	194.67	23.43		
194.16	14.13	194.68	24.20		
194.17	14.15	194.69	24.98		
194.18	14.17	194.70	25.79		
194.19	14.19	194.71	26.66		
194.20	14.22	194.72	27.55		
194.21	14.24	194.73	28.47		
194.22	14.26	194.74	29.41		
194.23	14.28	194.75	30.38		
194.24	14.30	194.76	31.37		
194.25	14.32	194.77	32.39		
194.26	14.34	194.78	33.43		
194.27	14.36	194.79	34.50		
194.28	14.38	194.80	35.59		
194.29	14.40	194.81	36.70		
194.30	14.42	194.82	37.84		
194.31	14.44	194.83	39.01		
194.32	14.46	194.84	40.20		
194.33	14.48	194.85	41.41		
194.34	14.51	194.86	42.65		
194.35	14.53	194.87	43.91		
194.36	14.55	194.88	45.20		
194.37	14.57	194.89	46.51		
194.38	14.59	194.90	47.84		
194.39	14.61	194.91	49.23		
194.40	14.63	194.92	50.64		
194.41	14.65	194.93	52.07		
194.42	14.67	194.94	53.54		
194.43	14.69	194.95	55.02		
194.44	14.71	194.96	56.54		
194.45	14.73	194.97	58.08		
194.46	14.75	194.98	59.65		
194.47	14.77	194.99	61.24		

Stage-Area-Storage for Pond B-35: Basin #35

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
189.80	0	0
189.81	132	1
189.82	265	3
189.83	397	6
189.84	529	11
189.85	662	17
189.86	794	24
189.87	926	32
189.88	1,059	42
189.89	1,191	54
189.90	1,324	66
189.91	1,456	80
189.92	1,588	95
189.93	1,721	112
189.94	1,853	130
189.95	1,985	149
189.96	2,118	169
189.97	2,250	191
189.98	2,382	214
189.99	2,515	239
190.00	2,647	265
190.01	2,656	291
190.02	2,666	318
190.03	2,675	345
190.04	2,685	371
190.05	2,694	398
190.06	2,704	425
190.07	2,713	452
190.08	2,723	479
190.09	2,732	507
190.10	2,742	534
190.11	2,751	562
190.12	2,761	589
190.13	2,770	617
190.14	2,779	645
190.15	2,789	672
190.16	2,798	700
190.17	2,808	728
190.18	2,817	756
190.19	2,827	785
190.20	2,836	813
190.21	2,846	841
190.22	2,855	870
190.23	2,865	899
190.24	2,874	927
190.25	2,884	956
190.26	2,893	985
190.27	2,902	1,014
190.28	2,912	1,043
190.29	2,921	1,072
190.30	2,931	1,101
190.31	2,940	1,131
190.32	2,950	1,160
190.33	2,959	1,190
190.34	2,969	1,219
190.35	2,978	1,249
190.36	2,988	1,279
190.37	2,997	1,309
190.38	3,006	1,339
190.39	3,016	1,369
190.40	3,025	1,399
190.41	3,035	1,429
190.42	3,044	1,460
190.43	3,054	1,490
190.44	3,063	1,521
190.45	3,073	1,552
190.46	3,082	1,582
190.47	3,092	1,613
190.48	3,101	1,644
190.49	3,111	1,675
190.50	3,120	1,706
190.51	3,129	1,738
190.52	3,139	1,769
190.53	3,148	1,800
190.54	3,158	1,832
190.55	3,167	1,864
190.56	3,177	1,895
190.57	3,186	1,927
190.58	3,196	1,959
190.59	3,205	1,991
190.60	3,215	2,023
190.61	3,224	2,055
190.62	3,234	2,088
190.63	3,243	2,120
190.64	3,252	2,153
190.65	3,262	2,185
190.66	3,271	2,218
190.67	3,281	2,251
190.68	3,290	2,283
190.69	3,300	2,316
190.70	3,309	2,349
190.71	3,319	2,383
190.72	3,328	2,416
190.73	3,338	2,449
190.74	3,347	2,482
190.75	3,357	2,516
190.76	3,366	2,550
190.77	3,375	2,583
190.78	3,385	2,617
190.79	3,394	2,651
190.80	3,404	2,685
190.81	3,413	2,719
190.82	3,423	2,753
190.83	3,432	2,788

Stage-Area-Storage for Pond B-35: Basin #35 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
190.84	3,442	2,822	191.36	3,962	4,745
190.85	3,451	2,856	191.37	3,972	4,784
190.86	3,461	2,891	191.38	3,983	4,824
190.87	3,470	2,926	191.39	3,993	4,864
190.88	3,479	2,960	191.40	4,003	4,904
190.89	3,489	2,995	191.41	4,013	4,944
190.90	3,498	3,030	191.42	4,024	4,984
190.91	3,508	3,065	191.43	4,034	5,024
190.92	3,517	3,100	191.44	4,044	5,065
190.93	3,527	3,136	191.45	4,054	5,105
190.94	3,536	3,171	191.46	4,065	5,146
190.95	3,546	3,206	191.47	4,075	5,187
190.96	3,555	3,242	191.48	4,085	5,227
190.97	3,565	3,277	191.49	4,095	5,268
190.98	3,574	3,313	191.50	4,106	5,309
190.99	3,584	3,349	191.51	4,116	5,350
191.00	3,593	3,385	191.52	4,126	5,392
191.01	3,603	3,421	191.53	4,136	5,433
191.02	3,614	3,457	191.54	4,147	5,474
191.03	3,624	3,493	191.55	4,157	5,516
191.04	3,634	3,529	191.56	4,167	5,557
191.05	3,644	3,566	191.57	4,177	5,599
191.06	3,655	3,602	191.58	4,188	5,641
191.07	3,665	3,639	191.59	4,198	5,683
191.08	3,675	3,675	191.60	4,208	5,725
191.09	3,685	3,712	191.61	4,218	5,767
191.10	3,696	3,749	191.62	4,229	5,809
191.11	3,706	3,786	191.63	4,239	5,852
191.12	3,716	3,823	191.64	4,249	5,894
191.13	3,726	3,860	191.65	4,259	5,937
191.14	3,737	3,898	191.66	4,270	5,979
191.15	3,747	3,935	191.67	4,280	6,022
191.16	3,757	3,973	191.68	4,290	6,065
191.17	3,767	4,010	191.69	4,300	6,108
191.18	3,778	4,048	191.70	4,311	6,151
191.19	3,788	4,086	191.71	4,321	6,194
191.20	3,798	4,124	191.72	4,331	6,237
191.21	3,808	4,162	191.73	4,341	6,281
191.22	3,818	4,200	191.74	4,352	6,324
191.23	3,829	4,238	191.75	4,362	6,368
191.24	3,839	4,277	191.76	4,372	6,411
191.25	3,849	4,315	191.77	4,382	6,455
191.26	3,860	4,354	191.78	4,393	6,499
191.27	3,870	4,392	191.79	4,403	6,543
191.28	3,880	4,431	191.80	4,413	6,587
191.29	3,890	4,470	191.81	4,423	6,631
191.30	3,901	4,509	191.82	4,434	6,676
191.31	3,911	4,548	191.83	4,444	6,720
191.32	3,921	4,587	191.84	4,454	6,764
191.33	3,931	4,626	191.85	4,464	6,809
191.34	3,942	4,666	191.86	4,475	6,854
191.35	3,952	4,705	191.87	4,485	6,899

Stage-Area-Storage for Pond B-35: Basin #35 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
191.88	4,495	6,943
191.89	4,505	6,988
191.90	4,516	7,034
191.91	4,526	7,079
191.92	4,536	7,124
191.93	4,546	7,169
191.94	4,556	7,215
191.95	4,567	7,261
191.96	4,577	7,306
191.97	4,587	7,352
191.98	4,598	7,398
191.99	4,608	7,444
192.00	4,618	7,490
192.01	4,629	7,536
192.02	4,640	7,583
192.03	4,651	7,629
192.04	4,662	7,676
192.05	4,673	7,722
192.06	4,684	7,769
192.07	4,695	7,816
192.08	4,705	7,863
192.09	4,716	7,910
192.10	4,727	7,957
192.11	4,738	8,005
192.12	4,749	8,052
192.13	4,760	8,100
192.14	4,771	8,147
192.15	4,782	8,195
192.16	4,793	8,243
192.17	4,804	8,291
192.18	4,815	8,339
192.19	4,826	8,387
192.20	4,837	8,436
192.21	4,848	8,484
192.22	4,858	8,533
192.23	4,869	8,581
192.24	4,880	8,630
192.25	4,891	8,679
192.26	4,902	8,728
192.27	4,913	8,777
192.28	4,924	8,826
192.29	4,935	8,875
192.30	4,946	8,925
192.31	4,957	8,974
192.32	4,968	9,024
192.33	4,979	9,074
192.34	4,990	9,123
192.35	5,001	9,173
192.36	5,011	9,224
192.37	5,022	9,274
192.38	5,033	9,324
192.39	5,044	9,374
192.40	5,055	9,425
192.41	5,066	9,475
192.42	5,077	9,526
192.43	5,088	9,577
192.44	5,099	9,628
192.45	5,110	9,679
192.46	5,121	9,730
192.47	5,132	9,781
192.48	5,143	9,833
192.49	5,154	9,884
192.50	5,165	9,936
192.51	5,175	9,988
192.52	5,186	10,039
192.53	5,197	10,091
192.54	5,208	10,143
192.55	5,219	10,195
192.56	5,230	10,248
192.57	5,241	10,300
192.58	5,252	10,352
192.59	5,263	10,405
192.60	5,274	10,458
192.61	5,285	10,511
192.62	5,296	10,563
192.63	5,307	10,616
192.64	5,318	10,670
192.65	5,328	10,723
192.66	5,339	10,776
192.67	5,350	10,830
192.68	5,361	10,883
192.69	5,372	10,937
192.70	5,383	10,991
192.71	5,394	11,044
192.72	5,405	11,098
192.73	5,416	11,153
192.74	5,427	11,207
192.75	5,438	11,261
192.76	5,449	11,316
192.77	5,460	11,370
192.78	5,471	11,425
192.79	5,481	11,479
192.80	5,492	11,534
192.81	5,503	11,589
192.82	5,514	11,644
192.83	5,525	11,700
192.84	5,536	11,755
192.85	5,547	11,810
192.86	5,558	11,866
192.87	5,569	11,922
192.88	5,580	11,977
192.89	5,591	12,033
192.90	5,602	12,089
192.91	5,613	12,145

Stage-Area-Storage for Pond B-35: Basin #35 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
192.92	5,624	12,201	193.44	6,221	15,280
192.93	5,634	12,258	193.45	6,233	15,342
192.94	5,645	12,314	193.46	6,245	15,404
192.95	5,656	12,371	193.47	6,256	15,467
192.96	5,667	12,427	193.48	6,268	15,530
192.97	5,678	12,484	193.49	6,279	15,592
192.98	5,689	12,541	193.50	6,291	15,655
192.99	5,700	12,598	193.51	6,303	15,718
193.00	5,711	12,655	193.52	6,314	15,781
193.01	5,723	12,712	193.53	6,326	15,844
193.02	5,734	12,769	193.54	6,337	15,908
193.03	5,746	12,827	193.55	6,349	15,971
193.04	5,757	12,884	193.56	6,361	16,035
193.05	5,769	12,942	193.57	6,372	16,098
193.06	5,781	12,999	193.58	6,384	16,162
193.07	5,792	13,057	193.59	6,395	16,226
193.08	5,804	13,115	193.60	6,407	16,290
193.09	5,815	13,173	193.61	6,419	16,354
193.10	5,827	13,232	193.62	6,430	16,418
193.11	5,839	13,290	193.63	6,442	16,483
193.12	5,850	13,348	193.64	6,453	16,547
193.13	5,862	13,407	193.65	6,465	16,612
193.14	5,873	13,466	193.66	6,477	16,677
193.15	5,885	13,524	193.67	6,488	16,741
193.16	5,897	13,583	193.68	6,500	16,806
193.17	5,908	13,642	193.69	6,511	16,871
193.18	5,920	13,701	193.70	6,523	16,937
193.19	5,931	13,761	193.71	6,535	17,002
193.20	5,943	13,820	193.72	6,546	17,067
193.21	5,955	13,880	193.73	6,558	17,133
193.22	5,966	13,939	193.74	6,569	17,198
193.23	5,978	13,999	193.75	6,581	17,264
193.24	5,989	14,059	193.76	6,593	17,330
193.25	6,001	14,119	193.77	6,604	17,396
193.26	6,013	14,179	193.78	6,616	17,462
193.27	6,024	14,239	193.79	6,627	17,528
193.28	6,036	14,299	193.80	6,639	17,595
193.29	6,047	14,360	193.81	6,651	17,661
193.30	6,059	14,420	193.82	6,662	17,728
193.31	6,071	14,481	193.83	6,674	17,794
193.32	6,082	14,542	193.84	6,685	17,861
193.33	6,094	14,602	193.85	6,697	17,928
193.34	6,105	14,663	193.86	6,709	17,995
193.35	6,117	14,725	193.87	6,720	18,062
193.36	6,129	14,786	193.88	6,732	18,130
193.37	6,140	14,847	193.89	6,743	18,197
193.38	6,152	14,909	193.90	6,755	18,264
193.39	6,163	14,970	193.91	6,767	18,332
193.40	6,175	15,032	193.92	6,778	18,400
193.41	6,187	15,094	193.93	6,790	18,468
193.42	6,198	15,156	193.94	6,801	18,536
193.43	6,210	15,218	193.95	6,813	18,604

Stage-Area-Storage for Pond B-35: Basin #35 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
193.96	6,825	18,672	194.48	7,460	22,385
193.97	6,836	18,740	194.49	7,473	22,460
193.98	6,848	18,809	194.50	7,485	22,535
193.99	6,859	18,877	194.51	7,497	22,610
194.00	6,871	18,946	194.52	7,510	22,685
194.01	6,883	19,014	194.53	7,522	22,760
194.02	6,896	19,083	194.54	7,534	22,835
194.03	6,908	19,152	194.55	7,546	22,910
194.04	6,920	19,222	194.56	7,559	22,986
194.05	6,932	19,291	194.57	7,571	23,062
194.06	6,945	19,360	194.58	7,583	23,137
194.07	6,957	19,430	194.59	7,596	23,213
194.08	6,969	19,499	194.60	7,608	23,289
194.09	6,982	19,569	194.61	7,620	23,365
194.10	6,994	19,639	194.62	7,632	23,442
194.11	7,006	19,709	194.63	7,645	23,518
194.12	7,018	19,779	194.64	7,657	23,595
194.13	7,031	19,849	194.65	7,669	23,671
194.14	7,043	19,920	194.66	7,681	23,748
194.15	7,055	19,990	194.67	7,694	23,825
194.16	7,067	20,061	194.68	7,706	23,902
194.17	7,080	20,132	194.69	7,718	23,979
194.18	7,092	20,202	194.70	7,731	24,056
194.19	7,104	20,273	194.71	7,743	24,134
194.20	7,117	20,344	194.72	7,755	24,211
194.21	7,129	20,416	194.73	7,767	24,289
194.22	7,141	20,487	194.74	7,780	24,366
194.23	7,153	20,559	194.75	7,792	24,444
194.24	7,166	20,630	194.76	7,804	24,522
194.25	7,178	20,702	194.77	7,817	24,600
194.26	7,190	20,774	194.78	7,829	24,679
194.27	7,203	20,846	194.79	7,841	24,757
194.28	7,215	20,918	194.80	7,853	24,835
194.29	7,227	20,990	194.81	7,866	24,914
194.30	7,239	21,062	194.82	7,878	24,993
194.31	7,252	21,135	194.83	7,890	25,072
194.32	7,264	21,207	194.84	7,903	25,151
194.33	7,276	21,280	194.85	7,915	25,230
194.34	7,289	21,353	194.86	7,927	25,309
194.35	7,301	21,426	194.87	7,939	25,388
194.36	7,313	21,499	194.88	7,952	25,468
194.37	7,325	21,572	194.89	7,964	25,547
194.38	7,338	21,645	194.90	7,976	25,627
194.39	7,350	21,719	194.91	7,988	25,707
194.40	7,362	21,792	194.92	8,001	25,787
194.41	7,374	21,866	194.93	8,013	25,867
194.42	7,387	21,940	194.94	8,025	25,947
194.43	7,399	22,014	194.95	8,038	26,027
194.44	7,411	22,088	194.96	8,050	26,108
194.45	7,424	22,162	194.97	8,062	26,188
194.46	7,436	22,236	194.98	8,074	26,269
194.47	7,448	22,311	194.99	8,087	26,350

Stage-Area-Storage for Pond B-35: Basin #35 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
195.00	**8,099**	**26,431**

Summary for Pond B-36A: Basin #36A

Inflow Area = 2.377 ac, 40.60% Impervious, Inflow Depth = 6.63" for Current 100 yr event
Inflow = 16.02 cfs @ 12.17 hrs, Volume= 1.314 af
Outflow = 14.18 cfs @ 12.23 hrs, Volume= 1.220 af, Atten= 11%, Lag= 3.3 min
Primary = 14.18 cfs @ 12.23 hrs, Volume= 1.220 af
Routed to Link PDA-3 : Proposed Drainage Area #3

Routing by Stor-Ind method, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
Peak Elev= 195.00' @ 12.23 hrs Surf.Area= 5,222 sf Storage= 15,477 cf

Plug-Flow detention time= 158.7 min calculated for 1.219 af (93% of inflow)
Center-of-Mass det. time= 120.2 min (901.7 - 781.5)

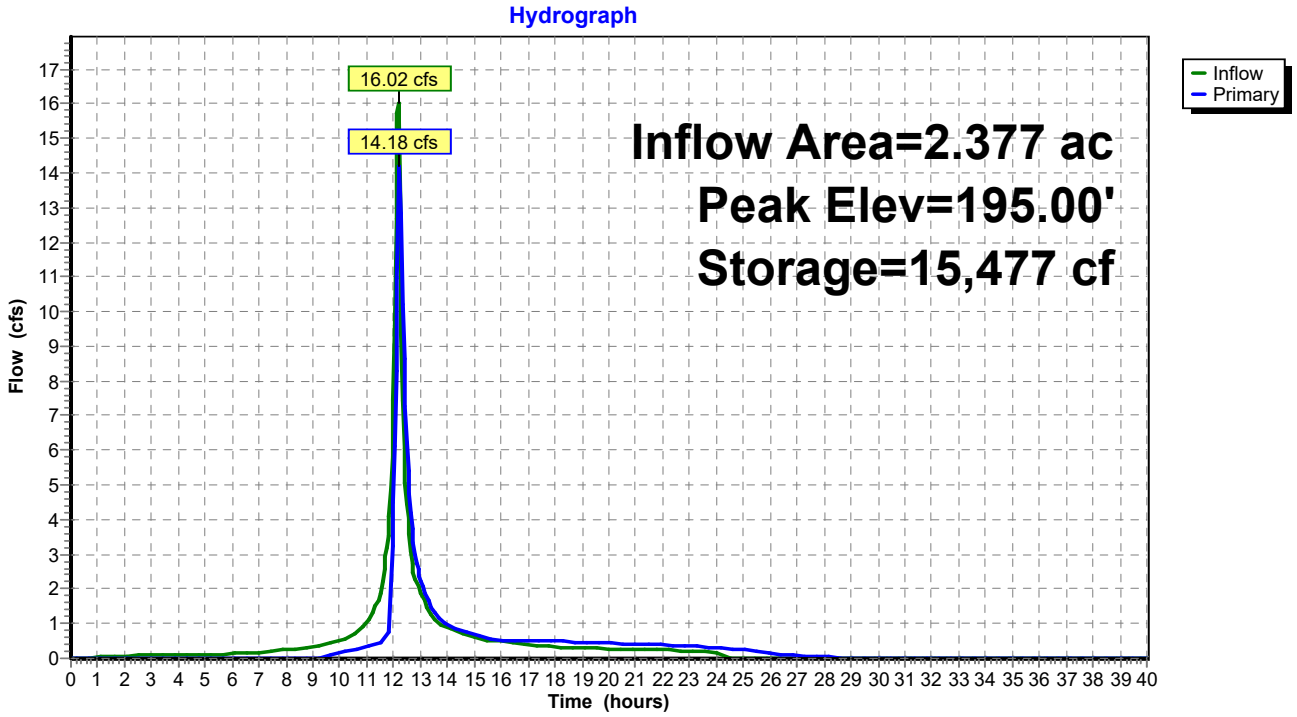
Volume	Invert	Avail.Storage	Storage Description
#1	190.50'	16,844 cf	**Custom Stage Data (Prismatic)** Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
190.50	0	0	0
191.00	2,366	592	592
192.00	2,995	2,681	3,272
193.00	3,681	3,338	6,610
194.00	4,424	4,053	10,663
195.00	5,223	4,824	15,486
195.25	5,644	1,358	16,844

Device	Routing	Invert	Outlet Devices
#1	Primary	190.50'	**18.0" Round Culvert** L= 82.0' Ke= 0.500 Inlet / Outlet Invert= 190.50' / 190.10' S= 0.0049 '/' Cc= 0.900 n= 0.013, Flow Area= 1.77 sf
#2	Device 1	192.24'	**4.0" Vert. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#3	Device 1	194.00'	**4.0' long Sharp-Crested Rectangular Weir** 2 End Contraction(s)
#4	Primary	194.95'	**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=13.84 cfs @ 12.23 hrs HW=194.99' (Free Discharge)
- **1=Culvert** (Passes 12.92 cfs of 15.08 cfs potential flow)
  - **2=Orifice/Grate** (Orifice Controls 0.68 cfs @ 7.74 fps)
  - **3=Sharp-Crested Rectangular Weir** (Weir Controls 12.24 cfs @ 3.25 fps)
- **4=Broad-Crested Rectangular Weir** (Weir Controls 0.93 cfs @ 0.47 fps)

Pond B-36A: Basin #36A



Stage-Discharge for Pond B-36A: Basin #36A

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
190.50	0.00	191.02	0.00	191.54	0.00	192.06	0.00
190.51	0.00	191.03	0.00	191.55	0.00	192.07	0.00
190.52	0.00	191.04	0.00	191.56	0.00	192.08	0.00
190.53	0.00	191.05	0.00	191.57	0.00	192.09	0.00
190.54	0.00	191.06	0.00	191.58	0.00	192.10	0.00
190.55	0.00	191.07	0.00	191.59	0.00	192.11	0.00
190.56	0.00	191.08	0.00	191.60	0.00	192.12	0.00
190.57	0.00	191.09	0.00	191.61	0.00	192.13	0.00
190.58	0.00	191.10	0.00	191.62	0.00	192.14	0.00
190.59	0.00	191.11	0.00	191.63	0.00	192.15	0.00
190.60	0.00	191.12	0.00	191.64	0.00	192.16	0.00
190.61	0.00	191.13	0.00	191.65	0.00	192.17	0.00
190.62	0.00	191.14	0.00	191.66	0.00	192.18	0.00
190.63	0.00	191.15	0.00	191.67	0.00	192.19	0.00
190.64	0.00	191.16	0.00	191.68	0.00	192.20	0.00
190.65	0.00	191.17	0.00	191.69	0.00	192.21	0.00
190.66	0.00	191.18	0.00	191.70	0.00	192.22	0.00
190.67	0.00	191.19	0.00	191.71	0.00	192.23	0.00
190.68	0.00	191.20	0.00	191.72	0.00	192.24	0.00
190.69	0.00	191.21	0.00	191.73	0.00	192.25	0.00
190.70	0.00	191.22	0.00	191.74	0.00	192.26	0.00
190.71	0.00	191.23	0.00	191.75	0.00	192.27	0.00
190.72	0.00	191.24	0.00	191.76	0.00	192.28	0.00
190.73	0.00	191.25	0.00	191.77	0.00	192.29	0.01
190.74	0.00	191.26	0.00	191.78	0.00	192.30	0.01
190.75	0.00	191.27	0.00	191.79	0.00	192.31	0.01
190.76	0.00	191.28	0.00	191.80	0.00	192.32	0.02
190.77	0.00	191.29	0.00	191.81	0.00	192.33	0.02
190.78	0.00	191.30	0.00	191.82	0.00	192.34	0.02
190.79	0.00	191.31	0.00	191.83	0.00	192.35	0.03
190.80	0.00	191.32	0.00	191.84	0.00	192.36	0.03
190.81	0.00	191.33	0.00	191.85	0.00	192.37	0.04
190.82	0.00	191.34	0.00	191.86	0.00	192.38	0.04
190.83	0.00	191.35	0.00	191.87	0.00	192.39	0.05
190.84	0.00	191.36	0.00	191.88	0.00	192.40	0.06
190.85	0.00	191.37	0.00	191.89	0.00	192.41	0.06
190.86	0.00	191.38	0.00	191.90	0.00	192.42	0.07
190.87	0.00	191.39	0.00	191.91	0.00	192.43	0.08
190.88	0.00	191.40	0.00	191.92	0.00	192.44	0.08
190.89	0.00	191.41	0.00	191.93	0.00	192.45	0.09
190.90	0.00	191.42	0.00	191.94	0.00	192.46	0.10
190.91	0.00	191.43	0.00	191.95	0.00	192.47	0.10
190.92	0.00	191.44	0.00	191.96	0.00	192.48	0.11
190.93	0.00	191.45	0.00	191.97	0.00	192.49	0.12
190.94	0.00	191.46	0.00	191.98	0.00	192.50	0.13
190.95	0.00	191.47	0.00	191.99	0.00	192.51	0.13
190.96	0.00	191.48	0.00	192.00	0.00	192.52	0.14
190.97	0.00	191.49	0.00	192.01	0.00	192.53	0.15
190.98	0.00	191.50	0.00	192.02	0.00	192.54	0.15
190.99	0.00	191.51	0.00	192.03	0.00	192.55	0.16
191.00	0.00	191.52	0.00	192.04	0.00	192.56	0.17
191.01	0.00	191.53	0.00	192.05	0.00	192.57	0.17

Stage-Discharge for Pond B-36A: Basin #36A (continued)

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
192.58	0.17	193.10	0.35	193.62	0.46	194.14	1.23
192.59	0.18	193.11	0.35	193.63	0.46	194.15	1.31
192.60	0.18	193.12	0.35	193.64	0.47	194.16	1.39
192.61	0.19	193.13	0.36	193.65	0.47	194.17	1.47
192.62	0.19	193.14	0.36	193.66	0.47	194.18	1.55
192.63	0.20	193.15	0.36	193.67	0.47	194.19	1.63
192.64	0.20	193.16	0.36	193.68	0.47	194.20	1.72
192.65	0.21	193.17	0.37	193.69	0.48	194.21	1.81
192.66	0.21	193.18	0.37	193.70	0.48	194.22	1.90
192.67	0.22	193.19	0.37	193.71	0.48	194.23	1.99
192.68	0.22	193.20	0.37	193.72	0.48	194.24	2.09
192.69	0.22	193.21	0.38	193.73	0.48	194.25	2.19
192.70	0.23	193.22	0.38	193.74	0.49	194.26	2.28
192.71	0.23	193.23	0.38	193.75	0.49	194.27	2.38
192.72	0.24	193.24	0.38	193.76	0.49	194.28	2.49
192.73	0.24	193.25	0.39	193.77	0.49	194.29	2.59
192.74	0.24	193.26	0.39	193.78	0.49	194.30	2.70
192.75	0.25	193.27	0.39	193.79	0.49	194.31	2.80
192.76	0.25	193.28	0.39	193.80	0.50	194.32	2.91
192.77	0.25	193.29	0.39	193.81	0.50	194.33	3.02
192.78	0.26	193.30	0.40	193.82	0.50	194.34	3.13
192.79	0.26	193.31	0.40	193.83	0.50	194.35	3.25
192.80	0.26	193.32	0.40	193.84	0.50	194.36	3.36
192.81	0.27	193.33	0.40	193.85	0.50	194.37	3.48
192.82	0.27	193.34	0.41	193.86	0.51	194.38	3.60
192.83	0.27	193.35	0.41	193.87	0.51	194.39	3.72
192.84	0.28	193.36	0.41	193.88	0.51	194.40	3.84
192.85	0.28	193.37	0.41	193.89	0.51	194.41	3.96
192.86	0.28	193.38	0.41	193.90	0.51	194.42	4.08
192.87	0.29	193.39	0.42	193.91	0.52	194.43	4.21
192.88	0.29	193.40	0.42	193.92	0.52	194.44	4.33
192.89	0.29	193.41	0.42	193.93	0.52	194.45	4.46
192.90	0.30	193.42	0.42	193.94	0.52	194.46	4.59
192.91	0.30	193.43	0.43	193.95	0.52	194.47	4.72
192.92	0.30	193.44	0.43	193.96	0.52	194.48	4.85
192.93	0.30	193.45	0.43	193.97	0.53	194.49	4.98
192.94	0.31	193.46	0.43	193.98	0.53	194.50	5.12
192.95	0.31	193.47	0.43	193.99	0.53	194.51	5.25
192.96	0.31	193.48	0.44	194.00	0.53	194.52	5.39
192.97	0.32	193.49	0.44	194.01	0.55	194.53	5.53
192.98	0.32	193.50	0.44	194.02	0.57	194.54	5.66
192.99	0.32	193.51	0.44	194.03	0.60	194.55	5.80
193.00	0.32	193.52	0.44	194.04	0.64	194.56	5.94
193.01	0.33	193.53	0.45	194.05	0.68	194.57	6.09
193.02	0.33	193.54	0.45	194.06	0.73	194.58	6.23
193.03	0.33	193.55	0.45	194.07	0.78	194.59	6.37
193.04	0.33	193.56	0.45	194.08	0.84	194.60	6.52
193.05	0.34	193.57	0.45	194.09	0.90	194.61	6.67
193.06	0.34	193.58	0.46	194.10	0.96	194.62	6.81
193.07	0.34	193.59	0.46	194.11	1.02	194.63	6.96
193.08	0.34	193.60	0.46	194.12	1.09	194.64	7.11
193.09	0.35	193.61	0.46	194.13	1.16	194.65	7.26

Stage-Discharge for Pond B-36A: Basin #36A (continued)

Elevation (feet)	Primary (cfs)
194.66	7.41
194.67	7.57
194.68	7.72
194.69	7.87
194.70	8.03
194.71	8.19
194.72	8.34
194.73	8.50
194.74	8.66
194.75	8.82
194.76	8.98
194.77	9.14
194.78	9.31
194.79	9.47
194.80	9.63
194.81	9.80
194.82	9.97
194.83	10.13
194.84	10.30
194.85	10.47
194.86	10.64
194.87	10.81
194.88	10.98
194.89	11.16
194.90	11.33
194.91	11.50
194.92	11.68
194.93	11.85
194.94	12.03
194.95	12.21
194.96	12.50
194.97	12.89
194.98	13.35
194.99	13.86
195.00	14.41
195.01	15.01
195.02	15.64
195.03	16.31
195.04	17.01
195.05	17.74
195.06	18.49
195.07	19.28
195.08	20.09
195.09	20.93
195.10	21.80
195.11	22.68
195.12	23.60
195.13	24.40
195.14	25.18
195.15	25.99
195.16	26.86
195.17	27.75
195.18	28.67
195.19	29.62
195.20	30.59
195.21	31.58
195.22	32.60
195.23	33.65
195.24	34.72
195.25	**35.81**

Stage-Area-Storage for Pond B-36A: Basin #36A

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
190.50	0	0
190.51	47	0
190.52	95	1
190.53	142	2
190.54	189	4
190.55	237	6
190.56	284	9
190.57	331	12
190.58	379	15
190.59	426	19
190.60	473	24
190.61	521	29
190.62	568	34
190.63	615	40
190.64	662	46
190.65	710	53
190.66	757	61
190.67	804	68
190.68	852	77
190.69	899	85
190.70	946	95
190.71	994	104
190.72	1,041	115
190.73	1,088	125
190.74	1,136	136
190.75	1,183	148
190.76	1,230	160
190.77	1,278	172
190.78	1,325	185
190.79	1,372	199
190.80	1,420	213
190.81	1,467	227
190.82	1,514	242
190.83	1,562	258
190.84	1,609	274
190.85	1,656	290
190.86	1,704	307
190.87	1,751	324
190.88	1,798	342
190.89	1,845	360
190.90	1,893	379
190.91	1,940	398
190.92	1,987	417
190.93	2,035	437
190.94	2,082	458
190.95	2,129	479
190.96	2,177	501
190.97	2,224	523
190.98	2,271	545
190.99	2,319	568
191.00	2,366	592
191.01	2,372	615
191.02	2,379	639
191.03	2,385	663
191.04	2,391	687
191.05	2,397	711
191.06	2,404	735
191.07	2,410	759
191.08	2,416	783
191.09	2,423	807
191.10	2,429	831
191.11	2,435	856
191.12	2,441	880
191.13	2,448	904
191.14	2,454	929
191.15	2,460	953
191.16	2,467	978
191.17	2,473	1,003
191.18	2,479	1,028
191.19	2,486	1,052
191.20	2,492	1,077
191.21	2,498	1,102
191.22	2,504	1,127
191.23	2,511	1,152
191.24	2,517	1,177
191.25	2,523	1,203
191.26	2,530	1,228
191.27	2,536	1,253
191.28	2,542	1,279
191.29	2,548	1,304
191.30	2,555	1,330
191.31	2,561	1,355
191.32	2,567	1,381
191.33	2,574	1,407
191.34	2,580	1,432
191.35	2,586	1,458
191.36	2,592	1,484
191.37	2,599	1,510
191.38	2,605	1,536
191.39	2,611	1,562
191.40	2,618	1,588
191.41	2,624	1,614
191.42	2,630	1,641
191.43	2,636	1,667
191.44	2,643	1,693
191.45	2,649	1,720
191.46	2,655	1,746
191.47	2,662	1,773
191.48	2,668	1,800
191.49	2,674	1,826
191.50	2,681	1,853
191.51	2,687	1,880
191.52	2,693	1,907
191.53	2,699	1,934

Stage-Area-Storage for Pond B-36A: Basin #36A (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
191.54	2,706	1,961
191.55	2,712	1,988
191.56	2,718	2,015
191.57	2,725	2,042
191.58	2,731	2,070
191.59	2,737	2,097
191.60	2,743	2,124
191.61	2,750	2,152
191.62	2,756	2,179
191.63	2,762	2,207
191.64	2,769	2,235
191.65	2,775	2,262
191.66	2,781	2,290
191.67	2,787	2,318
191.68	2,794	2,346
191.69	2,800	2,374
191.70	2,806	2,402
191.71	2,813	2,430
191.72	2,819	2,458
191.73	2,825	2,486
191.74	2,831	2,515
191.75	2,838	2,543
191.76	2,844	2,571
191.77	2,850	2,600
191.78	2,857	2,628
191.79	2,863	2,657
191.80	2,869	2,686
191.81	2,875	2,714
191.82	2,882	2,743
191.83	2,888	2,772
191.84	2,894	2,801
191.85	2,901	2,830
191.86	2,907	2,859
191.87	2,913	2,888
191.88	2,920	2,917
191.89	2,926	2,946
191.90	2,932	2,976
191.91	2,938	3,005
191.92	2,945	3,034
191.93	2,951	3,064
191.94	2,957	3,093
191.95	2,964	3,123
191.96	2,970	3,153
191.97	2,976	3,182
191.98	2,982	3,212
191.99	2,989	3,242
192.00	2,995	3,272
192.01	3,002	3,302
192.02	3,009	3,332
192.03	3,016	3,362
192.04	3,022	3,392
192.05	3,029	3,423
192.06	3,036	3,453
192.07	3,043	3,483
192.08	3,050	3,514
192.09	3,057	3,544
192.10	3,064	3,575
192.11	3,070	3,606
192.12	3,077	3,636
192.13	3,084	3,667
192.14	3,091	3,698
192.15	3,098	3,729
192.16	3,105	3,760
192.17	3,112	3,791
192.18	3,118	3,822
192.19	3,125	3,853
192.20	3,132	3,885
192.21	3,139	3,916
192.22	3,146	3,948
192.23	3,153	3,979
192.24	3,160	4,011
192.25	3,167	4,042
192.26	3,173	4,074
192.27	3,180	4,106
192.28	3,187	4,137
192.29	3,194	4,169
192.30	3,201	4,201
192.31	3,208	4,233
192.32	3,215	4,266
192.33	3,221	4,298
192.34	3,228	4,330
192.35	3,235	4,362
192.36	3,242	4,395
192.37	3,249	4,427
192.38	3,256	4,460
192.39	3,263	4,492
192.40	3,269	4,525
192.41	3,276	4,558
192.42	3,283	4,590
192.43	3,290	4,623
192.44	3,297	4,656
192.45	3,304	4,689
192.46	3,311	4,722
192.47	3,317	4,755
192.48	3,324	4,789
192.49	3,331	4,822
192.50	3,338	4,855
192.51	3,345	4,889
192.52	3,352	4,922
192.53	3,359	4,956
192.54	3,365	4,989
192.55	3,372	5,023
192.56	3,379	5,057
192.57	3,386	5,091

Stage-Area-Storage for Pond B-36A: Basin #36A (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
192.58	3,393	5,124
192.59	3,400	5,158
192.60	3,407	5,192
192.61	3,413	5,227
192.62	3,420	5,261
192.63	3,427	5,295
192.64	3,434	5,329
192.65	3,441	5,364
192.66	3,448	5,398
192.67	3,455	5,433
192.68	3,461	5,467
192.69	3,468	5,502
192.70	3,475	5,537
192.71	3,482	5,571
192.72	3,489	5,606
192.73	3,496	5,641
192.74	3,503	5,676
192.75	3,510	5,711
192.76	3,516	5,746
192.77	3,523	5,782
192.78	3,530	5,817
192.79	3,537	5,852
192.80	3,544	5,888
192.81	3,551	5,923
192.82	3,558	5,959
192.83	3,564	5,994
192.84	3,571	6,030
192.85	3,578	6,066
192.86	3,585	6,101
192.87	3,592	6,137
192.88	3,599	6,173
192.89	3,606	6,209
192.90	3,612	6,245
192.91	3,619	6,281
192.92	3,626	6,318
192.93	3,633	6,354
192.94	3,640	6,390
192.95	3,647	6,427
192.96	3,654	6,463
192.97	3,660	6,500
192.98	3,667	6,537
192.99	3,674	6,573
193.00	3,681	6,610
193.01	3,688	6,647
193.02	3,696	6,684
193.03	3,703	6,721
193.04	3,711	6,758
193.05	3,718	6,795
193.06	3,726	6,832
193.07	3,733	6,869
193.08	3,740	6,907
193.09	3,748	6,944
193.10	3,755	6,982
193.11	3,763	7,019
193.12	3,770	7,057
193.13	3,778	7,095
193.14	3,785	7,133
193.15	3,792	7,171
193.16	3,800	7,208
193.17	3,807	7,247
193.18	3,815	7,285
193.19	3,822	7,323
193.20	3,830	7,361
193.21	3,837	7,399
193.22	3,844	7,438
193.23	3,852	7,476
193.24	3,859	7,515
193.25	3,867	7,553
193.26	3,874	7,592
193.27	3,882	7,631
193.28	3,889	7,670
193.29	3,896	7,709
193.30	3,904	7,748
193.31	3,911	7,787
193.32	3,919	7,826
193.33	3,926	7,865
193.34	3,934	7,904
193.35	3,941	7,944
193.36	3,948	7,983
193.37	3,956	8,023
193.38	3,963	8,062
193.39	3,971	8,102
193.40	3,978	8,142
193.41	3,986	8,182
193.42	3,993	8,222
193.43	4,000	8,262
193.44	4,008	8,302
193.45	4,015	8,342
193.46	4,023	8,382
193.47	4,030	8,422
193.48	4,038	8,462
193.49	4,045	8,503
193.50	4,053	8,543
193.51	4,060	8,584
193.52	4,067	8,625
193.53	4,075	8,665
193.54	4,082	8,706
193.55	4,090	8,747
193.56	4,097	8,788
193.57	4,105	8,829
193.58	4,112	8,870
193.59	4,119	8,911
193.60	4,127	8,952
193.61	4,134	8,994

Stage-Area-Storage for Pond B-36A: Basin #36A (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
193.62	4,142	9,035	194.14	4,536	11,290
193.63	4,149	9,076	194.15	4,544	11,335
193.64	4,157	9,118	194.16	4,552	11,381
193.65	4,164	9,160	194.17	4,560	11,426
193.66	4,171	9,201	194.18	4,568	11,472
193.67	4,179	9,243	194.19	4,576	11,517
193.68	4,186	9,285	194.20	4,584	11,563
193.69	4,194	9,327	194.21	4,592	11,609
193.70	4,201	9,369	194.22	4,600	11,655
193.71	4,209	9,411	194.23	4,608	11,701
193.72	4,216	9,453	194.24	4,616	11,747
193.73	4,223	9,495	194.25	4,624	11,793
193.74	4,231	9,537	194.26	4,632	11,840
193.75	4,238	9,580	194.27	4,640	11,886
193.76	4,246	9,622	194.28	4,648	11,933
193.77	4,253	9,665	194.29	4,656	11,979
193.78	4,261	9,707	194.30	4,664	12,026
193.79	4,268	9,750	194.31	4,672	12,072
193.80	4,275	9,793	194.32	4,680	12,119
193.81	4,283	9,835	194.33	4,688	12,166
193.82	4,290	9,878	194.34	4,696	12,213
193.83	4,298	9,921	194.35	4,704	12,260
193.84	4,305	9,964	194.36	4,712	12,307
193.85	4,313	10,007	194.37	4,720	12,354
193.86	4,320	10,050	194.38	4,728	12,401
193.87	4,327	10,094	194.39	4,736	12,449
193.88	4,335	10,137	194.40	4,744	12,496
193.89	4,342	10,180	194.41	4,752	12,543
193.90	4,350	10,224	194.42	4,760	12,591
193.91	4,357	10,267	194.43	4,768	12,639
193.92	4,365	10,311	194.44	4,776	12,686
193.93	4,372	10,355	194.45	4,784	12,734
193.94	4,379	10,398	194.46	4,792	12,782
193.95	4,387	10,442	194.47	4,800	12,830
193.96	4,394	10,486	194.48	4,808	12,878
193.97	4,402	10,530	194.49	4,816	12,926
193.98	4,409	10,574	194.50	4,824	12,974
193.99	4,417	10,618	194.51	4,831	13,023
194.00	4,424	10,663	194.52	4,839	13,071
194.01	4,432	10,707	194.53	4,847	13,119
194.02	4,440	10,751	194.54	4,855	13,168
194.03	4,448	10,796	194.55	4,863	13,217
194.04	4,456	10,840	194.56	4,871	13,265
194.05	4,464	10,885	194.57	4,879	13,314
194.06	4,472	10,929	194.58	4,887	13,363
194.07	4,480	10,974	194.59	4,895	13,412
194.08	4,488	11,019	194.60	4,903	13,461
194.09	4,496	11,064	194.61	4,911	13,510
194.10	4,504	11,109	194.62	4,919	13,559
194.11	4,512	11,154	194.63	4,927	13,608
194.12	4,520	11,199	194.64	4,935	13,657
194.13	4,528	11,244	194.65	4,943	13,707

Stage-Area-Storage for Pond B-36A: Basin #36A (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
194.66	4,951	13,756
194.67	4,959	13,806
194.68	4,967	13,856
194.69	4,975	13,905
194.70	4,983	13,955
194.71	4,991	14,005
194.72	4,999	14,055
194.73	5,007	14,105
194.74	5,015	14,155
194.75	5,023	14,205
194.76	5,031	14,255
194.77	5,039	14,306
194.78	5,047	14,356
194.79	5,055	14,407
194.80	5,063	14,457
194.81	5,071	14,508
194.82	5,079	14,559
194.83	5,087	14,610
194.84	5,095	14,661
194.85	5,103	14,712
194.86	5,111	14,763
194.87	5,119	14,814
194.88	5,127	14,865
194.89	5,135	14,916
194.90	5,143	14,968
194.91	5,151	15,019
194.92	5,159	15,071
194.93	5,167	15,122
194.94	5,175	15,174
194.95	5,183	15,226
194.96	5,191	15,278
194.97	5,199	15,330
194.98	5,207	15,382
194.99	5,215	15,434
195.00	5,223	15,486
195.01	5,240	15,538
195.02	5,257	15,591
195.03	5,274	15,643
195.04	5,290	15,696
195.05	5,307	15,749
195.06	5,324	15,802
195.07	5,341	15,856
195.08	5,358	15,909
195.09	5,375	15,963
195.10	5,391	16,017
195.11	5,408	16,071
195.12	5,425	16,125
195.13	5,442	16,179
195.14	5,459	16,234
195.15	5,476	16,288
195.16	5,492	16,343
195.17	5,509	16,398
195.18	5,526	16,453
195.19	5,543	16,509
195.20	5,560	16,564
195.21	5,577	16,620
195.22	5,593	16,676
195.23	5,610	16,732
195.24	5,627	16,788
195.25	**5,644**	**16,844**

Summary for Pond B-36B: Basin #36B

Inflow Area = 2.469 ac, 46.54% Impervious, Inflow Depth = 6.80" for Current 100 yr event
Inflow = 16.91 cfs @ 12.17 hrs, Volume= 1.400 af
Outflow = 13.85 cfs @ 12.23 hrs, Volume= 1.292 af, Atten= 18%, Lag= 3.6 min
Primary = 13.85 cfs @ 12.23 hrs, Volume= 1.292 af
Routed to Link PDA-3 : Proposed Drainage Area #3

Routing by Stor-Ind method, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
Peak Elev= 194.44' @ 12.24 hrs Surf.Area= 4,903 sf Storage= 12,555 cf

Plug-Flow detention time= 90.8 min calculated for 1.291 af (92% of inflow)
Center-of-Mass det. time= 48.9 min (825.9 - 777.0)

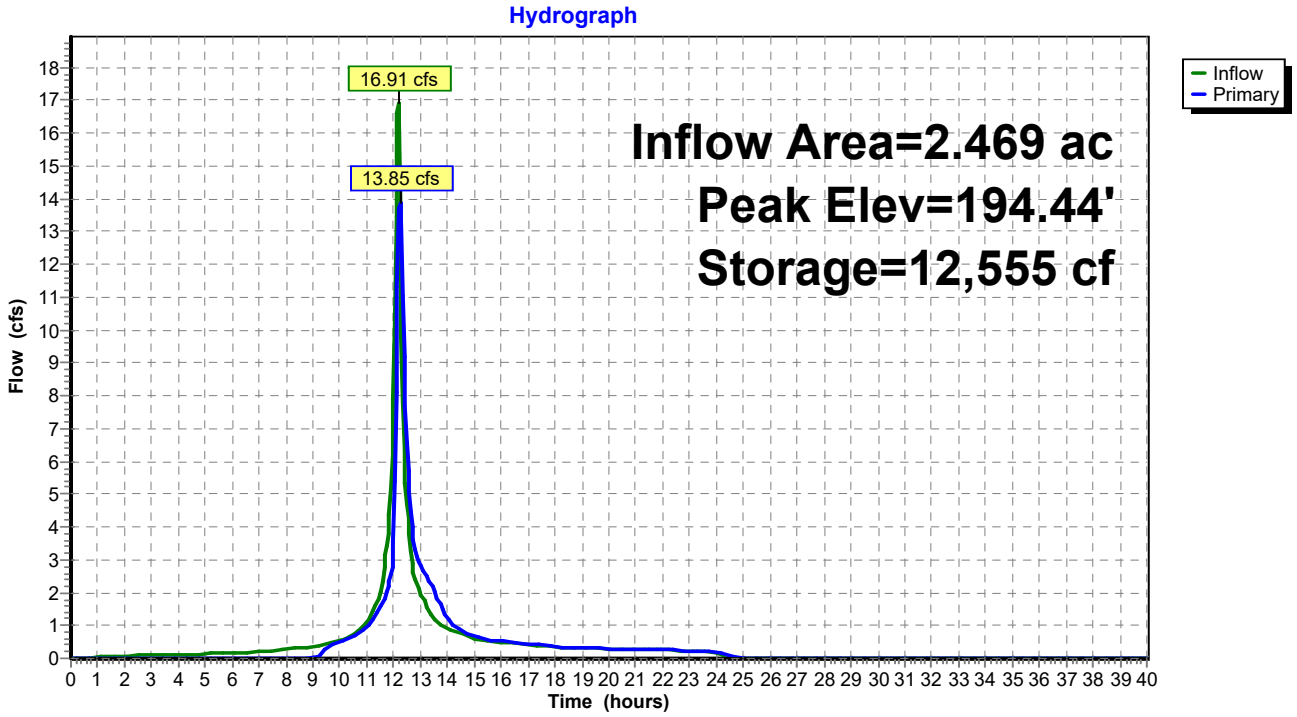
Volume	Invert	Avail.Storage	Storage Description
#1	190.50'	16,864 cf	**Custom Stage Data (Prismatic)** Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
190.50	0	0	0
191.00	2,110	528	528
192.00	2,893	2,502	3,029
193.00	3,730	3,312	6,341
194.00	4,547	4,139	10,479
195.00	5,356	4,952	15,431
195.25	6,113	1,434	16,864

Device	Routing	Invert	Outlet Devices
#1	Primary	190.50'	**18.0" Round Culvert** L= 82.0' Ke= 0.500 Inlet / Outlet Invert= 190.50' / 190.10' S= 0.0049 '/' Cc= 0.900 n= 0.013, Flow Area= 1.77 sf
#2	Device 1	192.53'	**36.0" W x 2.5" H Vert. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#3	Device 1	193.55'	**4.0' long Sharp-Crested Rectangular Weir** 2 End Contraction(s)
#4	Primary	194.95'	**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=13.76 cfs @ 12.23 hrs HW=194.42' (Free Discharge)
- **1=Culvert** (Barrel Controls 13.76 cfs @ 7.79 fps)
  - **2=Orifice/Grate** (Passes < 4.03 cfs potential flow)
  - **3=Sharp-Crested Rectangular Weir** (Passes < 10.23 cfs potential flow)
- **4=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)

Pond B-36B: Basin #36B



Stage-Discharge for Pond B-36B: Basin #36B

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
190.50	0.00	191.02	0.00	191.54	0.00	192.06	0.00
190.51	0.00	191.03	0.00	191.55	0.00	192.07	0.00
190.52	0.00	191.04	0.00	191.56	0.00	192.08	0.00
190.53	0.00	191.05	0.00	191.57	0.00	192.09	0.00
190.54	0.00	191.06	0.00	191.58	0.00	192.10	0.00
190.55	0.00	191.07	0.00	191.59	0.00	192.11	0.00
190.56	0.00	191.08	0.00	191.60	0.00	192.12	0.00
190.57	0.00	191.09	0.00	191.61	0.00	192.13	0.00
190.58	0.00	191.10	0.00	191.62	0.00	192.14	0.00
190.59	0.00	191.11	0.00	191.63	0.00	192.15	0.00
190.60	0.00	191.12	0.00	191.64	0.00	192.16	0.00
190.61	0.00	191.13	0.00	191.65	0.00	192.17	0.00
190.62	0.00	191.14	0.00	191.66	0.00	192.18	0.00
190.63	0.00	191.15	0.00	191.67	0.00	192.19	0.00
190.64	0.00	191.16	0.00	191.68	0.00	192.20	0.00
190.65	0.00	191.17	0.00	191.69	0.00	192.21	0.00
190.66	0.00	191.18	0.00	191.70	0.00	192.22	0.00
190.67	0.00	191.19	0.00	191.71	0.00	192.23	0.00
190.68	0.00	191.20	0.00	191.72	0.00	192.24	0.00
190.69	0.00	191.21	0.00	191.73	0.00	192.25	0.00
190.70	0.00	191.22	0.00	191.74	0.00	192.26	0.00
190.71	0.00	191.23	0.00	191.75	0.00	192.27	0.00
190.72	0.00	191.24	0.00	191.76	0.00	192.28	0.00
190.73	0.00	191.25	0.00	191.77	0.00	192.29	0.00
190.74	0.00	191.26	0.00	191.78	0.00	192.30	0.00
190.75	0.00	191.27	0.00	191.79	0.00	192.31	0.00
190.76	0.00	191.28	0.00	191.80	0.00	192.32	0.00
190.77	0.00	191.29	0.00	191.81	0.00	192.33	0.00
190.78	0.00	191.30	0.00	191.82	0.00	192.34	0.00
190.79	0.00	191.31	0.00	191.83	0.00	192.35	0.00
190.80	0.00	191.32	0.00	191.84	0.00	192.36	0.00
190.81	0.00	191.33	0.00	191.85	0.00	192.37	0.00
190.82	0.00	191.34	0.00	191.86	0.00	192.38	0.00
190.83	0.00	191.35	0.00	191.87	0.00	192.39	0.00
190.84	0.00	191.36	0.00	191.88	0.00	192.40	0.00
190.85	0.00	191.37	0.00	191.89	0.00	192.41	0.00
190.86	0.00	191.38	0.00	191.90	0.00	192.42	0.00
190.87	0.00	191.39	0.00	191.91	0.00	192.43	0.00
190.88	0.00	191.40	0.00	191.92	0.00	192.44	0.00
190.89	0.00	191.41	0.00	191.93	0.00	192.45	0.00
190.90	0.00	191.42	0.00	191.94	0.00	192.46	0.00
190.91	0.00	191.43	0.00	191.95	0.00	192.47	0.00
190.92	0.00	191.44	0.00	191.96	0.00	192.48	0.00
190.93	0.00	191.45	0.00	191.97	0.00	192.49	0.00
190.94	0.00	191.46	0.00	191.98	0.00	192.50	0.00
190.95	0.00	191.47	0.00	191.99	0.00	192.51	0.00
190.96	0.00	191.48	0.00	192.00	0.00	192.52	0.00
190.97	0.00	191.49	0.00	192.01	0.00	192.53	0.00
190.98	0.00	191.50	0.00	192.02	0.00	192.54	0.01
190.99	0.00	191.51	0.00	192.03	0.00	192.55	0.03
191.00	0.00	191.52	0.00	192.04	0.00	192.56	0.05
191.01	0.00	191.53	0.00	192.05	0.00	192.57	0.08

Stage-Discharge for Pond B-36B: Basin #36B (continued)

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
192.58	0.11	193.10	2.05	193.62	3.23	194.14	9.44
192.59	0.14	193.11	2.07	193.63	3.30	194.15	9.60
192.60	0.18	193.12	2.09	193.64	3.37	194.16	9.76
192.61	0.22	193.13	2.12	193.65	3.44	194.17	9.92
192.62	0.26	193.14	2.14	193.66	3.52	194.18	10.08
192.63	0.30	193.15	2.16	193.67	3.60	194.19	10.24
192.64	0.35	193.16	2.18	193.68	3.69	194.20	10.40
192.65	0.40	193.17	2.20	193.69	3.77	194.21	10.56
192.66	0.45	193.18	2.22	193.70	3.86	194.22	10.72
192.67	0.50	193.19	2.24	193.71	3.95	194.23	10.89
192.68	0.56	193.20	2.26	193.72	4.04	194.24	11.05
192.69	0.62	193.21	2.28	193.73	4.14	194.25	11.22
192.70	0.67	193.22	2.30	193.74	4.24	194.26	11.38
192.71	0.74	193.23	2.32	193.75	4.34	194.27	11.55
192.72	0.80	193.24	2.34	193.76	4.44	194.28	11.72
192.73	0.86	193.25	2.36	193.77	4.54	194.29	11.89
192.74	0.93	193.26	2.38	193.78	4.65	194.30	12.06
192.75	0.98	193.27	2.40	193.79	4.75	194.31	12.23
192.76	1.03	193.28	2.42	193.80	4.86	194.32	12.40
192.77	1.08	193.29	2.43	193.81	4.97	194.33	12.58
192.78	1.12	193.30	2.45	193.82	5.09	194.34	12.75
192.79	1.16	193.31	2.47	193.83	5.20	194.35	12.93
192.80	1.20	193.32	2.49	193.84	5.32	194.36	13.10
192.81	1.24	193.33	2.51	193.85	5.43	194.37	13.28
192.82	1.28	193.34	2.53	193.86	5.55	194.38	13.46
192.83	1.32	193.35	2.54	193.87	5.67	194.39	13.63
192.84	1.35	193.36	2.56	193.88	5.80	194.40	13.70
192.85	1.38	193.37	2.58	193.89	5.92	194.41	13.73
192.86	1.42	193.38	2.60	193.90	6.05	194.42	13.75
192.87	1.45	193.39	2.61	193.91	6.17	194.43	13.77
192.88	1.48	193.40	2.63	193.92	6.30	194.44	13.80
192.89	1.51	193.41	2.65	193.93	6.43	194.45	13.82
192.90	1.54	193.42	2.67	193.94	6.56	194.46	13.85
192.91	1.57	193.43	2.68	193.95	6.69	194.47	13.87
192.92	1.60	193.44	2.70	193.96	6.83	194.48	13.90
192.93	1.63	193.45	2.72	193.97	6.96	194.49	13.92
192.94	1.66	193.46	2.73	193.98	7.10	194.50	13.94
192.95	1.68	193.47	2.75	193.99	7.24	194.51	13.97
192.96	1.71	193.48	2.77	194.00	7.38	194.52	13.99
192.97	1.74	193.49	2.78	194.01	7.52	194.53	14.02
192.98	1.76	193.50	2.80	194.02	7.66	194.54	14.04
192.99	1.79	193.51	2.81	194.03	7.80	194.55	14.06
193.00	1.81	193.52	2.83	194.04	7.94	194.56	14.09
193.01	1.84	193.53	2.85	194.05	8.09	194.57	14.11
193.02	1.86	193.54	2.86	194.06	8.24	194.58	14.13
193.03	1.89	193.55	2.88	194.07	8.38	194.59	14.16
193.04	1.91	193.56	2.91	194.08	8.53	194.60	14.18
193.05	1.94	193.57	2.95	194.09	8.68	194.61	14.21
193.06	1.96	193.58	2.99	194.10	8.83	194.62	14.23
193.07	1.98	193.59	3.05	194.11	8.98	194.63	14.25
193.08	2.00	193.60	3.10	194.12	9.14	194.64	14.28
193.09	2.03	193.61	3.16	194.13	9.29	194.65	14.30

Stage-Discharge for Pond B-36B: Basin #36B (continued)

Elevation (feet)	Primary (cfs)
194.66	14.32
194.67	14.35
194.68	14.37
194.69	14.39
194.70	14.42
194.71	14.44
194.72	14.46
194.73	14.49
194.74	14.51
194.75	14.53
194.76	14.56
194.77	14.58
194.78	14.60
194.79	14.62
194.80	14.65
194.81	14.67
194.82	14.69
194.83	14.72
194.84	14.74
194.85	14.76
194.86	14.78
194.87	14.81
194.88	14.83
194.89	14.85
194.90	14.87
194.91	14.90
194.92	14.92
194.93	14.94
194.94	14.96
194.95	14.99
194.96	15.13
194.97	15.36
194.98	15.66
194.99	16.01
195.00	16.41
195.01	16.84
195.02	17.32
195.03	17.82
195.04	18.36
195.05	18.93
195.06	19.52
195.07	20.14
195.08	20.79
195.09	21.47
195.10	22.16
195.11	22.89
195.12	23.63
195.13	24.40
195.14	25.18
195.15	25.99
195.16	26.86
195.17	27.75
195.18	28.67
195.19	29.62
195.20	30.59
195.21	31.58
195.22	32.60
195.23	33.65
195.24	34.72
195.25	**35.81**

Stage-Area-Storage for Pond B-36B: Basin #36B

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
190.50	0	0	191.02	2,126	570
190.51	42	0	191.03	2,133	591
190.52	84	1	191.04	2,141	613
190.53	127	2	191.05	2,149	634
190.54	169	3	191.06	2,157	656
190.55	211	5	191.07	2,165	677
190.56	253	8	191.08	2,173	699
190.57	295	10	191.09	2,180	721
190.58	338	14	191.10	2,188	742
190.59	380	17	191.11	2,196	764
190.60	422	21	191.12	2,204	786
190.61	464	26	191.13	2,212	808
190.62	506	30	191.14	2,220	831
190.63	549	36	191.15	2,227	853
190.64	591	41	191.16	2,235	875
190.65	633	47	191.17	2,243	898
190.66	675	54	191.18	2,251	920
190.67	717	61	191.19	2,259	943
190.68	760	68	191.20	2,267	965
190.69	802	76	191.21	2,274	988
190.70	844	84	191.22	2,282	1,011
190.71	886	93	191.23	2,290	1,034
190.72	928	102	191.24	2,298	1,056
190.73	971	112	191.25	2,306	1,079
190.74	1,013	122	191.26	2,314	1,103
190.75	1,055	132	191.27	2,321	1,126
190.76	1,097	143	191.28	2,329	1,149
190.77	1,139	154	191.29	2,337	1,172
190.78	1,182	165	191.30	2,345	1,196
190.79	1,224	177	191.31	2,353	1,219
190.80	1,266	190	191.32	2,361	1,243
190.81	1,308	203	191.33	2,368	1,266
190.82	1,350	216	191.34	2,376	1,290
190.83	1,393	230	191.35	2,384	1,314
190.84	1,435	244	191.36	2,392	1,338
190.85	1,477	258	191.37	2,400	1,362
190.86	1,519	273	191.38	2,408	1,386
190.87	1,561	289	191.39	2,415	1,410
190.88	1,604	305	191.40	2,423	1,434
190.89	1,646	321	191.41	2,431	1,458
190.90	1,688	338	191.42	2,439	1,483
190.91	1,730	355	191.43	2,447	1,507
190.92	1,772	372	191.44	2,455	1,532
190.93	1,815	390	191.45	2,462	1,556
190.94	1,857	408	191.46	2,470	1,581
190.95	1,899	427	191.47	2,478	1,606
190.96	1,941	446	191.48	2,486	1,631
190.97	1,983	466	191.49	2,494	1,655
190.98	2,026	486	191.50	2,502	1,680
190.99	2,068	507	191.51	2,509	1,705
191.00	2,110	528	191.52	2,517	1,731
191.01	2,118	549	191.53	2,525	1,756

Stage-Area-Storage for Pond B-36B: Basin #36B (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
191.54	2,533	1,781
191.55	2,541	1,806
191.56	2,548	1,832
191.57	2,556	1,857
191.58	2,564	1,883
191.59	2,572	1,909
191.60	2,580	1,934
191.61	2,588	1,960
191.62	2,595	1,986
191.63	2,603	2,012
191.64	2,611	2,038
191.65	2,619	2,064
191.66	2,627	2,091
191.67	2,635	2,117
191.68	2,642	2,143
191.69	2,650	2,170
191.70	2,658	2,196
191.71	2,666	2,223
191.72	2,674	2,250
191.73	2,682	2,276
191.74	2,689	2,303
191.75	2,697	2,330
191.76	2,705	2,357
191.77	2,713	2,384
191.78	2,721	2,411
191.79	2,729	2,439
191.80	2,736	2,466
191.81	2,744	2,493
191.82	2,752	2,521
191.83	2,760	2,549
191.84	2,768	2,576
191.85	2,776	2,604
191.86	2,783	2,632
191.87	2,791	2,660
191.88	2,799	2,687
191.89	2,807	2,716
191.90	2,815	2,744
191.91	2,823	2,772
191.92	2,830	2,800
191.93	2,838	2,828
191.94	2,846	2,857
191.95	2,854	2,885
191.96	2,862	2,914
191.97	2,870	2,943
191.98	2,877	2,971
191.99	2,885	3,000
192.00	2,893	3,029
192.01	2,901	3,058
192.02	2,910	3,087
192.03	2,918	3,116
192.04	2,926	3,145
192.05	2,935	3,175
192.06	2,943	3,204
192.07	2,952	3,234
192.08	2,960	3,263
192.09	2,968	3,293
192.10	2,977	3,322
192.11	2,985	3,352
192.12	2,993	3,382
192.13	3,002	3,412
192.14	3,010	3,442
192.15	3,019	3,472
192.16	3,027	3,503
192.17	3,035	3,533
192.18	3,044	3,563
192.19	3,052	3,594
192.20	3,060	3,624
192.21	3,069	3,655
192.22	3,077	3,686
192.23	3,086	3,717
192.24	3,094	3,747
192.25	3,102	3,778
192.26	3,111	3,809
192.27	3,119	3,841
192.28	3,127	3,872
192.29	3,136	3,903
192.30	3,144	3,935
192.31	3,152	3,966
192.32	3,161	3,998
192.33	3,169	4,029
192.34	3,178	4,061
192.35	3,186	4,093
192.36	3,194	4,125
192.37	3,203	4,157
192.38	3,211	4,189
192.39	3,219	4,221
192.40	3,228	4,253
192.41	3,236	4,285
192.42	3,245	4,318
192.43	3,253	4,350
192.44	3,261	4,383
192.45	3,270	4,416
192.46	3,278	4,448
192.47	3,286	4,481
192.48	3,295	4,514
192.49	3,303	4,547
192.50	3,312	4,580
192.51	3,320	4,613
192.52	3,328	4,647
192.53	3,337	4,680
192.54	3,345	4,713
192.55	3,353	4,747
192.56	3,362	4,780
192.57	3,370	4,814

Stage-Area-Storage for Pond B-36B: Basin #36B (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
192.58	3,378	4,848
192.59	3,387	4,882
192.60	3,395	4,915
192.61	3,404	4,949
192.62	3,412	4,984
192.63	3,420	5,018
192.64	3,429	5,052
192.65	3,437	5,086
192.66	3,445	5,121
192.67	3,454	5,155
192.68	3,462	5,190
192.69	3,471	5,224
192.70	3,479	5,259
192.71	3,487	5,294
192.72	3,496	5,329
192.73	3,504	5,364
192.74	3,512	5,399
192.75	3,521	5,434
192.76	3,529	5,469
192.77	3,537	5,505
192.78	3,546	5,540
192.79	3,554	5,576
192.80	3,563	5,611
192.81	3,571	5,647
192.82	3,579	5,683
192.83	3,588	5,718
192.84	3,596	5,754
192.85	3,604	5,790
192.86	3,613	5,827
192.87	3,621	5,863
192.88	3,630	5,899
192.89	3,638	5,935
192.90	3,646	5,972
192.91	3,655	6,008
192.92	3,663	6,045
192.93	3,671	6,081
192.94	3,680	6,118
192.95	3,688	6,155
192.96	3,697	6,192
192.97	3,705	6,229
192.98	3,713	6,266
192.99	3,722	6,303
193.00	3,730	6,341
193.01	3,738	6,378
193.02	3,746	6,415
193.03	3,755	6,453
193.04	3,763	6,490
193.05	3,771	6,528
193.06	3,779	6,566
193.07	3,787	6,604
193.08	3,795	6,642
193.09	3,804	6,680
193.10	3,812	6,718
193.11	3,820	6,756
193.12	3,828	6,794
193.13	3,836	6,832
193.14	3,844	6,871
193.15	3,853	6,909
193.16	3,861	6,948
193.17	3,869	6,986
193.18	3,877	7,025
193.19	3,885	7,064
193.20	3,893	7,103
193.21	3,902	7,142
193.22	3,910	7,181
193.23	3,918	7,220
193.24	3,926	7,259
193.25	3,934	7,299
193.26	3,942	7,338
193.27	3,951	7,377
193.28	3,959	7,417
193.29	3,967	7,457
193.30	3,975	7,496
193.31	3,983	7,536
193.32	3,991	7,576
193.33	4,000	7,616
193.34	4,008	7,656
193.35	4,016	7,696
193.36	4,024	7,736
193.37	4,032	7,777
193.38	4,040	7,817
193.39	4,049	7,857
193.40	4,057	7,898
193.41	4,065	7,938
193.42	4,073	7,979
193.43	4,081	8,020
193.44	4,089	8,061
193.45	4,098	8,102
193.46	4,106	8,143
193.47	4,114	8,184
193.48	4,122	8,225
193.49	4,130	8,266
193.50	4,139	8,308
193.51	4,147	8,349
193.52	4,155	8,391
193.53	4,163	8,432
193.54	4,171	8,474
193.55	4,179	8,516
193.56	4,188	8,557
193.57	4,196	8,599
193.58	4,204	8,641
193.59	4,212	8,683
193.60	4,220	8,726
193.61	4,228	8,768

Stage-Area-Storage for Pond B-36B: Basin #36B (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
193.62	4,237	8,810	194.14	4,660	11,124
193.63	4,245	8,853	194.15	4,668	11,170
193.64	4,253	8,895	194.16	4,676	11,217
193.65	4,261	8,938	194.17	4,685	11,264
193.66	4,269	8,980	194.18	4,693	11,311
193.67	4,277	9,023	194.19	4,701	11,358
193.68	4,286	9,066	194.20	4,709	11,405
193.69	4,294	9,109	194.21	4,717	11,452
193.70	4,302	9,152	194.22	4,725	11,499
193.71	4,310	9,195	194.23	4,733	11,546
193.72	4,318	9,238	194.24	4,741	11,594
193.73	4,326	9,281	194.25	4,749	11,641
193.74	4,335	9,324	194.26	4,757	11,689
193.75	4,343	9,368	194.27	4,765	11,736
193.76	4,351	9,411	194.28	4,774	11,784
193.77	4,359	9,455	194.29	4,782	11,832
193.78	4,367	9,498	194.30	4,790	11,880
193.79	4,375	9,542	194.31	4,798	11,927
193.80	4,384	9,586	194.32	4,806	11,975
193.81	4,392	9,630	194.33	4,814	12,024
193.82	4,400	9,674	194.34	4,822	12,072
193.83	4,408	9,718	194.35	4,830	12,120
193.84	4,416	9,762	194.36	4,838	12,168
193.85	4,424	9,806	194.37	4,846	12,217
193.86	4,433	9,850	194.38	4,854	12,265
193.87	4,441	9,895	194.39	4,863	12,314
193.88	4,449	9,939	194.40	4,871	12,363
193.89	4,457	9,984	194.41	4,879	12,411
193.90	4,465	10,028	194.42	4,887	12,460
193.91	4,473	10,073	194.43	4,895	12,509
193.92	4,482	10,118	194.44	4,903	12,558
193.93	4,490	10,163	194.45	4,911	12,607
193.94	4,498	10,208	194.46	4,919	12,656
193.95	4,506	10,253	194.47	4,927	12,705
193.96	4,514	10,298	194.48	4,935	12,755
193.97	4,522	10,343	194.49	4,943	12,804
193.98	4,531	10,388	194.50	4,952	12,854
193.99	4,539	10,434	194.51	4,960	12,903
194.00	4,547	10,479	194.52	4,968	12,953
194.01	4,555	10,525	194.53	4,976	13,003
194.02	4,563	10,570	194.54	4,984	13,052
194.03	4,571	10,616	194.55	4,992	13,102
194.04	4,579	10,662	194.56	5,000	13,152
194.05	4,587	10,707	194.57	5,008	13,202
194.06	4,596	10,753	194.58	5,016	13,252
194.07	4,604	10,799	194.59	5,024	13,303
194.08	4,612	10,845	194.60	5,032	13,353
194.09	4,620	10,892	194.61	5,040	13,403
194.10	4,628	10,938	194.62	5,049	13,454
194.11	4,636	10,984	194.63	5,057	13,504
194.12	4,644	11,030	194.64	5,065	13,555
194.13	4,652	11,077	194.65	5,073	13,605

Stage-Area-Storage for Pond B-36B: Basin #36B (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
194.66	5,081	13,656
194.67	5,089	13,707
194.68	5,097	13,758
194.69	5,105	13,809
194.70	5,113	13,860
194.71	5,121	13,911
194.72	5,129	13,963
194.73	5,138	14,014
194.74	5,146	14,065
194.75	5,154	14,117
194.76	5,162	14,168
194.77	5,170	14,220
194.78	5,178	14,272
194.79	5,186	14,324
194.80	5,194	14,375
194.81	5,202	14,427
194.82	5,210	14,480
194.83	5,218	14,532
194.84	5,227	14,584
194.85	5,235	14,636
194.86	5,243	14,689
194.87	5,251	14,741
194.88	5,259	14,794
194.89	5,267	14,846
194.90	5,275	14,899
194.91	5,283	14,952
194.92	5,291	15,005
194.93	5,299	15,058
194.94	5,307	15,111
194.95	5,316	15,164
194.96	5,324	15,217
194.97	5,332	15,270
194.98	5,340	15,324
194.99	5,348	15,377
195.00	5,356	15,431
195.01	5,386	15,484
195.02	5,417	15,538
195.03	5,447	15,593
195.04	5,477	15,647
195.05	5,507	15,702
195.06	5,538	15,757
195.07	5,568	15,813
195.08	5,598	15,869
195.09	5,629	15,925
195.10	5,659	15,981
195.11	5,689	16,038
195.12	5,719	16,095
195.13	5,750	16,152
195.14	5,780	16,210
195.15	5,810	16,268
195.16	5,840	16,326
195.17	5,871	16,385
195.18	5,901	16,444
195.19	5,931	16,503
195.20	5,962	16,562
195.21	5,992	16,622
195.22	6,022	16,682
195.23	6,052	16,742
195.24	6,083	16,803
195.25	**6,113**	**16,864**

Summary for Pond B-37A: Basin #37A

Inflow Area = 2.154 ac, 39.65% Impervious, Inflow Depth = 6.60" for Current 100 yr event
Inflow = 14.48 cfs @ 12.17 hrs, Volume= 1.185 af
Outflow = 11.87 cfs @ 12.24 hrs, Volume= 1.102 af, Atten= 18%, Lag= 4.2 min
Primary = 11.87 cfs @ 12.24 hrs, Volume= 1.102 af
Routed to Link PDA-3 : Proposed Drainage Area #3

Routing by Stor-Ind method, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
Peak Elev= 197.42' @ 12.24 hrs Surf.Area= 5,429 sf Storage= 15,256 cf

Plug-Flow detention time= 167.9 min calculated for 1.101 af (93% of inflow)
Center-of-Mass det. time= 129.9 min (912.2 - 782.3)

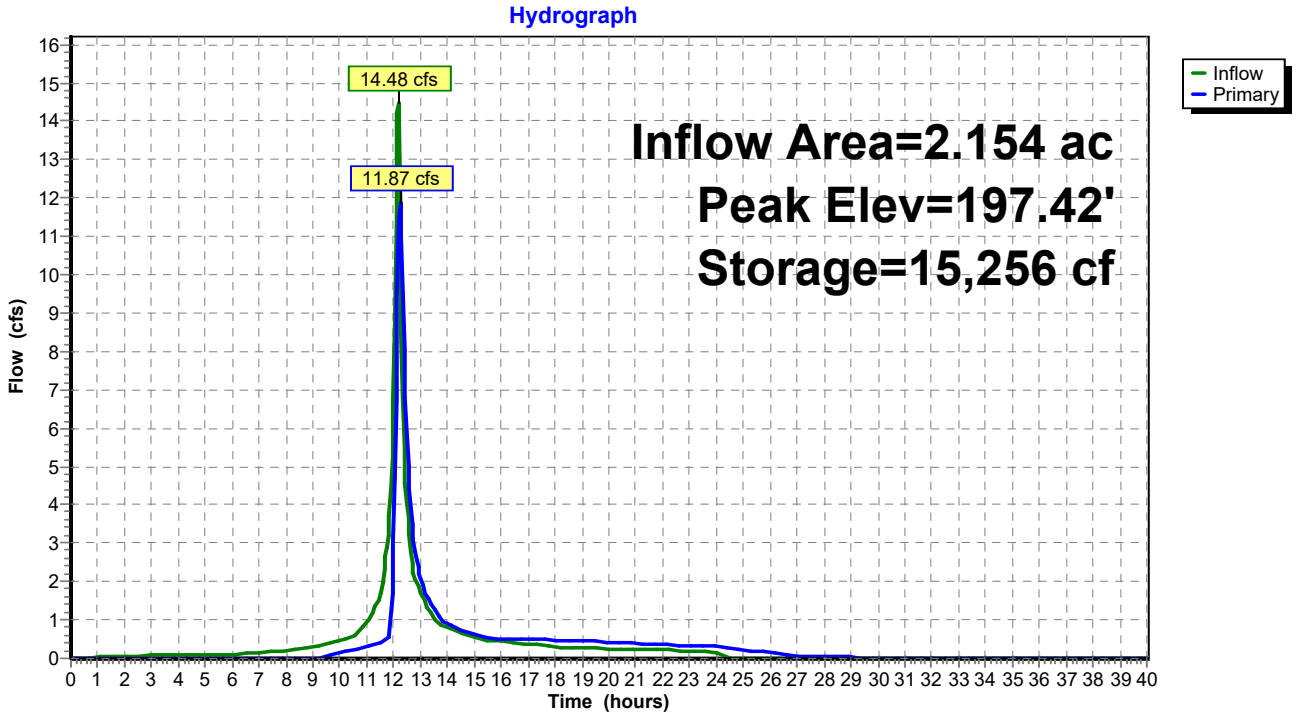
Volume	Invert	Avail.Storage	Storage Description
#1	193.30'	18,546 cf	**Custom Stage Data (Prismatic)** Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
193.30	0	0	0
194.00	2,990	1,046	1,046
195.00	3,633	3,312	4,358
196.00	4,332	3,983	8,340
197.00	5,089	4,711	13,051
198.00	5,901	5,495	18,546

Device	Routing	Invert	Outlet Devices
#1	Primary	192.65'	**18.0" Round Culvert** L= 265.0' Ke= 0.500 Inlet / Outlet Invert= 192.65' / 191.33' S= 0.0050 '/' Cc= 0.900 n= 0.013, Flow Area= 1.77 sf
#2	Device 1	194.77'	**4.0" Vert. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#3	Device 1	196.48'	**4.0' long Sharp-Crested Rectangular Weir** 2 End Contraction(s)
#4	Primary	197.95'	**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=11.90 cfs @ 12.24 hrs HW=197.41' (Free Discharge)
- **1=Culvert** (Passes 11.90 cfs of 12.05 cfs potential flow)
  - **2=Orifice/Grate** (Orifice Controls 0.66 cfs @ 7.58 fps)
  - **3=Sharp-Crested Rectangular Weir** (Weir Controls 11.24 cfs @ 3.16 fps)
- **4=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)

Pond B-37A: Basin #37A



Stage-Discharge for Pond B-37A: Basin #37A

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
193.30	0.00	193.82	0.00	194.34	0.00	194.86	0.02
193.31	0.00	193.83	0.00	194.35	0.00	194.87	0.02
193.32	0.00	193.84	0.00	194.36	0.00	194.88	0.03
193.33	0.00	193.85	0.00	194.37	0.00	194.89	0.03
193.34	0.00	193.86	0.00	194.38	0.00	194.90	0.04
193.35	0.00	193.87	0.00	194.39	0.00	194.91	0.04
193.36	0.00	193.88	0.00	194.40	0.00	194.92	0.05
193.37	0.00	193.89	0.00	194.41	0.00	194.93	0.06
193.38	0.00	193.90	0.00	194.42	0.00	194.94	0.06
193.39	0.00	193.91	0.00	194.43	0.00	194.95	0.07
193.40	0.00	193.92	0.00	194.44	0.00	194.96	0.08
193.41	0.00	193.93	0.00	194.45	0.00	194.97	0.08
193.42	0.00	193.94	0.00	194.46	0.00	194.98	0.09
193.43	0.00	193.95	0.00	194.47	0.00	194.99	0.10
193.44	0.00	193.96	0.00	194.48	0.00	195.00	0.10
193.45	0.00	193.97	0.00	194.49	0.00	195.01	0.11
193.46	0.00	193.98	0.00	194.50	0.00	195.02	0.12
193.47	0.00	193.99	0.00	194.51	0.00	195.03	0.13
193.48	0.00	194.00	0.00	194.52	0.00	195.04	0.13
193.49	0.00	194.01	0.00	194.53	0.00	195.05	0.14
193.50	0.00	194.02	0.00	194.54	0.00	195.06	0.15
193.51	0.00	194.03	0.00	194.55	0.00	195.07	0.15
193.52	0.00	194.04	0.00	194.56	0.00	195.08	0.16
193.53	0.00	194.05	0.00	194.57	0.00	195.09	0.17
193.54	0.00	194.06	0.00	194.58	0.00	195.10	0.17
193.55	0.00	194.07	0.00	194.59	0.00	195.11	0.17
193.56	0.00	194.08	0.00	194.60	0.00	195.12	0.18
193.57	0.00	194.09	0.00	194.61	0.00	195.13	0.18
193.58	0.00	194.10	0.00	194.62	0.00	195.14	0.19
193.59	0.00	194.11	0.00	194.63	0.00	195.15	0.19
193.60	0.00	194.12	0.00	194.64	0.00	195.16	0.20
193.61	0.00	194.13	0.00	194.65	0.00	195.17	0.20
193.62	0.00	194.14	0.00	194.66	0.00	195.18	0.21
193.63	0.00	194.15	0.00	194.67	0.00	195.19	0.21
193.64	0.00	194.16	0.00	194.68	0.00	195.20	0.22
193.65	0.00	194.17	0.00	194.69	0.00	195.21	0.22
193.66	0.00	194.18	0.00	194.70	0.00	195.22	0.22
193.67	0.00	194.19	0.00	194.71	0.00	195.23	0.23
193.68	0.00	194.20	0.00	194.72	0.00	195.24	0.23
193.69	0.00	194.21	0.00	194.73	0.00	195.25	0.24
193.70	0.00	194.22	0.00	194.74	0.00	195.26	0.24
193.71	0.00	194.23	0.00	194.75	0.00	195.27	0.24
193.72	0.00	194.24	0.00	194.76	0.00	195.28	0.25
193.73	0.00	194.25	0.00	194.77	0.00	195.29	0.25
193.74	0.00	194.26	0.00	194.78	0.00	195.30	0.25
193.75	0.00	194.27	0.00	194.79	0.00	195.31	0.26
193.76	0.00	194.28	0.00	194.80	0.00	195.32	0.26
193.77	0.00	194.29	0.00	194.81	0.00	195.33	0.26
193.78	0.00	194.30	0.00	194.82	0.01	195.34	0.27
193.79	0.00	194.31	0.00	194.83	0.01	195.35	0.27
193.80	0.00	194.32	0.00	194.84	0.01	195.36	0.27
193.81	0.00	194.33	0.00	194.85	0.02	195.37	0.28

Stage-Discharge for Pond B-37A: Basin #37A (continued)

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
195.38	0.28	195.90	0.41	196.42	0.51	196.94	4.58
195.39	0.28	195.91	0.41	196.43	0.51	196.95	4.71
195.40	0.29	195.92	0.42	196.44	0.52	196.96	4.84
195.41	0.29	195.93	0.42	196.45	0.52	196.97	4.98
195.42	0.29	195.94	0.42	196.46	0.52	196.98	5.11
195.43	0.30	195.95	0.42	196.47	0.52	196.99	5.24
195.44	0.30	195.96	0.43	196.48	0.52	197.00	5.38
195.45	0.30	195.97	0.43	196.49	0.54	197.01	5.52
195.46	0.30	195.98	0.43	196.50	0.56	197.02	5.66
195.47	0.31	195.99	0.43	196.51	0.59	197.03	5.80
195.48	0.31	196.00	0.43	196.52	0.63	197.04	5.94
195.49	0.31	196.01	0.44	196.53	0.68	197.05	6.08
195.50	0.32	196.02	0.44	196.54	0.72	197.06	6.22
195.51	0.32	196.03	0.44	196.55	0.78	197.07	6.37
195.52	0.32	196.04	0.44	196.56	0.83	197.08	6.51
195.53	0.32	196.05	0.44	196.57	0.89	197.09	6.66
195.54	0.33	196.06	0.45	196.58	0.95	197.10	6.81
195.55	0.33	196.07	0.45	196.59	1.01	197.11	6.95
195.56	0.33	196.08	0.45	196.60	1.08	197.12	7.10
195.57	0.33	196.09	0.45	196.61	1.15	197.13	7.25
195.58	0.34	196.10	0.45	196.62	1.23	197.14	7.41
195.59	0.34	196.11	0.46	196.63	1.30	197.15	7.56
195.60	0.34	196.12	0.46	196.64	1.38	197.16	7.71
195.61	0.34	196.13	0.46	196.65	1.46	197.17	7.87
195.62	0.35	196.14	0.46	196.66	1.54	197.18	8.02
195.63	0.35	196.15	0.46	196.67	1.63	197.19	8.18
195.64	0.35	196.16	0.46	196.68	1.71	197.20	8.34
195.65	0.35	196.17	0.47	196.69	1.80	197.21	8.49
195.66	0.36	196.18	0.47	196.70	1.89	197.22	8.65
195.67	0.36	196.19	0.47	196.71	1.99	197.23	8.81
195.68	0.36	196.20	0.47	196.72	2.08	197.24	8.97
195.69	0.36	196.21	0.47	196.73	2.18	197.25	9.14
195.70	0.37	196.22	0.48	196.74	2.28	197.26	9.30
195.71	0.37	196.23	0.48	196.75	2.38	197.27	9.46
195.72	0.37	196.24	0.48	196.76	2.48	197.28	9.63
195.73	0.37	196.25	0.48	196.77	2.58	197.29	9.79
195.74	0.38	196.26	0.48	196.78	2.69	197.30	9.96
195.75	0.38	196.27	0.49	196.79	2.79	197.31	10.13
195.76	0.38	196.28	0.49	196.80	2.90	197.32	10.30
195.77	0.38	196.29	0.49	196.81	3.01	197.33	10.46
195.78	0.39	196.30	0.49	196.82	3.13	197.34	10.63
195.79	0.39	196.31	0.49	196.83	3.24	197.35	10.81
195.80	0.39	196.32	0.49	196.84	3.35	197.36	10.98
195.81	0.39	196.33	0.50	196.85	3.47	197.37	11.15
195.82	0.39	196.34	0.50	196.86	3.59	197.38	11.32
195.83	0.40	196.35	0.50	196.87	3.71	197.39	11.50
195.84	0.40	196.36	0.50	196.88	3.83	197.40	11.67
195.85	0.40	196.37	0.50	196.89	3.95	197.41	11.85
195.86	0.40	196.38	0.50	196.90	4.07	197.42	12.02
195.87	0.41	196.39	0.51	196.91	4.20	197.43	12.07
195.88	0.41	196.40	0.51	196.92	4.33	197.44	12.09
195.89	0.41	196.41	0.51	196.93	4.45	197.45	12.10

Stage-Discharge for Pond B-37A: Basin #37A (continued)

Elevation (feet)	Primary (cfs)
197.46	12.11
197.47	12.13
197.48	12.14
197.49	12.15
197.50	12.17
197.51	12.18
197.52	12.19
197.53	12.20
197.54	12.22
197.55	12.23
197.56	12.24
197.57	12.26
197.58	12.27
197.59	12.28
197.60	12.29
197.61	12.31
197.62	12.32
197.63	12.33
197.64	12.35
197.65	12.36
197.66	12.37
197.67	12.38
197.68	12.40
197.69	12.41
197.70	12.42
197.71	12.44
197.72	12.45
197.73	12.46
197.74	12.47
197.75	12.49
197.76	12.50
197.77	12.51
197.78	12.52
197.79	12.54
197.80	12.55
197.81	12.56
197.82	12.57
197.83	12.59
197.84	12.60
197.85	12.61
197.86	12.63
197.87	12.64
197.88	12.65
197.89	12.66
197.90	12.68
197.91	12.69
197.92	12.70
197.93	12.71
197.94	12.73
197.95	12.74
197.96	12.87
197.97	13.09
197.98	13.38
197.99	13.73
198.00	**14.11**

Stage-Area-Storage for Pond B-37A: Basin #37A

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
193.30	0	0
193.31	43	0
193.32	85	1
193.33	128	2
193.34	171	3
193.35	214	5
193.36	256	8
193.37	299	10
193.38	342	14
193.39	384	17
193.40	427	21
193.41	470	26
193.42	513	31
193.43	555	36
193.44	598	42
193.45	641	48
193.46	683	55
193.47	726	62
193.48	769	69
193.49	812	77
193.50	854	85
193.51	897	94
193.52	940	103
193.53	982	113
193.54	1,025	123
193.55	1,068	133
193.56	1,111	144
193.57	1,153	156
193.58	1,196	167
193.59	1,239	180
193.60	1,281	192
193.61	1,324	205
193.62	1,367	219
193.63	1,410	233
193.64	1,452	247
193.65	1,495	262
193.66	1,538	277
193.67	1,580	292
193.68	1,623	308
193.69	1,666	325
193.70	1,709	342
193.71	1,751	359
193.72	1,794	377
193.73	1,837	395
193.74	1,879	413
193.75	1,922	432
193.76	1,965	452
193.77	2,008	472
193.78	2,050	492
193.79	2,093	513
193.80	2,136	534
193.81	2,178	555
193.82	2,221	577
193.83	2,264	600
193.84	2,307	623
193.85	2,349	646
193.86	2,392	670
193.87	2,435	694
193.88	2,477	718
193.89	2,520	743
193.90	2,563	769
193.91	2,606	795
193.92	2,648	821
193.93	2,691	848
193.94	2,734	875
193.95	2,776	902
193.96	2,819	930
193.97	2,862	959
193.98	2,905	988
193.99	2,947	1,017
194.00	2,990	1,046
194.01	2,996	1,076
194.02	3,003	1,106
194.03	3,009	1,136
194.04	3,016	1,167
194.05	3,022	1,197
194.06	3,029	1,227
194.07	3,035	1,257
194.08	3,041	1,288
194.09	3,048	1,318
194.10	3,054	1,349
194.11	3,061	1,379
194.12	3,067	1,410
194.13	3,074	1,441
194.14	3,080	1,471
194.15	3,086	1,502
194.16	3,093	1,533
194.17	3,099	1,564
194.18	3,106	1,595
194.19	3,112	1,626
194.20	3,119	1,657
194.21	3,125	1,689
194.22	3,131	1,720
194.23	3,138	1,751
194.24	3,144	1,783
194.25	3,151	1,814
194.26	3,157	1,846
194.27	3,164	1,877
194.28	3,170	1,909
194.29	3,176	1,941
194.30	3,183	1,972
194.31	3,189	2,004
194.32	3,196	2,036
194.33	3,202	2,068

Stage-Area-Storage for Pond B-37A: Basin #37A (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
194.34	3,209	2,100
194.35	3,215	2,132
194.36	3,221	2,165
194.37	3,228	2,197
194.38	3,234	2,229
194.39	3,241	2,262
194.40	3,247	2,294
194.41	3,254	2,326
194.42	3,260	2,359
194.43	3,266	2,392
194.44	3,273	2,424
194.45	3,279	2,457
194.46	3,286	2,490
194.47	3,292	2,523
194.48	3,299	2,556
194.49	3,305	2,589
194.50	3,312	2,622
194.51	3,318	2,655
194.52	3,324	2,688
194.53	3,331	2,722
194.54	3,337	2,755
194.55	3,344	2,788
194.56	3,350	2,822
194.57	3,357	2,855
194.58	3,363	2,889
194.59	3,369	2,923
194.60	3,376	2,956
194.61	3,382	2,990
194.62	3,389	3,024
194.63	3,395	3,058
194.64	3,402	3,092
194.65	3,408	3,126
194.66	3,414	3,160
194.67	3,421	3,194
194.68	3,427	3,228
194.69	3,434	3,263
194.70	3,440	3,297
194.71	3,447	3,331
194.72	3,453	3,366
194.73	3,459	3,401
194.74	3,466	3,435
194.75	3,472	3,470
194.76	3,479	3,505
194.77	3,485	3,539
194.78	3,492	3,574
194.79	3,498	3,609
194.80	3,504	3,644
194.81	3,511	3,679
194.82	3,517	3,714
194.83	3,524	3,750
194.84	3,530	3,785
194.85	3,537	3,820
194.86	3,543	3,856
194.87	3,549	3,891
194.88	3,556	3,927
194.89	3,562	3,962
194.90	3,569	3,998
194.91	3,575	4,034
194.92	3,582	4,069
194.93	3,588	4,105
194.94	3,594	4,141
194.95	3,601	4,177
194.96	3,607	4,213
194.97	3,614	4,249
194.98	3,620	4,285
194.99	3,627	4,322
195.00	3,633	4,358
195.01	3,640	4,394
195.02	3,647	4,431
195.03	3,654	4,467
195.04	3,661	4,504
195.05	3,668	4,541
195.06	3,675	4,577
195.07	3,682	4,614
195.08	3,689	4,651
195.09	3,696	4,688
195.10	3,703	4,725
195.11	3,710	4,762
195.12	3,717	4,799
195.13	3,724	4,836
195.14	3,731	4,873
195.15	3,738	4,911
195.16	3,745	4,948
195.17	3,752	4,986
195.18	3,759	5,023
195.19	3,766	5,061
195.20	3,773	5,099
195.21	3,780	5,136
195.22	3,787	5,174
195.23	3,794	5,212
195.24	3,801	5,250
195.25	3,808	5,288
195.26	3,815	5,326
195.27	3,822	5,364
195.28	3,829	5,403
195.29	3,836	5,441
195.30	3,843	5,479
195.31	3,850	5,518
195.32	3,857	5,556
195.33	3,864	5,595
195.34	3,871	5,634
195.35	3,878	5,672
195.36	3,885	5,711
195.37	3,892	5,750

Stage-Area-Storage for Pond B-37A: Basin #37A (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
195.38	3,899	5,789
195.39	3,906	5,828
195.40	3,913	5,867
195.41	3,920	5,906
195.42	3,927	5,946
195.43	3,934	5,985
195.44	3,941	6,024
195.45	3,948	6,064
195.46	3,955	6,103
195.47	3,962	6,143
195.48	3,969	6,182
195.49	3,976	6,222
195.50	3,983	6,262
195.51	3,989	6,302
195.52	3,996	6,342
195.53	4,003	6,382
195.54	4,010	6,422
195.55	4,017	6,462
195.56	4,024	6,502
195.57	4,031	6,542
195.58	4,038	6,583
195.59	4,045	6,623
195.60	4,052	6,664
195.61	4,059	6,704
195.62	4,066	6,745
195.63	4,073	6,786
195.64	4,080	6,826
195.65	4,087	6,867
195.66	4,094	6,908
195.67	4,101	6,949
195.68	4,108	6,990
195.69	4,115	7,031
195.70	4,122	7,072
195.71	4,129	7,114
195.72	4,136	7,155
195.73	4,143	7,196
195.74	4,150	7,238
195.75	4,157	7,279
195.76	4,164	7,321
195.77	4,171	7,363
195.78	4,178	7,404
195.79	4,185	7,446
195.80	4,192	7,488
195.81	4,199	7,530
195.82	4,206	7,572
195.83	4,213	7,614
195.84	4,220	7,656
195.85	4,227	7,699
195.86	4,234	7,741
195.87	4,241	7,783
195.88	4,248	7,826
195.89	4,255	7,868
195.90	4,262	7,911
195.91	4,269	7,953
195.92	4,276	7,996
195.93	4,283	8,039
195.94	4,290	8,082
195.95	4,297	8,125
195.96	4,304	8,168
195.97	4,311	8,211
195.98	4,318	8,254
195.99	4,325	8,297
196.00	4,332	8,340
196.01	4,340	8,384
196.02	4,347	8,427
196.03	4,355	8,471
196.04	4,362	8,514
196.05	4,370	8,558
196.06	4,377	8,602
196.07	4,385	8,646
196.08	4,393	8,689
196.09	4,400	8,733
196.10	4,408	8,777
196.11	4,415	8,822
196.12	4,423	8,866
196.13	4,430	8,910
196.14	4,438	8,954
196.15	4,446	8,999
196.16	4,453	9,043
196.17	4,461	9,088
196.18	4,468	9,133
196.19	4,476	9,177
196.20	4,483	9,222
196.21	4,491	9,267
196.22	4,499	9,312
196.23	4,506	9,357
196.24	4,514	9,402
196.25	4,521	9,447
196.26	4,529	9,492
196.27	4,536	9,538
196.28	4,544	9,583
196.29	4,552	9,629
196.30	4,559	9,674
196.31	4,567	9,720
196.32	4,574	9,765
196.33	4,582	9,811
196.34	4,589	9,857
196.35	4,597	9,903
196.36	4,605	9,949
196.37	4,612	9,995
196.38	4,620	10,041
196.39	4,627	10,088
196.40	4,635	10,134
196.41	4,642	10,180

Stage-Area-Storage for Pond B-37A: Basin #37A (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
196.42	4,650	10,227	196.94	5,044	12,747
196.43	4,658	10,273	196.95	5,051	12,797
196.44	4,665	10,320	196.96	5,059	12,848
196.45	4,673	10,367	196.97	5,066	12,899
196.46	4,680	10,413	196.98	5,074	12,949
196.47	4,688	10,460	196.99	5,081	13,000
196.48	4,695	10,507	197.00	5,089	13,051
196.49	4,703	10,554	197.01	5,097	13,102
196.50	4,711	10,601	197.02	5,105	13,153
196.51	4,718	10,648	197.03	5,113	13,204
196.52	4,726	10,695	197.04	5,121	13,255
196.53	4,733	10,743	197.05	5,130	13,306
196.54	4,741	10,790	197.06	5,138	13,358
196.55	4,748	10,838	197.07	5,146	13,409
196.56	4,756	10,885	197.08	5,154	13,461
196.57	4,763	10,933	197.09	5,162	13,512
196.58	4,771	10,980	197.10	5,170	13,564
196.59	4,779	11,028	197.11	5,178	13,616
196.60	4,786	11,076	197.12	5,186	13,668
196.61	4,794	11,124	197.13	5,195	13,719
196.62	4,801	11,172	197.14	5,203	13,771
196.63	4,809	11,220	197.15	5,211	13,823
196.64	4,816	11,268	197.16	5,219	13,876
196.65	4,824	11,316	197.17	5,227	13,928
196.66	4,832	11,364	197.18	5,235	13,980
196.67	4,839	11,413	197.19	5,243	14,033
196.68	4,847	11,461	197.20	5,251	14,085
196.69	4,854	11,510	197.21	5,260	14,138
196.70	4,862	11,558	197.22	5,268	14,190
196.71	4,869	11,607	197.23	5,276	14,243
196.72	4,877	11,656	197.24	5,284	14,296
196.73	4,885	11,705	197.25	5,292	14,349
196.74	4,892	11,753	197.26	5,300	14,402
196.75	4,900	11,802	197.27	5,308	14,455
196.76	4,907	11,851	197.28	5,316	14,508
196.77	4,915	11,901	197.29	5,324	14,561
196.78	4,922	11,950	197.30	5,333	14,614
196.79	4,930	11,999	197.31	5,341	14,668
196.80	4,938	12,048	197.32	5,349	14,721
196.81	4,945	12,098	197.33	5,357	14,775
196.82	4,953	12,147	197.34	5,365	14,828
196.83	4,960	12,197	197.35	5,373	14,882
196.84	4,968	12,246	197.36	5,381	14,936
196.85	4,975	12,296	197.37	5,389	14,990
196.86	4,983	12,346	197.38	5,398	15,043
196.87	4,991	12,396	197.39	5,406	15,097
196.88	4,998	12,446	197.40	5,414	15,152
196.89	5,006	12,496	197.41	5,422	15,206
196.90	5,013	12,546	197.42	5,430	15,260
196.91	5,021	12,596	197.43	5,438	15,314
196.92	5,028	12,646	197.44	5,446	15,369
196.93	5,036	12,697	197.45	5,454	15,423

Stage-Area-Storage for Pond B-37A: Basin #37A (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
197.46	5,463	15,478
197.47	5,471	15,533
197.48	5,479	15,587
197.49	5,487	15,642
197.50	5,495	15,697
197.51	5,503	15,752
197.52	5,511	15,807
197.53	5,519	15,862
197.54	5,527	15,917
197.55	5,536	15,973
197.56	5,544	16,028
197.57	5,552	16,084
197.58	5,560	16,139
197.59	5,568	16,195
197.60	5,576	16,251
197.61	5,584	16,306
197.62	5,592	16,362
197.63	5,601	16,418
197.64	5,609	16,474
197.65	5,617	16,530
197.66	5,625	16,587
197.67	5,633	16,643
197.68	5,641	16,699
197.69	5,649	16,756
197.70	5,657	16,812
197.71	5,666	16,869
197.72	5,674	16,926
197.73	5,682	16,982
197.74	5,690	17,039
197.75	5,698	17,096
197.76	5,706	17,153
197.77	5,714	17,210
197.78	5,722	17,267
197.79	5,730	17,325
197.80	5,739	17,382
197.81	5,747	17,439
197.82	5,755	17,497
197.83	5,763	17,555
197.84	5,771	17,612
197.85	5,779	17,670
197.86	5,787	17,728
197.87	5,795	17,786
197.88	5,804	17,844
197.89	5,812	17,902
197.90	5,820	17,960
197.91	5,828	18,018
197.92	5,836	18,077
197.93	5,844	18,135
197.94	5,852	18,193
197.95	5,860	18,252
197.96	5,869	18,311
197.97	5,877	18,369
197.98	5,885	18,428
197.99	5,893	18,487
198.00	**5,901**	**18,546**

Summary for Pond B-37B: Basin #37B

Inflow Area = 2.179 ac, 53.42% Impervious, Inflow Depth = 7.00" for Current 100 yr event
Inflow = 15.21 cfs @ 12.17 hrs, Volume= 1.271 af
Outflow = 11.21 cfs @ 12.26 hrs, Volume= 1.131 af, Atten= 26%, Lag= 5.6 min
Primary = 11.21 cfs @ 12.26 hrs, Volume= 1.131 af
Routed to Link PDA-3 : Proposed Drainage Area #3

Routing by Stor-Ind method, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
Peak Elev= 197.55' @ 12.26 hrs Surf.Area= 7,571 sf Storage= 21,094 cf

Plug-Flow detention time= 311.6 min calculated for 1.131 af (89% of inflow)
Center-of-Mass det. time= 255.6 min (1,027.7 - 772.0)

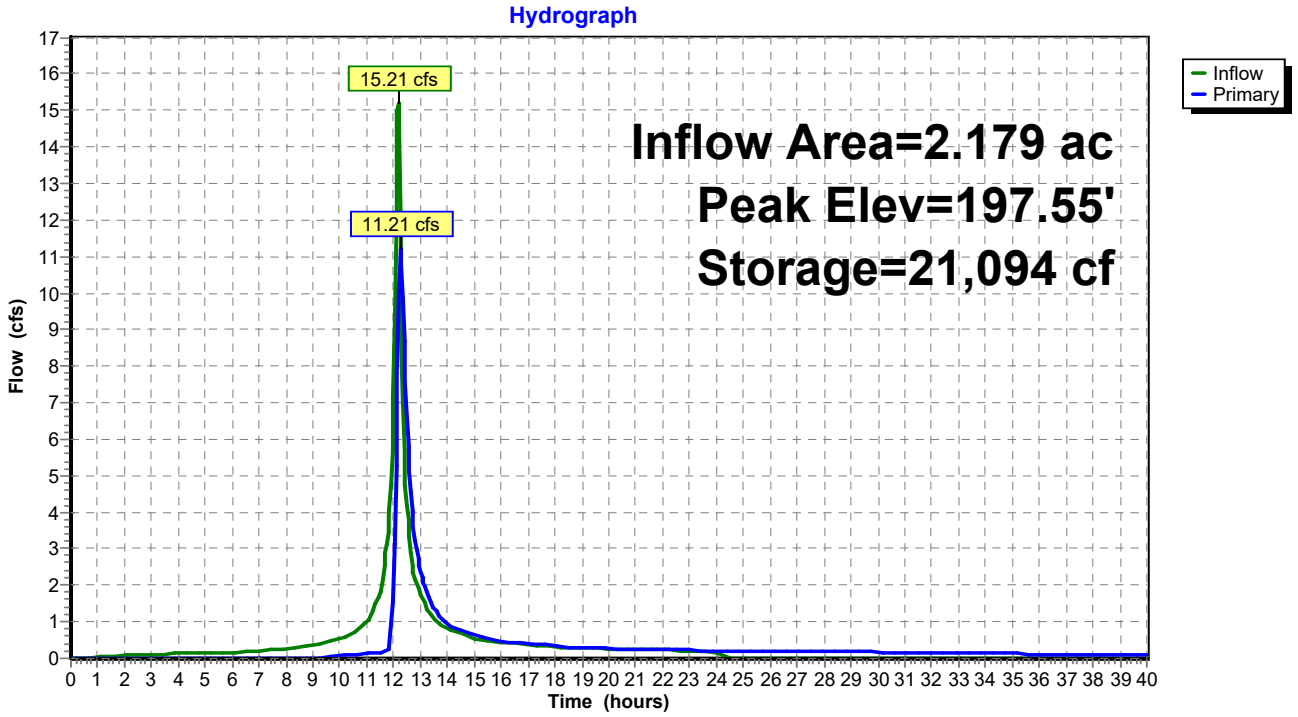
Volume	Invert	Avail.Storage	Storage Description
#1	193.30'	24,651 cf	**Custom Stage Data (Prismatic)** Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
193.30	0	0	0
194.00	3,709	1,298	1,298
195.00	4,724	4,217	5,515
196.00	5,796	5,260	10,775
197.00	6,924	6,360	17,135
198.00	8,108	7,516	24,651

Device	Routing	Invert	Outlet Devices
#1	Primary	192.65'	**18.0" Round Culvert** L= 265.0' Ke= 0.500 Inlet / Outlet Invert= 192.65' / 191.33' S= 0.0050 '/' Cc= 0.900 n= 0.013, Flow Area= 1.77 sf
#2	Device 1	194.81'	**2.5" Vert. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#3	Device 1	196.63'	**4.0' long Sharp-Crested Rectangular Weir** 2 End Contraction(s)
#4	Primary	197.95'	**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=11.08 cfs @ 12.26 hrs HW=197.54' (Free Discharge)
- **1=Culvert** (Passes 11.08 cfs of 12.22 cfs potential flow)
  - **2=Orifice/Grate** (Orifice Controls 0.27 cfs @ 7.80 fps)
  - **3=Sharp-Crested Rectangular Weir** (Weir Controls 10.81 cfs @ 3.12 fps)
- **4=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)

Pond B-37B: Basin #37B



Stage-Discharge for Pond B-37B: Basin #37B

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
193.30	0.00	193.82	0.00	194.34	0.00	194.86	0.00
193.31	0.00	193.83	0.00	194.35	0.00	194.87	0.01
193.32	0.00	193.84	0.00	194.36	0.00	194.88	0.01
193.33	0.00	193.85	0.00	194.37	0.00	194.89	0.01
193.34	0.00	193.86	0.00	194.38	0.00	194.90	0.01
193.35	0.00	193.87	0.00	194.39	0.00	194.91	0.02
193.36	0.00	193.88	0.00	194.40	0.00	194.92	0.02
193.37	0.00	193.89	0.00	194.41	0.00	194.93	0.02
193.38	0.00	193.90	0.00	194.42	0.00	194.94	0.03
193.39	0.00	193.91	0.00	194.43	0.00	194.95	0.03
193.40	0.00	193.92	0.00	194.44	0.00	194.96	0.03
193.41	0.00	193.93	0.00	194.45	0.00	194.97	0.04
193.42	0.00	193.94	0.00	194.46	0.00	194.98	0.04
193.43	0.00	193.95	0.00	194.47	0.00	194.99	0.05
193.44	0.00	193.96	0.00	194.48	0.00	195.00	0.05
193.45	0.00	193.97	0.00	194.49	0.00	195.01	0.05
193.46	0.00	193.98	0.00	194.50	0.00	195.02	0.05
193.47	0.00	193.99	0.00	194.51	0.00	195.03	0.06
193.48	0.00	194.00	0.00	194.52	0.00	195.04	0.06
193.49	0.00	194.01	0.00	194.53	0.00	195.05	0.06
193.50	0.00	194.02	0.00	194.54	0.00	195.06	0.06
193.51	0.00	194.03	0.00	194.55	0.00	195.07	0.06
193.52	0.00	194.04	0.00	194.56	0.00	195.08	0.07
193.53	0.00	194.05	0.00	194.57	0.00	195.09	0.07
193.54	0.00	194.06	0.00	194.58	0.00	195.10	0.07
193.55	0.00	194.07	0.00	194.59	0.00	195.11	0.07
193.56	0.00	194.08	0.00	194.60	0.00	195.12	0.07
193.57	0.00	194.09	0.00	194.61	0.00	195.13	0.08
193.58	0.00	194.10	0.00	194.62	0.00	195.14	0.08
193.59	0.00	194.11	0.00	194.63	0.00	195.15	0.08
193.60	0.00	194.12	0.00	194.64	0.00	195.16	0.08
193.61	0.00	194.13	0.00	194.65	0.00	195.17	0.08
193.62	0.00	194.14	0.00	194.66	0.00	195.18	0.08
193.63	0.00	194.15	0.00	194.67	0.00	195.19	0.09
193.64	0.00	194.16	0.00	194.68	0.00	195.20	0.09
193.65	0.00	194.17	0.00	194.69	0.00	195.21	0.09
193.66	0.00	194.18	0.00	194.70	0.00	195.22	0.09
193.67	0.00	194.19	0.00	194.71	0.00	195.23	0.09
193.68	0.00	194.20	0.00	194.72	0.00	195.24	0.09
193.69	0.00	194.21	0.00	194.73	0.00	195.25	0.10
193.70	0.00	194.22	0.00	194.74	0.00	195.26	0.10
193.71	0.00	194.23	0.00	194.75	0.00	195.27	0.10
193.72	0.00	194.24	0.00	194.76	0.00	195.28	0.10
193.73	0.00	194.25	0.00	194.77	0.00	195.29	0.10
193.74	0.00	194.26	0.00	194.78	0.00	195.30	0.10
193.75	0.00	194.27	0.00	194.79	0.00	195.31	0.10
193.76	0.00	194.28	0.00	194.80	0.00	195.32	0.10
193.77	0.00	194.29	0.00	194.81	0.00	195.33	0.11
193.78	0.00	194.30	0.00	194.82	0.00	195.34	0.11
193.79	0.00	194.31	0.00	194.83	0.00	195.35	0.11
193.80	0.00	194.32	0.00	194.84	0.00	195.36	0.11
193.81	0.00	194.33	0.00	194.85	0.00	195.37	0.11

Stage-Discharge for Pond B-37B: Basin #37B (continued)

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
195.38	0.11	195.90	0.16	196.42	0.20	196.94	2.46
195.39	0.11	195.91	0.16	196.43	0.20	196.95	2.56
195.40	0.11	195.92	0.16	196.44	0.20	196.96	2.67
195.41	0.12	195.93	0.17	196.45	0.20	196.97	2.78
195.42	0.12	195.94	0.17	196.46	0.20	196.98	2.90
195.43	0.12	195.95	0.17	196.47	0.20	196.99	3.01
195.44	0.12	195.96	0.17	196.48	0.21	197.00	3.13
195.45	0.12	195.97	0.17	196.49	0.21	197.01	3.24
195.46	0.12	195.98	0.17	196.50	0.21	197.02	3.36
195.47	0.12	195.99	0.17	196.51	0.21	197.03	3.48
195.48	0.12	196.00	0.17	196.52	0.21	197.04	3.60
195.49	0.12	196.01	0.17	196.53	0.21	197.05	3.73
195.50	0.13	196.02	0.17	196.54	0.21	197.06	3.85
195.51	0.13	196.03	0.17	196.55	0.21	197.07	3.97
195.52	0.13	196.04	0.17	196.56	0.21	197.08	4.10
195.53	0.13	196.05	0.17	196.57	0.21	197.09	4.23
195.54	0.13	196.06	0.18	196.58	0.21	197.10	4.36
195.55	0.13	196.07	0.18	196.59	0.21	197.11	4.49
195.56	0.13	196.08	0.18	196.60	0.21	197.12	4.62
195.57	0.13	196.09	0.18	196.61	0.21	197.13	4.75
195.58	0.13	196.10	0.18	196.62	0.21	197.14	4.89
195.59	0.13	196.11	0.18	196.63	0.22	197.15	5.02
195.60	0.14	196.12	0.18	196.64	0.23	197.16	5.16
195.61	0.14	196.13	0.18	196.65	0.25	197.17	5.30
195.62	0.14	196.14	0.18	196.66	0.28	197.18	5.44
195.63	0.14	196.15	0.18	196.67	0.32	197.19	5.58
195.64	0.14	196.16	0.18	196.68	0.36	197.20	5.72
195.65	0.14	196.17	0.18	196.69	0.41	197.21	5.86
195.66	0.14	196.18	0.18	196.70	0.46	197.22	6.00
195.67	0.14	196.19	0.19	196.71	0.51	197.23	6.15
195.68	0.14	196.20	0.19	196.72	0.57	197.24	6.29
195.69	0.14	196.21	0.19	196.73	0.63	197.25	6.44
195.70	0.15	196.22	0.19	196.74	0.70	197.26	6.59
195.71	0.15	196.23	0.19	196.75	0.76	197.27	6.73
195.72	0.15	196.24	0.19	196.76	0.83	197.28	6.88
195.73	0.15	196.25	0.19	196.77	0.90	197.29	7.03
195.74	0.15	196.26	0.19	196.78	0.98	197.30	7.19
195.75	0.15	196.27	0.19	196.79	1.06	197.31	7.34
195.76	0.15	196.28	0.19	196.80	1.13	197.32	7.49
195.77	0.15	196.29	0.19	196.81	1.22	197.33	7.65
195.78	0.15	196.30	0.19	196.82	1.30	197.34	7.80
195.79	0.15	196.31	0.19	196.83	1.39	197.35	7.96
195.80	0.15	196.32	0.19	196.84	1.47	197.36	8.12
195.81	0.16	196.33	0.20	196.85	1.56	197.37	8.28
195.82	0.16	196.34	0.20	196.86	1.66	197.38	8.43
195.83	0.16	196.35	0.20	196.87	1.75	197.39	8.60
195.84	0.16	196.36	0.20	196.88	1.84	197.40	8.76
195.85	0.16	196.37	0.20	196.89	1.94	197.41	8.92
195.86	0.16	196.38	0.20	196.90	2.04	197.42	9.08
195.87	0.16	196.39	0.20	196.91	2.14	197.43	9.25
195.88	0.16	196.40	0.20	196.92	2.25	197.44	9.41
195.89	0.16	196.41	0.20	196.93	2.35	197.45	9.58

Stage-Discharge for Pond B-37B: Basin #37B (continued)

Elevation (feet)	Primary (cfs)
197.46	9.74
197.47	9.91
197.48	10.08
197.49	10.25
197.50	10.42
197.51	10.59
197.52	10.76
197.53	10.93
197.54	11.10
197.55	11.28
197.56	11.45
197.57	11.63
197.58	11.80
197.59	11.98
197.60	12.16
197.61	12.31
197.62	12.32
197.63	12.33
197.64	12.35
197.65	12.36
197.66	12.37
197.67	12.38
197.68	12.40
197.69	12.41
197.70	12.42
197.71	12.44
197.72	12.45
197.73	12.46
197.74	12.47
197.75	12.49
197.76	12.50
197.77	12.51
197.78	12.52
197.79	12.54
197.80	12.55
197.81	12.56
197.82	12.57
197.83	12.59
197.84	12.60
197.85	12.61
197.86	12.63
197.87	12.64
197.88	12.65
197.89	12.66
197.90	12.68
197.91	12.69
197.92	12.70
197.93	12.71
197.94	12.73
197.95	12.74
197.96	12.87
197.97	13.09
197.98	13.38
197.99	13.73
198.00	**14.11**

Stage-Area-Storage for Pond B-37B: Basin #37B

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
193.30	0	0
193.31	53	0
193.32	106	1
193.33	159	2
193.34	212	4
193.35	265	7
193.36	318	10
193.37	371	13
193.38	424	17
193.39	477	21
193.40	530	26
193.41	583	32
193.42	636	38
193.43	689	45
193.44	742	52
193.45	795	60
193.46	848	68
193.47	901	77
193.48	954	86
193.49	1,007	96
193.50	1,060	106
193.51	1,113	117
193.52	1,166	128
193.53	1,219	140
193.54	1,272	153
193.55	1,325	166
193.56	1,378	179
193.57	1,431	193
193.58	1,484	208
193.59	1,537	223
193.60	1,590	238
193.61	1,643	255
193.62	1,696	271
193.63	1,749	289
193.64	1,802	306
193.65	1,855	325
193.66	1,907	343
193.67	1,960	363
193.68	2,013	383
193.69	2,066	403
193.70	2,119	424
193.71	2,172	445
193.72	2,225	467
193.73	2,278	490
193.74	2,331	513
193.75	2,384	536
193.76	2,437	561
193.77	2,490	585
193.78	2,543	610
193.79	2,596	636
193.80	2,649	662
193.81	2,702	689
193.82	2,755	716
193.83	2,808	744
193.84	2,861	773
193.85	2,914	801
193.86	2,967	831
193.87	3,020	861
193.88	3,073	891
193.89	3,126	922
193.90	3,179	954
193.91	3,232	986
193.92	3,285	1,018
193.93	3,338	1,052
193.94	3,391	1,085
193.95	3,444	1,119
193.96	3,497	1,154
193.97	3,550	1,189
193.98	3,603	1,225
193.99	3,656	1,261
194.00	3,709	1,298
194.01	3,719	1,335
194.02	3,729	1,373
194.03	3,739	1,410
194.04	3,750	1,447
194.05	3,760	1,485
194.06	3,770	1,523
194.07	3,780	1,560
194.08	3,790	1,598
194.09	3,800	1,636
194.10	3,811	1,674
194.11	3,821	1,712
194.12	3,831	1,751
194.13	3,841	1,789
194.14	3,851	1,827
194.15	3,861	1,866
194.16	3,871	1,905
194.17	3,882	1,943
194.18	3,892	1,982
194.19	3,902	2,021
194.20	3,912	2,060
194.21	3,922	2,099
194.22	3,932	2,139
194.23	3,942	2,178
194.24	3,953	2,218
194.25	3,963	2,257
194.26	3,973	2,297
194.27	3,983	2,337
194.28	3,993	2,376
194.29	4,003	2,416
194.30	4,014	2,457
194.31	4,024	2,497
194.32	4,034	2,537
194.33	4,044	2,577

Stage-Area-Storage for Pond B-37B: Basin #37B (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
194.34	4,054	2,618
194.35	4,064	2,658
194.36	4,074	2,699
194.37	4,085	2,740
194.38	4,095	2,781
194.39	4,105	2,822
194.40	4,115	2,863
194.41	4,125	2,904
194.42	4,135	2,945
194.43	4,145	2,987
194.44	4,156	3,028
194.45	4,166	3,070
194.46	4,176	3,112
194.47	4,186	3,153
194.48	4,196	3,195
194.49	4,206	3,237
194.50	4,217	3,280
194.51	4,227	3,322
194.52	4,237	3,364
194.53	4,247	3,406
194.54	4,257	3,449
194.55	4,267	3,492
194.56	4,277	3,534
194.57	4,288	3,577
194.58	4,298	3,620
194.59	4,308	3,663
194.60	4,318	3,706
194.61	4,328	3,749
194.62	4,338	3,793
194.63	4,348	3,836
194.64	4,359	3,880
194.65	4,369	3,923
194.66	4,379	3,967
194.67	4,389	4,011
194.68	4,399	4,055
194.69	4,409	4,099
194.70	4,420	4,143
194.71	4,430	4,187
194.72	4,440	4,232
194.73	4,450	4,276
194.74	4,460	4,321
194.75	4,470	4,365
194.76	4,480	4,410
194.77	4,491	4,455
194.78	4,501	4,500
194.79	4,511	4,545
194.80	4,521	4,590
194.81	4,531	4,635
194.82	4,541	4,681
194.83	4,551	4,726
194.84	4,562	4,772
194.85	4,572	4,817
194.86	4,582	4,863
194.87	4,592	4,909
194.88	4,602	4,955
194.89	4,612	5,001
194.90	4,623	5,047
194.91	4,633	5,094
194.92	4,643	5,140
194.93	4,653	5,186
194.94	4,663	5,233
194.95	4,673	5,280
194.96	4,683	5,327
194.97	4,694	5,373
194.98	4,704	5,420
194.99	4,714	5,467
195.00	4,724	5,515
195.01	4,735	5,562
195.02	4,745	5,609
195.03	4,756	5,657
195.04	4,767	5,704
195.05	4,778	5,752
195.06	4,788	5,800
195.07	4,799	5,848
195.08	4,810	5,896
195.09	4,820	5,944
195.10	4,831	5,992
195.11	4,842	6,041
195.12	4,853	6,089
195.13	4,863	6,138
195.14	4,874	6,187
195.15	4,885	6,235
195.16	4,896	6,284
195.17	4,906	6,333
195.18	4,917	6,382
195.19	4,928	6,432
195.20	4,938	6,481
195.21	4,949	6,530
195.22	4,960	6,580
195.23	4,971	6,630
195.24	4,981	6,679
195.25	4,992	6,729
195.26	5,003	6,779
195.27	5,013	6,829
195.28	5,024	6,879
195.29	5,035	6,930
195.30	5,046	6,980
195.31	5,056	7,031
195.32	5,067	7,081
195.33	5,078	7,132
195.34	5,088	7,183
195.35	5,099	7,234
195.36	5,110	7,285
195.37	5,121	7,336

Stage-Area-Storage for Pond B-37B: Basin #37B (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
195.38	5,131	7,387	195.90	5,689	10,200
195.39	5,142	7,439	195.91	5,700	10,257
195.40	5,153	7,490	195.92	5,710	10,314
195.41	5,164	7,542	195.93	5,721	10,372
195.42	5,174	7,593	195.94	5,732	10,429
195.43	5,185	7,645	195.95	5,742	10,486
195.44	5,196	7,697	195.96	5,753	10,544
195.45	5,206	7,749	195.97	5,764	10,601
195.46	5,217	7,801	195.98	5,775	10,659
195.47	5,228	7,853	195.99	5,785	10,717
195.48	5,239	7,906	196.00	5,796	10,775
195.49	5,249	7,958	196.01	5,807	10,833
195.50	5,260	8,011	196.02	5,819	10,891
195.51	5,271	8,063	196.03	5,830	10,949
195.52	5,281	8,116	196.04	5,841	11,007
195.53	5,292	8,169	196.05	5,852	11,066
195.54	5,303	8,222	196.06	5,864	11,124
195.55	5,314	8,275	196.07	5,875	11,183
195.56	5,324	8,328	196.08	5,886	11,242
195.57	5,335	8,381	196.09	5,898	11,301
195.58	5,346	8,435	196.10	5,909	11,360
195.59	5,356	8,488	196.11	5,920	11,419
195.60	5,367	8,542	196.12	5,931	11,478
195.61	5,378	8,596	196.13	5,943	11,538
195.62	5,389	8,650	196.14	5,954	11,597
195.63	5,399	8,704	196.15	5,965	11,657
195.64	5,410	8,758	196.16	5,976	11,716
195.65	5,421	8,812	196.17	5,988	11,776
195.66	5,432	8,866	196.18	5,999	11,836
195.67	5,442	8,920	196.19	6,010	11,896
195.68	5,453	8,975	196.20	6,022	11,956
195.69	5,464	9,029	196.21	6,033	12,017
195.70	5,474	9,084	196.22	6,044	12,077
195.71	5,485	9,139	196.23	6,055	12,138
195.72	5,496	9,194	196.24	6,067	12,198
195.73	5,507	9,249	196.25	6,078	12,259
195.74	5,517	9,304	196.26	6,089	12,320
195.75	5,528	9,359	196.27	6,101	12,381
195.76	5,539	9,414	196.28	6,112	12,442
195.77	5,549	9,470	196.29	6,123	12,503
195.78	5,560	9,525	196.30	6,134	12,564
195.79	5,571	9,581	196.31	6,146	12,626
195.80	5,582	9,637	196.32	6,157	12,687
195.81	5,592	9,693	196.33	6,168	12,749
195.82	5,603	9,749	196.34	6,180	12,810
195.83	5,614	9,805	196.35	6,191	12,872
195.84	5,624	9,861	196.36	6,202	12,934
195.85	5,635	9,917	196.37	6,213	12,996
195.86	5,646	9,974	196.38	6,225	13,059
195.87	5,657	10,030	196.39	6,236	13,121
195.88	5,667	10,087	196.40	6,247	13,183
195.89	5,678	10,144	196.41	6,258	13,246

Stage-Area-Storage for Pond B-37B: Basin #37B (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
196.42	6,270	13,308	196.94	6,856	16,721
196.43	6,281	13,371	196.95	6,868	16,790
196.44	6,292	13,434	196.96	6,879	16,859
196.45	6,304	13,497	196.97	6,890	16,927
196.46	6,315	13,560	196.98	6,901	16,996
196.47	6,326	13,623	196.99	6,913	17,065
196.48	6,337	13,687	197.00	6,924	17,135
196.49	6,349	13,750	197.01	6,936	17,204
196.50	6,360	13,814	197.02	6,948	17,273
196.51	6,371	13,877	197.03	6,960	17,343
196.52	6,383	13,941	197.04	6,971	17,413
196.53	6,394	14,005	197.05	6,983	17,482
196.54	6,405	14,069	197.06	6,995	17,552
196.55	6,416	14,133	197.07	7,007	17,622
196.56	6,428	14,197	197.08	7,019	17,692
196.57	6,439	14,262	197.09	7,031	17,763
196.58	6,450	14,326	197.10	7,042	17,833
196.59	6,462	14,391	197.11	7,054	17,903
196.60	6,473	14,455	197.12	7,066	17,974
196.61	6,484	14,520	197.13	7,078	18,045
196.62	6,495	14,585	197.14	7,090	18,116
196.63	6,507	14,650	197.15	7,102	18,187
196.64	6,518	14,715	197.16	7,113	18,258
196.65	6,529	14,780	197.17	7,125	18,329
196.66	6,540	14,846	197.18	7,137	18,400
196.67	6,552	14,911	197.19	7,149	18,472
196.68	6,563	14,977	197.20	7,161	18,543
196.69	6,574	15,042	197.21	7,173	18,615
196.70	6,586	15,108	197.22	7,184	18,687
196.71	6,597	15,174	197.23	7,196	18,758
196.72	6,608	15,240	197.24	7,208	18,831
196.73	6,619	15,306	197.25	7,220	18,903
196.74	6,631	15,373	197.26	7,232	18,975
196.75	6,642	15,439	197.27	7,244	19,047
196.76	6,653	15,505	197.28	7,256	19,120
196.77	6,665	15,572	197.29	7,267	19,192
196.78	6,676	15,639	197.30	7,279	19,265
196.79	6,687	15,705	197.31	7,291	19,338
196.80	6,698	15,772	197.32	7,303	19,411
196.81	6,710	15,839	197.33	7,315	19,484
196.82	6,721	15,907	197.34	7,327	19,557
196.83	6,732	15,974	197.35	7,338	19,631
196.84	6,744	16,041	197.36	7,350	19,704
196.85	6,755	16,109	197.37	7,362	19,778
196.86	6,766	16,176	197.38	7,374	19,851
196.87	6,777	16,244	197.39	7,386	19,925
196.88	6,789	16,312	197.40	7,398	19,999
196.89	6,800	16,380	197.41	7,409	20,073
196.90	6,811	16,448	197.42	7,421	20,147
196.91	6,822	16,516	197.43	7,433	20,221
196.92	6,834	16,584	197.44	7,445	20,296
196.93	6,845	16,653	197.45	7,457	20,370

Stage-Area-Storage for Pond B-37B: Basin #37B (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
197.46	7,469	20,445
197.47	7,480	20,520
197.48	7,492	20,595
197.49	7,504	20,670
197.50	7,516	20,745
197.51	7,528	20,820
197.52	7,540	20,895
197.53	7,552	20,971
197.54	7,563	21,046
197.55	7,575	21,122
197.56	7,587	21,198
197.57	7,599	21,274
197.58	7,611	21,350
197.59	7,623	21,426
197.60	7,634	21,502
197.61	7,646	21,579
197.62	7,658	21,655
197.63	7,670	21,732
197.64	7,682	21,808
197.65	7,694	21,885
197.66	7,705	21,962
197.67	7,717	22,039
197.68	7,729	22,117
197.69	7,741	22,194
197.70	7,753	22,272
197.71	7,765	22,349
197.72	7,776	22,427
197.73	7,788	22,505
197.74	7,800	22,583
197.75	7,812	22,661
197.76	7,824	22,739
197.77	7,836	22,817
197.78	7,848	22,896
197.79	7,859	22,974
197.80	7,871	23,053
197.81	7,883	23,132
197.82	7,895	23,210
197.83	7,907	23,289
197.84	7,919	23,369
197.85	7,930	23,448
197.86	7,942	23,527
197.87	7,954	23,607
197.88	7,966	23,686
197.89	7,978	23,766
197.90	7,990	23,846
197.91	8,001	23,926
197.92	8,013	24,006
197.93	8,025	24,086
197.94	8,037	24,166
197.95	8,049	24,247
197.96	8,061	24,327
197.97	8,072	24,408
197.98	8,084	24,489
197.99	8,096	24,570
198.00	**8,108**	**24,651**

Summary for Pond B-38: Basin #38

Inflow Area = 2.114 ac, 34.96% Impervious, Inflow Depth = 6.47" for Current 100 yr event
Inflow = 14.02 cfs @ 12.17 hrs, Volume= 1.139 af
Outflow = 10.27 cfs @ 12.27 hrs, Volume= 1.038 af, Atten= 27%, Lag= 5.7 min
Primary = 10.27 cfs @ 12.27 hrs, Volume= 1.038 af
Routed to Link PDA-3 : Proposed Drainage Area #3

Routing by Stor-Ind method, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
Peak Elev= 207.55' @ 12.27 hrs Surf.Area= 7,436 sf Storage= 17,701 cf

Plug-Flow detention time= 276.6 min calculated for 1.036 af (91% of inflow)
Center-of-Mass det. time= 230.5 min (1,016.6 - 786.1)

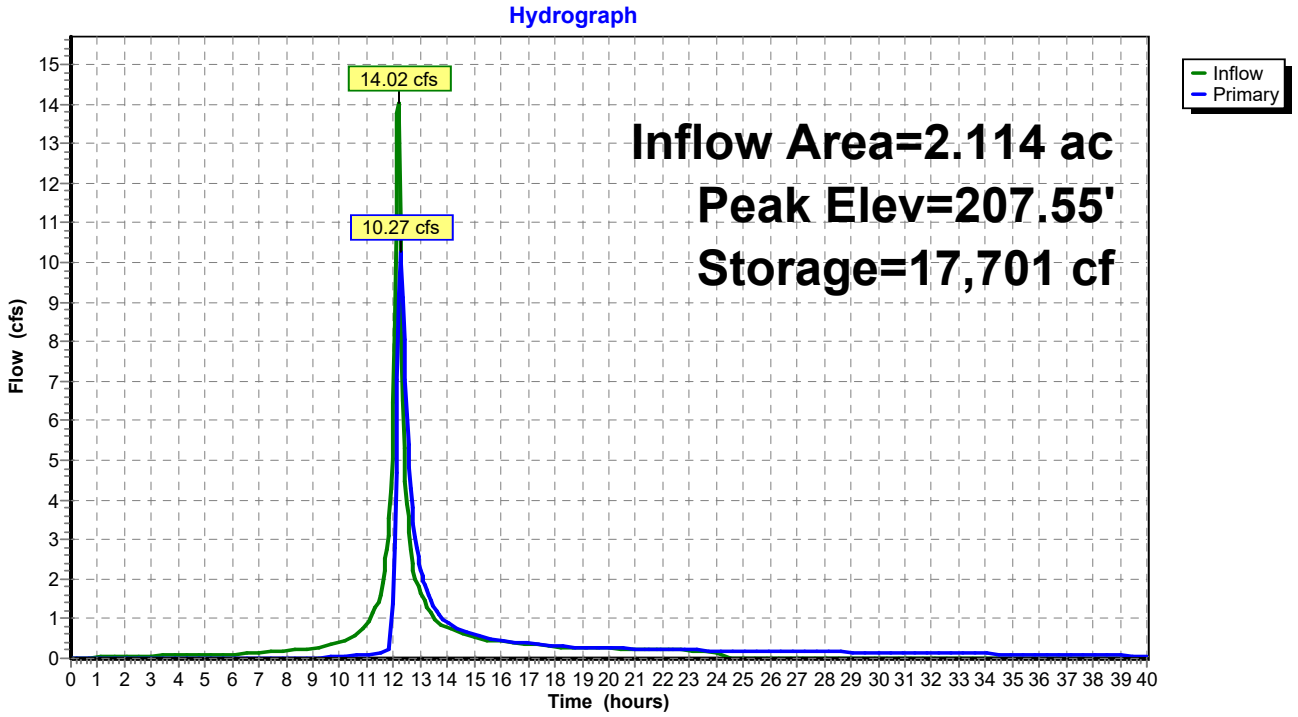
Volume	Invert	Avail.Storage	Storage Description
#1	204.30'	29,525 cf	**Custom Stage Data (Prismatic)** Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
204.30	0	0	0
205.00	5,096	1,784	1,784
206.00	5,966	5,531	7,315
207.00	6,893	6,430	13,744
208.00	7,876	7,385	21,129
209.00	8,916	8,396	29,525

Device	Routing	Invert	Outlet Devices
#1	Primary	204.30'	**18.0" Round Culvert** L= 33.0' Ke= 0.500 Inlet / Outlet Invert= 204.30' / 204.13' S= 0.0052 '/' Cc= 0.900 n= 0.013, Flow Area= 1.77 sf
#2	Device 1	205.26'	**2.5" Vert. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#3	Device 1	206.69'	**4.0' long Sharp-Crested Rectangular Weir** 2 End Contraction(s)
#4	Primary	208.25'	**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 @ 12.27 hrs HW=207.54' (Free Discharge)
- **1=Culvert** (Passes 10.13 cfs of 13.44 cfs potential flow)
  - **2=Orifice/Grate** (Orifice Controls 0.24 cfs @ 7.11 fps)
  - **3=Sharp-Crested Rectangular Weir** (Weir Controls 9.89 cfs @ 3.02 fps)
- **4=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)

Pond B-38: Basin #38



Stage-Discharge for Pond B-38: Basin #38

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
204.30	0.00	204.82	0.00	205.34	0.01	205.86	0.12
204.31	0.00	204.83	0.00	205.35	0.01	205.87	0.12
204.32	0.00	204.84	0.00	205.36	0.02	205.88	0.12
204.33	0.00	204.85	0.00	205.37	0.02	205.89	0.12
204.34	0.00	204.86	0.00	205.38	0.02	205.90	0.12
204.35	0.00	204.87	0.00	205.39	0.03	205.91	0.12
204.36	0.00	204.88	0.00	205.40	0.03	205.92	0.12
204.37	0.00	204.89	0.00	205.41	0.03	205.93	0.12
204.38	0.00	204.90	0.00	205.42	0.04	205.94	0.12
204.39	0.00	204.91	0.00	205.43	0.04	205.95	0.13
204.40	0.00	204.92	0.00	205.44	0.05	205.96	0.13
204.41	0.00	204.93	0.00	205.45	0.05	205.97	0.13
204.42	0.00	204.94	0.00	205.46	0.05	205.98	0.13
204.43	0.00	204.95	0.00	205.47	0.05	205.99	0.13
204.44	0.00	204.96	0.00	205.48	0.06	206.00	0.13
204.45	0.00	204.97	0.00	205.49	0.06	206.01	0.13
204.46	0.00	204.98	0.00	205.50	0.06	206.02	0.13
204.47	0.00	204.99	0.00	205.51	0.06	206.03	0.13
204.48	0.00	205.00	0.00	205.52	0.06	206.04	0.13
204.49	0.00	205.01	0.00	205.53	0.07	206.05	0.14
204.50	0.00	205.02	0.00	205.54	0.07	206.06	0.14
204.51	0.00	205.03	0.00	205.55	0.07	206.07	0.14
204.52	0.00	205.04	0.00	205.56	0.07	206.08	0.14
204.53	0.00	205.05	0.00	205.57	0.07	206.09	0.14
204.54	0.00	205.06	0.00	205.58	0.08	206.10	0.14
204.55	0.00	205.07	0.00	205.59	0.08	206.11	0.14
204.56	0.00	205.08	0.00	205.60	0.08	206.12	0.14
204.57	0.00	205.09	0.00	205.61	0.08	206.13	0.14
204.58	0.00	205.10	0.00	205.62	0.08	206.14	0.14
204.59	0.00	205.11	0.00	205.63	0.08	206.15	0.15
204.60	0.00	205.12	0.00	205.64	0.09	206.16	0.15
204.61	0.00	205.13	0.00	205.65	0.09	206.17	0.15
204.62	0.00	205.14	0.00	205.66	0.09	206.18	0.15
204.63	0.00	205.15	0.00	205.67	0.09	206.19	0.15
204.64	0.00	205.16	0.00	205.68	0.09	206.20	0.15
204.65	0.00	205.17	0.00	205.69	0.09	206.21	0.15
204.66	0.00	205.18	0.00	205.70	0.10	206.22	0.15
204.67	0.00	205.19	0.00	205.71	0.10	206.23	0.15
204.68	0.00	205.20	0.00	205.72	0.10	206.24	0.15
204.69	0.00	205.21	0.00	205.73	0.10	206.25	0.15
204.70	0.00	205.22	0.00	205.74	0.10	206.26	0.16
204.71	0.00	205.23	0.00	205.75	0.10	206.27	0.16
204.72	0.00	205.24	0.00	205.76	0.10	206.28	0.16
204.73	0.00	205.25	0.00	205.77	0.10	206.29	0.16
204.74	0.00	205.26	0.00	205.78	0.11	206.30	0.16
204.75	0.00	205.27	0.00	205.79	0.11	206.31	0.16
204.76	0.00	205.28	0.00	205.80	0.11	206.32	0.16
204.77	0.00	205.29	0.00	205.81	0.11	206.33	0.16
204.78	0.00	205.30	0.00	205.82	0.11	206.34	0.16
204.79	0.00	205.31	0.00	205.83	0.11	206.35	0.16
204.80	0.00	205.32	0.01	205.84	0.11	206.36	0.16
204.81	0.00	205.33	0.01	205.85	0.11	206.37	0.16

Stage-Discharge for Pond B-38: Basin #38 (continued)

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
206.38	0.17	206.90	1.45	207.42	8.10	207.94	14.46
206.39	0.17	206.91	1.54	207.43	8.25	207.95	14.49
206.40	0.17	206.92	1.63	207.44	8.41	207.96	14.51
206.41	0.17	206.93	1.72	207.45	8.57	207.97	14.54
206.42	0.17	206.94	1.82	207.46	8.74	207.98	14.56
206.43	0.17	206.95	1.92	207.47	8.90	207.99	14.59
206.44	0.17	206.96	2.02	207.48	9.06	208.00	14.61
206.45	0.17	206.97	2.12	207.49	9.22	208.01	14.64
206.46	0.17	206.98	2.22	207.50	9.39	208.02	14.66
206.47	0.17	206.99	2.33	207.51	9.55	208.03	14.69
206.48	0.17	207.00	2.43	207.52	9.72	208.04	14.71
206.49	0.17	207.01	2.54	207.53	9.89	208.05	14.74
206.50	0.17	207.02	2.65	207.54	10.06	208.06	14.76
206.51	0.18	207.03	2.76	207.55	10.23	208.07	14.79
206.52	0.18	207.04	2.87	207.56	10.40	208.08	14.81
206.53	0.18	207.05	2.99	207.57	10.57	208.09	14.84
206.54	0.18	207.06	3.10	207.58	10.74	208.10	14.86
206.55	0.18	207.07	3.22	207.59	10.91	208.11	14.88
206.56	0.18	207.08	3.34	207.60	11.08	208.12	14.91
206.57	0.18	207.09	3.46	207.61	11.26	208.13	14.93
206.58	0.18	207.10	3.58	207.62	11.43	208.14	14.96
206.59	0.18	207.11	3.70	207.63	11.61	208.15	14.98
206.60	0.18	207.12	3.83	207.64	11.78	208.16	15.01
206.61	0.18	207.13	3.95	207.65	11.96	208.17	15.03
206.62	0.18	207.14	4.08	207.66	12.14	208.18	15.05
206.63	0.18	207.15	4.21	207.67	12.32	208.19	15.08
206.64	0.19	207.16	4.34	207.68	12.50	208.20	15.10
206.65	0.19	207.17	4.47	207.69	12.68	208.21	15.13
206.66	0.19	207.18	4.60	207.70	12.86	208.22	15.15
206.67	0.19	207.19	4.73	207.71	13.04	208.23	15.17
206.68	0.19	207.20	4.86	207.72	13.22	208.24	15.20
206.69	0.19	207.21	5.00	207.73	13.40	208.25	15.22
206.70	0.20	207.22	5.14	207.74	13.59	208.26	15.36
206.71	0.23	207.23	5.27	207.75	13.77	208.27	15.60
206.72	0.26	207.24	5.41	207.76	13.96	208.28	15.90
206.73	0.30	207.25	5.55	207.77	14.03	208.29	16.25
206.74	0.34	207.26	5.69	207.78	14.06	208.30	16.65
206.75	0.38	207.27	5.84	207.79	14.08	208.31	17.09
206.76	0.44	207.28	5.98	207.80	14.11	208.32	17.56
206.77	0.49	207.29	6.12	207.81	14.14	208.33	18.07
206.78	0.55	207.30	6.27	207.82	14.16	208.34	18.61
206.79	0.61	207.31	6.42	207.83	14.19	208.35	19.17
206.80	0.67	207.32	6.56	207.84	14.21	208.36	19.77
206.81	0.74	207.33	6.71	207.85	14.24	208.37	20.40
206.82	0.81	207.34	6.86	207.86	14.26	208.38	21.05
206.83	0.88	207.35	7.01	207.87	14.29	208.39	21.72
206.84	0.95	207.36	7.16	207.88	14.31	208.40	22.42
206.85	1.03	207.37	7.32	207.89	14.34	208.41	23.14
206.86	1.11	207.38	7.47	207.90	14.36	208.42	23.89
206.87	1.19	207.39	7.63	207.91	14.39	208.43	24.66
206.88	1.28	207.40	7.78	207.92	14.41	208.44	25.44
206.89	1.36	207.41	7.94	207.93	14.44	208.45	26.25

Stage-Discharge for Pond B-38: Basin #38 (continued)

Elevation (feet)	Primary (cfs)
208.46	27.12
208.47	28.02
208.48	28.94
208.49	29.89
208.50	30.86
208.51	31.85
208.52	32.88
208.53	33.92
208.54	34.99
208.55	36.09
208.56	37.21
208.57	38.35
208.58	39.52
208.59	40.71
208.60	41.93
208.61	43.17
208.62	44.43
208.63	45.72
208.64	47.04
208.65	48.37
208.66	49.76
208.67	51.18
208.68	52.62
208.69	54.08
208.70	55.58
208.71	57.09
208.72	58.64
208.73	60.21
208.74	61.81
208.75	63.43
208.76	65.08
208.77	66.76
208.78	68.46
208.79	70.19
208.80	71.95
208.81	73.73
208.82	75.54
208.83	77.38
208.84	79.24
208.85	81.14
208.86	82.78
208.87	84.45
208.88	86.12
208.89	87.81
208.90	89.51
208.91	91.23
208.92	92.96
208.93	94.70
208.94	96.45
208.95	98.22
208.96	100.00
208.97	101.79
208.98	103.60
208.99	105.42
209.00	**107.25**

Stage-Area-Storage for Pond B-38: Basin #38

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
204.30	0	0
204.31	73	0
204.32	146	1
204.33	218	3
204.34	291	6
204.35	364	9
204.36	437	13
204.37	510	18
204.38	582	23
204.39	655	29
204.40	728	36
204.41	801	44
204.42	874	52
204.43	946	62
204.44	1,019	71
204.45	1,092	82
204.46	1,165	93
204.47	1,238	105
204.48	1,310	118
204.49	1,383	131
204.50	1,456	146
204.51	1,529	161
204.52	1,602	176
204.53	1,674	193
204.54	1,747	210
204.55	1,820	228
204.56	1,893	246
204.57	1,966	265
204.58	2,038	285
204.59	2,111	306
204.60	2,184	328
204.61	2,257	350
204.62	2,330	373
204.63	2,402	396
204.64	2,475	421
204.65	2,548	446
204.66	2,621	472
204.67	2,694	498
204.68	2,766	526
204.69	2,839	554
204.70	2,912	582
204.71	2,985	612
204.72	3,058	642
204.73	3,130	673
204.74	3,203	705
204.75	3,276	737
204.76	3,349	770
204.77	3,422	804
204.78	3,494	839
204.79	3,567	874
204.80	3,640	910
204.81	3,713	947
204.82	3,786	984
204.83	3,858	1,022
204.84	3,931	1,061
204.85	4,004	1,101
204.86	4,077	1,142
204.87	4,150	1,183
204.88	4,222	1,224
204.89	4,295	1,267
204.90	4,368	1,310
204.91	4,441	1,354
204.92	4,514	1,399
204.93	4,586	1,445
204.94	4,659	1,491
204.95	4,732	1,538
204.96	4,805	1,586
204.97	4,878	1,634
204.98	4,950	1,683
204.99	5,023	1,733
205.00	5,096	1,784
205.01	5,105	1,835
205.02	5,113	1,886
205.03	5,122	1,937
205.04	5,131	1,988
205.05	5,140	2,039
205.06	5,148	2,091
205.07	5,157	2,142
205.08	5,166	2,194
205.09	5,174	2,246
205.10	5,183	2,298
205.11	5,192	2,349
205.12	5,200	2,401
205.13	5,209	2,453
205.14	5,218	2,506
205.15	5,227	2,558
205.16	5,235	2,610
205.17	5,244	2,662
205.18	5,253	2,715
205.19	5,261	2,768
205.20	5,270	2,820
205.21	5,279	2,873
205.22	5,287	2,926
205.23	5,296	2,979
205.24	5,305	3,032
205.25	5,314	3,085
205.26	5,322	3,138
205.27	5,331	3,191
205.28	5,340	3,245
205.29	5,348	3,298
205.30	5,357	3,352
205.31	5,366	3,405
205.32	5,374	3,459
205.33	5,383	3,513

Stage-Area-Storage for Pond B-38: Basin #38 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
205.34	5,392	3,567	205.86	5,844	6,488
205.35	5,401	3,620	205.87	5,853	6,546
205.36	5,409	3,675	205.88	5,862	6,605
205.37	5,418	3,729	205.89	5,870	6,664
205.38	5,427	3,783	205.90	5,879	6,722
205.39	5,435	3,837	205.91	5,888	6,781
205.40	5,444	3,892	205.92	5,896	6,840
205.41	5,453	3,946	205.93	5,905	6,899
205.42	5,461	4,001	205.94	5,914	6,958
205.43	5,470	4,055	205.95	5,923	7,017
205.44	5,479	4,110	205.96	5,931	7,077
205.45	5,488	4,165	205.97	5,940	7,136
205.46	5,496	4,220	205.98	5,949	7,195
205.47	5,505	4,275	205.99	5,957	7,255
205.48	5,514	4,330	206.00	5,966	7,315
205.49	5,522	4,385	206.01	5,975	7,374
205.50	5,531	4,440	206.02	5,985	7,434
205.51	5,540	4,496	206.03	5,994	7,494
205.52	5,548	4,551	206.04	6,003	7,554
205.53	5,557	4,607	206.05	6,012	7,614
205.54	5,566	4,662	206.06	6,022	7,674
205.55	5,575	4,718	206.07	6,031	7,734
205.56	5,583	4,774	206.08	6,040	7,795
205.57	5,592	4,830	206.09	6,049	7,855
205.58	5,601	4,886	206.10	6,059	7,916
205.59	5,609	4,942	206.11	6,068	7,976
205.60	5,618	4,998	206.12	6,077	8,037
205.61	5,627	5,054	206.13	6,087	8,098
205.62	5,635	5,110	206.14	6,096	8,159
205.63	5,644	5,167	206.15	6,105	8,220
205.64	5,653	5,223	206.16	6,114	8,281
205.65	5,662	5,280	206.17	6,124	8,342
205.66	5,670	5,336	206.18	6,133	8,403
205.67	5,679	5,393	206.19	6,142	8,465
205.68	5,688	5,450	206.20	6,151	8,526
205.69	5,696	5,507	206.21	6,161	8,588
205.70	5,705	5,564	206.22	6,170	8,650
205.71	5,714	5,621	206.23	6,179	8,711
205.72	5,722	5,678	206.24	6,188	8,773
205.73	5,731	5,735	206.25	6,198	8,835
205.74	5,740	5,793	206.26	6,207	8,897
205.75	5,749	5,850	206.27	6,216	8,959
205.76	5,757	5,908	206.28	6,226	9,021
205.77	5,766	5,965	206.29	6,235	9,084
205.78	5,775	6,023	206.30	6,244	9,146
205.79	5,783	6,081	206.31	6,253	9,209
205.80	5,792	6,139	206.32	6,263	9,271
205.81	5,801	6,197	206.33	6,272	9,334
205.82	5,809	6,255	206.34	6,281	9,397
205.83	5,818	6,313	206.35	6,290	9,459
205.84	5,827	6,371	206.36	6,300	9,522
205.85	5,836	6,429	206.37	6,309	9,585

Stage-Area-Storage for Pond B-38: Basin #38 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
206.38	6,318	9,649	206.90	6,800	13,059
206.39	6,328	9,712	206.91	6,810	13,127
206.40	6,337	9,775	206.92	6,819	13,196
206.41	6,346	9,839	206.93	6,828	13,264
206.42	6,355	9,902	206.94	6,837	13,332
206.43	6,365	9,966	206.95	6,847	13,401
206.44	6,374	10,029	206.96	6,856	13,469
206.45	6,383	10,093	206.97	6,865	13,538
206.46	6,392	10,157	206.98	6,874	13,606
206.47	6,402	10,221	206.99	6,884	13,675
206.48	6,411	10,285	207.00	6,893	13,744
206.49	6,420	10,349	207.01	6,903	13,813
206.50	6,430	10,413	207.02	6,913	13,882
206.51	6,439	10,478	207.03	6,922	13,951
206.52	6,448	10,542	207.04	6,932	14,021
206.53	6,457	10,607	207.05	6,942	14,090
206.54	6,467	10,671	207.06	6,952	14,159
206.55	6,476	10,736	207.07	6,962	14,229
206.56	6,485	10,801	207.08	6,972	14,299
206.57	6,494	10,866	207.09	6,981	14,368
206.58	6,504	10,931	207.10	6,991	14,438
206.59	6,513	10,996	207.11	7,001	14,508
206.60	6,522	11,061	207.12	7,011	14,578
206.61	6,531	11,126	207.13	7,021	14,648
206.62	6,541	11,192	207.14	7,031	14,719
206.63	6,550	11,257	207.15	7,040	14,789
206.64	6,559	11,323	207.16	7,050	14,860
206.65	6,569	11,388	207.17	7,060	14,930
206.66	6,578	11,454	207.18	7,070	15,001
206.67	6,587	11,520	207.19	7,080	15,072
206.68	6,596	11,586	207.20	7,090	15,142
206.69	6,606	11,652	207.21	7,099	15,213
206.70	6,615	11,718	207.22	7,109	15,284
206.71	6,624	11,784	207.23	7,119	15,355
206.72	6,633	11,850	207.24	7,129	15,427
206.73	6,643	11,917	207.25	7,139	15,498
206.74	6,652	11,983	207.26	7,149	15,570
206.75	6,661	12,050	207.27	7,158	15,641
206.76	6,671	12,116	207.28	7,168	15,713
206.77	6,680	12,183	207.29	7,178	15,784
206.78	6,689	12,250	207.30	7,188	15,856
206.79	6,698	12,317	207.31	7,198	15,928
206.80	6,708	12,384	207.32	7,208	16,000
206.81	6,717	12,451	207.33	7,217	16,072
206.82	6,726	12,518	207.34	7,227	16,145
206.83	6,735	12,586	207.35	7,237	16,217
206.84	6,745	12,653	207.36	7,247	16,289
206.85	6,754	12,721	207.37	7,257	16,362
206.86	6,763	12,788	207.38	7,267	16,434
206.87	6,772	12,856	207.39	7,276	16,507
206.88	6,782	12,924	207.40	7,286	16,580
206.89	6,791	12,991	207.41	7,296	16,653

Stage-Area-Storage for Pond B-38: Basin #38 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
207.42	7,306	16,726	207.94	7,817	20,658
207.43	7,316	16,799	207.95	7,827	20,736
207.44	7,326	16,872	207.96	7,837	20,814
207.45	7,335	16,945	207.97	7,847	20,893
207.46	7,345	17,019	207.98	7,856	20,971
207.47	7,355	17,092	207.99	7,866	21,050
207.48	7,365	17,166	208.00	7,876	21,129
207.49	7,375	17,240	208.01	7,886	21,207
207.50	7,385	17,313	208.02	7,897	21,286
207.51	7,394	17,387	208.03	7,907	21,365
207.52	7,404	17,461	208.04	7,918	21,444
207.53	7,414	17,535	208.05	7,928	21,524
207.54	7,424	17,610	208.06	7,938	21,603
207.55	7,434	17,684	208.07	7,949	21,682
207.56	7,443	17,758	208.08	7,959	21,762
207.57	7,453	17,833	208.09	7,970	21,842
207.58	7,463	17,907	208.10	7,980	21,921
207.59	7,473	17,982	208.11	7,990	22,001
207.60	7,483	18,057	208.12	8,001	22,081
207.61	7,493	18,132	208.13	8,011	22,161
207.62	7,502	18,207	208.14	8,022	22,241
207.63	7,512	18,282	208.15	8,032	22,322
207.64	7,522	18,357	208.16	8,042	22,402
207.65	7,532	18,432	208.17	8,053	22,483
207.66	7,542	18,508	208.18	8,063	22,563
207.67	7,552	18,583	208.19	8,074	22,644
207.68	7,561	18,659	208.20	8,084	22,725
207.69	7,571	18,734	208.21	8,094	22,805
207.70	7,581	18,810	208.22	8,105	22,886
207.71	7,591	18,886	208.23	8,115	22,968
207.72	7,601	18,962	208.24	8,126	23,049
207.73	7,611	19,038	208.25	8,136	23,130
207.74	7,620	19,114	208.26	8,146	23,212
207.75	7,630	19,190	208.27	8,157	23,293
207.76	7,640	19,267	208.28	8,167	23,375
207.77	7,650	19,343	208.29	8,178	23,456
207.78	7,660	19,420	208.30	8,188	23,538
207.79	7,670	19,496	208.31	8,198	23,620
207.80	7,679	19,573	208.32	8,209	23,702
207.81	7,689	19,650	208.33	8,219	23,784
207.82	7,699	19,727	208.34	8,230	23,867
207.83	7,709	19,804	208.35	8,240	23,949
207.84	7,719	19,881	208.36	8,250	24,031
207.85	7,729	19,958	208.37	8,261	24,114
207.86	7,738	20,036	208.38	8,271	24,197
207.87	7,748	20,113	208.39	8,282	24,279
207.88	7,758	20,191	208.40	8,292	24,362
207.89	7,768	20,268	208.41	8,302	24,445
207.90	7,778	20,346	208.42	8,313	24,528
207.91	7,788	20,424	208.43	8,323	24,611
207.92	7,797	20,502	208.44	8,334	24,695
207.93	7,807	20,580	208.45	8,344	24,778

Stage-Area-Storage for Pond B-38: Basin #38 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
208.46	8,354	24,862
208.47	8,365	24,945
208.48	8,375	25,029
208.49	8,386	25,113
208.50	8,396	25,197
208.51	8,406	25,281
208.52	8,417	25,365
208.53	8,427	25,449
208.54	8,438	25,533
208.55	8,448	25,618
208.56	8,458	25,702
208.57	8,469	25,787
208.58	8,479	25,872
208.59	8,490	25,956
208.60	8,500	26,041
208.61	8,510	26,126
208.62	8,521	26,212
208.63	8,531	26,297
208.64	8,542	26,382
208.65	8,552	26,468
208.66	8,562	26,553
208.67	8,573	26,639
208.68	8,583	26,725
208.69	8,594	26,811
208.70	8,604	26,897
208.71	8,614	26,983
208.72	8,625	27,069
208.73	8,635	27,155
208.74	8,646	27,242
208.75	8,656	27,328
208.76	8,666	27,415
208.77	8,677	27,501
208.78	8,687	27,588
208.79	8,698	27,675
208.80	8,708	27,762
208.81	8,718	27,849
208.82	8,729	27,937
208.83	8,739	28,024
208.84	8,750	28,111
208.85	8,760	28,199
208.86	8,770	28,287
208.87	8,781	28,374
208.88	8,791	28,462
208.89	8,802	28,550
208.90	8,812	28,638
208.91	8,822	28,726
208.92	8,833	28,815
208.93	8,843	28,903
208.94	8,854	28,992
208.95	8,864	29,080
208.96	8,874	29,169
208.97	8,885	29,258
208.98	8,895	29,346
208.99	8,906	29,435
209.00	**8,916**	**29,525**

Summary for Pond B-39: Basin #39

Inflow Area = 1.884 ac, 41.56% Impervious, Inflow Depth = 6.66" for Current 100 yr event
Inflow = 12.73 cfs @ 12.17 hrs, Volume= 1.045 af
Outflow = 10.92 cfs @ 12.23 hrs, Volume= 0.971 af, Atten= 14%, Lag= 3.7 min
Primary = 10.92 cfs @ 12.23 hrs, Volume= 0.971 af
Routed to Link PDA-3 : Proposed Drainage Area #3

Routing by Stor-Ind method, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
Peak Elev= 203.88' @ 12.23 hrs Surf.Area= 4,389 sf Storage= 11,502 cf

Plug-Flow detention time= 119.6 min calculated for 0.971 af (93% of inflow)
Center-of-Mass det. time= 79.9 min (860.7 - 780.8)

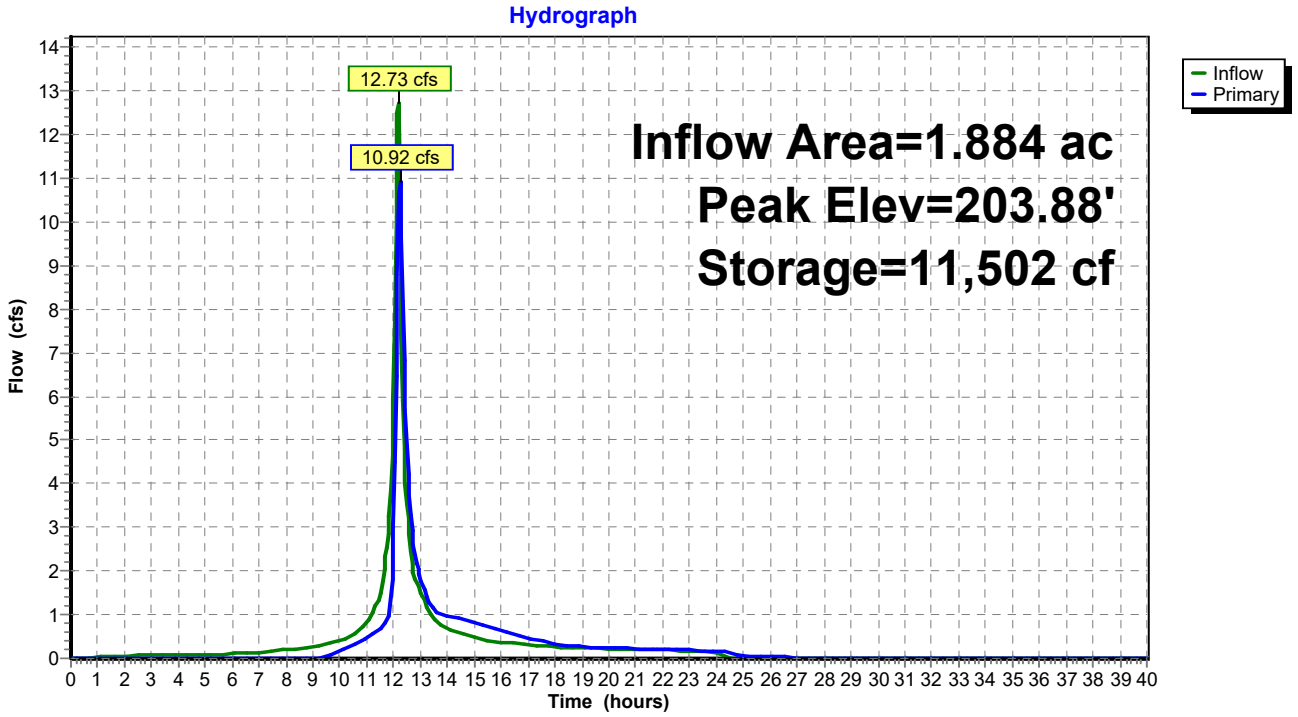
Volume	Invert	Avail.Storage	Storage Description
#1	200.30'	16,777 cf	**Custom Stage Data (Prismatic)** Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
200.30	0	0	0
201.00	2,928	1,025	1,025
202.00	3,408	3,168	4,193
203.00	3,917	3,663	7,855
204.00	4,454	4,186	12,041
205.00	5,019	4,737	16,777

Device	Routing	Invert	Outlet Devices
#1	Primary	200.30'	**18.0" Round Culvert** L= 38.0' Ke= 0.500 Inlet / Outlet Invert= 200.30' / 200.11' S= 0.0050 '/' Cc= 0.900 n= 0.013, Flow Area= 1.77 sf
#2	Device 1	201.71'	**6.0" Vert. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#3	Device 1	203.04'	**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=10.77 cfs @ 12.23 hrs HW=203.87' (Free Discharge)
- **1=Culvert** (Passes 10.77 cfs of 14.29 cfs potential flow)
  - **2=Orifice/Grate** (Orifice Controls 1.31 cfs @ 6.65 fps)
  - **3=Sharp-Crested Rectangular Weir** (Weir Controls 9.46 cfs @ 2.98 fps)
- **4=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)

Pond B-39: Basin #39



Stage-Discharge for Pond B-39: Basin #39

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
200.30	0.00	200.82	0.00	201.34	0.00	201.86	0.07
200.31	0.00	200.83	0.00	201.35	0.00	201.87	0.07
200.32	0.00	200.84	0.00	201.36	0.00	201.88	0.08
200.33	0.00	200.85	0.00	201.37	0.00	201.89	0.09
200.34	0.00	200.86	0.00	201.38	0.00	201.90	0.10
200.35	0.00	200.87	0.00	201.39	0.00	201.91	0.11
200.36	0.00	200.88	0.00	201.40	0.00	201.92	0.12
200.37	0.00	200.89	0.00	201.41	0.00	201.93	0.13
200.38	0.00	200.90	0.00	201.42	0.00	201.94	0.14
200.39	0.00	200.91	0.00	201.43	0.00	201.95	0.16
200.40	0.00	200.92	0.00	201.44	0.00	201.96	0.17
200.41	0.00	200.93	0.00	201.45	0.00	201.97	0.18
200.42	0.00	200.94	0.00	201.46	0.00	201.98	0.19
200.43	0.00	200.95	0.00	201.47	0.00	201.99	0.20
200.44	0.00	200.96	0.00	201.48	0.00	202.00	0.22
200.45	0.00	200.97	0.00	201.49	0.00	202.01	0.23
200.46	0.00	200.98	0.00	201.50	0.00	202.02	0.24
200.47	0.00	200.99	0.00	201.51	0.00	202.03	0.26
200.48	0.00	201.00	0.00	201.52	0.00	202.04	0.27
200.49	0.00	201.01	0.00	201.53	0.00	202.05	0.28
200.50	0.00	201.02	0.00	201.54	0.00	202.06	0.30
200.51	0.00	201.03	0.00	201.55	0.00	202.07	0.31
200.52	0.00	201.04	0.00	201.56	0.00	202.08	0.32
200.53	0.00	201.05	0.00	201.57	0.00	202.09	0.34
200.54	0.00	201.06	0.00	201.58	0.00	202.10	0.35
200.55	0.00	201.07	0.00	201.59	0.00	202.11	0.36
200.56	0.00	201.08	0.00	201.60	0.00	202.12	0.38
200.57	0.00	201.09	0.00	201.61	0.00	202.13	0.39
200.58	0.00	201.10	0.00	201.62	0.00	202.14	0.40
200.59	0.00	201.11	0.00	201.63	0.00	202.15	0.41
200.60	0.00	201.12	0.00	201.64	0.00	202.16	0.43
200.61	0.00	201.13	0.00	201.65	0.00	202.17	0.44
200.62	0.00	201.14	0.00	201.66	0.00	202.18	0.45
200.63	0.00	201.15	0.00	201.67	0.00	202.19	0.46
200.64	0.00	201.16	0.00	201.68	0.00	202.20	0.47
200.65	0.00	201.17	0.00	201.69	0.00	202.21	0.47
200.66	0.00	201.18	0.00	201.70	0.00	202.22	0.48
200.67	0.00	201.19	0.00	201.71	0.00	202.23	0.49
200.68	0.00	201.20	0.00	201.72	0.00	202.24	0.50
200.69	0.00	201.21	0.00	201.73	0.00	202.25	0.51
200.70	0.00	201.22	0.00	201.74	0.00	202.26	0.52
200.71	0.00	201.23	0.00	201.75	0.01	202.27	0.53
200.72	0.00	201.24	0.00	201.76	0.01	202.28	0.53
200.73	0.00	201.25	0.00	201.77	0.01	202.29	0.54
200.74	0.00	201.26	0.00	201.78	0.02	202.30	0.55
200.75	0.00	201.27	0.00	201.79	0.02	202.31	0.56
200.76	0.00	201.28	0.00	201.80	0.02	202.32	0.57
200.77	0.00	201.29	0.00	201.81	0.03	202.33	0.58
200.78	0.00	201.30	0.00	201.82	0.04	202.34	0.58
200.79	0.00	201.31	0.00	201.83	0.04	202.35	0.59
200.80	0.00	201.32	0.00	201.84	0.05	202.36	0.60
200.81	0.00	201.33	0.00	201.85	0.06	202.37	0.61

Stage-Discharge for Pond B-39: Basin #39 (continued)

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
202.38	0.61	202.90	0.92	203.42	4.15	203.94	12.00
202.39	0.62	202.91	0.92	203.43	4.27	203.95	12.17
202.40	0.63	202.92	0.93	203.44	4.39	203.96	12.35
202.41	0.63	202.93	0.93	203.45	4.52	203.97	12.53
202.42	0.64	202.94	0.94	203.46	4.64	203.98	12.70
202.43	0.65	202.95	0.94	203.47	4.77	203.99	12.88
202.44	0.66	202.96	0.95	203.48	4.90	204.00	13.06
202.45	0.66	202.97	0.95	203.49	5.03	204.01	13.24
202.46	0.67	202.98	0.95	203.50	5.16	204.02	13.42
202.47	0.68	202.99	0.96	203.51	5.29	204.03	13.61
202.48	0.68	203.00	0.96	203.52	5.43	204.04	13.79
202.49	0.69	203.01	0.97	203.53	5.56	204.05	13.97
202.50	0.69	203.02	0.97	203.54	5.70	204.06	14.16
202.51	0.70	203.03	0.98	203.55	5.83	204.07	14.34
202.52	0.71	203.04	0.98	203.56	5.97	204.08	14.53
202.53	0.71	203.05	1.00	203.57	6.11	204.09	14.71
202.54	0.72	203.06	1.03	203.58	6.25	204.10	14.86
202.55	0.73	203.07	1.06	203.59	6.40	204.11	14.88
202.56	0.73	203.08	1.10	203.60	6.54	204.12	14.91
202.57	0.74	203.09	1.15	203.61	6.68	204.13	14.93
202.58	0.74	203.10	1.20	203.62	6.83	204.14	14.96
202.59	0.75	203.11	1.26	203.63	6.97	204.15	14.98
202.60	0.76	203.12	1.31	203.64	7.12	204.16	15.01
202.61	0.76	203.13	1.37	203.65	7.27	204.17	15.03
202.62	0.77	203.14	1.44	203.66	7.42	204.18	15.05
202.63	0.77	203.15	1.51	203.67	7.57	204.19	15.08
202.64	0.78	203.16	1.58	203.68	7.72	204.20	15.10
202.65	0.79	203.17	1.65	203.69	7.88	204.21	15.13
202.66	0.79	203.18	1.72	203.70	8.03	204.22	15.15
202.67	0.80	203.19	1.80	203.71	8.18	204.23	15.17
202.68	0.80	203.20	1.88	203.72	8.34	204.24	15.20
202.69	0.81	203.21	1.97	203.73	8.50	204.25	15.22
202.70	0.81	203.22	2.05	203.74	8.65	204.26	15.24
202.71	0.82	203.23	2.14	203.75	8.81	204.27	15.27
202.72	0.82	203.24	2.23	203.76	8.97	204.28	15.29
202.73	0.83	203.25	2.32	203.77	9.13	204.29	15.32
202.74	0.83	203.26	2.41	203.78	9.29	204.30	15.34
202.75	0.84	203.27	2.51	203.79	9.46	204.31	15.36
202.76	0.85	203.28	2.61	203.80	9.62	204.32	15.39
202.77	0.85	203.29	2.70	203.81	9.78	204.33	15.41
202.78	0.86	203.30	2.81	203.82	9.95	204.34	15.43
202.79	0.86	203.31	2.91	203.83	10.11	204.35	15.46
202.80	0.87	203.32	3.01	203.84	10.28	204.36	15.48
202.81	0.87	203.33	3.12	203.85	10.45	204.37	15.50
202.82	0.88	203.34	3.23	203.86	10.62	204.38	15.53
202.83	0.88	203.35	3.34	203.87	10.79	204.39	15.55
202.84	0.89	203.36	3.45	203.88	10.96	204.40	15.57
202.85	0.89	203.37	3.56	203.89	11.13	204.41	15.60
202.86	0.90	203.38	3.68	203.90	11.30	204.42	15.62
202.87	0.90	203.39	3.79	203.91	11.47	204.43	15.64
202.88	0.91	203.40	3.91	203.92	11.65	204.44	15.67
202.89	0.91	203.41	4.03	203.93	11.82	204.45	15.69

Stage-Discharge for Pond B-39: Basin #39 (continued)

Elevation (feet)	Primary (cfs)
204.46	15.71
204.47	15.74
204.48	15.76
204.49	15.78
204.50	15.80
204.51	15.94
204.52	16.18
204.53	16.48
204.54	16.83
204.55	17.23
204.56	17.67
204.57	18.14
204.58	18.64
204.59	19.18
204.60	19.75
204.61	20.35
204.62	20.97
204.63	21.62
204.64	22.29
204.65	22.99
204.66	23.71
204.67	24.46
204.68	25.22
204.69	26.01
204.70	26.82
204.71	27.69
204.72	28.58
204.73	29.50
204.74	30.45
204.75	31.42
204.76	32.42
204.77	33.44
204.78	34.48
204.79	35.55
204.80	36.65
204.81	37.76
204.82	38.91
204.83	40.08
204.84	41.27
204.85	42.48
204.86	43.72
204.87	44.99
204.88	46.28
204.89	47.59
204.90	48.93
204.91	50.31
204.92	51.73
204.93	53.17
204.94	54.63
204.95	56.12
204.96	57.64
204.97	59.19
204.98	60.76
204.99	62.35
205.00	**63.98**

Stage-Area-Storage for Pond B-39: Basin #39

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
200.30	0	0
200.31	42	0
200.32	84	1
200.33	125	2
200.34	167	3
200.35	209	5
200.36	251	8
200.37	293	10
200.38	335	13
200.39	376	17
200.40	418	21
200.41	460	25
200.42	502	30
200.43	544	35
200.44	586	41
200.45	627	47
200.46	669	54
200.47	711	60
200.48	753	68
200.49	795	76
200.50	837	84
200.51	878	92
200.52	920	101
200.53	962	111
200.54	1,004	120
200.55	1,046	131
200.56	1,088	141
200.57	1,129	152
200.58	1,171	164
200.59	1,213	176
200.60	1,255	188
200.61	1,297	201
200.62	1,339	214
200.63	1,380	228
200.64	1,422	242
200.65	1,464	256
200.66	1,506	271
200.67	1,548	286
200.68	1,589	302
200.69	1,631	318
200.70	1,673	335
200.71	1,715	352
200.72	1,757	369
200.73	1,799	387
200.74	1,840	405
200.75	1,882	424
200.76	1,924	443
200.77	1,966	462
200.78	2,008	482
200.79	2,050	502
200.80	2,091	523
200.81	2,133	544
200.82	2,175	566
200.83	2,217	587
200.84	2,259	610
200.85	2,301	633
200.86	2,342	656
200.87	2,384	680
200.88	2,426	704
200.89	2,468	728
200.90	2,510	753
200.91	2,552	778
200.92	2,593	804
200.93	2,635	830
200.94	2,677	857
200.95	2,719	884
200.96	2,761	911
200.97	2,803	939
200.98	2,844	967
200.99	2,886	996
201.00	2,928	1,025
201.01	2,933	1,054
201.02	2,938	1,083
201.03	2,942	1,113
201.04	2,947	1,142
201.05	2,952	1,172
201.06	2,957	1,201
201.07	2,962	1,231
201.08	2,966	1,261
201.09	2,971	1,290
201.10	2,976	1,320
201.11	2,981	1,350
201.12	2,986	1,380
201.13	2,990	1,409
201.14	2,995	1,439
201.15	3,000	1,469
201.16	3,005	1,499
201.17	3,010	1,529
201.18	3,014	1,560
201.19	3,019	1,590
201.20	3,024	1,620
201.21	3,029	1,650
201.22	3,034	1,681
201.23	3,038	1,711
201.24	3,043	1,741
201.25	3,048	1,772
201.26	3,053	1,802
201.27	3,058	1,833
201.28	3,062	1,863
201.29	3,067	1,894
201.30	3,072	1,925
201.31	3,077	1,956
201.32	3,082	1,986
201.33	3,086	2,017

Stage-Area-Storage for Pond B-39: Basin #39 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
201.34	3,091	2,048
201.35	3,096	2,079
201.36	3,101	2,110
201.37	3,106	2,141
201.38	3,110	2,172
201.39	3,115	2,203
201.40	3,120	2,234
201.41	3,125	2,266
201.42	3,130	2,297
201.43	3,134	2,328
201.44	3,139	2,360
201.45	3,144	2,391
201.46	3,149	2,422
201.47	3,154	2,454
201.48	3,158	2,486
201.49	3,163	2,517
201.50	3,168	2,549
201.51	3,173	2,581
201.52	3,178	2,612
201.53	3,182	2,644
201.54	3,187	2,676
201.55	3,192	2,708
201.56	3,197	2,740
201.57	3,202	2,772
201.58	3,206	2,804
201.59	3,211	2,836
201.60	3,216	2,868
201.61	3,221	2,900
201.62	3,226	2,932
201.63	3,230	2,965
201.64	3,235	2,997
201.65	3,240	3,029
201.66	3,245	3,062
201.67	3,250	3,094
201.68	3,254	3,127
201.69	3,259	3,159
201.70	3,264	3,192
201.71	3,269	3,225
201.72	3,274	3,257
201.73	3,278	3,290
201.74	3,283	3,323
201.75	3,288	3,356
201.76	3,293	3,389
201.77	3,298	3,422
201.78	3,302	3,455
201.79	3,307	3,488
201.80	3,312	3,521
201.81	3,317	3,554
201.82	3,322	3,587
201.83	3,326	3,620
201.84	3,331	3,654
201.85	3,336	3,687
201.86	3,341	3,720
201.87	3,346	3,754
201.88	3,350	3,787
201.89	3,355	3,821
201.90	3,360	3,854
201.91	3,365	3,888
201.92	3,370	3,922
201.93	3,374	3,955
201.94	3,379	3,989
201.95	3,384	4,023
201.96	3,389	4,057
201.97	3,394	4,091
201.98	3,398	4,125
201.99	3,403	4,159
202.00	3,408	4,193
202.01	3,413	4,227
202.02	3,418	4,261
202.03	3,423	4,295
202.04	3,428	4,330
202.05	3,433	4,364
202.06	3,439	4,398
202.07	3,444	4,433
202.08	3,449	4,467
202.09	3,454	4,502
202.10	3,459	4,536
202.11	3,464	4,571
202.12	3,469	4,605
202.13	3,474	4,640
202.14	3,479	4,675
202.15	3,484	4,710
202.16	3,489	4,745
202.17	3,495	4,780
202.18	3,500	4,814
202.19	3,505	4,850
202.20	3,510	4,885
202.21	3,515	4,920
202.22	3,520	4,955
202.23	3,525	4,990
202.24	3,530	5,025
202.25	3,535	5,061
202.26	3,540	5,096
202.27	3,545	5,132
202.28	3,551	5,167
202.29	3,556	5,203
202.30	3,561	5,238
202.31	3,566	5,274
202.32	3,571	5,309
202.33	3,576	5,345
202.34	3,581	5,381
202.35	3,586	5,417
202.36	3,591	5,453
202.37	3,596	5,489

Stage-Area-Storage for Pond B-39: Basin #39 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
202.38	3,601	5,525	202.90	3,866	7,466
202.39	3,607	5,561	202.91	3,871	7,505
202.40	3,612	5,597	202.92	3,876	7,544
202.41	3,617	5,633	202.93	3,881	7,582
202.42	3,622	5,669	202.94	3,886	7,621
202.43	3,627	5,705	202.95	3,892	7,660
202.44	3,632	5,742	202.96	3,897	7,699
202.45	3,637	5,778	202.97	3,902	7,738
202.46	3,642	5,814	202.98	3,907	7,777
202.47	3,647	5,851	202.99	3,912	7,816
202.48	3,652	5,887	203.00	3,917	7,855
202.49	3,657	5,924	203.01	3,922	7,894
202.50	3,663	5,960	203.02	3,928	7,934
202.51	3,668	5,997	203.03	3,933	7,973
202.52	3,673	6,034	203.04	3,938	8,012
202.53	3,678	6,071	203.05	3,944	8,052
202.54	3,683	6,107	203.06	3,949	8,091
202.55	3,688	6,144	203.07	3,955	8,131
202.56	3,693	6,181	203.08	3,960	8,170
202.57	3,698	6,218	203.09	3,965	8,210
202.58	3,703	6,255	203.10	3,971	8,250
202.59	3,708	6,292	203.11	3,976	8,289
202.60	3,713	6,329	203.12	3,981	8,329
202.61	3,718	6,366	203.13	3,987	8,369
202.62	3,724	6,404	203.14	3,992	8,409
202.63	3,729	6,441	203.15	3,998	8,449
202.64	3,734	6,478	203.16	4,003	8,489
202.65	3,739	6,516	203.17	4,008	8,529
202.66	3,744	6,553	203.18	4,014	8,569
202.67	3,749	6,590	203.19	4,019	8,609
202.68	3,754	6,628	203.20	4,024	8,649
202.69	3,759	6,665	203.21	4,030	8,690
202.70	3,764	6,703	203.22	4,035	8,730
202.71	3,769	6,741	203.23	4,041	8,770
202.72	3,774	6,778	203.24	4,046	8,811
202.73	3,780	6,816	203.25	4,051	8,851
202.74	3,785	6,854	203.26	4,057	8,892
202.75	3,790	6,892	203.27	4,062	8,932
202.76	3,795	6,930	203.28	4,067	8,973
202.77	3,800	6,968	203.29	4,073	9,014
202.78	3,805	7,006	203.30	4,078	9,055
202.79	3,810	7,044	203.31	4,083	9,095
202.80	3,815	7,082	203.32	4,089	9,136
202.81	3,820	7,120	203.33	4,094	9,177
202.82	3,825	7,158	203.34	4,100	9,218
202.83	3,830	7,197	203.35	4,105	9,259
202.84	3,836	7,235	203.36	4,110	9,300
202.85	3,841	7,273	203.37	4,116	9,341
202.86	3,846	7,312	203.38	4,121	9,383
202.87	3,851	7,350	203.39	4,126	9,424
202.88	3,856	7,389	203.40	4,132	9,465
202.89	3,861	7,428	203.41	4,137	9,506

Stage-Area-Storage for Pond B-39: Basin #39 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
203.42	4,143	9,548	203.94	4,422	11,775
203.43	4,148	9,589	203.95	4,427	11,819
203.44	4,153	9,631	203.96	4,433	11,863
203.45	4,159	9,672	203.97	4,438	11,907
203.46	4,164	9,714	203.98	4,443	11,952
203.47	4,169	9,756	203.99	4,449	11,996
203.48	4,175	9,797	204.00	4,454	12,041
203.49	4,180	9,839	204.01	4,460	12,085
203.50	4,186	9,881	204.02	4,465	12,130
203.51	4,191	9,923	204.03	4,471	12,175
203.52	4,196	9,965	204.04	4,477	12,219
203.53	4,202	10,007	204.05	4,482	12,264
203.54	4,207	10,049	204.06	4,488	12,309
203.55	4,212	10,091	204.07	4,494	12,354
203.56	4,218	10,133	204.08	4,499	12,399
203.57	4,223	10,175	204.09	4,505	12,444
203.58	4,228	10,217	204.10	4,511	12,489
203.59	4,234	10,260	204.11	4,516	12,534
203.60	4,239	10,302	204.12	4,522	12,579
203.61	4,245	10,345	204.13	4,527	12,625
203.62	4,250	10,387	204.14	4,533	12,670
203.63	4,255	10,430	204.15	4,539	12,715
203.64	4,261	10,472	204.16	4,544	12,761
203.65	4,266	10,515	204.17	4,550	12,806
203.66	4,271	10,557	204.18	4,556	12,852
203.67	4,277	10,600	204.19	4,561	12,897
203.68	4,282	10,643	204.20	4,567	12,943
203.69	4,288	10,686	204.21	4,573	12,989
203.70	4,293	10,729	204.22	4,578	13,034
203.71	4,298	10,772	204.23	4,584	13,080
203.72	4,304	10,815	204.24	4,590	13,126
203.73	4,309	10,858	204.25	4,595	13,172
203.74	4,314	10,901	204.26	4,601	13,218
203.75	4,320	10,944	204.27	4,607	13,264
203.76	4,325	10,987	204.28	4,612	13,310
203.77	4,330	11,031	204.29	4,618	13,356
203.78	4,336	11,074	204.30	4,624	13,402
203.79	4,341	11,117	204.31	4,629	13,449
203.80	4,347	11,161	204.32	4,635	13,495
203.81	4,352	11,204	204.33	4,640	13,541
203.82	4,357	11,248	204.34	4,646	13,588
203.83	4,363	11,291	204.35	4,652	13,634
203.84	4,368	11,335	204.36	4,657	13,681
203.85	4,373	11,379	204.37	4,663	13,727
203.86	4,379	11,423	204.38	4,669	13,774
203.87	4,384	11,466	204.39	4,674	13,821
203.88	4,390	11,510	204.40	4,680	13,868
203.89	4,395	11,554	204.41	4,686	13,914
203.90	4,400	11,598	204.42	4,691	13,961
203.91	4,406	11,642	204.43	4,697	14,008
203.92	4,411	11,686	204.44	4,703	14,055
203.93	4,416	11,730	204.45	4,708	14,102

Stage-Area-Storage for Pond B-39: Basin #39 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
204.46	4,714	14,149
204.47	4,720	14,197
204.48	4,725	14,244
204.49	4,731	14,291
204.50	4,737	14,338
204.51	4,742	14,386
204.52	4,748	14,433
204.53	4,753	14,481
204.54	4,759	14,528
204.55	4,765	14,576
204.56	4,770	14,624
204.57	4,776	14,671
204.58	4,782	14,719
204.59	4,787	14,767
204.60	4,793	14,815
204.61	4,799	14,863
204.62	4,804	14,911
204.63	4,810	14,959
204.64	4,816	15,007
204.65	4,821	15,055
204.66	4,827	15,103
204.67	4,833	15,152
204.68	4,838	15,200
204.69	4,844	15,249
204.70	4,850	15,297
204.71	4,855	15,346
204.72	4,861	15,394
204.73	4,866	15,443
204.74	4,872	15,491
204.75	4,878	15,540
204.76	4,883	15,589
204.77	4,889	15,638
204.78	4,895	15,687
204.79	4,900	15,736
204.80	4,906	15,785
204.81	4,912	15,834
204.82	4,917	15,883
204.83	4,923	15,932
204.84	4,929	15,981
204.85	4,934	16,031
204.86	4,940	16,080
204.87	4,946	16,130
204.88	4,951	16,179
204.89	4,957	16,229
204.90	4,963	16,278
204.91	4,968	16,328
204.92	4,974	16,378
204.93	4,979	16,427
204.94	4,985	16,477
204.95	4,991	16,527
204.96	4,996	16,577
204.97	5,002	16,627
204.98	5,008	16,677
204.99	5,013	16,727
205.00	**5,019**	**16,777**

Summary for Pond B-40: Basin #40

Inflow Area = 1.888 ac, 47.19% Impervious, Inflow Depth = 6.82" for Current 100 yr event
Inflow = 12.96 cfs @ 12.17 hrs, Volume= 1.073 af
Outflow = 6.40 cfs @ 12.34 hrs, Volume= 0.991 af, Atten= 51%, Lag= 10.1 min
Primary = 6.40 cfs @ 12.34 hrs, Volume= 0.991 af
Routed to Link PDA-3 : Proposed Drainage Area #3

Routing by Stor-Ind method, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
Peak Elev= 204.67' @ 12.34 hrs Surf.Area= 4,530 sf Storage= 11,955 cf

Plug-Flow detention time= 97.4 min calculated for 0.991 af (92% of inflow)
Center-of-Mass det. time= 54.7 min (831.2 - 776.5)

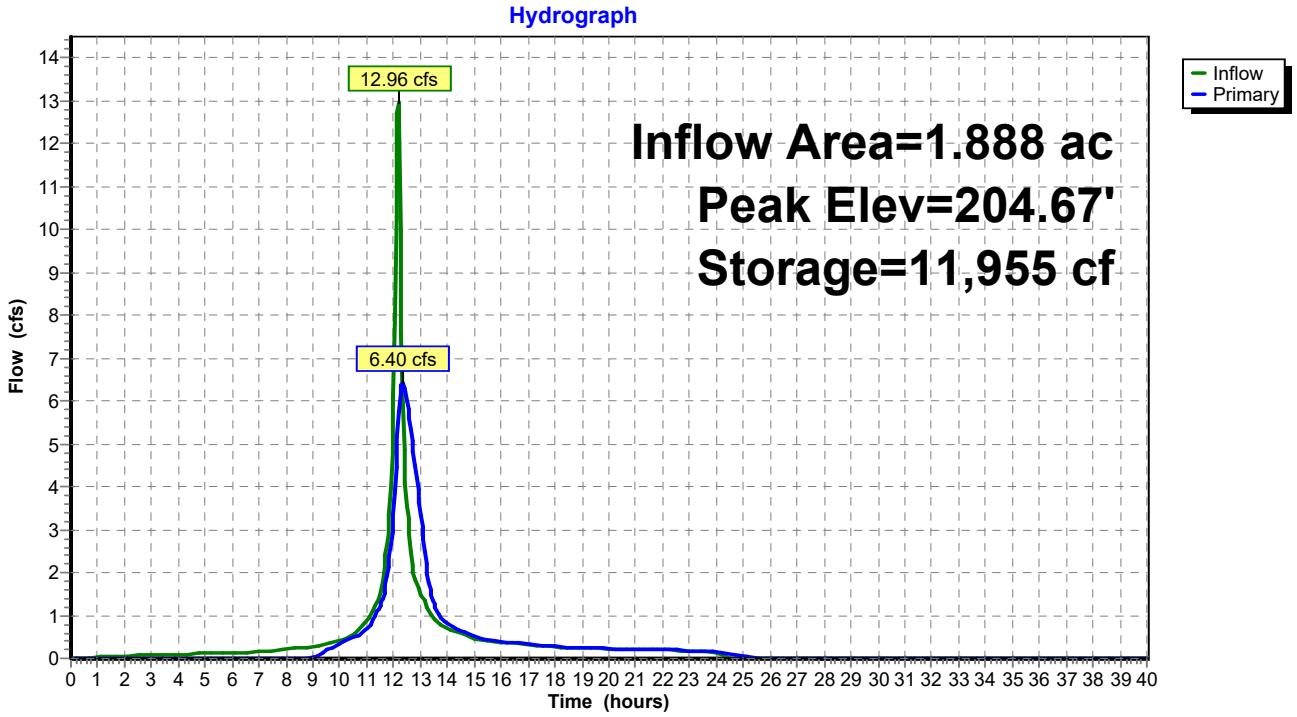
Volume	Invert	Avail.Storage	Storage Description
#1	201.30'	18,339 cf	**Custom Stage Data (Prismatic)** Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
201.30	0	0	0
202.00	3,521	1,232	1,232
203.00	3,886	3,704	4,936
204.00	4,266	4,076	9,012
205.00	4,660	4,463	13,475
206.00	5,069	4,865	18,339

Device	Routing	Invert	Outlet Devices
#1	Primary	201.30'	**18.0" Round Culvert** L= 38.0' Ke= 0.500 Inlet / Outlet Invert= 201.30' / 201.11' S= 0.0050 '/' Cc= 0.900 n= 0.013, Flow Area= 1.77 sf
#2	Device 1	202.65'	**24.0" W x 6.0" H Vert. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#3	Device 1	204.67'	**4.0' long Sharp-Crested Rectangular Weir** 2 End Contraction(s)
#4	Primary	205.49'	**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=6.39 cfs @ 12.34 hrs HW=204.66' (Free Discharge)
- **1=Culvert** (Passes 6.39 cfs of 13.72 cfs potential flow)
  - **2=Orifice/Grate** (Orifice Controls 6.39 cfs @ 6.39 fps)
  - **3=Sharp-Crested Rectangular Weir** (Controls 0.00 cfs)
- **4=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)

Pond B-40: Basin #40



Stage-Discharge for Pond B-40: Basin #40

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
201.30	0.00	201.82	0.00	202.34	0.00	202.86	0.62
201.31	0.00	201.83	0.00	202.35	0.00	202.87	0.66
201.32	0.00	201.84	0.00	202.36	0.00	202.88	0.71
201.33	0.00	201.85	0.00	202.37	0.00	202.89	0.75
201.34	0.00	201.86	0.00	202.38	0.00	202.90	0.80
201.35	0.00	201.87	0.00	202.39	0.00	202.91	0.85
201.36	0.00	201.88	0.00	202.40	0.00	202.92	0.90
201.37	0.00	201.89	0.00	202.41	0.00	202.93	0.95
201.38	0.00	201.90	0.00	202.42	0.00	202.94	1.00
201.39	0.00	201.91	0.00	202.43	0.00	202.95	1.05
201.40	0.00	201.92	0.00	202.44	0.00	202.96	1.11
201.41	0.00	201.93	0.00	202.45	0.00	202.97	1.16
201.42	0.00	201.94	0.00	202.46	0.00	202.98	1.22
201.43	0.00	201.95	0.00	202.47	0.00	202.99	1.27
201.44	0.00	201.96	0.00	202.48	0.00	203.00	1.33
201.45	0.00	201.97	0.00	202.49	0.00	203.01	1.39
201.46	0.00	201.98	0.00	202.50	0.00	203.02	1.44
201.47	0.00	201.99	0.00	202.51	0.00	203.03	1.50
201.48	0.00	202.00	0.00	202.52	0.00	203.04	1.56
201.49	0.00	202.01	0.00	202.53	0.00	203.05	1.62
201.50	0.00	202.02	0.00	202.54	0.00	203.06	1.69
201.51	0.00	202.03	0.00	202.55	0.00	203.07	1.75
201.52	0.00	202.04	0.00	202.56	0.00	203.08	1.81
201.53	0.00	202.05	0.00	202.57	0.00	203.09	1.87
201.54	0.00	202.06	0.00	202.58	0.00	203.10	1.94
201.55	0.00	202.07	0.00	202.59	0.00	203.11	2.00
201.56	0.00	202.08	0.00	202.60	0.00	203.12	2.07
201.57	0.00	202.09	0.00	202.61	0.00	203.13	2.13
201.58	0.00	202.10	0.00	202.62	0.00	203.14	2.20
201.59	0.00	202.11	0.00	202.63	0.00	203.15	2.27
201.60	0.00	202.12	0.00	202.64	0.00	203.16	2.33
201.61	0.00	202.13	0.00	202.65	0.00	203.17	2.39
201.62	0.00	202.14	0.00	202.66	0.01	203.18	2.44
201.63	0.00	202.15	0.00	202.67	0.02	203.19	2.50
201.64	0.00	202.16	0.00	202.68	0.03	203.20	2.55
201.65	0.00	202.17	0.00	202.69	0.05	203.21	2.60
201.66	0.00	202.18	0.00	202.70	0.07	203.22	2.64
201.67	0.00	202.19	0.00	202.71	0.09	203.23	2.69
201.68	0.00	202.20	0.00	202.72	0.12	203.24	2.74
201.69	0.00	202.21	0.00	202.73	0.15	203.25	2.78
201.70	0.00	202.22	0.00	202.74	0.17	203.26	2.82
201.71	0.00	202.23	0.00	202.75	0.20	203.27	2.87
201.72	0.00	202.24	0.00	202.76	0.23	203.28	2.91
201.73	0.00	202.25	0.00	202.77	0.27	203.29	2.95
201.74	0.00	202.26	0.00	202.78	0.30	203.30	2.99
201.75	0.00	202.27	0.00	202.79	0.34	203.31	3.03
201.76	0.00	202.28	0.00	202.80	0.37	203.32	3.07
201.77	0.00	202.29	0.00	202.81	0.41	203.33	3.11
201.78	0.00	202.30	0.00	202.82	0.45	203.34	3.15
201.79	0.00	202.31	0.00	202.83	0.49	203.35	3.19
201.80	0.00	202.32	0.00	202.84	0.53	203.36	3.22
201.81	0.00	202.33	0.00	202.85	0.57	203.37	3.26

Stage-Discharge for Pond B-40: Basin #40 (continued)

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
203.38	3.30	203.90	4.80	204.42	5.93	204.94	8.68
203.39	3.33	203.91	4.83	204.43	5.95	204.95	8.80
203.40	3.37	203.92	4.85	204.44	5.97	204.96	8.92
203.41	3.40	203.93	4.87	204.45	5.99	204.97	9.04
203.42	3.44	203.94	4.90	204.46	6.01	204.98	9.16
203.43	3.47	203.95	4.92	204.47	6.03	204.99	9.29
203.44	3.51	203.96	4.95	204.48	6.05	205.00	9.41
203.45	3.54	203.97	4.97	204.49	6.07	205.01	9.54
203.46	3.57	203.98	4.99	204.50	6.08	205.02	9.67
203.47	3.60	203.99	5.02	204.51	6.10	205.03	9.80
203.48	3.64	204.00	5.04	204.52	6.12	205.04	9.93
203.49	3.67	204.01	5.06	204.53	6.14	205.05	10.06
203.50	3.70	204.02	5.09	204.54	6.16	205.06	10.20
203.51	3.73	204.03	5.11	204.55	6.18	205.07	10.33
203.52	3.76	204.04	5.13	204.56	6.20	205.08	10.47
203.53	3.80	204.05	5.15	204.57	6.22	205.09	10.61
203.54	3.83	204.06	5.18	204.58	6.24	205.10	10.75
203.55	3.86	204.07	5.20	204.59	6.25	205.11	10.89
203.56	3.89	204.08	5.22	204.60	6.27	205.12	11.03
203.57	3.92	204.09	5.24	204.61	6.29	205.13	11.17
203.58	3.95	204.10	5.26	204.62	6.31	205.14	11.32
203.59	3.98	204.11	5.29	204.63	6.33	205.15	11.46
203.60	4.01	204.12	5.31	204.64	6.35	205.16	11.61
203.61	4.04	204.13	5.33	204.65	6.36	205.17	11.76
203.62	4.06	204.14	5.35	204.66	6.38	205.18	11.91
203.63	4.09	204.15	5.37	204.67	6.40	205.19	12.06
203.64	4.12	204.16	5.40	204.68	6.43	205.20	12.21
203.65	4.15	204.17	5.42	204.69	6.47	205.21	12.36
203.66	4.18	204.18	5.44	204.70	6.52	205.22	12.52
203.67	4.21	204.19	5.46	204.71	6.58	205.23	12.67
203.68	4.23	204.20	5.48	204.72	6.64	205.24	12.83
203.69	4.26	204.21	5.50	204.73	6.70	205.25	12.99
203.70	4.29	204.22	5.52	204.74	6.77	205.26	13.15
203.71	4.32	204.23	5.54	204.75	6.84	205.27	13.31
203.72	4.34	204.24	5.57	204.76	6.91	205.28	13.47
203.73	4.37	204.25	5.59	204.77	6.99	205.29	13.63
203.74	4.40	204.26	5.61	204.78	7.07	205.30	13.79
203.75	4.42	204.27	5.63	204.79	7.16	205.31	13.95
203.76	4.45	204.28	5.65	204.80	7.24	205.32	14.12
203.77	4.48	204.29	5.67	204.81	7.33	205.33	14.28
203.78	4.50	204.30	5.69	204.82	7.42	205.34	14.45
203.79	4.53	204.31	5.71	204.83	7.51	205.35	14.62
203.80	4.55	204.32	5.73	204.84	7.61	205.36	14.79
203.81	4.58	204.33	5.75	204.85	7.71	205.37	14.96
203.82	4.60	204.34	5.77	204.86	7.81	205.38	15.13
203.83	4.63	204.35	5.79	204.87	7.91	205.39	15.30
203.84	4.65	204.36	5.81	204.88	8.02	205.40	15.47
203.85	4.68	204.37	5.83	204.89	8.12	205.41	15.60
203.86	4.70	204.38	5.85	204.90	8.23	205.42	15.62
203.87	4.73	204.39	5.87	204.91	8.34	205.43	15.64
203.88	4.75	204.40	5.89	204.92	8.45	205.44	15.67
203.89	4.78	204.41	5.91	204.93	8.57	205.45	15.69

Stage-Discharge for Pond B-40: Basin #40 (continued)

Elevation (feet)	Primary (cfs)
205.46	15.71
205.47	15.74
205.48	15.76
205.49	15.78
205.50	15.92
205.51	16.16
205.52	16.46
205.53	16.81
205.54	17.21
205.55	17.64
205.56	18.12
205.57	18.62
205.58	19.16
205.59	19.73
205.60	20.32
205.61	20.95
205.62	21.60
205.63	22.27
205.64	22.97
205.65	23.69
205.66	24.43
205.67	25.20
205.68	25.99
205.69	26.80
205.70	27.67
205.71	28.56
205.72	29.48
205.73	30.43
205.74	31.40
205.75	32.39
205.76	33.41
205.77	34.46
205.78	35.53
205.79	36.62
205.80	37.74
205.81	38.89
205.82	40.05
205.83	41.25
205.84	42.46
205.85	43.70
205.86	44.97
205.87	46.25
205.88	47.57
205.89	48.90
205.90	50.29
205.91	51.70
205.92	53.14
205.93	54.61
205.94	56.10
205.95	57.62
205.96	59.16
205.97	60.73
205.98	62.33
205.99	63.95
206.00	**65.60**

Stage-Area-Storage for Pond B-40: Basin #40

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
201.30	0	0	201.82	2,616	680
201.31	50	0	201.83	2,666	706
201.32	101	1	201.84	2,716	733
201.33	151	2	201.85	2,767	761
201.34	201	4	201.86	2,817	789
201.35	252	6	201.87	2,867	817
201.36	302	9	201.88	2,917	846
201.37	352	12	201.89	2,968	875
201.38	402	16	201.90	3,018	905
201.39	453	20	201.91	3,068	936
201.40	503	25	201.92	3,119	967
201.41	553	30	201.93	3,169	998
201.42	604	36	201.94	3,219	1,030
201.43	654	43	201.95	3,270	1,063
201.44	704	49	201.96	3,320	1,096
201.45	755	57	201.97	3,370	1,129
201.46	805	64	201.98	3,420	1,163
201.47	855	73	201.99	3,471	1,197
201.48	905	81	202.00	3,521	1,232
201.49	956	91	202.01	3,525	1,268
201.50	1,006	101	202.02	3,528	1,303
201.51	1,056	111	202.03	3,532	1,338
201.52	1,107	122	202.04	3,536	1,373
201.53	1,157	133	202.05	3,539	1,409
201.54	1,207	145	202.06	3,543	1,444
201.55	1,258	157	202.07	3,547	1,480
201.56	1,308	170	202.08	3,550	1,515
201.57	1,358	183	202.09	3,554	1,551
201.58	1,408	197	202.10	3,558	1,586
201.59	1,459	212	202.11	3,561	1,622
201.60	1,509	226	202.12	3,565	1,657
201.61	1,559	242	202.13	3,568	1,693
201.62	1,610	258	202.14	3,572	1,729
201.63	1,660	274	202.15	3,576	1,765
201.64	1,710	291	202.16	3,579	1,800
201.65	1,761	308	202.17	3,583	1,836
201.66	1,811	326	202.18	3,587	1,872
201.67	1,861	344	202.19	3,590	1,908
201.68	1,911	363	202.20	3,594	1,944
201.69	1,962	383	202.21	3,598	1,980
201.70	2,012	402	202.22	3,601	2,016
201.71	2,062	423	202.23	3,605	2,052
201.72	2,113	444	202.24	3,609	2,088
201.73	2,163	465	202.25	3,612	2,124
201.74	2,213	487	202.26	3,616	2,160
201.75	2,263	509	202.27	3,620	2,196
201.76	2,314	532	202.28	3,623	2,233
201.77	2,364	556	202.29	3,627	2,269
201.78	2,414	579	202.30	3,631	2,305
201.79	2,465	604	202.31	3,634	2,341
201.80	2,515	629	202.32	3,638	2,378
201.81	2,565	654	202.33	3,641	2,414

Stage-Area-Storage for Pond B-40: Basin #40 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
202.34	3,645	2,451	202.86	3,835	4,395
202.35	3,649	2,487	202.87	3,839	4,434
202.36	3,652	2,524	202.88	3,842	4,472
202.37	3,656	2,560	202.89	3,846	4,511
202.38	3,660	2,597	202.90	3,850	4,549
202.39	3,663	2,633	202.91	3,853	4,588
202.40	3,667	2,670	202.92	3,857	4,626
202.41	3,671	2,707	202.93	3,860	4,665
202.42	3,674	2,743	202.94	3,864	4,703
202.43	3,678	2,780	202.95	3,868	4,742
202.44	3,682	2,817	202.96	3,871	4,781
202.45	3,685	2,854	202.97	3,875	4,819
202.46	3,689	2,891	202.98	3,879	4,858
202.47	3,693	2,928	202.99	3,882	4,897
202.48	3,696	2,964	203.00	3,886	4,936
202.49	3,700	3,001	203.01	3,890	4,975
202.50	3,704	3,038	203.02	3,894	5,014
202.51	3,707	3,076	203.03	3,897	5,053
202.52	3,711	3,113	203.04	3,901	5,092
202.53	3,714	3,150	203.05	3,905	5,131
202.54	3,718	3,187	203.06	3,909	5,170
202.55	3,722	3,224	203.07	3,913	5,209
202.56	3,725	3,261	203.08	3,916	5,248
202.57	3,729	3,299	203.09	3,920	5,287
202.58	3,733	3,336	203.10	3,924	5,326
202.59	3,736	3,373	203.11	3,928	5,366
202.60	3,740	3,411	203.12	3,932	5,405
202.61	3,744	3,448	203.13	3,935	5,444
202.62	3,747	3,486	203.14	3,939	5,484
202.63	3,751	3,523	203.15	3,943	5,523
202.64	3,755	3,561	203.16	3,947	5,562
202.65	3,758	3,598	203.17	3,951	5,602
202.66	3,762	3,636	203.18	3,954	5,641
202.67	3,766	3,673	203.19	3,958	5,681
202.68	3,769	3,711	203.20	3,962	5,721
202.69	3,773	3,749	203.21	3,966	5,760
202.70	3,777	3,786	203.22	3,970	5,800
202.71	3,780	3,824	203.23	3,973	5,840
202.72	3,784	3,862	203.24	3,977	5,879
202.73	3,787	3,900	203.25	3,981	5,919
202.74	3,791	3,938	203.26	3,985	5,959
202.75	3,795	3,976	203.27	3,989	5,999
202.76	3,798	4,014	203.28	3,992	6,039
202.77	3,802	4,052	203.29	3,996	6,079
202.78	3,806	4,090	203.30	4,000	6,119
202.79	3,809	4,128	203.31	4,004	6,159
202.80	3,813	4,166	203.32	4,008	6,199
202.81	3,817	4,204	203.33	4,011	6,239
202.82	3,820	4,242	203.34	4,015	6,279
202.83	3,824	4,281	203.35	4,019	6,319
202.84	3,828	4,319	203.36	4,023	6,359
202.85	3,831	4,357	203.37	4,027	6,400

Stage-Area-Storage for Pond B-40: Basin #40 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
203.38	4,030	6,440
203.39	4,034	6,480
203.40	4,038	6,521
203.41	4,042	6,561
203.42	4,046	6,601
203.43	4,049	6,642
203.44	4,053	6,682
203.45	4,057	6,723
203.46	4,061	6,764
203.47	4,065	6,804
203.48	4,068	6,845
203.49	4,072	6,886
203.50	4,076	6,926
203.51	4,080	6,967
203.52	4,084	7,008
203.53	4,087	7,049
203.54	4,091	7,090
203.55	4,095	7,131
203.56	4,099	7,172
203.57	4,103	7,213
203.58	4,106	7,254
203.59	4,110	7,295
203.60	4,114	7,336
203.61	4,118	7,377
203.62	4,122	7,418
203.63	4,125	7,459
203.64	4,129	7,501
203.65	4,133	7,542
203.66	4,137	7,583
203.67	4,141	7,625
203.68	4,144	7,666
203.69	4,148	7,708
203.70	4,152	7,749
203.71	4,156	7,791
203.72	4,160	7,832
203.73	4,163	7,874
203.74	4,167	7,916
203.75	4,171	7,957
203.76	4,175	7,999
203.77	4,179	8,041
203.78	4,182	8,083
203.79	4,186	8,124
203.80	4,190	8,166
203.81	4,194	8,208
203.82	4,198	8,250
203.83	4,201	8,292
203.84	4,205	8,334
203.85	4,209	8,376
203.86	4,213	8,418
203.87	4,217	8,460
203.88	4,220	8,503
203.89	4,224	8,545
203.90	4,228	8,587
203.91	4,232	8,629
203.92	4,236	8,672
203.93	4,239	8,714
203.94	4,243	8,757
203.95	4,247	8,799
203.96	4,251	8,842
203.97	4,255	8,884
203.98	4,258	8,927
203.99	4,262	8,969
204.00	4,266	9,012
204.01	4,270	9,055
204.02	4,274	9,097
204.03	4,278	9,140
204.04	4,282	9,183
204.05	4,286	9,226
204.06	4,290	9,269
204.07	4,294	9,311
204.08	4,298	9,354
204.09	4,301	9,397
204.10	4,305	9,440
204.11	4,309	9,483
204.12	4,313	9,527
204.13	4,317	9,570
204.14	4,321	9,613
204.15	4,325	9,656
204.16	4,329	9,699
204.17	4,333	9,743
204.18	4,337	9,786
204.19	4,341	9,830
204.20	4,345	9,873
204.21	4,349	9,916
204.22	4,353	9,960
204.23	4,357	10,003
204.24	4,361	10,047
204.25	4,365	10,091
204.26	4,368	10,134
204.27	4,372	10,178
204.28	4,376	10,222
204.29	4,380	10,266
204.30	4,384	10,309
204.31	4,388	10,353
204.32	4,392	10,397
204.33	4,396	10,441
204.34	4,400	10,485
204.35	4,404	10,529
204.36	4,408	10,573
204.37	4,412	10,617
204.38	4,416	10,661
204.39	4,420	10,706
204.40	4,424	10,750
204.41	4,428	10,794

Stage-Area-Storage for Pond B-40: Basin #40 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
204.42	4,431	10,838	204.94	4,636	13,196
204.43	4,435	10,883	204.95	4,640	13,242
204.44	4,439	10,927	204.96	4,644	13,289
204.45	4,443	10,971	204.97	4,648	13,335
204.46	4,447	11,016	204.98	4,652	13,382
204.47	4,451	11,060	204.99	4,656	13,428
204.48	4,455	11,105	205.00	4,660	13,475
204.49	4,459	11,149	205.01	4,664	13,521
204.50	4,463	11,194	205.02	4,668	13,568
204.51	4,467	11,239	205.03	4,672	13,615
204.52	4,471	11,283	205.04	4,676	13,662
204.53	4,475	11,328	205.05	4,680	13,708
204.54	4,479	11,373	205.06	4,685	13,755
204.55	4,483	11,418	205.07	4,689	13,802
204.56	4,487	11,463	205.08	4,693	13,849
204.57	4,491	11,507	205.09	4,697	13,896
204.58	4,495	11,552	205.10	4,701	13,943
204.59	4,498	11,597	205.11	4,705	13,990
204.60	4,502	11,642	205.12	4,709	14,037
204.61	4,506	11,687	205.13	4,713	14,084
204.62	4,510	11,732	205.14	4,717	14,131
204.63	4,514	11,778	205.15	4,721	14,178
204.64	4,518	11,823	205.16	4,725	14,226
204.65	4,522	11,868	205.17	4,730	14,273
204.66	4,526	11,913	205.18	4,734	14,320
204.67	4,530	11,959	205.19	4,738	14,368
204.68	4,534	12,004	205.20	4,742	14,415
204.69	4,538	12,049	205.21	4,746	14,462
204.70	4,542	12,095	205.22	4,750	14,510
204.71	4,546	12,140	205.23	4,754	14,557
204.72	4,550	12,185	205.24	4,758	14,605
204.73	4,554	12,231	205.25	4,762	14,653
204.74	4,558	12,277	205.26	4,766	14,700
204.75	4,562	12,322	205.27	4,770	14,748
204.76	4,565	12,368	205.28	4,775	14,796
204.77	4,569	12,413	205.29	4,779	14,843
204.78	4,573	12,459	205.30	4,783	14,891
204.79	4,577	12,505	205.31	4,787	14,939
204.80	4,581	12,551	205.32	4,791	14,987
204.81	4,585	12,597	205.33	4,795	15,035
204.82	4,589	12,642	205.34	4,799	15,083
204.83	4,593	12,688	205.35	4,803	15,131
204.84	4,597	12,734	205.36	4,807	15,179
204.85	4,601	12,780	205.37	4,811	15,227
204.86	4,605	12,826	205.38	4,815	15,275
204.87	4,609	12,872	205.39	4,820	15,323
204.88	4,613	12,918	205.40	4,824	15,372
204.89	4,617	12,965	205.41	4,828	15,420
204.90	4,621	13,011	205.42	4,832	15,468
204.91	4,625	13,057	205.43	4,836	15,516
204.92	4,628	13,103	205.44	4,840	15,565
204.93	4,632	13,150	205.45	4,844	15,613

Stage-Area-Storage for Pond B-40: Basin #40 (continued)

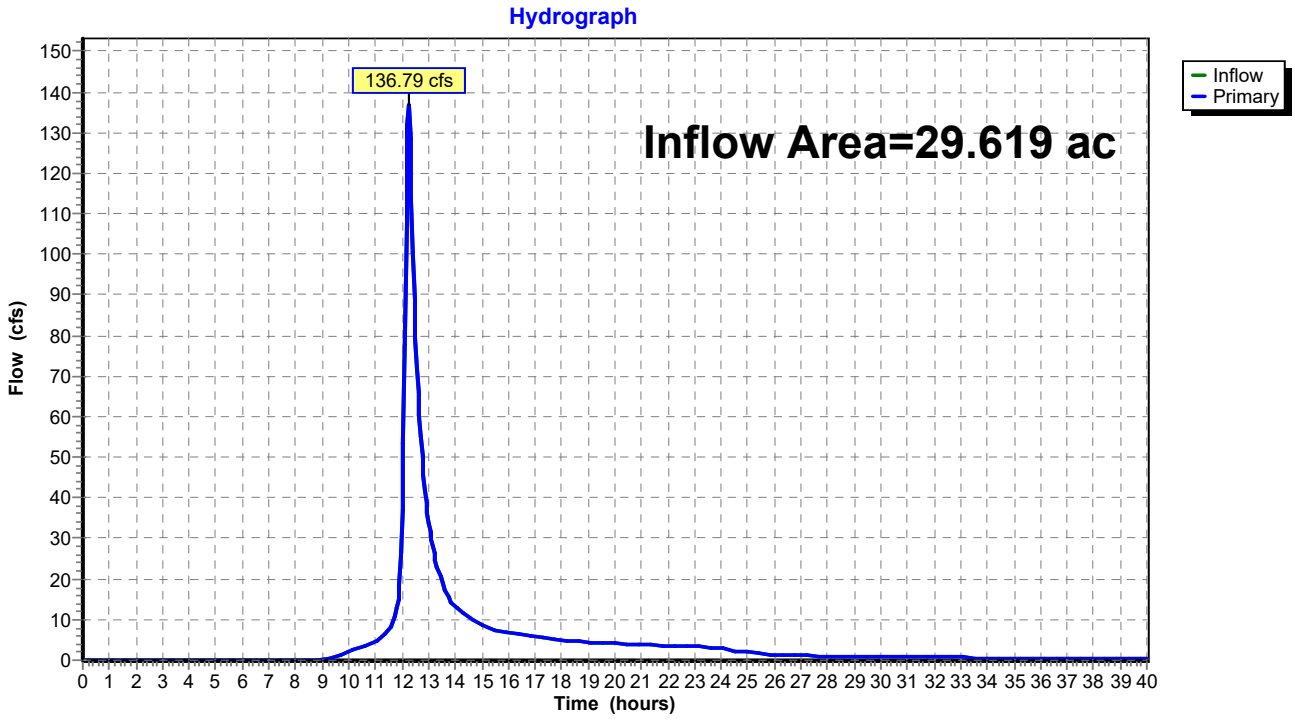
Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
205.46	4,848	15,662
205.47	4,852	15,710
205.48	4,856	15,759
205.49	4,860	15,807
205.50	4,865	15,856
205.51	4,869	15,905
205.52	4,873	15,953
205.53	4,877	16,002
205.54	4,881	16,051
205.55	4,885	16,100
205.56	4,889	16,149
205.57	4,893	16,197
205.58	4,897	16,246
205.59	4,901	16,295
205.60	4,905	16,344
205.61	4,909	16,394
205.62	4,914	16,443
205.63	4,918	16,492
205.64	4,922	16,541
205.65	4,926	16,590
205.66	4,930	16,640
205.67	4,934	16,689
205.68	4,938	16,738
205.69	4,942	16,788
205.70	4,946	16,837
205.71	4,950	16,887
205.72	4,954	16,936
205.73	4,959	16,986
205.74	4,963	17,035
205.75	4,967	17,085
205.76	4,971	17,135
205.77	4,975	17,184
205.78	4,979	17,234
205.79	4,983	17,284
205.80	4,987	17,334
205.81	4,991	17,384
205.82	4,995	17,434
205.83	4,999	17,484
205.84	5,004	17,534
205.85	5,008	17,584
205.86	5,012	17,634
205.87	5,016	17,684
205.88	5,020	17,734
205.89	5,024	17,784
205.90	5,028	17,834
205.91	5,032	17,885
205.92	5,036	17,935
205.93	5,040	17,986
205.94	5,044	18,036
205.95	5,049	18,086
205.96	5,053	18,137
205.97	5,057	18,187
205.98	5,061	18,238
205.99	5,065	18,289
206.00	**5,069**	**18,339**

Summary for Link PDA-3: Proposed Drainage Area #3

Inflow Area = 29.619 ac, 38.13% Impervious, Inflow Depth > 5.96" for Current 100 yr event
Inflow = 136.79 cfs @ 12.24 hrs, Volume= 14.718 af
Primary = 136.79 cfs @ 12.24 hrs, Volume= 14.718 af, Atten= 0%, Lag= 0.0 min

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

Link PDA-3: Proposed Drainage Area #3



Summary for Subcatchment 29l: PDA-29 (impervious)

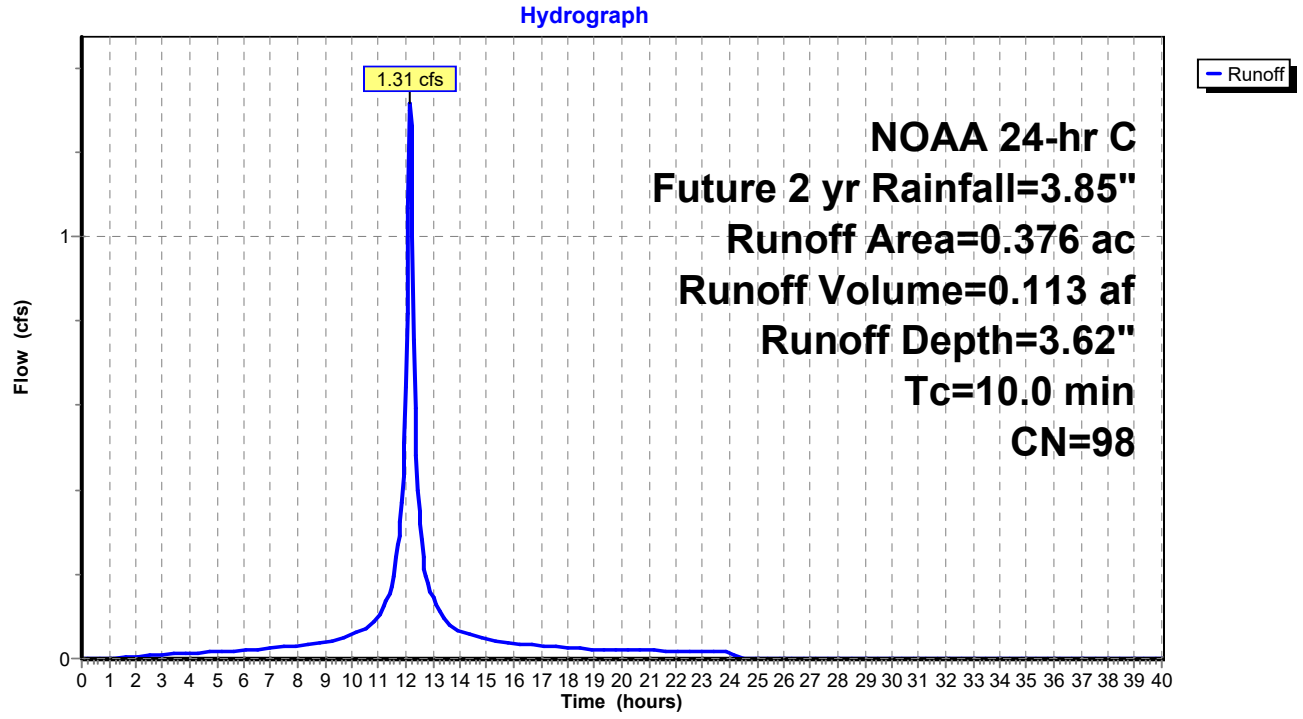
Runoff = 1.31 cfs @ 12.17 hrs, Volume= 0.113 af, Depth= 3.62"
Routed to Pond B-29 : Basin #29

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
*	0.342	98	Pavement, HSG C
*	0.034	98	Concrete, HSC C
	0.376	98	Weighted Average
	0.376		100.00% Impervious Area

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

Subcatchment 29l: PDA-29 (impervious)



Summary for Subcatchment 29P: PDA-29 (pervious)

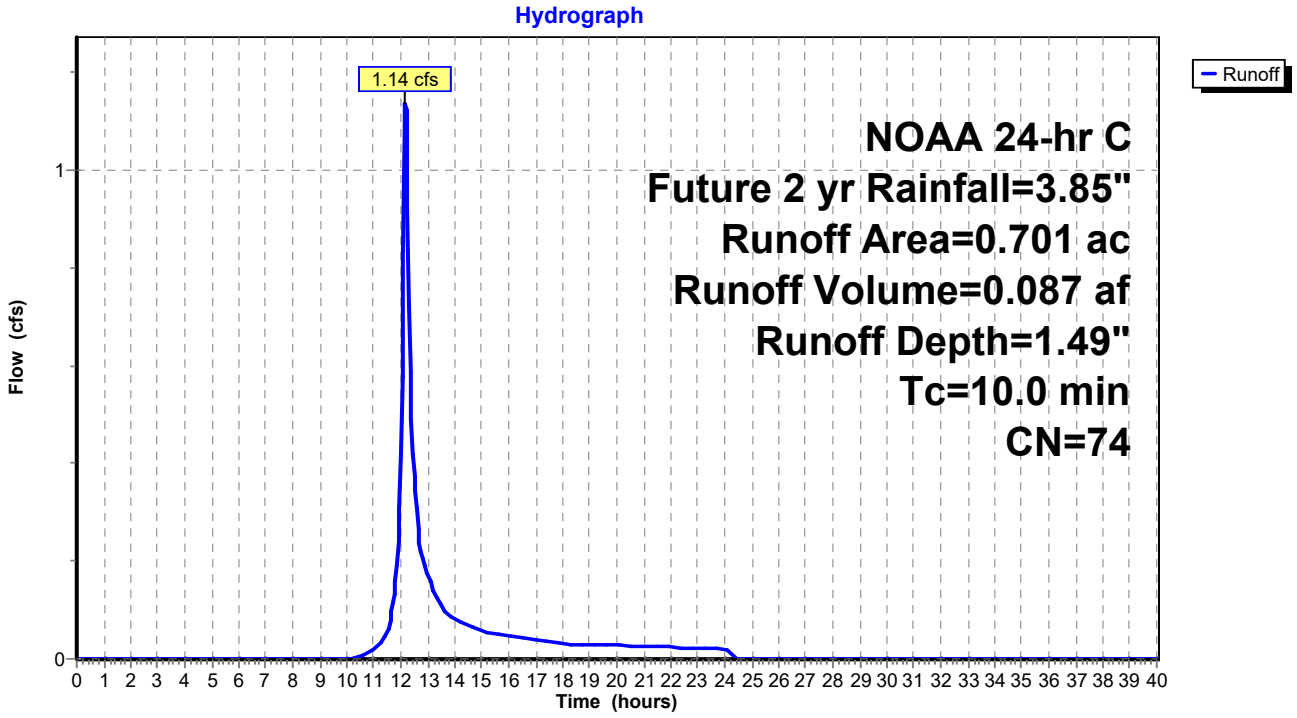
Runoff = 1.14 cfs @ 12.18 hrs, Volume= 0.087 af, Depth= 1.49"
Routed to Pond B-29 : Basin #29

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
0.701	74	>75% Grass cover, Good, HSG C
0.701		100.00% Pervious Area

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

Subcatchment 29P: PDA-29 (pervious)



Summary for Subcatchment 30l: PDA-30 (impervious)

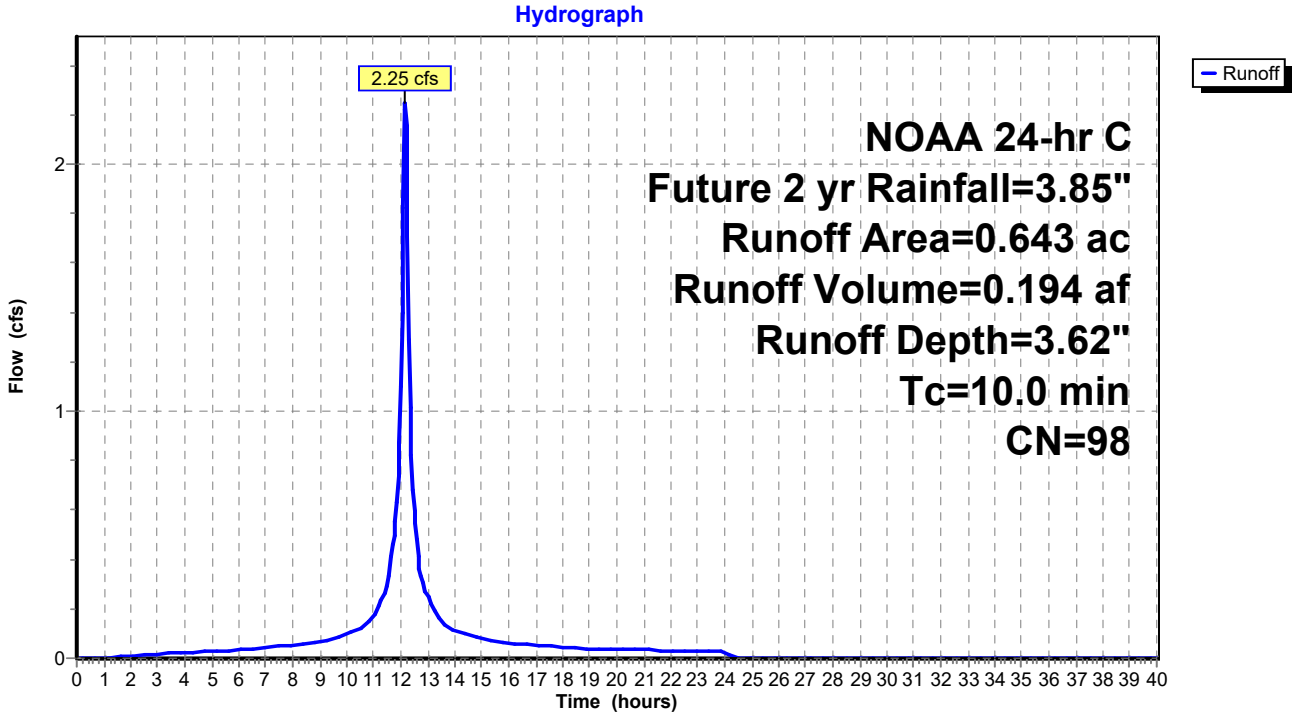
Runoff = 2.25 cfs @ 12.17 hrs, Volume= 0.194 af, Depth= 3.62"
Routed to Pond B-30 : Basin #30

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
*	0.643	98	Roof, HSG C
*	0.000	98	Concrete, HSC C
	0.643	98	Weighted Average
	0.643		100.00% Impervious Area

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

Subcatchment 30l: PDA-30 (impervious)



Summary for Subcatchment 30P: PDA-30 (pervious)

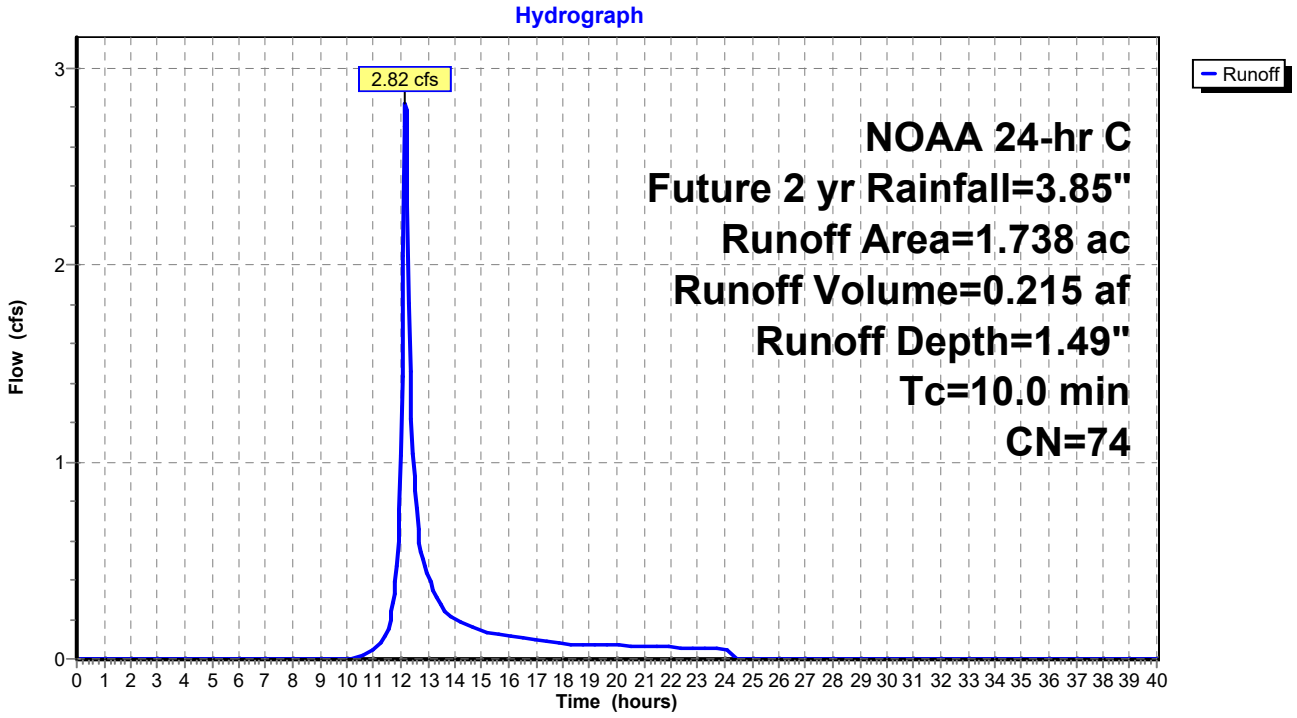
Runoff = 2.82 cfs @ 12.18 hrs, Volume= 0.215 af, Depth= 1.49"
Routed to Pond B-30 : Basin #30

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
1.738	74	>75% Grass cover, Good, HSG C
1.738		100.00% Pervious Area

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

Subcatchment 30P: PDA-30 (pervious)



Summary for Subcatchment 31I: PDA-31 (impervious)

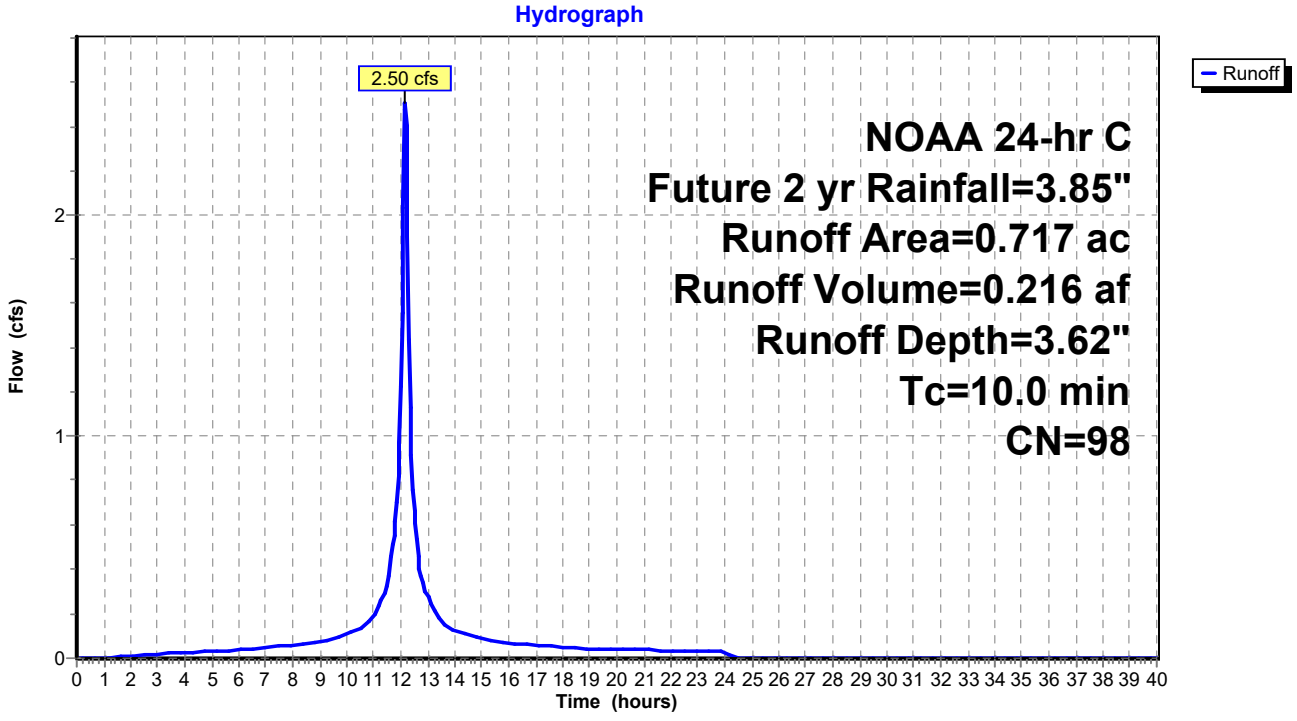
Runoff = 2.50 cfs @ 12.17 hrs, Volume= 0.216 af, Depth= 3.62"
Routed to Pond B-31 : Basin #31

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
*	0.557	98	Pavement, HSG C
*	0.064	98	Roof, HSG C
*	0.096	98	Concrete, HSC C
	0.717	98	Weighted Average
	0.717		100.00% Impervious Area

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

Subcatchment 31I: PDA-31 (impervious)



Summary for Subcatchment 31P: PDA-31 (pervious)

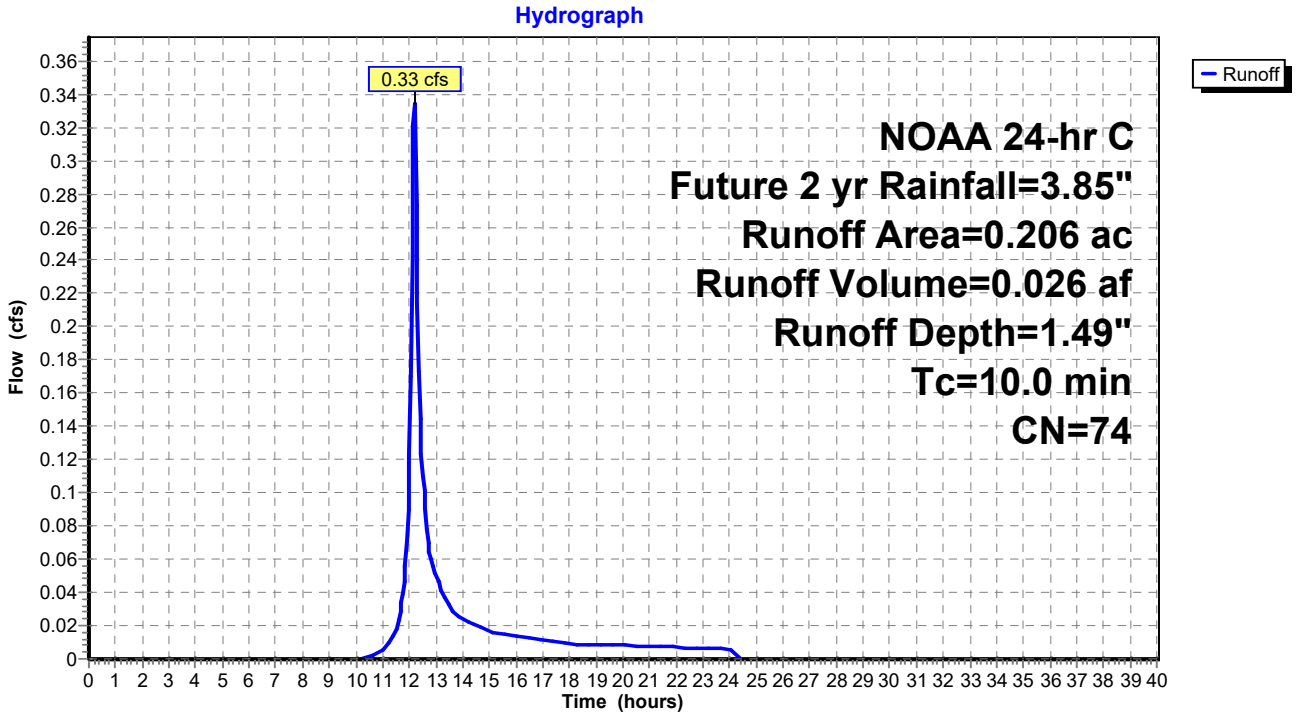
Runoff = 0.33 cfs @ 12.18 hrs, Volume= 0.026 af, Depth= 1.49"
Routed to Pond B-31 : Basin #31

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
0.206	74	>75% Grass cover, Good, HSG C
0.206		100.00% Pervious Area

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

Subcatchment 31P: PDA-31 (pervious)



Summary for Subcatchment 32I: PDA-32 (impervious)

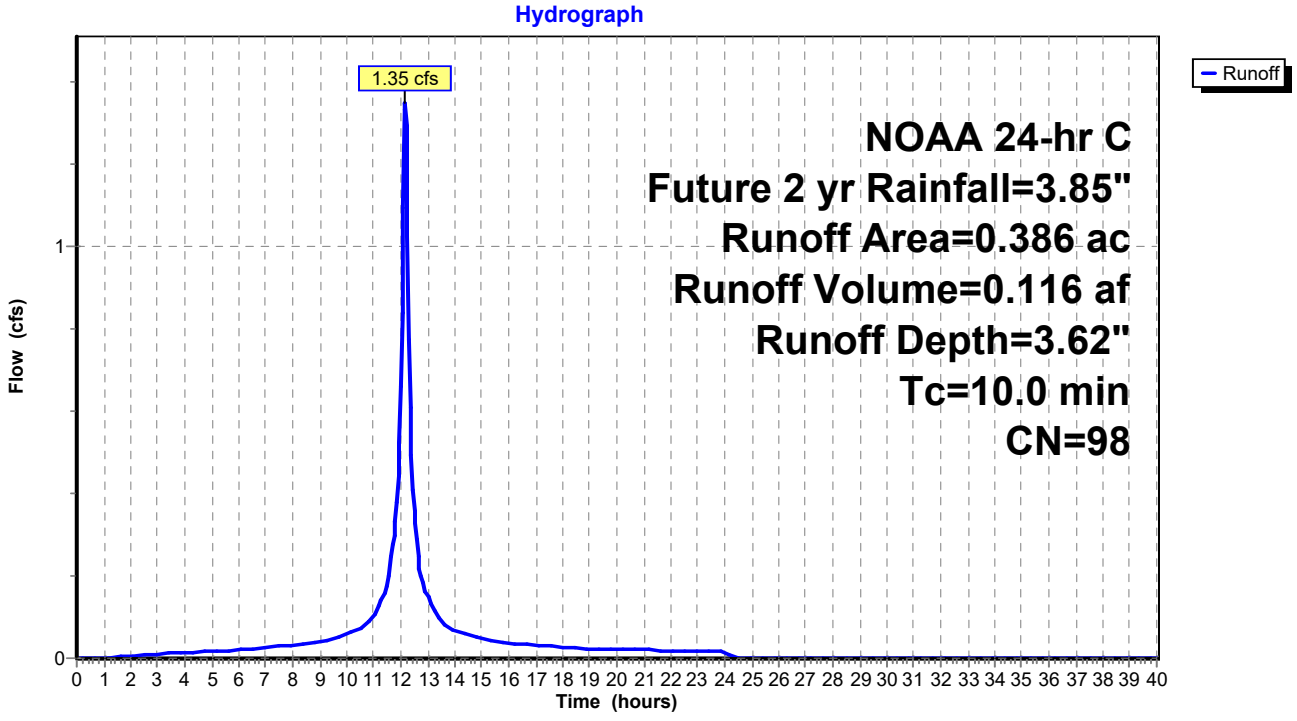
Runoff = 1.35 cfs @ 12.17 hrs, Volume= 0.116 af, Depth= 3.62"
Routed to Pond B-32 : Basin #32

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
*	0.386	98	Roof, HSG C
*	0.000	98	Concrete, HSC C
	0.386	98	Weighted Average
	0.386		100.00% Impervious Area

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

Subcatchment 32I: PDA-32 (impervious)



Summary for Subcatchment 32P: PDA-32 (pervious)

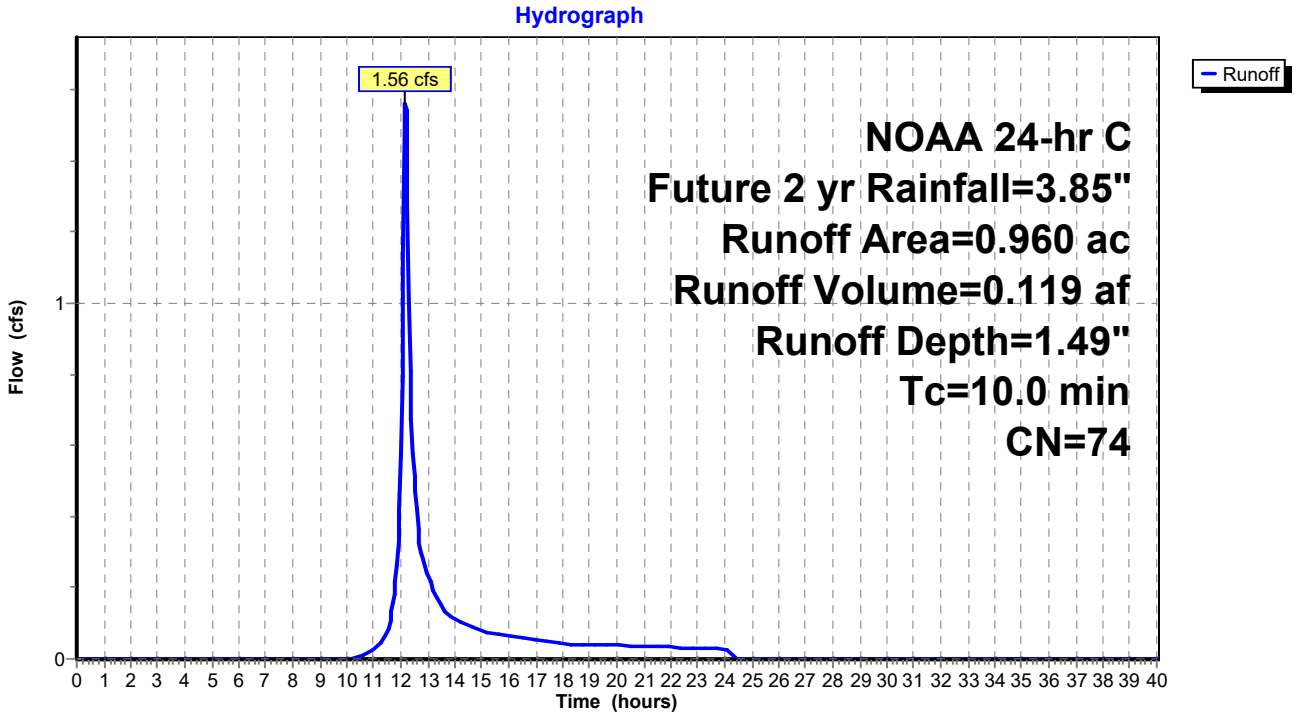
Runoff = 1.56 cfs @ 12.18 hrs, Volume= 0.119 af, Depth= 1.49"
Routed to Pond B-32 : Basin #32

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
0.960	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 32P: PDA-32 (pervious)



Summary for Subcatchment 33l: PDA-33 (impervious)

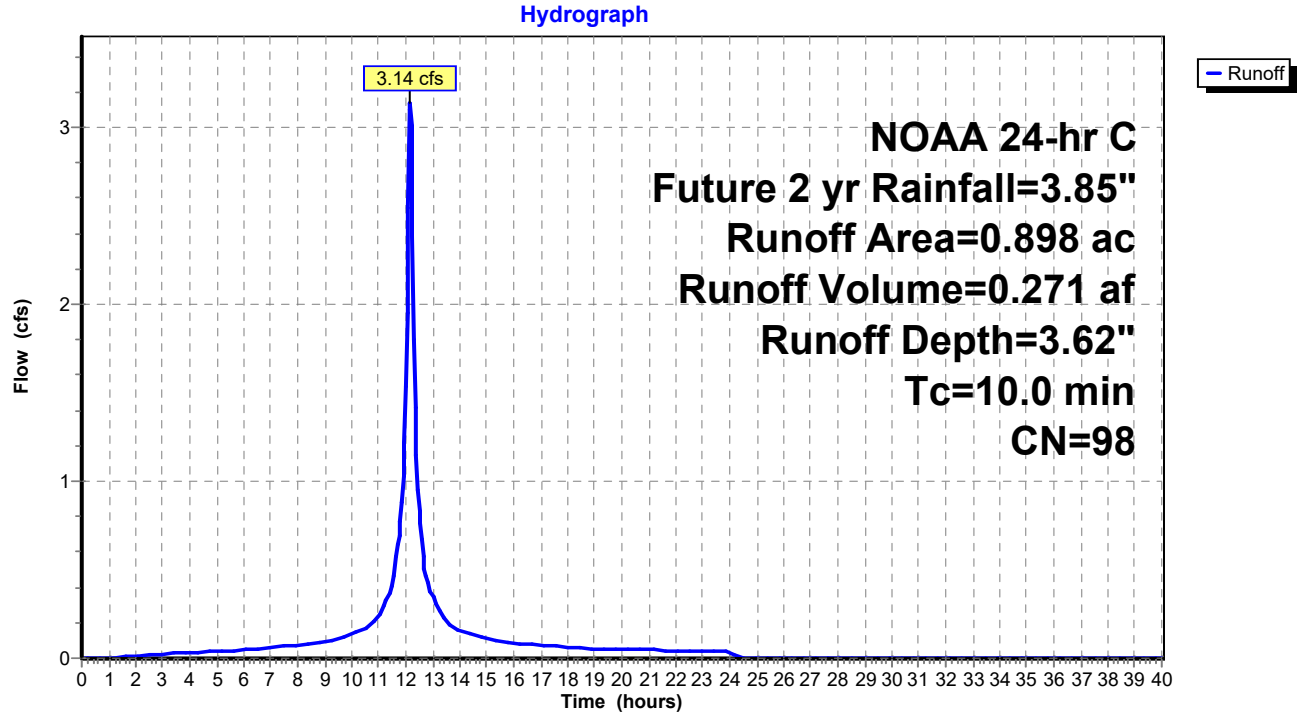
Runoff = 3.14 cfs @ 12.17 hrs, Volume= 0.271 af, Depth= 3.62"
Routed to Pond B-33 : Basin #33

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
*	0.351	98	Pavement, HSG C
*	0.514	98	Roof, HSG C
*	0.033	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 33l: PDA-33 (impervious)



Summary for Subcatchment 33P: PDA-33 (pervious)

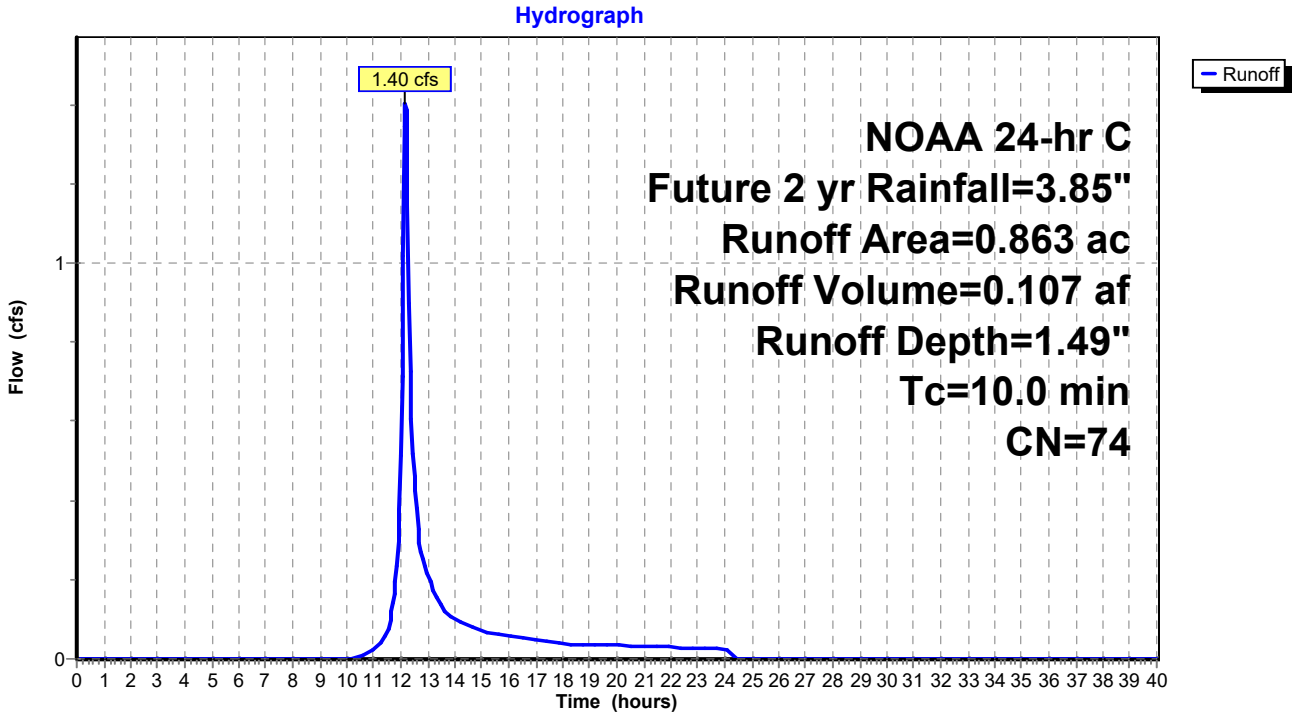
Runoff = 1.40 cfs @ 12.18 hrs, Volume= 0.107 af, Depth= 1.49"
Routed to Pond B-33 : Basin #33

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
0.863	74	>75% Grass cover, Good, HSG C
0.863		100.00% Pervious Area

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

Subcatchment 33P: PDA-33 (pervious)



Summary for Subcatchment 34l: PDA-34 (impervious)

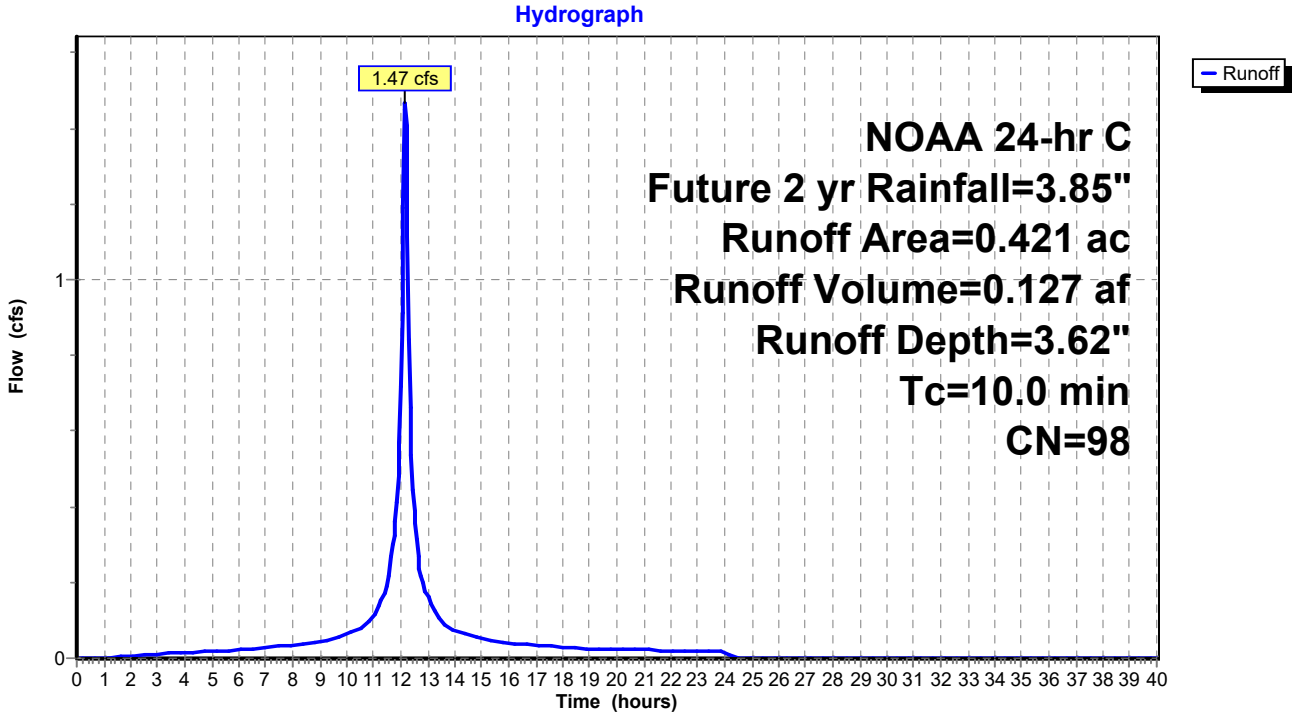
Runoff = 1.47 cfs @ 12.17 hrs, Volume= 0.127 af, Depth= 3.62"
Routed to Pond B-34 : Basin #34

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
*	0.279	98	Roof, HSG C
*	0.142	98	Concrete, HSC C
	0.421	98	Weighted Average
	0.421		100.00% Impervious Area

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

Subcatchment 34l: PDA-34 (impervious)



Summary for Subcatchment 34P: PDA-34 (pervious)

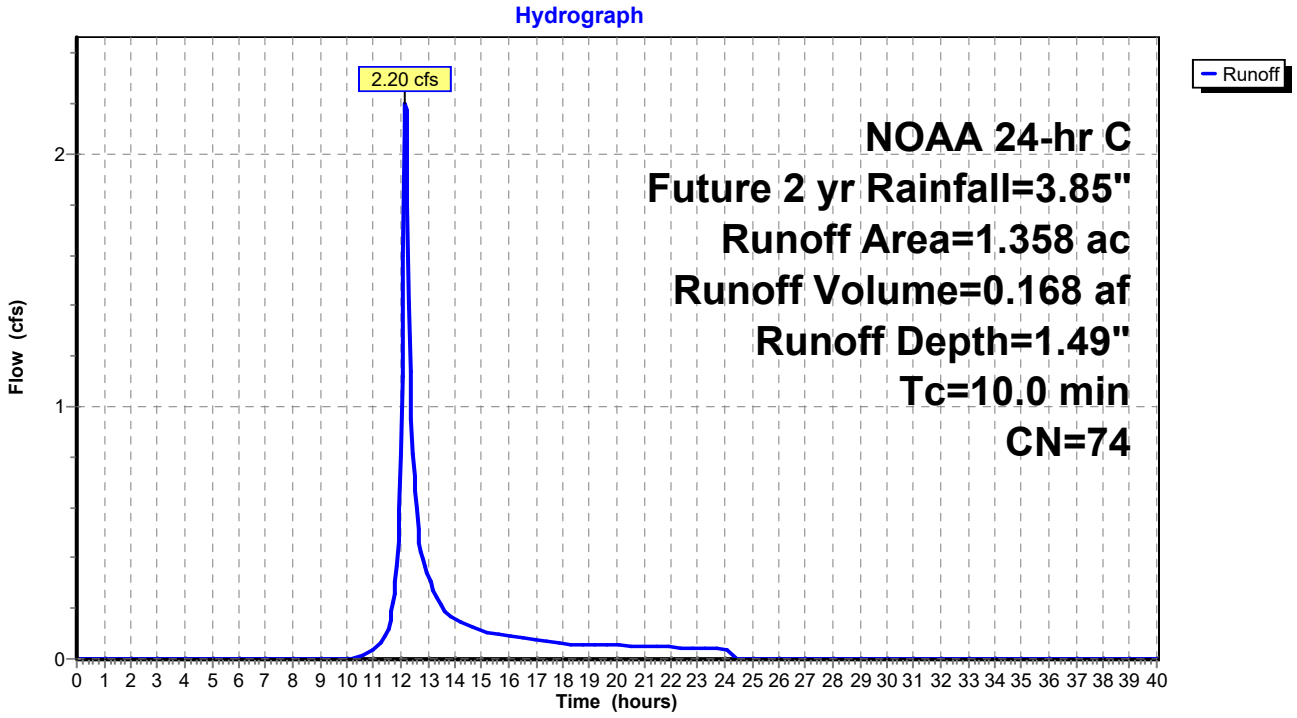
Runoff = 2.20 cfs @ 12.18 hrs, Volume= 0.168 af, Depth= 1.49"
Routed to Pond B-34 : Basin #34

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
1.358	74	>75% Grass cover, Good, HSG C
1.358		100.00% Pervious Area

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

Subcatchment 34P: PDA-34 (pervious)



Summary for Subcatchment 35l: PDA-35 (impervious)

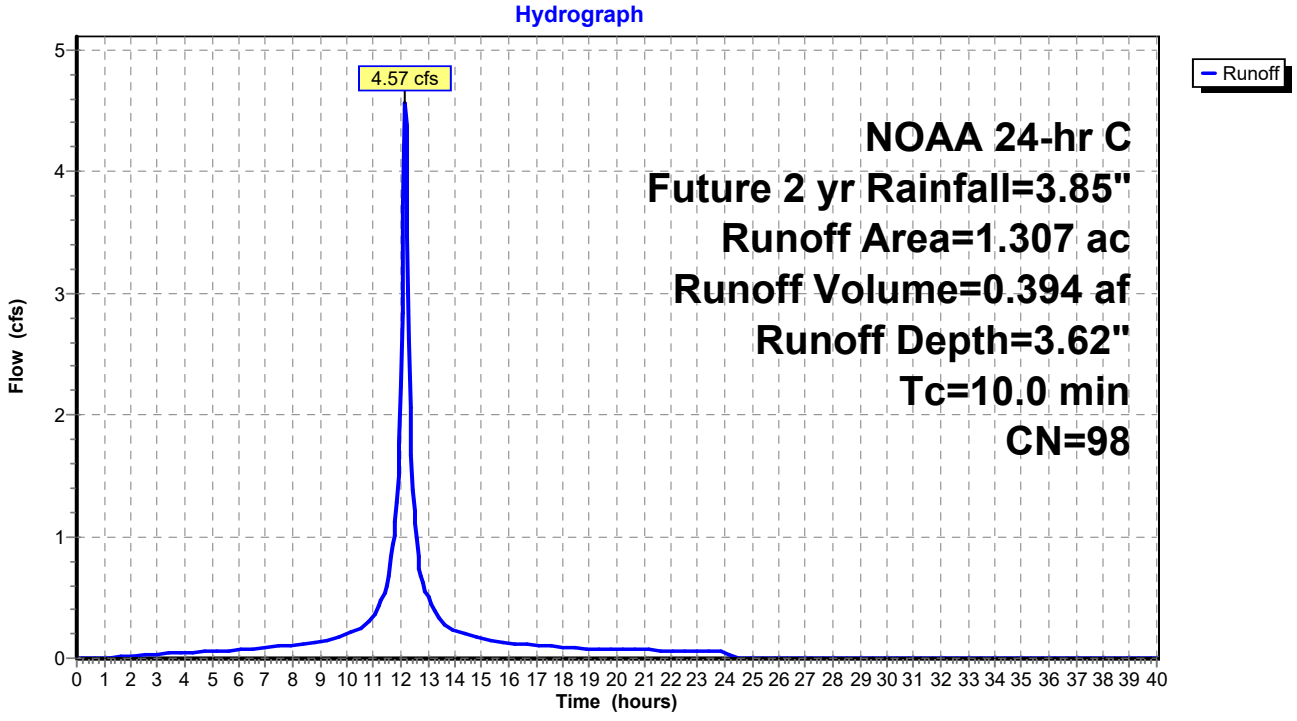
Runoff = 4.57 cfs @ 12.17 hrs, Volume= 0.394 af, Depth= 3.62"
Routed to Pond B-35 : Basin #35

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
*	1.003	98	Pavement, HSG C
*	0.139	98	Roof, HSG C
*	0.165	98	Concrete, HSC C
	1.307	98	Weighted Average
	1.307		100.00% Impervious Area

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

Subcatchment 35l: PDA-35 (impervious)



Summary for Subcatchment 35P: PDA-35 (pervious)

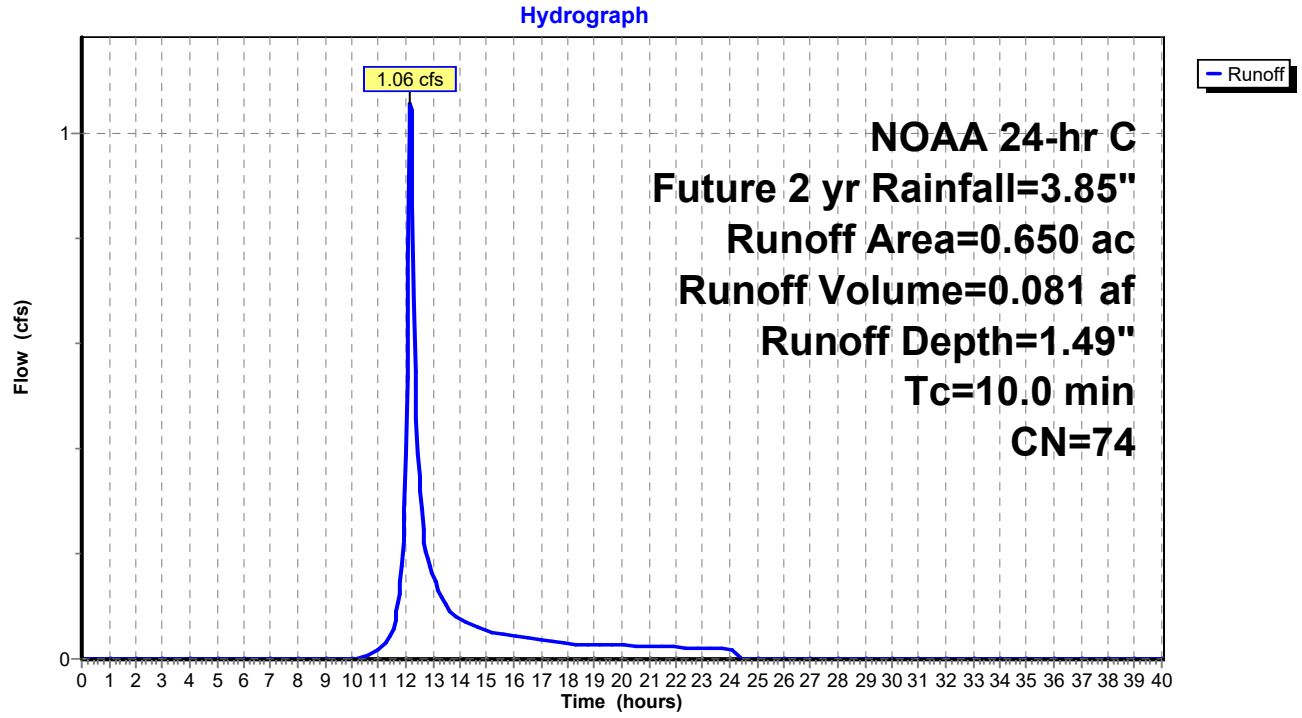
Runoff = 1.06 cfs @ 12.18 hrs, Volume= 0.081 af, Depth= 1.49"
Routed to Pond B-35 : Basin #35

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
0.650	74	>75% Grass cover, Good, HSG C
0.650		100.00% Pervious Area

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

Subcatchment 35P: PDA-35 (pervious)



Summary for Subcatchment 36AI: PDA-36A (impervious)

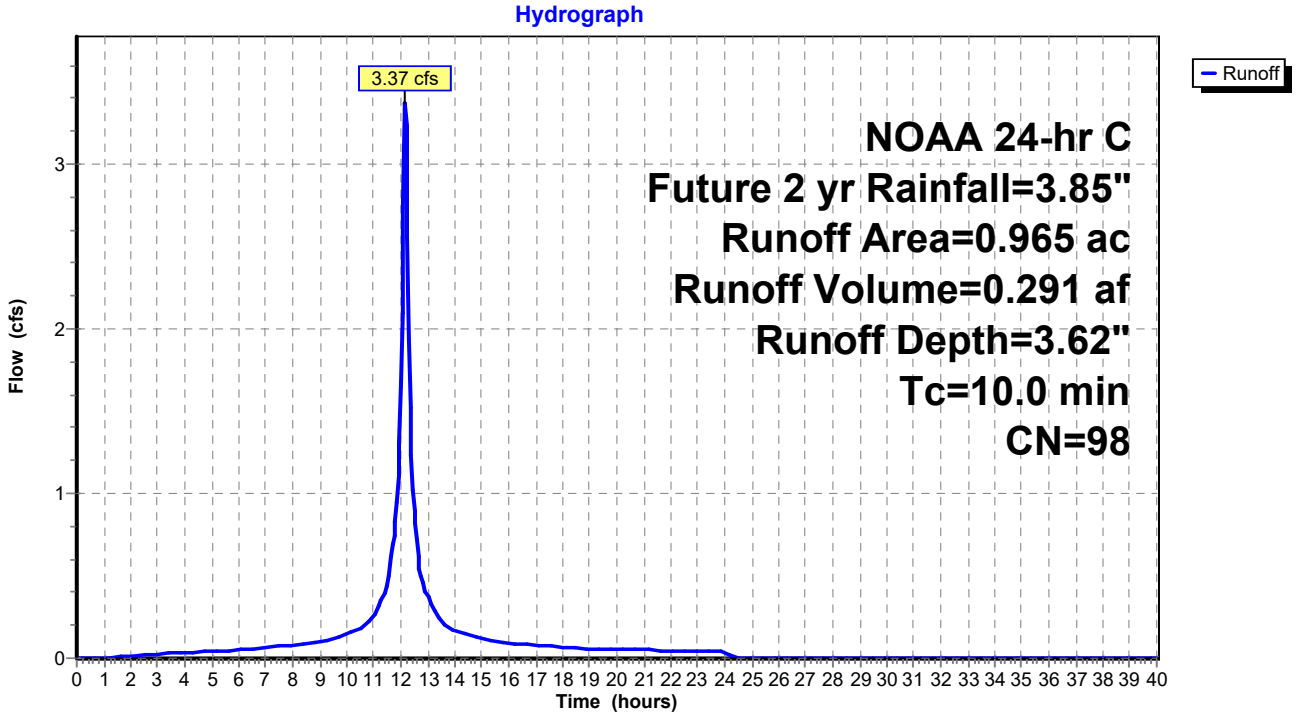
Runoff = 3.37 cfs @ 12.17 hrs, Volume= 0.291 af, Depth= 3.62"
Routed to Pond B-36A : Basin #36A

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
*	0.415	98	Pavement, HSG C
*	0.418	98	Roof, HSG C
*	0.132	98	Concrete, HSC C
	0.965	98	Weighted Average
	0.965		100.00% Impervious Area

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

Subcatchment 36AI: PDA-36A (impervious)



Summary for Subcatchment 36AP: PDA-36A (pervious)

Runoff = 2.29 cfs @ 12.18 hrs, Volume= 0.175 af, Depth= 1.49"
Routed to Pond B-36A : Basin #36A

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
1.412	74	>75% Grass cover, Good, HSG C
1.412		100.00% Pervious Area

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

Subcatchment 36AP: PDA-36A (pervious)